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THEORETICAL DISPERSION TABLES FOR LOVE WAVES PROPAGATING IN A WEDGE AND IN A SINGLE NON-HOMOGENEOUS LAYER WITH A LINEAR VELOCITY GRADIENT

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K. PŠENČÍK

ABSTRACT: Dispersion of Love waves propagating in a wedge and in a single layer with a linear gradient of shear wave velocity overlying a homogeneous semi-infinite half-space is considered. The dispersion equations have been deduced from the condition of constructive interference in both cases under consideration. The domain of existence of Love waves in a wedge-shaped layer has been discussed. For a very shallow slope the domain is essentially equivalent to that of a single layer with parallel boundaries. With increasing slope of the wedge the domain of existence becomes more complex. However, there are large deviations in the shape of dispersion curves with respect to the curves associated with the standard model even for small angles of inclination. These deviations are greatest for comparatively great wave lengths with respect to the thickness of the layer; with decreasing wave length the effects quickly decrease.

In the possible range of linear gradients of shear wave velocity in the earth's crust, there are no essential deviations from the standard model.

The dispersion tables for a wedge and inhomogeneous layer are given. These tables have been calculated on the basis of deduced dispersion formulae. The method of successive approximations has been used in the former case; the dispersion formula for inhomogeneous layer is given in the closed form. The dispersion tables of Love waves for a standard model are also given.

RÉSUMÉ: L'auteur étudie dans le présent article la dispersion des ondes de Love qui se propagent dans un coin et dans une couche simple, avec le gradient linéaire de la vitesse des ondes transversales recouvrant un demi-espace homogène et semi-infini. Les équations de dispersion ont été déduites, dans les deux cas à l'étude, de la condition de l'interférence constructive. Il a étudié le rang d'existence des ondes de Love dans une couche en forme de coin. Pour une pente très peu prononcée, le rang d'existence est essentiellement le même que pour une couche simple à plan parallèle. Lorsque la pente du coin augmente, le rang d'existence devient plus complexe. Il existe cependant d'importantes déviations de la forme des courbes de dispersion relativement aux courbes associées au modèle régulier, même pour de petits angles d'inclinaison. Ces déviations sont à leur maximum pour des ondes assez longues comparativement à l'épaisseur de la couche. Si la longueur d'onde décroît, les effets diminuent rapidement.

Dans l'éventail possible des gradients linéaires de la vitesse des ondes transversales dans la croûte terrestre, il n'y a pas de déviations essentielles par rapport au modèle régulier.

L'auteur donne les tables de dispersion pour un coin et une couche hétérogène; elles ont été dressées en se fondant sur des formules de dispersion déduites. Dans le premier cas, on a utilisé la méthode des approximations successives; la formule de dispersion pour la couche hétérogène est donnée dans sa forme fermée. L'auteur donne aussi les tables de dispersion des ondes de Love pour un modèle régulier.

Introduction

In studying the properties of the Earth's crust by means of surface wave dispersion the indirect methods are widely used. A set of theoretical dispersion curves related to convenient models is calculated; the dispersion curve, derived from observations, is compared with each curve of the set and the parameters of the theoretical model with the best fit to the observed curve are attributed to the actual structure. The most widely used theoretical models are multilayered homogeneous media with plane parallel boundaries. These models give very satisfactory results in most cases, but generally speaking the Earth's crust has neither parallel boundaries, nor is it homogeneous. Also, this indirect method does not give a single valued solution.

The aim of this paper is to give a quantitative estimate of the influence of the deviations in two directions from the model usually used: (1) the deviation produced in the dispersion curve of Love waves due to nonparallel layer boundaries, and (2) deviation produced by inhomogeneity of the layer. To facilitate comparison with commonly used models the tables of "nearly equivalent" models are given too. The meaning of the words "nearly equivalent" is as follows: (a) in the case of the wedge-shaped layer, the "nearly equivalent" layer is a homogeneous layer having a uniform thickness equal to the depth from the surface to the underlying semi-infinite layer in the locality of the observations; (b) in the case of inhomogeneous layers with a constant velocity gradient, the "nearly equivalent" layer is defined as the homogeneous layer having the velocity of shear waves equal to the average velocity of the layer. The other parameters of the media remain the same in both cases.

The tables may then be used, first to estimate the possible errors due to inhomogeneity or nonparallel boundaries when utilizing the usual model, secondly to determine the Earth's crustal structure in both cases and thirdly, as theoretical curves for the model with the homogeneous layer, lying on a semi-infinite medium. In order to make the theory as simple as possible, the calculations have been limited to the case of only one layer lying on a homogeneous semi-infinite layer, but there are no essential difficulties in extending the theory to more general cases. The two models studied in detail consist therefore of a wedge-shaped layer with wedge angle α different from zero, and in the second case a layer with uniform thickness and a constant velocity gradient.

The study has been limited to the analysis of the dispersive properties of these two models without dealing with amplitudes and other dynamic characteristics. Consequently, to derive the dispersion equations, wave methods have been abandoned and calculations restricted to the ray method. It has already been shown, for instance by Officer (1958), that the physical nature of surface waves is a constructive interference of rays successively reflected at the bottom and top of the layer. The dispersion equations of Love waves are derived exclusively from the constructive interference concept in all cases considered in this paper. This procedure has some advantages: first, the theory is relatively concise since we have not dealt simultaneously with the other properties of rays; second, the formulae for dispersion are given in a form convenient for numeric calculations by means of an automatic computer.

Theory of Love Waves Propagating in a Wedge

Let us consider the propagation of seismic SH-rays in a wedge (medium 1, Figure 1) forming with another medium (2) an inhomogeneous semi-infinite layer, as shown in Figure 1. Let elastic parameters of the wedge be μ_1, β_1, ρ_1 respectively the torsion modulus, the velocity of shear waves and the density of the layer and let the corresponding parameters of medium 2 be μ_2, β_2, ρ_2.

Let both sides of the wedge lying in the plane of incidence of ray p_1 incident at origin 0 with angle γ, form an angle γ (δ being complement to γ). It is easy to see that all seismic rays arising by successive reflections of the initial ray p_1 have common parts with the straight lines, which are tangents to a circular line K. The centre of this circular line is identical with the vertex of both sides of the wedge and has coordinates (X_1, O), where $X_1 = H \cot \alpha$, H being the depth of the boundary g at the origin O (Figure 1). The radius of the circular line K is $R = H \cot \alpha \cdot \sin \delta = X_1 \sin \delta$ and its equation is

$$(1) \qquad x^2 \cdot \tan^2 \alpha - 2xH \cdot \tan \alpha + y^2 \cdot \tan^2 \alpha + H^2 \cdot \cos^2 \delta = 0$$

The condition for a straight line passing through the point (x_i, y_i) to be a tangent to the circular line K is that its slope k_i is as follows:

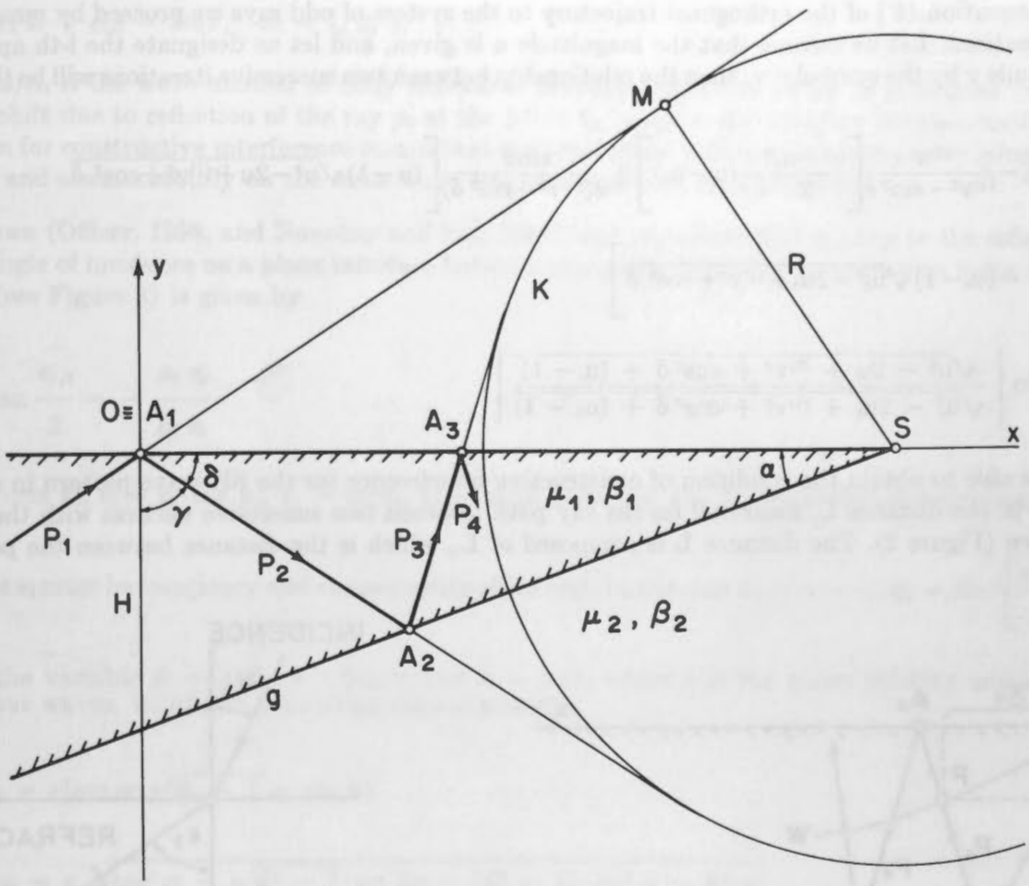

Figure 1. Notation for ray paths in a wedge-shaped layer.

$$(2) \qquad k_{i1,2}=\frac{y_i(x_i\cdot\tan\alpha-H)\cdot\tan\alpha\pm H\cdot\sin\delta\cdot\sqrt{Q}}{x_i^2\cdot\tan^2\alpha+H^2\cdot\sin^2\delta-2x^2H\cdot\tan\alpha}$$

where Q is the following expression

$$(3) \qquad Q=(x_i^2+y_i^2)\cdot\tan^2\alpha+H^2\cdot\cos^2\delta-2x_iH\cdot\tan\alpha$$

The positive sign in the expression (2) is associated with the upgoing rays and the minus sign with the downgoing ones (Figure 1). (The former is marked by odd indices.)

To use the condition of constructive interference for establishing the frequency equation of Love waves propagating in an edge, we must know the equations of orthogonal trajectories to the system of upgoing and downgoing rays. According to (2) the integral equation of the orthogonal trajectory passing through the point (x_o, y_o) is

$$(4) \qquad y=y_0-\int_{x_0}^{x}\frac{(x^2\cdot\tan^2\alpha+H^2\cdot\cos^2\delta-2Hx\cdot\tan\delta)dx}{y\cdot\tan\alpha\cdot(x\cdot\tan\alpha-H)+H\sin\delta\sqrt{(x^2+y^2)\cdot\tan^2\alpha+H^2\cos^2\delta-2Hx\cdot\tan\alpha}}$$

Introducing dimensionless coordinates u,v by means of substitution $u = (x.\tan\alpha)/H$, $= (y.\tan\alpha)/H$, equation (4) becomes

$$(4') \qquad v=v_0-\frac{v}{v^2-\sin^2\delta}\int_{u_0}^{u}(u-1)du+\frac{\sin\delta}{v^2-\sin^2\delta}\int_{u_0}^{u}\sqrt{u^2+v^2-2u+\cos^2\delta}\,du$$

To solve the equation (4′) of the orthogonal trajectory to the system of odd rays we proceed by means of successive approximations. Let us assume that the magnitude u is given, and let us designate the i-th approximation of the magnitude v by the symbol $^{(i)}v$; then the relationship between two successive iterations will be the following:

$$^{(i+1)}v = v_0 - \frac{^{(i)}v}{^{(i)}v^2 - \sin^2\delta}\left[\frac{u^2-u_0^2}{2} - (u-u_0)\right] + \frac{\sin\delta}{2(^{(i)}v^2-\sin^2\delta)}\left[(u-1)\sqrt{u^2-2u+{}^{(i)}v^2+\cos^2\delta}\right.$$

$$\left. -(u_0-1)\sqrt{u_0^2-2u_0+{}^{(i)}v^2+\cos^2\delta}\right]$$

$$+\frac{\sin\delta}{2}\ln\left|\frac{\sqrt{u^2-2u+{}^{(i)}v^2+\cos^2\delta}+(u-1)}{\sqrt{u_0^2-2u_0+{}^{(i)}v^2+\cos^2\delta}+(u_0-1)}\right|$$

In order to be able to obtain the condition of constructive interference for the SH-wave pattern in a wedge, the phase change in the distance L, measured on the ray path between two successive vertices with the wave front must be known (Figure 2). The distance L is composed of L_1, which is the distance between the points A_1 and

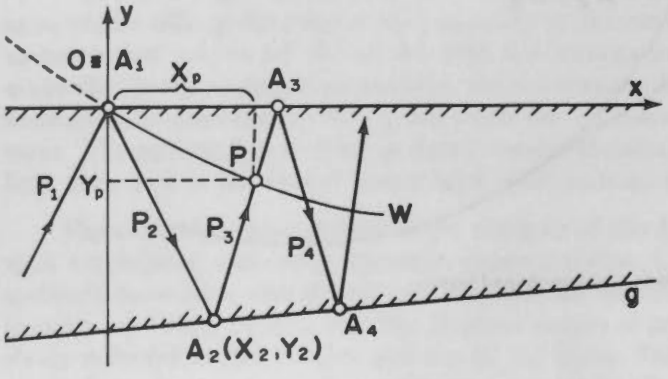

Figure 2. Notation for phase shift of rays in a wedge-shaped layer.

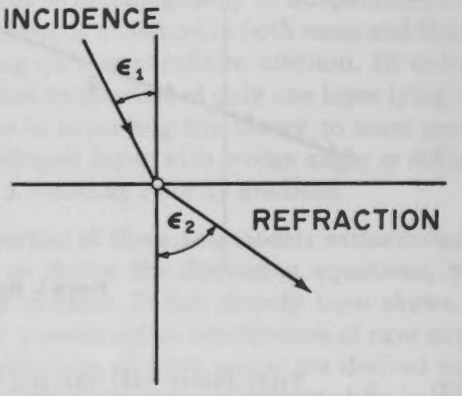

Figure 3. Notation for refraction at a plane interface.

A_2, and L_2 or the distance between the points A_2 and P (x_p, y_p) [or $P(u_p, v_p)$ in dimensionless coordinates]. The point $P(x_p, y_p)$ is the vertex of the orthogonal trajectory to the upgoing rays passing through the point A_1 (0,0) and of the ray p_3. The equation of the ray p_3 in dimensionless variables u,v, is as follows:

$$(5)\qquad v = u\cdot\tan(\delta+2\alpha) - \frac{\tan\alpha}{\tan\alpha+\tan\delta}\left[\tan(\delta+2\alpha)+\tan\delta\right]$$

The formula for distance L is very simple

$$(6)\qquad L = \frac{H}{(\tan\alpha+\tan\delta)\cos\delta} \pm \sqrt{(y_2-y_p)^2+(x_2-x_p)^2}$$

where x_2, y_2 are coordinates of the point A_2 given by expressions

$$x_2 = \frac{H}{\tan\alpha+\tan\delta}, \qquad y_2 = -\frac{H\cdot\tan\delta}{\tan\alpha+\tan\delta}$$

The plus sign in the formula (6) is taken when $|x_p| \geqslant |x_2|$ and the minus sign in the opposite case. The coordinates x_p, y_p of the vertex P are solutions of equations (5) and (4). Now the condition of constructive interference can be written in the form

$$\kappa_1 L + \epsilon_{1,2} = 2m\pi, \quad m = 1, 2, 3, \ldots . \tag{7}$$

where $\kappa_1 = \omega/\beta_1$ is the wave number of body SH-waves propagating in the wedge (ω is circular frequency, $\epsilon_{1,2}$ is the phase shift due to reflection of the ray p_2 at the point A_2 lying on the interface between medium 1 and 2. The condition for constructive interference means that the total phase shift between two points lying on the same reflected ray and simultaneously on the same wave front is equal to a multiple of 2π.

It is known (Officer, 1958, and Novotny and Pěč, 1964) that the phase shift $\epsilon_{2,1}$ due to the reflection of SH-waves with angle of incidence on a plane interface between two media described by refraction index $n = \beta_2/\beta_2 = \sin \epsilon_1/\sin \epsilon_2$ (see Figure 3) is given by

$$\tan \frac{\epsilon_{1,2}}{2} = -\frac{\mu_2 s'_2}{\mu_1 s_1} \tag{8}$$

where $s_1 = \kappa_1 \cdot \cos \varepsilon_1$, $s_2 = \kappa_2 \cdot \cos \varepsilon_2$, $\kappa_1 = \omega/\beta_1$, $\kappa_2 = \omega/\beta_2$ and $s'_2 = i\, s_2$. In conditions of undamped propagation of Love waves s_2 must be imaginary and consequently s'_2 be real. In our case $\varepsilon_1 = \gamma - \alpha$, $\varepsilon_2 = \sin^{-1}\left[\frac{\sin(\gamma - \alpha)}{n}\right]$

Introducing the variable $\psi = c/\beta_1 = 1/\sin \gamma$ and $\kappa = \omega/c$, where c is the phase velocity and κ is the wave number of Love waves, we obtain after some rearrangements,

$$s_1 = \kappa[\cos \alpha \cdot \sqrt{\psi^2 - 1} + \sin \alpha] \tag{9}$$

$$s'_2 = \kappa \sqrt{\cos^2 \alpha - \sqrt{\psi^2 - 1} \cdot \sin 2\alpha + (\psi^2 - 1) \cdot \sin^2 \alpha - \psi^2 \cdot n^2} \tag{10}$$

where $n = \beta_1/\beta_2$.

The condition of constructive interference (7) leads to the equation for dispersion of Love wave propagating in the wedge

$$\kappa H = \frac{2}{l_0 \cdot \psi}\left\{\tan^{-1}\left[\frac{1}{n^2 \rho} \frac{\sqrt{\cos^2 \alpha - \sqrt{\psi^2 - 1} \cdot \sin 2\alpha + (\psi^2 - 1) \cdot \sin^2 \alpha - \psi^2 \cdot n^2}}{\sqrt{\psi^2 - 1} \cdot \cos \alpha + \sin \alpha}\right] + k\pi\right\} \tag{11}$$

$k = 0, 1, 2, 3, \ldots . .$

$\rho = \rho_1/\rho_2$ ratio of densities

$$l_0 = (L_1 \pm L_2)/H. \tag{12}$$

By introducing the variable ψ we get from (6) the expressions for L_1 and L_2 in terms of ψ

$$L_1/H = \psi/(\tan \alpha + \sqrt{\psi^2 - 1}) \tag{13}$$

$$L_2/H = \sqrt{[x_2/H - u_p/\tan \alpha]^2 + [x_2 \sqrt{\psi^2 - 1}/H + v_p/\tan \alpha]^2} \tag{14}$$

$$x_2/H = 1/(\tan \alpha + \sqrt{\psi^2 - 1}) \tag{15}$$

The plus sign is taken in expression (12) if $|\, u_p / \tan \alpha \,| \geqslant x_2 / H$, otherwise the sign is negative. The magnitudes u_p and v_p are solutions of the set of two equations—the equation (4′) (for $u_o = 0$, $v_o = 0$) and the equation (5). After introducing the variable ψ these equations can be written in the following way taking equation (4) rather than (4′) since the method of successive approximations is used for solution).

$$(16)\qquad v = u\cdot\tan(\delta + 2\alpha) - \frac{\tan\alpha}{\tan\alpha + \sqrt{\psi^2 - 1}}\left[\tan(\delta + 2\alpha) + \sqrt{\psi^2 - 1}\right]$$

$$(17)\qquad {}^{(i+1)}v = -\frac{{}^{(i)}v\cdot u\cdot\psi^2}{{}^{(i)}v^2\cdot\psi^2 - (\psi^2 - 1)}\left(\frac{u}{2} - 1\right)$$
$$+ \frac{\sqrt{\psi^2 - 1}}{2[{}^{(i)}v^2\psi^2 - (\psi^2 - 1)]}\left[(u - 1)\sqrt{1 + \psi^2(u^2 - 2u + {}^{(i)}v^2)} + \sqrt{1 + {}^{(i)}v^2\psi^2}\right]$$
$$+ \frac{\sqrt{\psi^2 - 1}}{2\psi}\ln\frac{\sqrt{1 + \psi^2(u^2 - 2u + {}^{(i)}v^2)} + \psi(u - 1)}{\sqrt{1 + \psi^2\cdot{}^{(i)}v^2} - \psi}$$

where

$$(18)\qquad \tan(\delta + 2\alpha) = \frac{\sqrt{\psi^2 - 1}\cdot\cos 2\alpha + \sin 2\alpha}{\cos 2\alpha - \sqrt{\psi^2 - 1}\cdot\sin 2\alpha}$$

From (11) the fundamental mode is obtained for $k = 0$, the first higher mode for $k = 1$ and so on. After some reduction for the limit $\alpha \to 0$ the equation (11) is obtained in the following form:

$$(19)\qquad \kappa H = \frac{1}{\sqrt{\psi^2 - 1}}\left\{\tan^{-1}\left[\frac{1}{n^2\rho}\frac{\sqrt{1 - \psi^2 n^2}}{\sqrt{\psi^2 - 1}}\right] + k\pi\right\}$$

which is exactly the equation for dispersion of Love waves in a homogeneous layer with uniform depth. (After carrying out the limit $\alpha \to 0$, the equation of the ray p_3 will be transformed into $y = x\cdot\tan\delta - 2H$; similarly the equation of the orthogonal trajectory to odd rays and passing through the origin into $y = -x\cdot\cot\delta$, and the vertex of p_3 and the orthogonal trajectory has, in the limit for $\alpha = 0$, coordinates $[2H\cdot\tan\delta/(1+\tan^2\delta), -2H/(1 + \tan^2\delta)]$ and the magnitude l_o acquires the simple form $l_o = 2.\sin\delta$).

Method of Calculation

To determine the dispersion tables for Love waves propagating in a wedge, equations (11) to (17) have been used. The vertex of the ray p_3 and the wave front have been found by means of solution of the set of equations (16), (17). For solving them the successive approximations were used. In order to find the zero approximation, the real wave front has been replaced by a circular curve K* having its centre at the point M (Figure 1) where the prolonged ray p_1 touches the circular line K, and radius equal to the distance between the points M and O, the origin of the coordinate system. The equations of the ray p_1 and the circular line K in terms of dimensionless coordinates u, v are the following:

$$v = u\cdot\tan\delta, \qquad (u - 1)^2 + v^2 = \sin^2\delta.$$

The coordinates of the tangent point M are $u_M = \cos^2\delta$, $v_M = \sin\delta\cdot\cos\delta$ and the radius of K*, $r_M = \cos\delta$. Then the approximate equation of the wave front is

$$u^2 - 2u\cos^2\delta + v^2 - v\cdot\sin 2\delta = 0.$$

The solution of the above equation and of that for the ray p_3 leads to the zero approximation u_{po}, v_{po} values of u_p, v_p.

$$(20)\qquad u_{po} = \cos^2(\delta + 2\alpha)\left[\cos^2\delta + \tan(\delta + 2\alpha)(C + \sin\delta\cdot\cos\delta)\right] - \cos(\delta + 2\alpha)\sqrt{P}.$$
$$v_{po} = u_{po}\cdot\tan(\delta + 2\alpha) - C$$

where $P = \cos^2\delta\cdot\cos^2 2\alpha - C^2\cdot\cos^2(\delta + 2\alpha) + 2C\cos\delta\cdot\cos(\delta + 2\alpha)\sin 2\alpha$.

$$C = \frac{\tan\alpha}{\tan\alpha + \tan\delta}\left[\tan(\delta + 2\alpha) + \tan\delta\right].$$

The expression $\tan(\delta + 2\alpha)$ in terms of ψ is given by (18) and

$$\cos(\delta + 2\alpha) = \frac{1}{\psi}\left[\cos 2\alpha - \sqrt{\psi^2 - 1}\cdot\sin 2\alpha\right]$$

Proceeding further in the solution of the set of given equations, two different systems of successive approximations were used. The first of them, the α system, served to establish with prescribed accuracy the value of v, satisfying the equation (4′, 4) if the value u is given and remains constant during the α iteration. In other words, by means of the α iteration system the v coordinate of the point lying on the orthogonal trajectory to odd rays is obtained for the given u coordinate. The β iteration system serves for the proper solution of the equations (4) and (5). Thus, starting with the approximate values u_{po}, v_{po} we find by means of the α iteration system the coordinate v^I_{po} corresponding to the value u_{po}, so that the point (u^I_{po}, v^I_{po}) lies on the wave front W (Figure 4). Further, by adding to the value u_{po} a small increment Δu, again, by means of the α iteration system, the increment in the value of v^I_{po}. is found. Now, knowing both increments Δu and Δv and the coordinates u_{po}, v_{po} a tangent t_1, to the wave front W at the point (u_{po}, v^I_{po}) is constructed. After finding the vertex point of the tangent t_1 and the ray p_3, the first approximation u_{p1}, v_{p1} is obtained. This point generally does not lie on the wave front W. Keeping the value u_{p1} constant, by means of the α iteration system, the point u_{p1}, v^I_{p1}, lying now on the curve W, is found. Constructing a tangent t_2 in this point, the next better β approximation u_{p2}, v_{p2} is found and this process is continued until the prescribed accuracy is reached. Thus the β iteration system is nothing else but a modification of Newton's method.

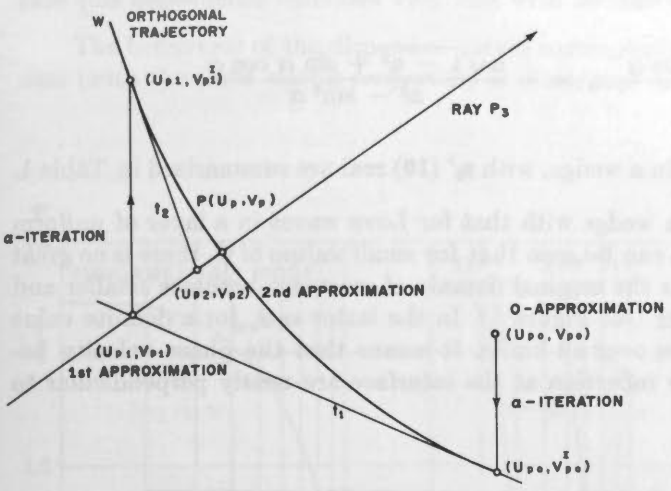

Figure 4. Scheme of the iteration processing.

TABLE 1. DOMAIN OF EXISTENCE OF LOVE WAVES PROPAGATING IN A WEDGE

Conditions	Range of Admitted $\psi = c/\beta_1$
A. $\alpha > 0$	
I. $\sin\alpha < n$	
a) $n \in (n_2, n_1)$	
α) $\cos\alpha > n$	$1 \leqslant \psi \leqslant \sqrt{1 + x_1^2}$
β) $\cos\alpha < n$	$\psi \geqslant \sqrt{1 + x_1^2}$
b) n non $\in (n_2, n_1)$	
α) $\cos\alpha > n$	$\psi \geqslant 1$
β) $\cos\alpha < n$	no Love waves exist
II. $\sin\alpha > n$	
a) $n \in (n_2, n_1)$	$1 \leqslant \psi \leqslant \sqrt{1 + x_2^2}$
α) $\cos\alpha > n$	
β) $\cos\alpha > n$	$\psi \geqslant \sqrt{1 + x_2^2}$
b) n non $\in (n_2, n_1)$	
α) $\cos\alpha > n$	$1 \leqslant \psi \leqslant \sqrt{1 + x_1^2}, \psi \geqslant \sqrt{1 + x_2^2}$
β) $\cos\alpha > n$	$\sqrt{1 + x_1^2} \leqslant \psi \leqslant \sqrt{1 + x_2^2}$
B. $\alpha > 0$	
I. $\sin^2\alpha < n^2$	
a) $n \in (n_2, n_1)$	
α) $\cos\alpha > n$	$\sqrt{1 + \tan^2\alpha} < \psi \leqslant \sqrt{1 + x_1^2}$
β) $\cos\alpha < n$	$\psi \geqslant \sqrt{1 + x^2}$
b) n non $\in (n_2, n_1)$	
α) $\cos\alpha > n$	$\sqrt{1 + \tan^2\alpha} < \psi \leqslant \sqrt{1 + x_2^2}, \psi \geqslant \sqrt{1 + x_1^2}$
β) $\cos\alpha < n$	$\text{Max}\,(\sqrt{1 + x_2^2}, \sqrt{1 + \tan^2\alpha}) \geqslant \psi \geqslant \sqrt{1 + x_1^2}$
II. $\sin^2\alpha > n^2$	
a) $n \in (n_2, n_1)$	
α) $\cos\alpha > n$	$\sqrt{1 + \tan^2\alpha} < \psi \leqslant \sqrt{1 + x_2^2}, \psi \leqslant \sqrt{1 + x_1^2}$
β) $\cos\alpha < n$	$\text{Max}\,(\sqrt{1 + x_2^2}, \sqrt{1 + \tan^2\alpha}) < \psi \leqslant \sqrt{1 + x_1^2}$
b) n non $\in (n_2, n_1)$	
α) $\cos\alpha > n$	$\psi > \sqrt{1 + \tan^2\alpha}$
β) $\cos\alpha < n$	no Love waves exist

For undamped Love waves to exist in a wedge, it is necessary that the expressions occurring in (11) be real. For $\sqrt{\psi^2 - 1}$ to be real, the condition is the same as in the case of Love waves propagating in a layer with uniform depth, i.e. $\psi \geqslant 1$ i.e. $c \geqslant \beta_1$. Let us introduce the following symbols:

$$n_1 = \cos\alpha,\ n_2 = |\sin\alpha|,\ x_1 = \frac{n\sqrt{1 - n^2} - \sin\alpha\cdot\cos\alpha}{n^2 - \sin^2\alpha},\ x_2 = -\frac{n\sqrt{1 - n^2} + \sin\alpha\cos\alpha}{n^2 - \sin^2\alpha}$$

Then the domain of existence of Love waves propagating in a wedge, with s_2' (10) real are summarized in Table 1.

Comparing the range of existence of Love waves in a wedge with that for Love waves in a layer of uniform depth, which is given by the inequality $1 \leqslant \psi \leqslant 1/n$, it can be seen that for small values of ψ, there is no great difference between the two cases. With increasing angle α the original domain of existence becomes smaller and for greater values of α, the picture becomes more complex (see Figure 5). In the latter case, for a definite value of n, there exists a range where the admissible ψ increases over all limits. It means that the phase velocity becomes infinite. This is possible if the incident rays, after reflection at the interface are nearly perpendicular to

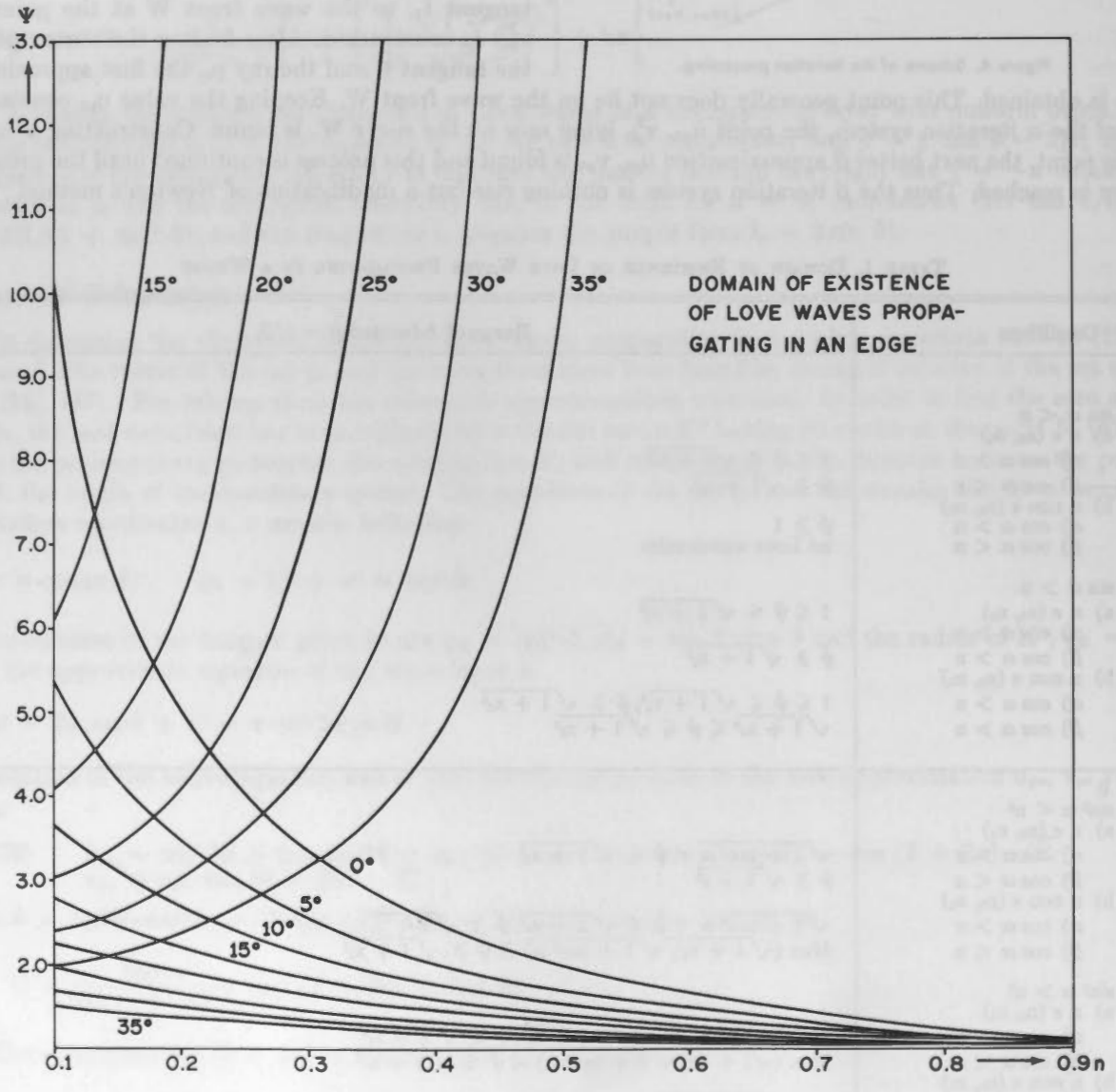

Figure 5. Domain of existence of Love waves for $\alpha > 0$. The lower system of curves is described by equation $\psi = \sqrt{1 + x_1^2}$, the upper one by equation $\psi = \sqrt{1 + x_2^2}$ (see Table 1).

the surface. Of course, an essential difference exists between the Love waves propagating in a uniform layer and in a wedge. In the former case the dispersion does not depend on the location of the observer, but in the latter case this dependence increases very fast with increasing angles α.

The behaviour of the dispersion curves corresponding to a wedge of 5° angle and to a layer of uniform thickness (with the same elastic properties) is illustrated in the Figure 6. The angle of 5° is realistic for the Earth's

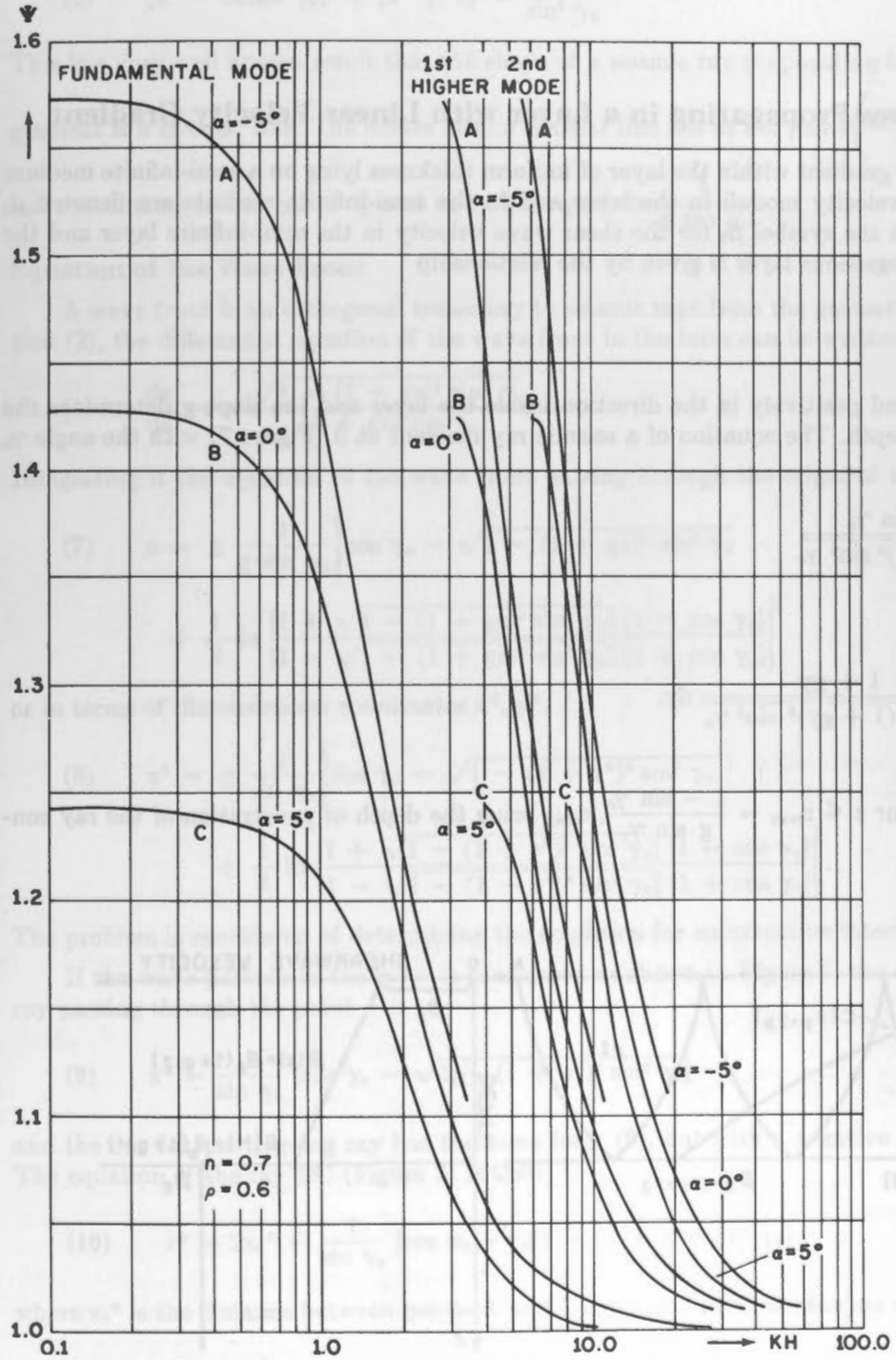

Figure 6.
Love wave dispersion in a wedge $\alpha = \pm 5°$, and in the corresponding single layer with parallel boundaries. Other parameters are $n = \beta_1/\beta_2 = 0.7$; $\rho = \rho_1/\rho_2 = 0.6$.

crust since local inclinations of up to about 10° in Moho discontinuity have been observed. From Figure 6 it is easy to see that the dispersion curve for the wedge is shifted as a whole in the direction of smaller κH and that the greater differences produced by the slope of the wedge are to be found in the range of larger values of ψ. The greatest differences between both curves occur in the short-period branches.

It is clear that if the dispersion for a model with plane parallel boundaries is used, and any slope neglected, an error of about 10 per cent may occur. For increasing values of κH the difference between the considered curves becomes continuously smaller. In the case of the higher mode dispersion branches, there is a small constant shift between the corresponding curves. The direction of this shift is the same as in the case of the fundamental mode.

Dispersion of Love Waves Propagating in a Layer with Linear Velocity Gradient

The influence of any velocity gradient within the layer of uniform thickness lying on a semi-infinite medium was next considered. The shear velocity moduli in the layer and in the semi-infinite medium are denoted μ_1 and μ_2 respectively. We introduce the symbol β_2 for the shear wave velocity in the semi-infinite layer and the shear wave velocity in the inhomogeneous layer is given by the relationship

$$(1) \qquad \beta(z) = \beta_0 (1 + g \cdot z)$$

where z is the coordinate measured positively in the direction inside the layer and the slope g determines the change of the velocity with the depth. The equation of a seismic ray incident at 0 (Figure 7) with the angle γ_0 is

$$(2) \qquad \frac{dx}{dz} = \frac{(1 + gz) \sin \gamma_0}{\sqrt{1 - (1 + gy)^2 \sin^2 \gamma_0}}$$

or in an integral form.

$$(2') \qquad x = \sin \gamma_0 \int_0^z \frac{1 + gy}{\sqrt{1 - (1 + gy)^2 \cdot \sin^2 \gamma_0}} \, dy.$$

Formulae (2) and (2') are valid for $z \leqslant z_{max} = \frac{1 - \sin \gamma_0}{g \cdot \sin \gamma_0}$, z_{max} being the depth of penetration of the ray considered.

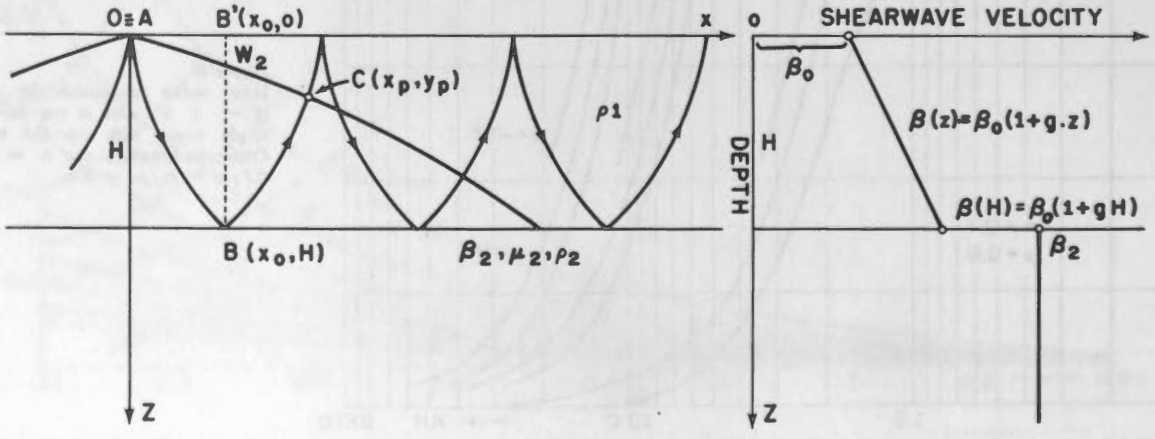

Figure 7. Wave pattern for the case of $\psi > 1 + H^*$.

After carrying out the integration in the formula (2′) we obtain the equation of seismic ray in the following form.

$$(3)\qquad \left[x - \frac{\operatorname{cotan}\gamma_o}{g}\right]^2 + \left[z + \frac{1}{g}\right]^2 = \frac{1}{g^2 \sin^2\gamma_o}$$

or in terms of dimensionless coordinates

$$(4)\qquad x^* = x\cdot g, \qquad y^* = y\cdot g.$$

$$(5)\qquad [x^* - \operatorname{cotan}\gamma_o]^2 + [z^* + 1]^2 = \frac{1}{\sin^2\gamma_o}$$

This is a very well known result that the shape of a seismic ray propagating in a medium with constant velocity gradient is a circular line. The centre of this circular line lies at the point $\left(\frac{\operatorname{cotan}\gamma_o}{g}, -\frac{1}{g}\right)$ or in the dimensionless coordinates $(\operatorname{cotan}\gamma_o, -1)$ and its radius equals to $\frac{1}{g\cdot\sin\gamma_o}$.

Equation of the Wave Front

A wave front is an orthogonal trajectory to seismic rays from the geometrical point of view. Utilizing equation (2), the differential equation of the wave front in the form can be written as follows:

$$(6)\qquad \frac{dx}{dz} = -\frac{\sqrt{1 - (1+gz)^2\sin^2\gamma_o}}{(1+gz)\sin\gamma_o}.$$

Integrating it the equation of the wave front passing through the origin of the coordinate system is obtained.

$$(7)\qquad x = \pm\frac{1}{g\cdot\sin\gamma_o}\left\{\cos\gamma_o - \sqrt{1-(1+gz)^2\cdot\sin^2\gamma_o} + \frac{1}{2}\ln\frac{[1+\sqrt{1-(1+gz)^2\sin^2\gamma_o}]\,[1-\cos\gamma_o]}{[1-\sqrt{1-(1+gz)^2\sin^2\gamma_o}]\,[1+\cos\gamma_o]}\right\}$$

or in terms of dimensionless coordinates x^*, y^*.

$$(8)\qquad x^* = \pm\frac{1}{\sin\gamma_o}\left\{\cos\gamma_o - \sqrt{1-(1+z^*)^2\sin^2\gamma_o} + \frac{1}{2}\ln\frac{[1+\sqrt{1-(1+z^*)^2\sin^2\gamma_o}]\,[1-\cos\gamma_o]}{(1-\sqrt{1-(1+z^*)^2\sin^2\gamma_o}]\,[1+\cos\gamma_o]}\right\}.$$

The problem is considered of determining the condition for constructive interference in the layer.

If the wave pattern in the layer is considered as shown in Figure 7, the equation of the downgoing seismic ray passing through the point A is

$$(9)\qquad x^* = \frac{1}{\sin\gamma_o}[\cos\gamma_o - \sqrt{1-(1+z^*)^2\sin^2\gamma_o}]$$

and the one for the upgoing ray has the same form (9), but with a negative sign on the right hand side of (9). The equation of the ray BC (Figure 7) is then

$$(10)\qquad x^* = 2x_o^* - \frac{1}{\sin\gamma_o}[\cos\gamma_o - \sqrt{1-(1+z^*)^2\sin^2\gamma_o}]$$

where x_o^* is the distance between points A and C expressed in dimensionless corrodinates; x_o^* is given by

$$(11)\qquad x_o^* = \frac{1}{\sin\gamma_o}[\cos\gamma_o - \sqrt{1-(1+gH)^2\cdot\sin^2\gamma_o}].$$

The equation of the wave front f is given by (8) taken with the negative sign. Solving this equation and equation (10), utilizing the expression (11), after some re-arrangement, the following expression for the dimensionless coordinate x_o^* of the vertex point is obtained

$$(12) \qquad z_p^* = \frac{2\sqrt{\tau \cdot r}}{(1 + \tau \cdot r) \cdot \sin \gamma_o} - 1$$

where

$$(13) \qquad \tau = \exp(-4x_o^* \sin \gamma_o), \qquad r = \frac{1 + \cos \gamma_o}{1 - \cos \gamma_o}.$$

It can easily be shown that for the angle γ_H, which is the angle of incidence of the ray reflected at the point B in the depth H (the ray is assumed to have the angle of incidence γ_o at the surface), then

$$(14) \qquad \gamma_H = \tan^{-1} \frac{(1 + H^*) \sin \gamma_o}{\sqrt{1 - (1 + H^*)^2 \cdot \sin^2 \gamma_o}}$$

where $H^* = gH$. (The asterisk is always used to denote the dimensionless quantity in the following text; for instance $\alpha^* = \alpha \cdot g$.)

If the symbol $\kappa_1(z) = \omega/\beta_1(z)$ is used to denote the wave number of the SH-body wave, then the phase changes along the path ds will be

$$(15) \qquad d\Phi = \kappa_1 \, ds = \frac{\omega}{\beta_o} \frac{\sqrt{1 + (dx/dz)^2}}{(1 + g \cdot z)} \, dz.$$

Consequently the total phase shift between two points lying on the same ray and having depths 0 and z will be expressed by the following relation

$$(16) \qquad \Phi_{oz} = \kappa_o \int_o^z \frac{\sqrt{1 + (dx/dz)^2}}{(1 + gz)} \, dz$$

or

$$(17) \qquad \Phi^*_{oz} = \kappa_o \ln \left| \frac{1 - \sqrt{1 - (1 + 2^*)^2 \cdot \sin^2 \gamma_o}}{(1 + 2^*)(1 - \cos \gamma_o)} \right| = \kappa_o \ln \left| \frac{(1 + z^*)(1 + \cos \gamma_o)}{1 + \sqrt{1 - (1 + z^*)^2 \cdot \sin^2 \gamma_o}} \right|$$

where $\kappa_o = \omega/\beta_o$. We obtain the phase change along the path AB (Figure 7) by substituting H^* for z^* in the formula (17) and similarly the phase change along the path BC will be

$$(18) \qquad \Phi^*_{BC} = \kappa_o \ln \left| \frac{[1 - \sqrt{1 - (1 + H^*)^2 \sin^2 \gamma_o}]\,[1 + z_p^*]}{[1 - \sqrt{1 - (1 + z_p^*)^2 \sin^2 \gamma_o}]\,[1 + H^*]} \right|$$

The total phase change along the path ABC is then expressed by the following formula

$$(19) \qquad \Phi^*_{ABC} = \kappa_o \left\{ 2 \ln \left| \frac{1 - \sqrt{1 - (1 + H^*)^2 \sin^2 \gamma_o}}{1 + H^*} \right| - \ln \left| \frac{1 - \sqrt{1 - (1 + z_p^*)^2 \sin^2 \gamma_o}}{(1 + z_p^*)} \right| - \ln (1 - \cos \gamma_o) \right\}.$$

Condition of constructive interference: The condition of constructive interference is used to design the dispersion equation in a similar way to the preceding work. The ray AB incident on the interface between the inhomogeneous and the semi-infinite layer is subjected to the phase shift due to the reflection at the point B. The magnitude of this phase shift depends on the incidence angle, on the refraction index and on the ratio of both densities by the following relation

$$(20) \qquad \tan \frac{\epsilon}{2} = - \frac{\mu_2 \, s_2'}{\mu_1(H) \, s_1(H)}.$$

This relation is the same as the relation (8) in the previous part of this paper and the physical meaning of the individual symbols occurring in (20) is the same too. The only difference is that the shear modulus μ_1 and the magnitude s_1 which depend generally on the depth, are related in the formula (20) to the bottom of the inhomogeneous layer. In the present formula

$$(21) \qquad s_1(H) = \kappa\sqrt{\frac{c^2}{\beta^2(H)} - 1}, \qquad s_2' = \kappa\sqrt{1 - \frac{c^2}{\beta_2}}$$

where $\kappa = \omega/c$ is wave number of the Love waves, c being the phase velocity.

The condition of constructive interference can be written in the form

$$(22) \qquad \Phi_{ABC} + \epsilon = 2m\pi, \qquad m = 1, 2, 3, \ldots$$

This condition leads to the dispersion equation by utilizing the relations (19), (20) and by introducing the variable ψ by means of relation

$$(23) \qquad \psi = c/\beta_o = 1/\sin\gamma_o$$

The dispersion equation can be written in the following form

$$(24) \qquad \kappa H = \frac{2H^*}{\psi} \frac{\tan^{-1}\left\{\eta \dfrac{\sqrt{1 - \psi^2\left(\dfrac{\beta_o}{\beta_2}\right)^2}}{\sqrt{\psi^2\left(\dfrac{\beta_o}{\beta_H}\right)^2 - 1}}\right\} + m\pi}{\ln\left|\dfrac{\dfrac{\beta_p}{\beta_o}\left[\psi - \sqrt{\psi^2 - \left(\dfrac{\beta_H}{\beta_o}\right)^2}\right]^2}{\dfrac{\beta_H}{\beta_o}\left[\psi - \sqrt{\psi^2 - \left(\dfrac{\beta_p}{\beta_o}\right)^2}\right]\left[\psi - \sqrt{\psi^2 - 1}\right]}\right|}$$

where $\kappa = \omega/c$ is the wave number of Love waves, ψ is given by (23), $\kappa_o = \omega/\beta_o = \kappa\psi$ the wave number of the body SH-wave propagating with velocity β_o, $\mu = \mu_2/\mu_H = 1/[n_o^2\,\rho(1 + H^*)^2]$, $n_o = \beta_o/\beta_2$ is the reflection index and $\rho = \rho(H)/\rho_2$ is the ratio of densities related to the bottom of the layer and to the semi-infinite layer,

$$\beta_H = \beta_o\,(1 + H^*), \quad \beta_p = \beta_o\,(1 + z_p^*) = \frac{2\sqrt{\tau\cdot r}}{1 + \tau r} \qquad r = \frac{\psi + \sqrt{\psi^2 - 1}}{\psi - \sqrt{\psi^2 - 1}}, \qquad \tau = \exp\left\{-4x_o^*/\psi\right\}$$

$$x_o^* = \sqrt{\psi^2 - 1} - \sqrt{\psi^2 - (1 + H^*)^2}.$$

For (24) real, it is necessary that

$$(25) \qquad \frac{\beta_H}{\beta_o} = 1 + H^* \leqslant \psi \leqslant \frac{1}{n_o} = \frac{\beta_2}{\beta_o}.$$

The inequality (25) defines the range of existence of Love waves in an inhomogeneous layer.

Until now the relationship between the number defining the velocity gradient and the depth H has been tacitly assumed to have such properties that successive reflections at the top and at the bottom of the layer exist for given angle γ_o. However, if the depth of the layer is greater than the depth of penetration z_{max} of the

ray, then the ray reflecting at the surface does not reach the bottom of the layer, and it is therefore only subjected to the reflections on the top of the layer and to the continuous refractions within the layer. The transition from the wave pattern shown in Figure 7 to that in Figure 8 is realized by the value of the variable $\psi = 1 + H^*$ The limiting case for $\psi = 1 + H^*$ is shown in Figure 9. For the case when ψ lies in the interval $(1, 1 + H^*)$

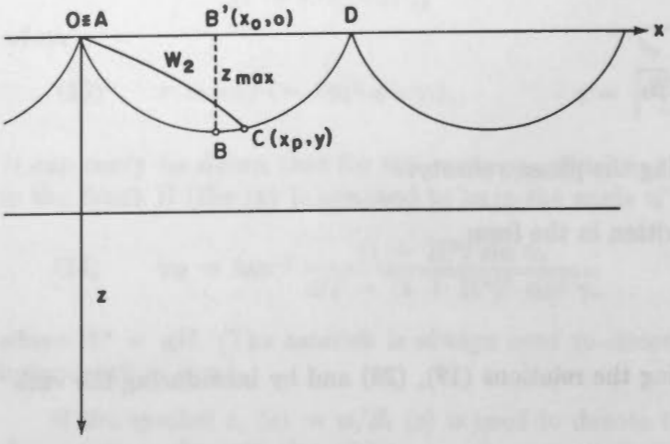

Figure 8. Wave pattern for the case of $\psi < 1 + H^*$.

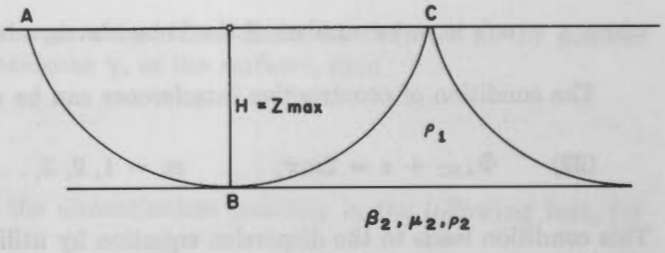

Figure 9. Wave pattern for the case of $\psi = 1 + H^*$.

the wave pattern is illustrated in Figure 8. The condition for constructive interference valid for this case is deduced in the same manner as previously. According to (5) the equation of the seismic ray ABD (Figure 8) is given by the formula

$$(26) \qquad x^* = \frac{1}{\sin \gamma_o} \left[\cos \gamma_o \pm \sqrt{1 - (1 + z^*)^2 \sin^2 \gamma_o}\right]$$

where the minus sign is connected with the downward going part AB of the seismic ray and the plus sign with the upgoing part BD. The depth of penetration $z^*_{max} = \psi - 1$ is less than H^* in our present case. The wave fronts f_1, f_2, passing through the point A (f_1 is related to the downgoing parts of rays and f_2 to the downgoing ones) have the equations

$$(27) \qquad x^* = \frac{1}{\sin \gamma_o} \left\{ \cos \gamma_o \mp \sqrt{1 - (1 + z^*)^2 \sin^2 \gamma_o} + \frac{1}{2} \ln \left| \frac{[1 \pm \sqrt{1 - (1 + z^*)^2 \cdot \sin^2 \gamma_o}]\,[1 \mp \cos \gamma_o}{[1 \mp \sqrt{1 - (1 + z^*)^2 \cdot \sin^2 \gamma_o}]\,[1 \pm \cos \gamma_o]} \right| \right\} \begin{matrix} +0 \\ -2\dfrac{\cos \gamma_o}{\sin \gamma_o} \end{matrix}$$

Solving equation (27) (taken with the lower signs) and equation (26) (also with the lower sign), the vertex of the wave front f_2 is obtained with the upgoing part BD of the ray (the wave front f_2 meets the down part only at the point A). The coordinates of this vertex are given by

$$(28) \qquad z_p = \frac{2\sqrt{\tau \cdot r}}{(1 + \tau r) \cdot \sin \gamma_o} - 1, \qquad x_p = \frac{1}{\sin \gamma_o} \left[\cos \gamma_o + \frac{|1 - \tau r|}{1 + \tau r}\right]$$

where

$$\tau = \exp \left\{ - 4 x_o^* \sin \gamma_o, \right\} \qquad x_o^* = \operatorname{cotan} \gamma_o, \qquad r = \frac{1 + \cos \gamma_o}{1 - \cos \gamma_o}.$$

The phase change of the ray along the path AB is

$$\Phi^*_{AB} = \kappa_o \ln \frac{\sin \gamma_o}{1 - \cos \gamma_o}$$

Similarly the phase change along the path measured from the point B to the vertex C can be deduced in the form

$$\Phi^*_{BC} = \kappa_0 \ln \left| \frac{(1 + z_p^*) \sin \gamma_0}{1 - \sqrt{1 - (1 + z_p^*)^2 \sin^2 \gamma_0}} \right|.$$

Consequently the total phase change between two points lying on the same seismic ray and lying on the wavefront simultaneously (Figure 8) is given by the following expression

$$(29) \qquad \Phi^*_{ABC} = \kappa_0 \left\{ 2 \ln \sin \gamma_0 - \ln \frac{1 - \sqrt{1 - (1 + z_p^*)^2 \cdot \sin^2 \gamma_0}}{(1 + z_p^*)\,(1 - \cos \gamma_0)} \right\}$$

The condition for constructive interference has a very simple form in this case

$$(30) \qquad \Phi_{ABC} = 2m\pi, \qquad m = 1, 2, 3, \ldots.$$

The dispersion equation in the final form follows from (30) by the use of (29) and by introducing the variable ψ with the same meaning as in the foregoing section.

$$(31) \qquad \kappa H = \frac{2H^*}{\psi} \frac{m\pi}{\ln X}$$

[The magnitude H was artificially introduced in the above formula in order to make it conform with (24).] The meaning of the symbols in (31) is as follows:

$$(32) \qquad X = \frac{S}{[\psi - \sqrt{\psi^2 - 1}]\,[1 - \sqrt{1 - S^2}]}$$

$$S = \frac{\exp\left\{ -\frac{2}{\psi} \sqrt{\psi^2 - 1} \right\}}{[\psi - \sqrt{\psi^2 - 1}] + [\psi + \sqrt{\psi^2 - 1}] \exp\left\{ -\frac{4}{\psi} \sqrt{\psi^2 - 1} \right\}}.$$

The formula (31) is valid in the interval $1 \leqslant \psi \leqslant 1 + H^*$.

The dispersion curves for both a small and large velocity gradient and for equivalent homogeneous layers are shown in Figure 10. The curves A correspond to the small velocity gradient of $g \cdot H = 0.02$, i.e. the velocity at the bottom of the layer about 2 per cent greater than the velocity at the top of the layer. This velocity gradient is smaller than the one thought to be present in the earth's crust. It is easy to see from Figure 10 that there is no appreciable difference between the curves corresponding to the inhomogeneous layer, and to the homogeneous layer with average velocity. In order to be able to estimate the influence of a possible strong inhomogeneity, dispersion curves corresponding to a velocity increment of about 30 per cent are also shown. In the latter case the two dispersion curves are more complex and differ considerably from each other.

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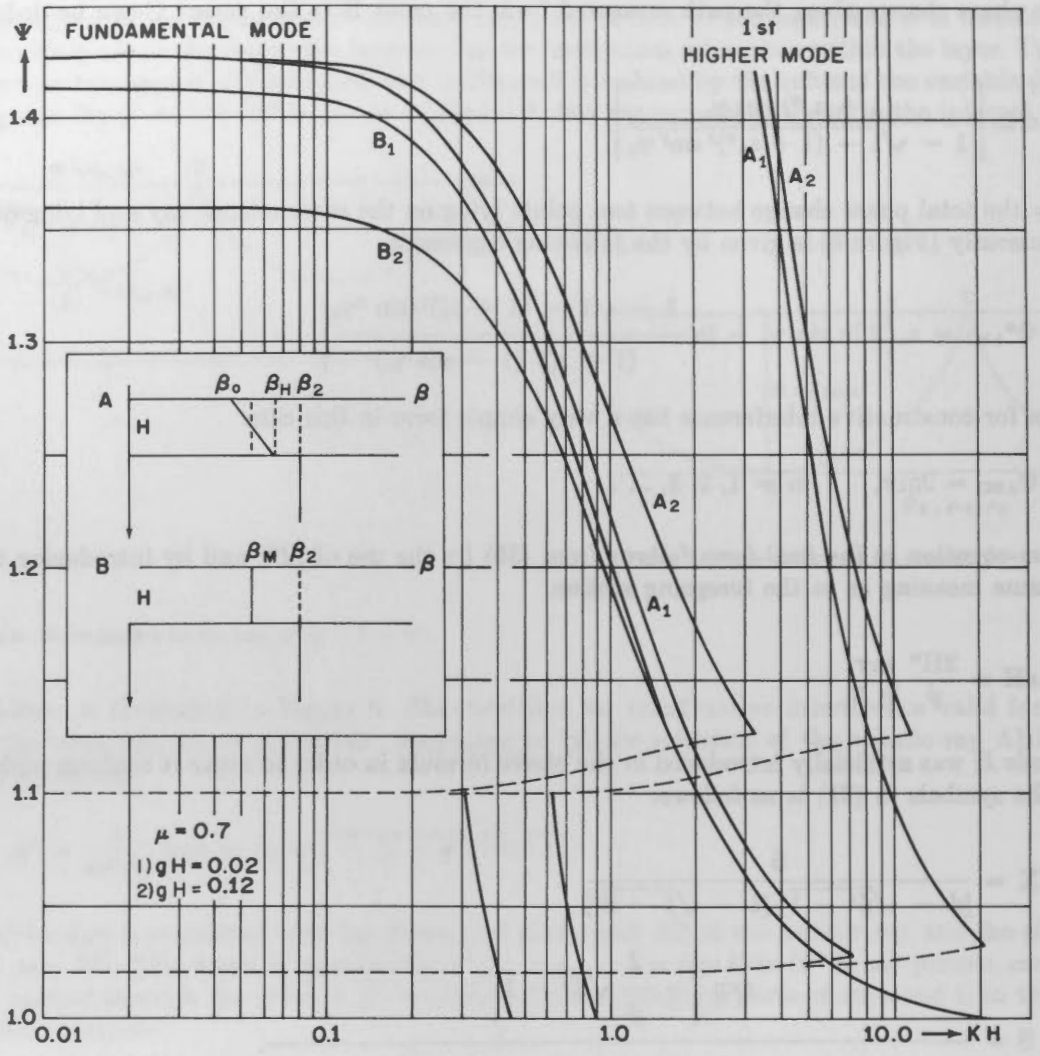

Figure 10. Love dispersion in the inhomogeneous layer. The curve A_1 (A_2) corresponds to the case $\beta_0/\beta_H = 0.7$ the increment of velocity within the layer being 2% (12%). The dispersion curve B_1 (B_2) is valid for the case of a homogeneous layer with average velocity.

References

HUDSON, J. A.: SH-waves in an edge-shaped medium, *Geophys. Journ. R.A.S.*, **7**, 517, 1963.

HUDSON, J. A. AND L. KNOPOFF: Transmission and reflection of surface waves at a corner, *J. Geophys. Res.*, **69**, 275, 1964.

OFFICER, C. B.: Introduction to the theory of sound transmission. McGraw Hill, N.Y., 1958.

STONELEY, R. AND E. TILLOTSON: The effect of a double surface layer on Love Waves, *Geophys. Supp. M.N.R.A.S.*, **1**, 521, 1928.

NOVOTNÝ, O. AND K. PEČ: Equivalence between Love wave propagation in a double layer and single layer medium, *Studia Geophys. et Geod.*, **8**, 24, 1964.

Dispersion Tables for Phase Velocities of Love Waves

The dispersion tables of Love waves are given in two sections. Section A contains tables for the dispersion of Love waves in a wedge-shaped layer.

Table AI (1) lists the Love wave dispersion for positive angle of inclination and for waves that propagate towards the apex, while Table AI (2) concerns the negative angle of inclination of the wedge, i.e. the case of propagation in the direction of increasing thickness of the layer. The dispersion tables for the case $\alpha = 0$, i.e. for propagation within the layer with parallel boundaries, all other parameters being the same as in Tables AI (1) and AI (2), are given in Table AI (3).

The symbols used in Tables AI (1), AI (2) and AI (3) are as follows:

ALPHA = α ..... angle of inclination of the wedge
N = n = β_1/β_2 ..... refraction index
β_1 ..... velocity of shear waves in the wedge
β_2 ..... velocity of shear waves in the semi-infinite layer
RHO = $\rho = \rho_1/\rho_2$ ..... ratio of densities in the wedge and in the semi-infinite layer
PSI = $\psi = c/\beta_1$
c ..... phase velocity of Love waves
CUTOFF NUMBER = ψ_o ..... the greatest value of PSI for which the undamped Love waves still exist for given parameters α, n.

Tables AI (1), AI (2) were calculated from formula (11) utilizing two systems of successive approximations described earlier. The numbers given in the columns for particular ρ are products κH, where $\kappa = \omega/c = 2\pi/\lambda$ is the wave number of the Love waves and H is the thickness of the wedge in the locality of observation.

Table AI (1) is calculated for following parameters:

ALPHA from 1° to 15° in 1° increments,

N from 0.7 to 0.9 in 0.05 increments,

RHO from 0.6 to 1.2 in 0.2 increments.

Similarly for Table AI (2), ALPHA varies from $-1°$ to $-5°$ in 1° increments; N and RHO change over the same range.

Tables AI (1) and AI (2) contain fundamental, first and second higher modes of phase velocities of Love waves.

Table AI (3) contains commonly used phase velocities of Love waves propagating in the layer with parallel boundaries. The ranges of N and RHO are the same as above. The fundamental, first and second higher modes are given.

Section B contains fundamental and first higher modes of phase velocities of Love waves propagating in a layer with a linear shear wave velocity increase with depth, lying on a homogeneous half-space. In addition, the fundamental mode dispersion curves of Love waves are shown corresponding to a homogeneous layer with velocity equal to the average velocity of shear waves.

The symbols used in Table B are as follows:

RHO = ρ_H/ρ_2 ..... ratio of densities at the interface between the layer and homogeneous semi-infinite layer
PSI = ψ ..... *a*) = c/β_o for the model with inhomogeneous layer
PSI = ψ ..... *b*) = c/β_1 for the model with homogeneous average layer
c ..... phase velocity of Love waves
β_o ..... velocity of shear waves at the top of inhomogeneous layer
β_H ..... velocity of shear waves at the bottom of inhomogeneous layer
β_2 ..... velocity of shear waves in the half-space
$\beta_1 = 0.5\ (\beta_o + \beta_H)$ ..... velocity of shear waves in the homogeneous average layer
N = $n_o = \beta_o/\beta_2$ ..... refraction index
CUTOFF 1 = 1/N
CUTOFF 2 = $\beta_H/\beta_o = 1 + gH$
H ..... thickness of the layer
g ..... parameter controlling the increment of the velocity with depth
CUTOFF 3 = 1/N3
N3 = β_1/β_2 ..... refraction index.

As in section A the values given in section B are products κH (κ is wave number of Love wave).

The dispersion tables for non-homogeneous layer were calculated from the formula (24) for $\psi = c/\beta_o$ lying between CUTOFF 2 and CUTOFF 1 (this case corresponds to the wave pattern as shown on the Figure 7), and from the formula (31) for m = 1, 2, within the limits CUTOFF 2 $< \psi <$ 1. Propagation in the inhomogeneous layer is not influenced by properties of the underlying semi-infinite layer for this dispersion branch.

The linear increment in the velocity of shear waves within the layer is given by the formula $\beta(z) = \beta_o$ (1 + g.z). Since CUTOFF 2 $= \beta_H/\beta_o$, it follows that the total increment in velocity $\beta_H - \beta_o$ expressed as a percentage of β_o is given by 100 · (CUTOFF 2 − 1) per cent. Then the number CUTOFF 2 gives the lower limit of ψ for the principal branch of Love waves and defines the total increment of the velocity in the layer by means of the relation

$$\frac{\beta_H - \beta_o}{\beta_o} = \text{CUTOFF 2} - 1.$$

The fundamental mode of the homogeneous layer with an average velocity for shear waves of $\beta_1 = 0.5\ (\beta_o + \beta_H)$ is given for comparison. The number CUTOFF 3 means the reciprocal value of refraction index N3 = 1/CUTOFF 3.

Love waves exist within the interval CUTOFF 3 $\leqslant \psi \leqslant$ 1, ψ having the meaning c/β_1 for this model.

The tables of section B are calculated for parameters N from 0.6 to 0.9 in 0.05 increments, CUTOFF 2 from 1.02 to 1.12 in increments of 0.02 and for 1.30, subject to condition CUTOFF 2 < CUTOFF 1.

Table AI (1)

Phase Velocities of Love Waves Propagating in a Wedge-Shaped Layer in the Direction of Decreasing Thickness of the Layer

EDGE ALPHA= 1° N= .70 CUTOFF NUM.=1.403791

	FUNDAMENTAL MODE				1ST HIGHER MODE				2ND HIGHER MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.396	.343	.262	.211	.177	3.539	3.458	3.407	3.373	6.735	6.654	6.603	6.569
1.386	.525	.409	.333	.281	3.772	3.656	3.580	3.527	7.019	6.902	6.827	6.774
1.375	.651	.516	.425	.360	3.950	3.815	3.724	3.659	7.249	7.114	7.023	6.958
1.364	.751	.605	.502	.428	4.105	3.959	3.856	3.782	7.458	7.312	7.210	7.136
1.354	.837	.683	.573	.491	4.247	4.094	3.983	3.901	7.658	7.505	7.394	7.312
1.343	.913	.755	.638	.549	4.384	4.225	4.108	4.020	7.854	7.696	7.579	7.490
1.332	.984	.822	.700	.606	4.516	4.355	4.233	4.139	8.049	7.888	7.766	7.672
1.321	1.050	.887	.760	.662	4.648	4.485	4.359	4.260	8.246	8.083	7.957	7.858
1.311	1.113	.949	.820	.717	4.780	4.616	4.486	4.384	8.447	8.283	8.153	8.050
1.300	1.175	1.011	.878	.772	4.914	4.749	4.617	4.510	8.653	8.488	8.356	8.249
1.289	1.236	1.072	.937	.827	5.051	4.886	4.751	4.642	8.865	8.701	8.566	8.456
1.279	1.297	1.133	.996	.883	5.191	5.027	4.890	4.778	9.086	8.921	8.785	8.672
1.268	1.358	1.194	1.056	.941	5.337	5.173	5.035	4.920	9.316	9.152	9.014	8.898
1.257	1.420	1.257	1.117	1.000	5.488	5.325	5.186	5.068	9.556	9.393	9.254	9.136
1.246	1.483	1.320	1.180	1.060	5.646	5.484	5.344	5.224	9.809	9.647	9.507	9.387
1.236	1.548	1.386	1.245	1.124	5.812	5.651	5.510	5.388	10.077	9.915	9.774	9.652
1.225	1.615	1.454	1.313	1.189	5.987	5.827	5.685	5.562	10.360	10.199	10.058	9.934
1.214	1.685	1.526	1.384	1.259	6.173	6.014	5.872	5.747	10.661	10.502	10.360	10.235
1.204	1.759	1.600	1.458	1.331	6.371	6.212	6.070	5.944	10.983	10.825	10.682	10.556
1.193	1.836	1.679	1.536	1.409	6.583	6.425	6.283	6.155	11.329	11.171	11.029	10.901
1.182	1.919	1.763	1.620	1.491	6.810	6.654	6.511	6.382	11.702	11.545	11.403	11.274
1.171	2.007	1.852	1.709	1.579	7.057	6.901	6.759	6.629	12.106	11.951	11.808	11.678
1.161	2.103	1.949	1.806	1.675	7.325	7.171	7.028	6.897	12.547	12.393	12.250	12.119
1.150	2.206	2.053	1.910	1.779	7.618	7.466	7.323	7.191	13.031	12.878	12.735	12.603
1.139	2.320	2.168	2.025	1.892	7.943	7.791	7.648	7.515	13.566	13.414	13.271	13.138
1.129	2.445	2.294	2.152	2.018	8.303	8.153	8.010	7.877	14.162	14.011	13.869	13.735
1.118	2.585	2.435	2.293	2.159	8.709	8.559	8.417	8.283	14.833	14.684	14.541	14.407
1.107	2.743	2.595	2.452	2.318	9.170	9.022	8.879	8.745	15.597	15.449	15.307	15.172
1.096	2.924	2.777	2.635	2.500	9.701	9.554	9.412	9.277	16.478	16.331	16.189	16.054
1.086	3.136	2.990	2.848	2.712	10.324	10.177	10.036	9.900	17.511	17.365	17.223	17.088
1.075	3.388	3.243	3.102	2.965	11.068	10.922	10.781	10.645	18.747	18.602	18.461	18.325
1.064	3.696	3.552	3.411	3.275	11.981	11.837	11.696	11.559	20.266	20.122	19.981	19.844
1.054	4.087	3.944	3.803	3.666	13.142	12.999	12.858	12.721	22.197	22.054	21.914	21.777
1.043	4.608	4.465	4.325	4.188	14.692	14.550	14.410	14.273	24.777	24.635	24.495	24.358
1.032	5.354	5.213	5.073	4.936	16.922	16.781	16.641	16.504	28.490	28.349	28.209	28.072
1.021	6.572	6.431	6.292	6.155	20.563	20.423	20.284	20.147	34.555	34.415	34.276	34.139
1.011	9.182	9.042	8.904	8.766	28.383	28.244	28.105	27.968	47.584	47.445	47.307	47.169

EDGE ALPHA= 1° N= .75 CUTOFF NUM.=1.313319

1.308	.342	.260	.209	.175	4.024	3.942	3.891	3.857	7.707	7.624	7.574	7.539
1.300	.550	.425	.345	.290	4.288	4.164	4.084	4.029	8.027	7.903	7.823	7.768
1.292	.691	.544	.445	.376	4.489	4.341	4.243	4.174	8.286	8.138	8.040	7.971
1.283	.805	.642	.531	.451	4.663	4.500	4.389	4.309	8.521	8.359	8.247	8.167
1.275	.902	.729	.608	.518	4.824	4.652	4.530	4.440	8.746	8.574	8.452	8.362
1.267	.990	.810	.679	.583	4.978	4.798	4.668	4.571	8.967	8.787	8.657	8.560
1.258	1.070	.885	.748	.644	5.128	4.943	4.806	4.703	9.186	9.001	8.864	8.761
1.250	1.146	.957	.815	.705	5.277	5.089	4.946	4.836	9.408	9.220	9.077	8.967
1.242	1.219	1.028	.880	.765	5.426	5.235	5.088	4.973	9.634	9.443	9.295	9.180
1.233	1.289	1.097	.945	.826	5.577	5.385	5.233	5.114	9.865	9.673	9.521	9.401
1.225	1.359	1.165	1.010	.887	5.731	5.538	5.383	5.259	10.104	9.910	9.755	9.631
1.217	1.428	1.234	1.076	.948	5.890	5.696	5.538	5.410	10.352	10.157	9.999	9.872
1.208	1.498	1.303	1.143	1.012	6.054	5.859	5.699	5.567	10.610	10.415	10.255	10.123
1.200	1.568	1.374	1.211	1.077	6.224	6.030	5.867	5.732	10.880	10.685	10.523	10.388
1.192	1.640	1.446	1.282	1.144	6.402	6.208	6.043	5.906	11.164	10.970	10.805	10.667
1.183	1.714	1.520	1.354	1.214	6.588	6.395	6.229	6.088	11.463	11.270	11.104	10.963
1.175	1.790	1.597	1.430	1.287	6.785	6.592	6.425	6.282	11.780	11.587	11.420	11.277
1.167	1.870	1.678	1.509	1.363	6.994	6.802	6.633	6.487	12.118	11.926	11.757	11.611
1.158	1.953	1.762	1.592	1.444	7.216	7.024	6.855	6.707	12.478	12.287	12.118	11.970
1.150	2.041	1.850	1.680	1.530	7.453	7.263	7.092	6.942	12.865	12.675	12.505	12.355
1.142	2.134	1.945	1.774	1.622	7.708	7.519	7.348	7.196	13.283	13.093	12.922	12.770
1.133	2.234	2.045	1.874	1.720	7.985	7.796	7.624	7.471	13.735	13.546	13.375	13.221
1.125	2.341	2.154	1.982	1.826	8.285	8.097	7.925	7.770	14.228	14.041	13.869	13.713
1.117	2.458	2.271	2.099	1.942	8.614	8.427	8.255	8.098	14.770	14.583	14.411	14.254
1.108	2.585	2.400	2.227	2.069	8.977	8.791	8.619	8.460	15.368	15.182	15.010	14.851
1.100	2.726	2.542	2.369	2.209	9.381	9.196	9.023	8.863	16.035	15.850	15.678	15.518
1.092	2.883	2.700	2.527	2.366	9.834	9.651	9.478	9.317	16.785	16.602	16.429	16.268
1.083	3.061	2.879	2.706	2.543	10.350	10.168	9.995	9.832	17.639	17.457	17.284	17.121
1.075	3.264	3.083	2.910	2.747	10.944	10.763	10.590	10.426	18.624	18.443	18.270	18.106
1.067	3.501	3.321	3.148	2.984	11.640	11.460	11.287	11.122	19.778	19.598	19.425	19.260
1.058	3.784	3.605	3.432	3.266	12.471	12.292	12.119	11.954	21.159	20.980	20.807	20.641
1.050	4.128	3.951	3.778	3.611	13.491	13.313	13.141	12.974	22.854	22.676	22.504	22.337
1.042	4.565	4.388	4.216	4.048	14.787	14.610	14.438	14.270	25.009	24.833	24.660	24.492
1.033	5.146	4.970	4.798	4.630	16.516	16.340	16.168	16.000	27.886	27.710	27.538	27.370
1.025	5.978	5.803	5.631	5.462	18.999	18.825	18.653	18.484	32.020	31.846	31.674	31.505
1.017	7.331	7.158	6.986	6.816	23.045	22.872	22.700	22.530	38.759	38.586	38.414	38.244
1.008	10.217	10.045	9.873	9.703	31.690	31.517	31.346	31.176	53.162	52.990	52.819	52.649

EDGE ALPHA= 1° N= .80 CUTOFF NUM.=1.234035

	FUNDAMENTAL MODE				1ST HIGHER MODE				2ND HIGHER MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.231	.322	.243	.195	.163	4.630	4.552	4.504	4.472	8.939	8.860	8.812	8.780
1.225	.573	.440	.356	.299	4.945	4.813	4.729	4.671	9.317	9.185	9.101	9.044
1.219	.738	.576	.470	.396	5.177	5.015	4.909	4.835	9.616	9.453	9.348	9.274
1.212	.870	.688	.566	.479	5.378	5.196	5.074	4.987	9.886	9.704	9.582	9.495
1.206	.983	.787	.652	.554	5.563	5.367	5.232	5.134	10.143	9.948	9.812	9.715
1.200	1.084	.878	.732	.625	5.740	5.534	5.388	5.281	10.396	10.190	10.044	9.937
1.194	1.178	.964	.809	.694	5.912	5.699	5.544	5.429	10.647	10.433	10.279	10.163
1.187	1.266	1.047	.884	.762	6.083	5.864	5.701	5.579	10.901	10.681	10.519	10.396
1.181	1.351	1.127	.958	.829	6.255	6.031	5.862	5.733	11.159	10.935	10.766	10.636
1.175	1.433	1.206	1.031	.896	6.428	6.201	6.026	5.891	11.423	11.196	11.021	10.886
1.169	1.514	1.284	1.105	.964	6.605	6.375	6.196	6.055	11.696	11.466	11.287	11.145
1.162	1.594	1.363	1.179	1.033	6.786	6.555	6.371	6.225	11.978	11.747	11.563	11.417
1.156	1.675	1.442	1.255	1.103	6.974	6.741	6.554	6.402	12.273	12.040	11.853	11.701
1.150	1.756	1.523	1.332	1.176	7.169	6.935	6.744	6.588	12.581	12.348	12.156	12.001
1.144	1.839	1.606	1.412	1.251	7.372	7.138	6.944	6.784	12.904	12.671	12.476	12.316
1.137	1.925	1.691	1.494	1.330	7.585	7.351	7.154	6.990	13.246	13.012	12.815	12.651
1.131	2.013	1.779	1.580	1.412	7.810	7.576	7.377	7.209	13.607	13.373	13.174	13.006
1.125	2.104	1.871	1.669	1.498	8.048	7.814	7.613	7.442	13.991	13.758	13.556	13.385
1.119	2.200	1.967	1.764	1.589	8.301	8.068	7.865	7.690	14.402	14.168	13.965	13.791
1.112	2.301	2.068	1.864	1.686	8.572	8.339	8.134	7.956	14.842	14.609	14.405	14.227
1.106	2.408	2.176	1.970	1.789	8.863	8.630	8.424	8.243	15.317	15.085	14.878	14.698
1.100	2.523	2.291	2.084	1.900	9.177	8.945	8.738	8.554	15.831	15.600	15.392	15.209
1.094	2.646	2.415	2.206	2.020	9.519	9.288	9.080	8.893	16.392	16.161	15.953	15.766
1.087	2.779	2.549	2.340	2.151	9.893	9.663	9.454	9.265	17.007	16.778	16.568	16.379
1.081	2.925	2.696	2.485	2.294	10.306	10.077	9.867	9.675	17.687	17.458	17.248	17.057
1.075	3.086	2.858	2.646	2.453	10.765	10.537	10.326	10.133	18.445	18.217	18.006	17.812
1.069	3.265	3.038	2.826	2.630	11.281	11.054	10.842	10.647	19.297	19.070	18.858	18.663
1.062	3.468	3.242	3.029	2.831	11.867	11.641	11.429	11.231	20.267	20.041	19.829	19.631
1.056	3.699	3.474	3.261	3.061	12.542	12.317	12.104	11.904	21.385	21.160	20.947	20.747
1.050	3.969	3.745	3.532	3.330	13.332	13.108	12.895	12.693	22.695	22.471	22.257	22.056
1.044	4.290	4.067	3.853	3.650	14.275	14.052	13.839	13.635	24.261	24.038	23.824	23.621
1.037	4.681	4.460	4.246	4.040	15.432	15.210	14.996	14.791	26.182	25.961	25.746	25.541
1.031	5.176	4.956	4.742	4.535	16.900	16.679	16.465	16.258	28.623	28.402	28.188	27.981
1.025	5.834	5.615	5.400	5.192	18.855	18.636	18.421	18.213	31.877	31.657	31.443	31.234
1.019	6.774	6.556	6.341	6.131	21.659	21.441	21.226	21.016	36.544	36.325	36.111	35.901
1.012	8.297	8.080	7.866	7.655	26.212	25.995	25.781	25.569	44.127	43.910	43.695	43.484
1.006	11.525	11.309	11.095	10.882	35.877	35.662	35.447	35.235	60.230	60.014	59.800	59.587

EDGE ALPHA= 1° N= .85 CUTOFF NUM.=1.164057

1.163	.234	.176	.141	.118	5.414	5.356	5.321	5.298	10.594	10.536	10.501	10.478
1.159	.586	.448	.361	.303	5.841	5.702	5.616	5.557	11.095	10.956	10.870	10.811
1.154	.792	.613	.498	.419	6.123	5.944	5.830	5.750	11.455	11.276	11.161	11.082
1.150	.952	.746	.610	.515	6.364	6.158	6.023	5.927	11.776	11.571	11.435	11.340
1.146	1.088	.863	.711	.602	6.585	6.360	6.207	6.099	12.081	11.856	11.704	11.595
1.141	1.211	.971	.804	.684	6.795	6.555	6.389	6.268	12.379	12.139	11.973	11.853
1.137	1.323	1.072	.894	.763	6.999	6.748	6.570	6.439	12.675	12.424	12.246	12.115
1.132	1.429	1.169	.980	.841	7.201	6.941	6.753	6.613	12.974	12.713	12.525	12.385
1.128	1.530	1.263	1.066	.917	7.404	7.136	6.939	6.791	13.277	13.010	12.812	12.664
1.124	1.629	1.356	1.151	.994	7.608	7.335	7.130	6.974	13.588	13.315	13.110	12.953
1.119	1.725	1.448	1.236	1.072	7.817	7.539	7.327	7.163	13.908	13.630	13.418	13.254
1.115	1.821	1.541	1.322	1.151	8.030	7.750	7.531	7.360	14.240	13.959	13.740	13.569
1.110	1.918	1.634	1.410	1.233	8.251	7.968	7.743	7.566	14.585	14.301	14.077	13.900
1.106	2.015	1.729	1.500	1.316	8.480	8.194	7.965	7.782	14.946	14.660	14.431	14.247
1.101	2.114	1.826	1.592	1.403	8.719	8.432	8.198	8.008	15.325	15.037	14.803	14.614
1.097	2.215	1.926	1.688	1.493	8.970	8.681	8.443	8.248	15.724	15.436	15.198	15.003
1.093	2.319	2.030	1.788	1.588	9.233	8.944	8.702	8.502	16.147	15.858	15.616	15.416
1.088	2.428	2.137	1.892	1.687	9.512	9.222	8.977	8.772	16.597	16.307	16.061	15.856
1.084	2.541	2.251	2.002	1.792	9.809	9.518	9.270	9.060	17.077	16.786	16.538	16.328
1.079	2.661	2.370	2.119	1.904	10.126	9.835	9.584	9.369	17.592	17.301	17.050	16.835
1.075	2.787	2.496	2.242	2.023	10.467	10.176	9.922	9.703	18.146	17.856	17.602	17.383
1.071	2.922	2.631	2.375	2.152	10.835	10.544	10.288	10.064	18.747	18.457	18.201	17.977
1.066	3.067	2.777	2.518	2.290	11.235	10.944	10.686	10.458	19.402	19.112	18.854	18.626
1.062	3.224	2.934	2.673	2.442	11.672	11.382	11.122	10.890	20.121	19.831	19.570	19.339
1.057	3.395	3.106	2.843	2.608	12.154	11.865	11.603	11.368	20.914	20.625	20.363	20.127
1.053	3.583	3.295	3.031	2.792	12.691	12.402	12.138	11.899	21.798	21.509	21.245	21.006
1.049	3.794	3.506	3.240	2.998	13.293	13.005	12.739	12.497	22.791	22.504	22.238	21.996
1.044	4.030	3.744	3.477	3.231	13.976	13.689	13.422	13.176	23.921	23.634	23.367	23.121
1.040	4.301	4.015	3.747	3.498	14.762	14.476	14.208	13.959	25.223	24.937	24.669	24.420
1.035	4.616	4.331	4.062	3.809	15.682	15.397	15.127	14.875	26.747	26.462	26.193	25.940
1.031	4.990	4.706	4.435	4.180	16.779	16.495	16.224	15.969	28.568	28.284	28.013	27.758
1.026	5.446	5.163	4.891	4.633	18.123	17.840	17.568	17.310	30.799	30.516	30.245	29.986
1.022	6.021	5.739	5.467	5.205	19.826	19.544	19.271	19.010	33.630	33.348	33.076	32.814
1.018	6.783	6.502	6.229	5.965	22.090	21.809	21.536	21.271	37.396	37.115	36.842	36.578
1.013	7.869	7.589	7.316	7.049	25.326	25.046	24.773	24.506	42.783	42.503	42.230	41.963
1.009	9.619	9.341	9.067	8.797	30.556	30.278	30.004	29.734	51.493	51.215	50.940	50.671
1.004	13.292	13.015	12.740	12.468	41.552	41.275	41.000	40.728	69.811	69.534	69.260	68.988

EDGE ALPHA= 1° N= .90 CUTOFF NUM.=1.101964

	FUNDAMENTAL MODE				1ST HIGHER MODE				2ND HIGHER MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.100	.543	.411	.330	.276	7.197	7.065	6.984	6.930	13.851	13.719	13.639	13.584
1.097	.841	.645	.521	.437	7.590	7.394	7.270	7.186	14.339	14.143	14.020	13.935
1.094	1.057	.820	.668	.562	7.905	7.668	7.515	7.409	14.753	14.516	14.363	14.257
1.092	1.237	.971	.795	.671	8.188	7.922	7.745	7.622	15.139	14.873	14.696	14.573
1.089	1.396	1.107	.911	.772	8.454	8.165	7.970	7.831	15.513	15.224	15.028	14.889
1.086	1.541	1.234	1.022	.869	8.712	8.405	8.193	8.040	15.883	15.576	15.364	15.211
1.083	1.676	1.355	1.129	.963	8.965	8.644	8.418	8.252	16.254	15.933	15.707	15.541
1.081	1.806	1.473	1.234	1.057	9.219	8.886	8.647	8.469	16.631	16.299	16.059	15.882
1.078	1.931	1.589	1.338	1.150	9.474	9.132	8.881	8.693	17.017	16.674	16.424	16.236
1.075	2.054	1.704	1.442	1.244	9.734	9.383	9.122	8.924	17.413	17.063	16.802	16.604
1.072	2.176	1.819	1.548	1.340	10.000	9.643	9.372	9.164	17.824	17.467	17.196	16.988
1.069	2.297	1.935	1.655	1.439	10.274	9.911	9.632	9.415	18.250	17.888	17.609	17.392
1.067	2.419	2.053	1.765	1.540	10.558	10.191	9.904	9.678	18.696	18.329	18.042	17.816
1.064	2.544	2.173	1.879	1.645	10.853	10.483	10.189	9.955	19.163	18.793	18.498	18.265
1.061	2.671	2.297	1.996	1.754	11.163	10.790	10.489	10.247	19.656	19.282	18.981	18.739
1.058	2.801	2.425	2.118	1.868	11.489	11.113	10.806	10.556	20.177	19.800	19.493	19.244
1.056	2.937	2.559	2.246	1.989	11.834	11.455	11.142	10.885	20.730	20.352	20.039	19.782
1.053	3.079	2.699	2.381	2.116	12.199	11.819	11.501	11.237	21.320	20.940	20.622	20.358
1.050	3.227	2.846	2.523	2.252	12.590	12.209	11.886	11.615	21.953	21.572	21.249	20.977
1.047	3.384	3.002	2.674	2.397	13.009	12.627	12.299	12.022	22.634	22.252	21.924	21.647
1.044	3.551	3.169	2.837	2.552	13.462	13.079	12.747	12.462	23.372	22.989	22.657	22.373
1.042	3.731	3.348	3.012	2.721	13.953	13.570	13.234	12.943	24.175	23.792	23.456	23.165
1.039	3.925	3.541	3.202	2.905	14.490	14.107	13.767	13.470	25.056	24.672	24.332	24.035
1.036	4.136	3.752	3.409	3.106	15.082	14.698	14.355	14.052	26.027	25.644	25.301	24.998
1.033	4.369	3.985	3.639	3.330	15.739	15.355	15.009	14.700	27.109	26.725	26.379	26.070
1.031	4.627	4.244	3.894	3.580	16.475	16.092	15.743	15.428	28.324	27.941	27.591	27.277
1.028	4.918	4.535	4.183	3.863	17.311	16.928	16.576	16.256	29.704	29.321	28.969	28.648
1.025	5.250	4.868	4.513	4.187	18.271	17.889	17.534	17.208	31.292	30.910	30.555	30.229
1.022	5.635	5.253	4.896	4.565	19.392	19.011	18.653	18.322	33.150	32.768	32.410	32.079
1.019	6.091	5.710	5.351	5.014	20.728	20.347	19.987	19.651	35.365	34.984	34.624	34.287
1.017	6.646	6.266	5.904	5.562	22.360	21.980	21.618	21.276	38.074	37.694	37.332	36.990
1.014	7.344	6.965	6.601	6.254	24.423	24.044	23.680	23.333	41.502	41.123	40.759	40.412
1.011	8.265	7.887	7.521	7.169	27.155	26.777	26.411	26.060	46.046	45.668	45.302	44.950
1.008	9.571	9.194	8.826	8.469	31.043	30.666	30.299	29.942	52.516	52.139	51.771	51.415
1.006	11.660	11.284	10.915	10.553	37.282	36.907	36.537	36.175	62.905	62.529	62.160	61.798
1.003	15.978	15.603	15.233	14.866	50.207	49.832	49.461	49.094	84.435	84.061	83.690	83.323

EDGE ALPHA= 2° N= .70 CUTOFF NUM.=1.380268

1.375	.307	.233	.188	.157	3.582	3.508	3.462	3.431	6.856	6.782	6.737	6.706
1.364	.522	.405	.330	.278	3.850	3.733	3.658	3.606	7.177	7.061	6.986	6.933
1.354	.661	.523	.431	.365	4.044	3.907	3.814	3.748	7.428	7.290	7.197	7.131
1.343	.770	.620	.515	.439	4.211	4.061	3.956	3.880	7.653	7.503	7.398	7.322
1.332	.862	.704	.590	.506	4.364	4.206	4.092	4.008	7.866	7.708	7.595	7.510
1.321	.944	.781	.660	.569	4.509	4.347	4.226	4.135	8.075	7.912	7.792	7.701
1.311	1.019	.853	.727	.630	4.651	4.485	4.359	4.262	8.283	8.118	7.992	7.895
1.300	1.089	.922	.792	.690	4.791	4.624	4.494	4.392	8.494	8.326	8.196	8.094
1.289	1.157	.989	.855	.749	4.933	4.764	4.631	4.524	8.708	8.540	8.406	8.300
1.279	1.223	1.054	.918	.808	5.076	4.907	4.771	4.661	8.929	8.761	8.624	8.514
1.268	1.288	1.119	.981	.867	5.223	5.054	4.916	4.802	9.158	8.989	8.851	8.737
1.257	1.353	1.185	1.044	.928	5.374	5.206	5.066	4.949	9.396	9.228	9.087	8.971
1.246	1.418	1.251	1.109	.990	5.531	5.364	5.222	5.103	9.644	9.477	9.335	9.216
1.236	1.485	1.318	1.175	1.054	5.695	5.529	5.386	5.264	9.906	9.740	9.597	9.475
1.225	1.553	1.387	1.244	1.120	5.868	5.702	5.558	5.435	10.182	10.017	9.873	9.749
1.214	1.624	1.459	1.315	1.189	6.049	5.885	5.740	5.615	10.475	10.311	10.166	10.041
1.204	1.697	1.534	1.389	1.261	6.242	6.079	5.934	5.806	10.787	10.624	10.479	10.351
1.193	1.774	1.612	1.467	1.338	6.448	6.285	6.140	6.011	11.121	10.959	10.813	10.685
1.182	1.855	1.695	1.549	1.419	6.668	6.507	6.361	6.231	11.480	11.319	11.174	11.043
1.171	1.942	1.782	1.637	1.505	6.905	6.746	6.600	6.468	11.868	11.709	11.563	11.432
1.161	2.035	1.876	1.731	1.598	7.163	7.004	6.859	6.726	12.291	12.132	11.987	11.854
1.150	2.135	1.978	1.832	1.699	7.444	7.287	7.141	7.008	12.753	12.596	12.450	12.316
1.139	2.244	2.089	1.943	1.809	7.753	7.597	7.452	7.317	13.262	13.106	12.961	12.826
1.129	2.365	2.210	2.065	1.929	8.096	7.942	7.796	7.661	13.828	13.673	13.528	13.393
1.118	2.498	2.345	2.200	2.064	8.481	8.327	8.182	8.046	14.463	14.309	14.164	14.028
1.107	2.649	2.497	2.352	2.215	8.916	8.763	8.619	8.482	15.183	15.030	14.886	14.749
1.096	2.820	2.669	2.525	2.388	9.415	9.264	9.119	8.982	16.009	15.858	15.714	15.577
1.086	3.019	2.869	2.725	2.587	9.996	9.847	9.703	9.565	16.974	16.824	16.680	16.543
1.075	3.254	3.106	2.962	2.824	10.688	10.540	10.396	10.258	18.122	17.974	17.830	17.692
1.064	3.540	3.393	3.249	3.111	11.532	11.385	11.241	11.103	19.524	19.377	19.233	19.095
1.054	3.899	3.753	3.610	3.471	12.595	12.450	12.307	12.168	21.292	21.146	21.004	20.865
1.043	4.371	4.227	4.085	3.946	14.000	13.856	13.714	13.575	23.629	23.484	23.342	23.204
1.032	5.041	4.898	4.756	4.617	15.997	15.854	15.712	15.573	26.953	26.810	26.669	26.530
1.021	6.109	5.967	5.826	5.687	19.188	19.046	18.906	18.767	32.268	32.126	31.985	31.846
1.011	8.308	8.168	8.028	7.889	25.773	25.632	25.493	25.354	43.237	43.097	42.957	42.818

EDGE ALPHA= 2^0 N= .75 CUTOFF NUM.=1.294286

	FUNDAMENTAL MODE				1ST HIGHER MODE				2ND HIGHER MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.292	.262	.198	.159	.133	4.021	3.957	3.918	3.892	7.780	7.716	7.677	7.651
1.283	.525	.405	.328	.276	4.344	4.223	4.146	4.094	8.162	8.041	7.965	7.912
1.275	.687	.539	.441	.372	4.566	4.418	4.321	4.252	8.446	8.298	8.200	8.132
1.267	.812	.647	.534	.453	4.756	4.591	4.478	4.397	8.700	8.535	8.422	8.342
1.258	.918	.741	.617	.527	4.929	4.753	4.629	4.538	8.941	8.765	8.640	8.550
1.250	1.012	.828	.695	.596	5.094	4.910	4.776	4.677	9.176	8.992	8.858	8.759
1.242	1.098	.909	.768	.662	5.254	5.064	4.924	4.818	9.409	9.220	9.080	8.973
1.233	1.179	.986	.839	.727	5.412	5.219	5.073	4.960	9.645	9.452	9.306	9.193
1.225	1.257	1.061	.910	.791	5.571	5.376	5.224	5.106	9.886	9.690	9.539	9.421
1.217	1.332	1.135	.979	.856	5.732	5.535	5.380	5.256	10.133	9.936	9.780	9.657
1.208	1.406	1.208	1.049	.921	5.897	5.699	5.540	5.412	10.388	10.190	10.031	9.903
1.200	1.480	1.282	1.120	.988	6.067	5.868	5.706	5.575	10.654	10.455	10.293	10.161
1.192	1.555	1.356	1.191	1.056	6.243	6.044	5.880	5.744	10.931	10.733	10.568	10.433
1.183	1.630	1.432	1.265	1.126	6.427	6.228	6.061	5.922	11.223	11.025	10.858	10.719
1.175	1.708	1.510	1.341	1.199	6.619	6.421	6.253	6.110	11.530	11.333	11.164	11.022
1.167	1.787	1.590	1.420	1.275	6.822	6.625	6.455	6.310	11.856	11.659	11.489	11.344
1.158	1.870	1.674	1.502	1.355	7.037	6.840	6.669	6.521	12.203	12.007	11.836	11.688
1.150	1.957	1.761	1.589	1.439	7.266	7.070	6.898	6.748	12.575	12.379	12.207	12.057
1.142	2.049	1.854	1.681	1.528	7.511	7.317	7.143	6.991	12.974	12.779	12.606	12.454
1.133	2.146	1.952	1.778	1.624	7.775	7.582	7.408	7.253	13.405	13.211	13.037	12.883
1.125	2.250	2.057	1.883	1.727	8.062	7.869	7.695	7.538	13.874	13.681	13.507	13.350
1.117	2.362	2.171	1.996	1.838	8.374	8.183	8.008	7.850	14.386	14.195	14.020	13.862
1.108	2.484	2.294	2.119	1.959	8.718	8.528	8.352	8.193	14.951	14.761	14.586	14.426
1.100	2.618	2.430	2.254	2.093	9.098	8.910	8.734	8.573	15.578	15.390	15.214	15.053
1.092	2.767	2.580	2.404	2.241	9.524	9.337	9.161	8.999	16.282	16.094	15.918	15.756
1.083	2.935	2.748	2.573	2.409	10.007	9.820	9.645	9.481	17.079	16.892	16.717	16.553
1.075	3.125	2.940	2.765	2.599	10.559	10.374	10.199	10.033	17.993	17.808	17.633	17.468
1.067	3.346	3.162	2.987	2.820	11.203	11.019	10.844	10.678	19.060	18.877	18.701	18.535
1.058	3.607	3.424	3.249	3.081	11.968	11.786	11.610	11.443	20.329	20.147	19.971	19.804
1.050	3.923	3.742	3.566	3.398	12.900	12.718	12.543	12.375	21.876	21.695	21.520	21.352
1.042	4.319	4.139	3.964	3.795	14.071	13.891	13.717	13.547	23.824	23.644	23.469	23.300
1.033	4.841	4.662	4.488	4.318	15.621	15.443	15.268	15.098	26.402	26.223	26.049	25.879
1.025	5.576	5.399	5.225	5.055	17.812	17.635	17.461	17.290	30.047	29.870	29.696	29.526
1.017	6.744	6.569	6.395	6.224	21.300	21.124	20.951	20.780	35.856	35.680	35.507	35.336
1.008	9.131	8.957	8.785	8.613	28.445	28.272	28.099	27.927	47.760	47.586	47.413	47.241

EDGE ALPHA= 2^0 N= .80 CUTOFF NUM.=1.218840

1.219	.061	.046	.037	.030	4.439	4.424	4.415	4.409	8.818	8.803	8.794	8.788
1.212	.505	.386	.311	.261	4.950	4.831	4.756	4.706	9.395	9.276	9.201	9.151
1.206	.704	.546	.445	.374	5.218	5.061	4.959	4.889	9.732	9.575	9.474	9.403
1.200	.854	.673	.552	.467	5.440	5.259	5.139	5.053	10.027	9.846	9.725	9.640
1.194	.979	.782	.646	.549	5.641	5.444	5.309	5.211	10.304	10.107	9.971	9.874
1.187	1.090	.881	.734	.626	5.831	5.623	5.475	5.368	10.573	10.364	10.217	10.109
1.181	1.191	.974	.817	.700	6.015	5.798	5.641	5.524	10.840	10.623	10.466	10.349
1.175	1.286	1.062	.897	.772	6.197	5.974	5.808	5.684	11.109	10.885	10.720	10.595
1.169	1.376	1.148	.976	.844	6.379	6.151	5.979	5.847	11.382	11.154	10.982	10.850
1.162	1.464	1.233	1.054	.916	6.564	6.332	6.154	6.015	11.663	11.431	11.253	11.115
1.156	1.551	1.316	1.133	.988	6.752	6.518	6.334	6.190	11.953	11.719	11.535	11.391
1.150	1.636	1.400	1.212	1.062	6.945	6.709	6.521	6.371	12.254	12.018	11.830	11.680
1.144	1.722	1.485	1.293	1.138	7.145	6.908	6.716	6.561	12.568	12.331	12.139	11.984
1.137	1.810	1.572	1.376	1.216	7.354	7.116	6.920	6.761	12.898	12.660	12.465	12.305
1.131	1.899	1.660	1.462	1.298	7.572	7.334	7.135	6.971	13.246	13.008	12.809	12.645
1.125	1.990	1.752	1.551	1.382	7.802	7.564	7.363	7.194	13.614	13.376	13.175	13.006
1.119	2.086	1.847	1.644	1.471	8.046	7.808	7.604	7.432	14.006	13.768	13.564	13.392
1.112	2.185	1.947	1.741	1.566	8.305	8.067	7.861	7.685	14.425	14.187	13.981	13.805
1.106	2.289	2.052	1.845	1.665	8.582	8.345	8.137	7.958	14.874	14.637	14.430	14.250
1.100	2.400	2.164	1.955	1.772	8.880	8.644	8.435	8.252	15.360	15.124	14.915	14.732
1.094	2.519	2.283	2.073	1.887	9.203	8.968	8.757	8.572	15.888	15.652	15.442	15.256
1.087	2.646	2.411	2.200	2.011	9.556	9.321	9.109	8.921	16.465	16.230	16.018	15.830
1.081	2.785	2.551	2.338	2.147	9.942	9.709	9.496	9.305	17.100	16.866	16.653	16.462
1.075	2.937	2.704	2.490	2.297	10.371	10.138	9.925	9.731	17.805	17.572	17.359	17.165
1.069	3.105	2.874	2.659	2.463	10.850	10.618	10.404	10.208	18.595	18.363	18.149	17.953
1.062	3.294	3.064	2.848	2.650	11.392	11.161	10.946	10.748	19.489	19.259	19.044	18.845
1.056	3.509	3.279	3.064	2.863	12.012	11.783	11.567	11.367	20.515	20.286	20.070	19.870
1.050	3.757	3.529	3.313	3.110	12.734	12.506	12.290	12.087	21.710	21.483	21.267	21.064
1.044	4.049	3.823	3.606	3.402	13.589	13.362	13.146	12.941	23.128	22.901	22.685	22.481
1.037	4.404	4.179	3.962	3.756	14.632	14.407	14.190	13.984	24.860	24.634	24.418	24.212
1.031	4.847	4.623	4.407	4.199	15.941	15.717	15.500	15.292	27.035	26.811	26.594	26.386
1.025	5.428	5.206	4.989	4.779	17.664	17.441	17.225	17.015	29.899	29.677	29.460	29.250
1.019	6.244	6.023	5.807	5.596	20.092	19.871	19.655	19.444	33.940	33.719	33.503	33.292
1.012	7.537	7.317	7.101	6.888	23.950	23.730	23.514	23.301	40.364	40.144	39.927	39.715
1.006	10.132	9.914	9.698	9.485	31.715	31.497	31.281	31.067	53.297	53.080	52.864	52.650

EDGE ALPHA= 2° N= .85 CUTOFF NUM.=1.152251

	FUNDAMENTAL MODE				1ST HIGHER MODE				2ND HIGHER MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.150	.404	.306	.245	.205	5.713	5.614	5.554	5.514	11.022	10.923	10.863	10.823
1.146	.690	.530	.429	.360	6.079	5.919	5.817	5.748	11.467	11.307	11.206	11.137
1.141	.885	.689	.562	.473	6.357	6.161	6.034	5.945	11.829	11.633	11.506	11.417
1.137	1.043	.822	.675	.571	6.602	6.382	6.234	6.130	12.161	11.941	11.793	11.689
1.132	1.180	.942	.778	.661	6.830	6.592	6.428	6.311	12.480	12.242	12.079	11.961
1.128	1.304	1.052	.875	.746	7.050	6.798	6.621	6.492	12.795	12.544	12.367	12.238
1.124	1.420	1.158	.969	.830	7.265	7.003	6.815	6.676	13.111	12.849	12.661	12.521
1.119	1.529	1.259	1.061	.912	7.480	7.210	7.012	6.863	13.432	13.161	12.963	12.814
1.115	1.635	1.359	1.152	.994	7.697	7.421	7.214	7.056	13.759	13.483	13.276	13.118
1.110	1.739	1.457	1.243	1.077	7.918	7.637	7.422	7.256	14.097	13.816	13.601	13.436
1.106	1.842	1.556	1.335	1.162	8.145	7.859	7.638	7.465	14.448	14.162	13.941	13.768
1.101	1.944	1.656	1.428	1.248	8.379	8.090	7.863	7.683	14.813	14.525	14.297	14.117
1.097	2.048	1.757	1.524	1.338	8.622	8.331	8.098	7.912	15.196	14.905	14.672	14.485
1.093	2.153	1.861	1.623	1.430	8.876	8.584	8.346	8.153	15.599	15.306	15.068	14.876
1.088	2.262	1.968	1.726	1.527	9.143	8.850	8.607	8.409	16.025	15.731	15.489	15.291
1.084	2.374	2.079	1.833	1.629	9.426	9.132	8.885	8.681	16.478	16.184	15.937	15.733
1.079	2.491	2.196	1.946	1.736	9.726	9.431	9.182	8.972	16.962	16.667	16.417	16.208
1.075	2.613	2.318	2.065	1.850	10.047	9.752	9.499	9.284	17.482	17.186	16.933	16.719
1.071	2.743	2.448	2.192	1.972	10.392	10.097	9.841	9.622	18.042	17.747	17.491	17.271
1.066	2.881	2.586	2.327	2.103	10.766	10.471	10.212	9.988	18.650	18.355	18.096	17.872
1.062	3.030	2.735	2.474	2.245	11.172	10.878	10.616	10.388	19.315	19.020	18.759	18.530
1.057	3.191	2.897	2.633	2.401	11.618	11.324	11.061	10.828	20.045	19.751	19.488	19.255
1.053	3.367	3.074	2.808	2.571	12.111	11.818	11.553	11.316	20.856	20.562	20.297	20.060
1.049	3.562	3.269	3.002	2.761	12.662	12.370	12.103	11.862	21.762	21.470	21.203	20.962
1.044	3.779	3.488	3.219	2.975	13.283	12.991	12.722	12.478	22.786	22.494	22.226	21.981
1.040	4.027	3.737	3.467	3.218	13.996	13.705	13.435	13.187	23.964	23.673	23.403	23.155
1.035	4.313	4.023	3.752	3.500	14.822	14.532	14.261	14.009	25.331	25.042	24.770	24.519
1.031	4.648	4.360	4.087	3.832	15.800	15.512	15.239	14.984	26.952	26.664	26.391	26.136
1.026	5.053	4.766	4.492	4.234	16.987	16.700	16.427	16.168	28.922	28.634	28.361	28.103
1.022	5.558	5.272	4.998	4.736	18.475	18.189	17.915	17.653	31.392	31.107	30.832	30.571
1.018	6.217	5.932	5.657	5.393	20.426	20.141	19.866	19.602	34.634	34.350	34.075	33.810
1.013	7.140	6.857	6.581	6.314	23.171	22.888	22.612	22.345	39.202	38.919	38.643	38.376
1.009	8.579	8.298	8.022	7.751	27.462	27.180	26.904	26.634	46.344	46.063	45.787	45.516
1.004	11.435	11.156	10.879	10.607	36.001	35.722	35.446	35.173	60.568	60.288	60.012	59.739

EDGE ALPHA= 2° N= .90 CUTOFF NUM.=1.093298

1.092	.517	.391	.314	.262	7.274	7.148	7.071	7.019	14.031	13.905	13.828	13.776
1.089	.847	.649	.525	.440	7.704	7.507	7.382	7.297	14.562	14.364	14.240	14.155
1.086	1.080	.838	.682	.574	8.042	7.800	7.644	7.536	15.004	14.763	14.606	14.498
1.083	1.271	.998	.818	.690	8.343	8.070	7.890	7.762	15.415	15.142	14.961	14.834
1.081	1.439	1.143	.942	.798	8.626	8.330	8.129	7.985	15.813	15.517	15.316	15.172
1.078	1.593	1.278	1.060	.902	8.900	8.586	8.367	8.209	16.208	15.893	15.675	15.517
1.075	1.737	1.408	1.174	1.003	9.171	8.842	8.608	8.437	16.605	16.276	16.042	15.871
1.072	1.874	1.533	1.286	1.103	9.442	9.101	8.854	8.670	17.009	16.668	16.421	16.238
1.069	2.008	1.657	1.398	1.203	9.716	9.365	9.107	8.912	17.424	17.074	16.815	16.620
1.067	2.139	1.780	1.511	1.305	9.996	9.637	9.368	9.162	17.853	17.495	17.225	17.020
1.064	2.269	1.904	1.625	1.409	10.284	9.919	9.640	9.424	18.299	17.934	17.655	17.440
1.061	2.400	2.029	1.742	1.517	10.582	10.212	9.924	9.699	18.765	18.395	18.107	17.882
1.058	2.532	2.158	1.862	1.628	10.893	10.519	10.223	9.989	19.255	18.880	18.584	18.350
1.056	2.667	2.289	1.986	1.743	11.220	10.842	10.538	10.296	19.772	19.394	19.091	18.848
1.053	2.807	2.426	2.116	1.865	11.563	11.183	10.873	10.622	20.320	19.939	19.630	19.378
1.050	2.951	2.568	2.252	1.993	11.928	11.545	11.229	10.970	20.905	20.522	20.206	19.947
1.047	3.102	2.718	2.396	2.129	12.317	11.932	11.610	11.344	21.531	21.147	20.825	20.558
1.044	3.261	2.875	2.548	2.274	12.733	12.347	12.020	11.746	22.204	21.818	21.491	21.217
1.042	3.431	3.044	2.712	2.430	13.183	12.796	12.464	12.183	22.935	22.548	22.217	21.935
1.039	3.612	3.225	2.888	2.600	13.674	13.287	12.950	12.662	23.737	23.349	23.013	22.724
1.036	3.808	3.420	3.080	2.784	14.210	13.822	13.482	13.186	24.613	24.225	23.884	23.589
1.033	4.022	3.634	3.289	2.987	14.802	14.414	14.070	13.768	25.583	25.195	24.850	24.548
1.031	4.257	3.869	3.521	3.212	15.462	15.074	14.726	14.417	26.666	26.278	25.930	25.622
1.028	4.519	4.132	3.780	3.466	16.204	15.817	15.465	15.150	27.889	27.502	27.150	26.835
1.025	4.816	4.429	4.074	3.753	17.052	16.664	16.310	15.989	29.287	28.900	28.545	28.225
1.022	5.157	4.770	4.413	4.086	18.033	17.646	17.289	16.962	30.909	30.523	30.165	29.838
1.019	5.556	5.170	4.810	4.477	19.191	18.806	18.445	18.113	32.826	32.441	32.081	31.748
1.017	6.035	5.651	5.288	4.950	20.591	20.206	19.844	19.505	35.147	34.762	34.400	34.061
1.014	6.632	6.249	5.884	5.539	22.346	21.963	21.598	21.253	38.060	37.677	37.312	36.967
1.011	7.399	7.017	6.650	6.300	24.608	24.226	23.859	23.509	41.817	41.435	41.068	40.718
1.008	8.469	8.088	7.719	7.363	27.783	27.402	27.033	26.677	47.097	46.716	46.347	45.992
1.006	10.112	9.733	9.362	9.002	32.677	32.297	31.926	31.566	55.241	54.861	54.491	54.130
1.003	13.309	12.932	12.559	12.193	42.229	41.852	41.479	41.113	71.150	70.772	70.400	70.034

EDGE	ALPHA= 3°			N= .70 CUTOFF NUM.=1.357928							
	FUNDAMENTAL MODE				1ST HIGHER MODE				2ND HIGHER MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.354	.295	.224	.180	.150	3.656	3.585	3.541	3.511	7.017	6.946	6.902	6.872
1.343	.534	.415	.338	.284	3.952	3.833	3.755	3.702	7.370	7.250	7.173	7.120
1.332	.684	.542	.446	.378	4.161	4.019	3.923	3.855	7.638	7.496	7.400	7.332
1.321	.799	.645	.536	.457	4.338	4.184	4.075	3.996	7.877	7.723	7.614	7.535
1.311	.897	.735	.617	.529	4.501	4.338	4.220	4.133	8.105	7.942	7.824	7.737
1.300	.984	.816	.691	.596	4.656	4.488	4.363	4.268	8.328	8.160	8.035	7.940
1.289	1.063	.893	.762	.661	4.807	4.636	4.506	4.405	8.550	8.380	8.249	8.148
1.279	1.138	.966	.831	.725	4.957	4.785	4.650	4.544	8.776	8.604	8.469	8.363
1.268	1.210	1.037	.899	.789	5.108	4.935	4.797	4.687	9.006	8.833	8.695	8.585
1.257	1.280	1.107	.966	.852	5.262	5.089	4.948	4.834	9.244	9.071	8.931	8.816
1.246	1.350	1.177	1.034	.916	5.420	5.248	5.105	4.987	9.491	9.319	9.176	9.058
1.236	1.419	1.247	1.103	.982	5.584	5.413	5.268	5.147	9.750	9.578	9.433	9.313
1.225	1.490	1.319	1.173	1.049	5.755	5.584	5.439	5.315	10.021	9.850	9.704	9.581
1.214	1.562	1.392	1.245	1.119	5.935	5.765	5.618	5.492	10.308	10.138	9.991	9.865
1.204	1.636	1.467	1.320	1.192	6.124	5.955	5.808	5.680	10.612	10.443	10.296	10.168
1.193	1.713	1.546	1.398	1.268	6.325	6.157	6.009	5.880	10.936	10.769	10.621	10.491
1.182	1.794	1.628	1.479	1.348	6.539	6.373	6.225	6.093	11.284	11.118	10.970	10.838
1.171	1.880	1.715	1.566	1.433	6.769	6.605	6.456	6.323	11.659	11.494	11.346	11.213
1.161	1.971	1.808	1.659	1.525	7.018	6.855	6.706	6.572	12.066	11.902	11.753	11.619
1.150	2.069	1.907	1.758	1.623	7.289	7.127	6.978	6.843	12.509	12.347	12.198	12.063
1.139	2.175	2.015	1.866	1.730	7.586	7.425	7.277	7.140	12.996	12.836	12.687	12.551
1.129	2.291	2.132	1.984	1.846	7.914	7.755	7.606	7.469	13.536	13.377	13.229	13.092
1.118	2.420	2.262	2.114	1.976	8.280	8.122	7.974	7.836	14.140	13.982	13.834	13.696
1.107	2.563	2.407	2.259	2.121	8.692	8.536	8.388	8.250	14.821	14.665	14.517	14.379
1.096	2.726	2.572	2.424	2.285	9.164	9.009	8.862	8.722	15.601	15.446	15.299	15.160
1.086	2.914	2.761	2.614	2.474	9.710	9.557	9.410	9.270	16.506	16.353	16.206	16.067
1.075	3.135	2.983	2.837	2.697	10.357	10.205	10.059	9.919	17.579	17.427	17.281	17.141
1.064	3.401	3.251	3.105	2.965	11.141	10.990	10.845	10.704	18.880	18.730	18.584	18.443
1.054	3.732	3.584	3.438	3.298	12.118	11.969	11.824	11.683	20.503	20.354	20.209	20.069
1.043	4.167	4.020	3.876	3.735	13.409	13.261	13.117	12.976	22.650	22.503	22.358	22.217
1.032	4.772	4.627	4.483	4.342	15.209	15.063	14.919	14.778	25.645	25.499	25.355	25.214
1.021	5.720	5.575	5.433	5.292	18.035	17.891	17.749	17.608	30.351	30.207	30.064	29.924
1.011	7.604	7.462	7.320	7.180	23.672	23.529	23.388	23.248	39.740	39.597	39.456	39.316
EDGE	ALPHA= 3°			N= .75 CUTOFF NUM.=1.276179								
1.275	.185	.139	.112	.093	4.030	3.984	3.957	3.938	7.875	7.829	7.801	7.783
1.267	.516	.396	.321	.269	4.423	4.304	4.228	4.177	8.330	8.211	8.136	8.084
1.258	.695	.544	.445	.376	4.667	4.517	4.418	4.348	8.640	8.489	8.390	8.321
1.250	.830	.661	.546	.463	4.871	4.702	4.587	4.504	8.912	8.743	8.627	8.545
1.242	.944	.763	.635	.542	5.056	4.875	4.748	4.654	9.168	8.987	8.860	8.766
1.233	1.044	.855	.718	.616	5.231	5.042	4.905	4.803	9.419	9.229	9.092	8.990
1.225	1.136	.942	.797	.687	5.402	5.207	5.063	4.953	9.668	9.473	9.328	9.219
1.217	1.222	1.024	.873	.757	5.571	5.373	5.222	5.105	9.919	9.721	9.570	9.454
1.208	1.305	1.104	.948	.826	5.741	5.540	5.384	5.262	10.176	9.976	9.820	9.698
1.200	1.385	1.183	1.023	.895	5.913	5.711	5.551	5.423	10.441	10.239	10.079	9.951
1.192	1.464	1.261	1.097	.965	6.090	5.887	5.723	5.591	10.716	10.513	10.349	10.217
1.183	1.543	1.340	1.173	1.037	6.273	6.070	5.903	5.767	11.003	10.800	10.633	10.496
1.175	1.623	1.420	1.251	1.111	6.463	6.260	6.091	5.951	11.303	11.100	10.931	10.791
1.167	1.705	1.502	1.331	1.187	6.663	6.460	6.289	6.145	11.621	11.418	11.247	11.103
1.158	1.788	1.586	1.413	1.267	6.873	6.671	6.498	6.351	11.957	11.755	11.582	11.435
1.150	1.875	1.674	1.500	1.350	7.095	6.894	6.720	6.570	12.315	12.114	11.940	11.790
1.142	1.966	1.766	1.590	1.438	7.333	7.133	6.957	6.805	12.699	12.499	12.324	12.171
1.133	2.062	1.863	1.686	1.532	7.587	7.388	7.212	7.057	13.113	12.914	12.737	12.583
1.125	2.164	1.966	1.789	1.632	7.862	7.665	7.487	7.330	13.561	13.363	13.186	13.029
1.117	2.273	2.076	1.899	1.740	8.161	7.965	7.787	7.628	14.049	13.853	13.675	13.516
1.108	2.391	2.196	2.017	1.857	8.488	8.293	8.115	7.954	14.585	14.390	14.212	14.051
1.100	2.520	2.326	2.147	1.985	8.849	8.656	8.477	8.314	15.179	14.985	14.807	14.644
1.092	2.662	2.470	2.291	2.127	9.252	9.059	8.881	8.717	15.842	15.649	15.471	15.306
1.083	2.820	2.630	2.451	2.285	9.705	9.514	9.335	9.170	16.589	16.398	16.220	16.054
1.075	3.000	2.811	2.632	2.465	10.222	10.033	9.854	9.687	17.444	17.255	17.076	16.909
1.067	3.207	3.019	2.841	2.673	10.822	10.634	10.455	10.287	18.436	18.248	18.070	17.902
1.058	3.449	3.263	3.084	2.915	11.527	11.341	11.162	10.993	19.605	19.419	19.240	19.071
1.050	3.742	3.558	3.380	3.209	12.388	12.204	12.026	11.855	21.034	20.849	20.671	20.501
1.042	4.106	3.922	3.745	3.574	13.459	13.276	13.098	12.927	22.812	22.629	22.452	22.281
1.033	4.578	4.396	4.219	4.047	14.857	14.675	14.498	14.326	25.136	24.954	24.777	24.605
1.025	5.235	5.055	4.879	4.706	16.810	16.630	16.453	16.281	28.385	28.205	28.028	27.856
1.017	6.256	6.078	5.902	5.730	19.855	19.677	19.501	19.328	33.454	33.276	33.100	32.927
1.008	8.258	8.082	7.907	7.735	25.839	25.663	25.488	25.316	43.420	43.244	43.069	42.897

EDGE ALPHA= 3° N= .80 CUTOFF NUM.=1.204376

	FUNDAMENTAL MODE				1ST HIGHER MODE				2ND HIGHER MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.200	.441	.336	.270	.226	4.970	4.864	4.798	4.754	9.498	9.392	9.327	9.282
1.194	.679	.526	.427	.359	5.280	5.127	5.028	4.960	9.881	9.728	9.629	9.561
1.187	.848	.667	.546	.461	5.525	5.344	5.223	5.138	10.202	10.021	9.900	9.815
1.181	.986	.786	.649	.551	5.742	5.543	5.406	5.308	10.499	10.299	10.162	10.064
1.175	1.106	.893	.743	.634	5.946	5.733	5.584	5.474	10.786	10.573	10.424	10.314
1.169	1.215	.993	.832	.714	6.142	5.921	5.760	5.641	11.070	10.848	10.688	10.569
1.162	1.316	1.088	.919	.791	6.336	6.108	5.939	5.811	11.356	11.128	10.959	10.831
1.156	1.413	1.179	1.003	.868	6.530	6.297	6.120	5.985	11.648	11.414	11.238	11.102
1.150	1.507	1.270	1.087	.945	6.727	6.490	6.307	6.165	11.947	11.710	11.527	11.385
1.144	1.599	1.359	1.171	1.023	6.928	6.688	6.500	6.351	12.257	12.017	11.829	11.680
1.137	1.690	1.449	1.256	1.102	7.135	6.894	6.701	6.546	12.579	12.338	12.145	11.991
1.131	1.783	1.540	1.343	1.184	7.350	7.108	6.911	6.751	12.917	12.675	12.478	12.318
1.125	1.876	1.633	1.433	1.268	7.575	7.332	7.131	6.967	13.273	13.031	12.830	12.665
1.119	1.972	1.729	1.526	1.357	7.811	7.568	7.365	7.196	13.650	13.407	13.204	13.035
1.112	2.072	1.829	1.622	1.449	8.062	7.819	7.612	7.439	14.052	13.809	13.603	13.429
1.106	2.175	1.933	1.724	1.547	8.328	8.086	7.877	7.700	14.481	14.239	14.030	13.853
1.100	2.284	2.042	1.831	1.650	8.613	8.372	8.161	7.980	14.943	14.701	14.491	14.309
1.094	2.399	2.158	1.946	1.761	8.921	8.680	8.468	8.283	15.443	15.202	14.990	14.805
1.087	2.522	2.282	2.068	1.881	9.255	9.014	8.801	8.613	15.987	15.747	15.533	15.345
1.081	2.655	2.416	2.201	2.010	9.620	9.381	9.166	8.975	16.584	16.345	16.130	15.939
1.075	2.800	2.562	2.346	2.152	10.022	9.784	9.568	9.374	17.244	17.006	16.790	16.596
1.069	2.960	2.723	2.506	2.309	10.470	10.234	10.016	9.820	17.981	17.744	17.527	17.330
1.062	3.137	2.902	2.684	2.485	10.974	10.739	10.521	10.322	18.811	18.576	18.358	18.159
1.056	3.337	3.103	2.885	2.684	11.545	11.311	11.093	10.892	19.754	19.520	19.301	19.100
1.050	3.569	3.336	3.118	2.914	12.215	11.982	11.763	11.560	20.861	20.628	20.409	20.206
1.044	3.839	3.608	3.388	3.183	12.999	12.767	12.548	12.342	22.158	21.927	21.708	21.502
1.037	4.162	3.933	3.713	3.506	13.944	13.715	13.495	13.288	23.726	23.497	23.277	23.070
1.031	4.565	4.337	4.118	3.908	15.130	14.902	14.682	14.473	25.694	25.466	25.247	25.037
1.025	5.082	4.856	4.637	4.425	16.657	16.431	16.212	16.000	28.232	28.006	27.786	27.575
1.019	5.800	5.575	5.356	5.143	18.786	18.561	18.342	18.129	31.772	31.547	31.328	31.115
1.012	6.907	6.685	6.466	6.252	22.084	21.862	21.643	21.429	37.261	37.039	36.820	36.606
1.006	9.048	8.828	8.610	8.395	28.482	28.261	28.043	27.828	47.915	47.695	47.477	47.262

EDGE ALPHA= 3° N= .85 CUTOFF NUM.=1.141025

1.137	.580	.442	.356	.298	6.038	5.900	5.815	5.757	11.497	11.359	11.273	11.215
1.132	.821	.636	.517	.434	6.366	6.181	6.062	5.979	11.912	11.726	11.607	11.524
1.128	1.004	.788	.645	.545	6.640	6.424	6.281	6.180	12.276	12.060	11.917	11.816
1.124	1.158	.921	.759	.644	6.889	6.652	6.490	6.375	12.620	12.382	12.221	12.105
1.119	1.295	1.042	.865	.737	7.126	6.872	6.696	6.567	12.956	12.703	12.526	12.398
1.115	1.421	1.156	.966	.827	7.356	7.091	6.902	6.762	13.292	13.027	12.837	12.698
1.110	1.539	1.265	1.065	.915	7.586	7.311	7.111	6.961	13.632	13.358	13.157	13.007
1.106	1.653	1.372	1.162	1.003	7.816	7.535	7.325	7.166	13.979	13.698	13.488	13.329
1.101	1.764	1.478	1.260	1.092	8.051	7.765	7.546	7.378	14.338	14.051	13.833	13.665
1.097	1.874	1.584	1.358	1.182	8.292	8.002	7.776	7.600	14.710	14.420	14.194	14.018
1.093	1.984	1.690	1.458	1.275	8.542	8.248	8.016	7.833	15.099	14.806	14.574	14.390
1.088	2.095	1.799	1.561	1.371	8.802	8.505	8.268	8.077	15.508	15.212	14.974	14.784
1.084	2.208	1.911	1.668	1.471	9.074	8.777	8.534	8.337	15.940	15.642	15.400	15.203
1.079	2.325	2.026	1.779	1.575	9.362	9.063	8.816	8.613	16.400	16.101	15.853	15.650
1.075	2.446	2.146	1.895	1.686	9.668	9.368	9.117	8.908	16.890	16.590	16.339	16.130
1.071	2.573	2.273	2.018	1.803	9.995	9.695	9.440	9.225	17.417	17.117	16.862	16.647
1.066	2.707	2.407	2.148	1.928	10.347	10.047	9.788	9.568	17.987	17.686	17.428	17.208
1.062	2.850	2.550	2.288	2.063	10.728	10.428	10.166	9.941	18.606	18.306	18.044	17.819
1.057	3.002	2.703	2.439	2.209	11.141	10.841	10.577	10.347	19.279	18.980	18.716	18.486
1.053	3.169	2.870	2.603	2.369	11.597	11.299	11.032	10.798	20.026	19.728	19.461	19.227
1.049	3.353	3.055	2.786	2.547	12.112	11.814	11.545	11.306	20.870	20.572	20.304	20.065
1.044	3.556	3.259	2.988	2.745	12.683	12.386	12.115	11.872	21.810	21.513	21.242	20.999
1.040	3.784	3.488	3.216	2.969	13.332	13.036	12.764	12.517	22.880	22.584	22.312	22.064
1.035	4.046	3.751	3.477	3.226	14.081	13.786	13.513	13.262	24.117	23.822	23.548	23.297
1.031	4.352	4.059	3.784	3.529	14.969	14.676	14.401	14.146	25.586	25.293	25.018	24.763
1.026	4.717	4.425	4.149	3.891	16.032	15.740	15.464	15.205	27.347	27.055	26.779	26.520
1.022	5.163	4.873	4.596	4.334	17.337	17.046	16.769	16.508	29.510	29.220	28.943	28.681
1.018	5.741	5.452	5.175	4.910	19.040	18.751	18.474	18.209	32.339	32.050	31.773	31.507
1.013	6.533	6.246	5.968	5.700	21.385	21.098	20.819	20.551	36.236	35.949	35.671	35.403
1.009	7.738	7.454	7.175	6.904	24.969	24.685	24.406	24.135	42.200	41.915	41.637	41.366
1.004	10.048	9.765	9.486	9.212	31.866	31.583	31.304	31.030	53.684	53.401	53.123	52.848

E D G E ALPHA= 3° N= .90 CUTOFF NUM.=1.085094

	FUNDAMENTAL MODE				1 ST HIGHER MODE				2 ND HIGHER MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.083	.562	.425	.342	.285	7.446	7.310	7.226	7.170	14.330	14.194	14.110	14.054
1.081	.899	.690	.559	.468	7.890	7.682	7.550	7.460	14.882	14.673	14.542	14.452
1.078	1.139	.887	.722	.608	8.243	7.991	7.826	7.712	15.347	15.095	14.930	14.816
1.075	1.339	1.054	.865	.731	8.561	8.276	8.087	7.953	15.782	15.498	15.309	15.175
1.072	1.514	1.207	.996	.846	8.860	8.553	8.342	8.192	16.206	15.899	15.688	15.538
1.069	1.675	1.350	1.121	.956	9.152	8.826	8.598	8.432	16.629	16.303	16.075	15.909
1.067	1.827	1.487	1.243	1.064	9.442	9.101	8.858	8.678	17.056	16.716	16.472	16.293
1.064	1.972	1.621	1.364	1.171	9.733	9.381	9.124	8.932	17.494	17.142	16.885	16.693
1.061	2.114	1.753	1.484	1.280	10.030	9.669	9.400	9.196	17.945	17.584	17.315	17.111
1.058	2.254	1.886	1.606	1.391	10.332	9.964	9.684	9.469	18.410	18.042	17.762	17.547
1.056	2.394	2.020	1.731	1.505	10.648	10.273	9.984	9.758	18.901	18.526	18.237	18.011
1.053	2.538	2.158	1.860	1.624	10.982	10.603	10.304	10.069	19.426	19.047	18.749	18.513
1.050	2.683	2.299	1.993	1.748	11.329	10.945	10.639	10.394	19.974	19.591	19.285	19.040
1.047	2.832	2.446	2.132	1.878	11.695	11.309	10.995	10.741	20.558	20.172	19.858	19.604
1.044	2.988	2.599	2.279	2.016	12.086	11.697	11.377	11.114	21.184	20.795	20.475	20.212
1.042	3.151	2.761	2.434	2.163	12.504	12.114	11.787	11.516	21.858	21.467	21.141	20.870
1.039	3.324	2.932	2.600	2.321	12.956	12.565	12.232	11.954	22.589	22.197	21.865	21.586
1.036	3.509	3.116	2.779	2.492	13.448	13.055	12.718	12.431	23.387	22.995	22.657	22.371
1.033	3.708	3.315	2.973	2.679	13.987	13.594	13.252	12.958	24.266	23.873	23.531	23.237
1.031	3.928	3.535	3.188	2.886	14.592	14.199	13.852	13.550	25.256	24.862	24.516	24.214
1.028	4.169	3.776	3.425	3.117	15.262	14.869	14.518	14.209	26.355	25.962	25.611	25.302
1.025	4.436	4.044	3.689	3.374	16.011	15.619	15.264	14.949	27.586	27.193	26.839	26.524
1.022	4.742	4.350	3.993	3.671	16.880	16.488	16.130	15.808	29.018	28.626	28.268	27.946
1.019	5.097	4.706	4.346	4.017	17.898	17.507	17.146	16.818	30.699	30.308	29.947	29.619
1.017	5.519	5.129	4.765	4.430	19.118	18.728	18.364	18.029	32.717	32.326	31.963	31.628
1.014	6.033	5.645	5.278	4.937	20.616	20.228	19.861	19.520	35.199	34.811	34.444	34.103
1.011	6.691	6.304	5.935	5.587	22.546	22.159	21.790	21.442	38.401	38.014	37.645	37.297
1.008	7.576	7.191	6.820	6.467	25.157	24.772	24.401	24.048	42.738	42.353	41.982	41.629
1.006	8.923	8.539	8.166	7.806	29.156	28.772	28.399	28.039	49.388	49.004	48.631	48.272
1.003	11.389	11.007	10.633	10.267	36.505	36.123	35.749	35.383	61.621	61.240	60.865	60.499
E D G E	ALPHA=	4°		N= .70	CUTOFF NUM.=1.336700							
1.332	.318	.241	.194	.162	3.775	3.698	3.651	3.619	7.232	7.155	7.108	7.076
1.321	.565	.440	.359	.302	4.083	3.958	3.876	3.819	7.600	7.475	7.394	7.337
1.311	.721	.573	.472	.400	4.302	4.154	4.053	3.981	7.883	7.735	7.634	7.562
1.300	.842	.681	.567	.484	4.489	4.328	4.215	4.132	8.137	7.976	7.862	7.779
1.289	.944	.776	.652	.560	4.661	4.493	4.370	4.278	8.378	8.210	8.087	7.995
1.279	1.035	.862	.732	.632	4.825	4.652	4.522	4.423	8.616	8.443	8.313	8.214
1.268	1.118	.943	.807	.702	4.986	4.811	4.675	4.570	8.854	8.679	8.543	8.438
1.257	1.197	1.020	.881	.770	5.147	4.970	4.830	4.720	9.097	8.920	8.780	8.669
1.246	1.273	1.096	.953	.838	5.310	5.132	4.989	4.874	9.346	9.168	9.025	8.910
1.236	1.348	1.171	1.026	.907	5.476	5.299	5.153	5.034	9.604	9.426	9.281	9.162
1.225	1.423	1.246	1.099	.976	5.648	5.471	5.324	5.201	9.873	9.696	9.549	9.426
1.214	1.497	1.322	1.173	1.048	5.826	5.651	5.502	5.377	10.156	9.980	9.831	9.706
1.204	1.574	1.399	1.249	1.121	6.014	5.840	5.689	5.561	10.454	10.280	10.130	10.002
1.193	1.652	1.479	1.328	1.198	6.212	6.039	5.888	5.758	10.771	10.598	10.447	10.317
1.182	1.734	1.562	1.411	1.278	6.422	6.250	6.099	5.967	11.110	10.939	10.787	10.655
1.171	1.819	1.649	1.497	1.363	6.647	6.477	6.325	6.191	11.474	11.304	11.152	11.018
1.161	1.910	1.741	1.589	1.453	6.889	6.720	6.568	6.432	11.868	11.699	11.547	11.411
1.150	2.006	1.839	1.687	1.550	7.151	6.984	6.832	6.695	12.296	12.129	11.976	11.839
1.139	2.110	1.944	1.792	1.654	7.437	7.271	7.119	6.981	12.764	12.598	12.446	12.308
1.129	2.223	2.059	1.907	1.768	7.752	7.588	7.436	7.297	13.281	13.117	12.965	12.826
1.118	2.347	2.185	2.033	1.893	8.102	7.940	7.788	7.648	13.857	13.695	13.543	13.403
1.107	2.485	2.325	2.174	2.033	8.495	8.335	8.184	8.043	14.505	14.345	14.194	14.053
1.096	2.641	2.482	2.332	2.190	8.943	8.784	8.633	8.492	15.244	15.085	14.935	14.793
1.086	2.820	2.663	2.512	2.370	9.459	9.302	9.152	9.010	16.099	15.941	15.791	15.649
1.075	3.029	2.873	2.723	2.581	10.067	9.911	9.761	9.619	17.104	16.949	16.799	16.657
1.064	3.279	3.125	2.977	2.834	10.802	10.648	10.499	10.356	18.324	18.170	18.021	17.878
1.054	3.589	3.436	3.289	3.146	11.712	11.560	11.412	11.269	19.835	19.683	19.535	19.392
1.043	3.990	3.839	3.692	3.549	12.898	12.747	12.600	12.457	21.806	21.655	21.508	21.365
1.032	4.542	4.393	4.247	4.104	14.537	14.389	14.242	14.100	24.533	24.384	24.238	24.095
1.021	5.391	5.244	5.099	4.957	17.068	16.921	16.776	16.633	28.745	28.598	28.453	28.310
1.011	7.029	6.885	6.741	6.599	21.962	21.818	21.674	21.532	36.896	36.751	36.608	36.465

EDGE ALPHA= 4° N= .75 CUTOFF NUM.=1.258950

	FUNDAMENTAL MODE				1ST HIGHER MODE				2ND HIGHER MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.258	.141	.106	.085	.071	4.082	4.046	4.025	4.011	8.022	7.987	7.966	7.952
1.250	.526	.404	.327	.275	4.533	4.411	4.334	4.281	8.539	8.418	8.341	8.288
1.242	.718	.563	.461	.389	4.794	4.639	4.537	4.465	8.870	8.715	8.613	8.541
1.233	.862	.688	.568	.482	5.011	4.837	4.717	4.631	9.160	8.985	8.866	8.780
1.225	.983	.796	.663	.566	5.208	5.021	4.888	4.792	9.433	9.246	9.114	9.017
1.217	1.089	.894	.751	.645	5.394	5.199	5.057	4.951	9.699	9.504	9.362	9.256
1.208	1.185	.985	.835	.721	5.575	5.375	5.225	5.111	9.965	9.765	9.615	9.501
1.200	1.277	1.073	.916	.796	5.756	5.552	5.396	5.275	10.235	10.031	9.875	9.754
1.192	1.364	1.158	.997	.870	5.937	5.732	5.570	5.443	10.511	10.305	10.144	10.017
1.183	1.449	1.242	1.077	.944	6.123	5.916	5.750	5.618	10.796	10.589	10.424	10.291
1.175	1.534	1.326	1.157	1.020	6.314	6.106	5.937	5.800	11.094	10.886	10.717	10.580
1.167	1.619	1.411	1.239	1.098	6.512	6.304	6.133	5.991	11.405	11.198	11.026	10.884
1.158	1.705	1.498	1.323	1.178	6.720	6.512	6.338	6.193	11.734	11.527	11.353	11.207
1.150	1.793	1.587	1.411	1.262	6.938	6.731	6.555	6.406	12.083	11.876	11.700	11.551
1.142	1.885	1.679	1.501	1.349	7.170	6.964	6.786	6.634	12.455	12.249	12.071	11.919
1.133	1.980	1.776	1.597	1.442	7.417	7.212	7.033	6.878	12.853	12.649	12.470	12.315
1.125	2.081	1.878	1.698	1.540	7.682	7.479	7.299	7.141	13.284	13.080	12.900	12.743
1.117	2.188	1.986	1.805	1.645	7.970	7.768	7.587	7.427	13.751	13.549	13.369	13.209
1.108	2.303	2.102	1.921	1.759	8.283	8.082	7.901	7.739	14.263	14.063	13.881	13.719
1.100	2.428	2.229	2.047	1.883	8.628	8.429	8.247	8.083	14.827	14.628	14.447	14.283
1.092	2.565	2.367	2.185	2.019	9.010	8.812	8.630	8.465	15.455	15.258	15.076	14.910
1.083	2.716	2.520	2.338	2.171	9.438	9.243	9.060	8.893	16.160	15.965	15.783	15.615
1.075	2.887	2.693	2.511	2.342	9.925	9.731	9.549	9.380	16.963	16.769	16.587	16.418
1.067	3.083	2.890	2.709	2.538	10.489	10.297	10.115	9.945	17.896	17.703	17.521	17.351
1.058	3.311	3.120	2.938	2.767	11.149	10.959	10.777	10.606	18.988	18.797	18.616	18.444
1.050	3.585	3.396	3.215	3.042	11.951	11.761	11.580	11.408	20.316	20.127	19.946	19.773
1.042	3.919	3.732	3.551	3.378	12.929	12.742	12.561	12.388	21.940	21.753	21.572	21.399
1.033	4.351	4.165	3.985	3.811	14.204	14.019	13.838	13.664	24.057	23.872	23.692	23.518
1.025	4.944	4.760	4.581	4.407	15.962	15.779	15.599	15.425	26.980	26.797	26.617	26.443
1.017	5.847	5.666	5.488	5.313	18.649	18.468	18.290	18.115	31.452	31.270	31.092	30.917
1.008	7.560	7.381	7.205	7.030	23.763	23.585	23.408	23.233	39.966	39.788	39.611	39.436

EDGE ALPHA= 4° N= .80 CUTOFF NUM.=1.190611

1.187	.391	.297	.238	.199	5.014	4.919	4.861	4.822	9.637	9.542	9.484	9.445
1.181	.670	.517	.420	.353	5.369	5.217	5.119	5.052	10.069	9.916	9.819	9.751
1.175	.856	.672	.550	.465	5.636	5.452	5.330	5.245	10.416	10.232	10.110	10.024
1.169	1.005	.801	.662	.562	5.869	5.665	5.526	5.426	10.734	10.530	10.390	10.290
1.162	1.134	.916	.763	.651	6.087	5.869	5.716	5.604	11.040	10.822	10.669	10.557
1.156	1.250	1.023	.858	.736	6.297	6.069	5.904	5.782	11.343	11.115	10.951	10.828
1.150	1.359	1.124	.950	.819	6.503	6.269	6.095	5.964	11.648	11.414	11.240	11.108
1.144	1.462	1.222	1.041	.901	6.711	6.471	6.290	6.150	11.960	11.720	11.538	11.399
1.137	1.562	1.319	1.131	.984	6.921	6.678	6.490	6.343	12.280	12.037	11.849	11.702
1.131	1.660	1.415	1.221	1.068	7.136	6.891	6.697	6.544	12.613	12.367	12.174	12.020
1.125	1.758	1.511	1.313	1.153	7.359	7.113	6.914	6.755	12.961	12.714	12.516	12.356
1.119	1.857	1.609	1.407	1.242	7.592	7.345	7.142	6.977	13.327	13.080	12.877	12.712
1.112	1.958	1.710	1.504	1.334	7.837	7.589	7.383	7.212	13.715	13.467	13.261	13.091
1.106	2.062	1.814	1.605	1.430	8.095	7.847	7.638	7.463	14.128	13.880	13.671	13.496
1.100	2.171	1.923	1.711	1.532	8.370	8.123	7.911	7.732	14.570	14.323	14.111	13.932
1.094	2.284	2.038	1.824	1.640	8.666	8.419	8.205	8.022	15.047	14.800	14.586	14.403
1.087	2.405	2.159	1.943	1.756	8.984	8.738	8.523	8.336	15.564	15.318	15.102	14.915
1.081	2.534	2.289	2.072	1.881	9.331	9.086	8.869	8.678	16.128	15.883	15.666	15.475
1.075	2.673	2.430	2.211	2.017	9.711	9.468	9.249	9.055	16.749	16.506	16.287	16.093
1.069	2.824	2.582	2.362	2.166	10.127	9.885	9.665	9.469	17.431	17.188	16.969	16.772
1.062	2.995	2.754	2.534	2.334	10.608	10.367	10.146	9.947	18.221	17.980	17.759	17.560
1.056	3.185	2.945	2.724	2.521	11.144	10.905	10.683	10.481	19.103	18.864	18.642	18.440
1.050	3.403	3.165	2.942	2.737	11.768	11.530	11.308	11.103	20.134	19.896	19.673	19.468
1.044	3.652	3.416	3.193	2.986	12.486	12.250	12.027	11.820	21.320	21.084	20.861	20.654
1.037	3.950	3.716	3.493	3.284	13.352	13.118	12.895	12.686	22.754	22.519	22.297	22.087
1.031	4.317	4.084	3.861	3.650	14.423	14.191	13.968	13.757	24.530	24.297	24.075	23.863
1.025	4.786	4.555	4.332	4.119	15.804	15.573	15.351	15.137	26.822	26.591	26.369	26.155
1.019	5.423	5.195	4.973	4.758	17.689	17.461	17.239	17.024	29.955	29.727	29.505	29.290
1.012	6.389	6.163	5.941	5.725	20.559	20.332	20.111	19.895	34.728	34.502	34.280	34.064
1.006	8.205	7.981	7.761	7.543	25.978	25.754	25.533	25.316	43.751	43.527	43.306	43.089

EDGE ALPHA= 4° N= .85 CUTOFF NUM.=1.130357

	FUNDAMENTAL MODE				1ST HIGHER MODE				2ND HIGHER MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.128	.459	.348	.279	.233	6.000	5.889	5.821	5.775	11.542	11.431	11.362	11.317
1.124	.765	.589	.478	.401	6.397	6.221	6.110	6.033	12.029	11.853	11.742	11.665
1.119	.976	.763	.623	.526	6.703	6.490	6.350	6.253	12.430	12.217	12.077	11.980
1.115	1.148	.910	.749	.635	6.975	6.737	6.576	6.461	12.801	12.563	12.402	12.288
1.110	1.298	1.042	.864	.735	7.229	6.974	6.796	6.667	13.161	12.905	12.727	12.599
1.106	1.434	1.165	.973	.832	7.477	7.208	7.016	6.874	13.519	13.250	13.058	12.917
1.101	1.562	1.283	1.079	.927	7.721	7.442	7.239	7.086	13.881	13.602	13.398	13.246
1.097	1.685	1.398	1.184	1.022	7.968	7.681	7.467	7.305	14.251	13.964	13.750	13.588
1.093	1.804	1.511	1.289	1.117	8.219	7.926	7.703	7.532	14.633	14.341	14.118	13.947
1.088	1.921	1.625	1.394	1.214	8.477	8.180	7.949	7.769	15.032	14.735	14.504	14.324
1.084	2.039	1.740	1.502	1.314	8.744	8.444	8.207	8.019	15.449	15.149	14.912	14.724
1.079	2.159	1.857	1.613	1.418	9.024	8.722	8.479	8.283	15.889	15.587	15.344	15.148
1.075	2.281	1.977	1.729	1.526	9.319	9.015	8.767	8.564	16.357	16.053	15.805	15.602
1.071	2.406	2.102	1.849	1.640	9.627	9.323	9.070	8.861	16.849	16.544	16.291	16.082
1.066	2.540	2.235	1.977	1.762	9.970	9.665	9.407	9.192	17.400	17.094	16.837	16.621
1.062	2.679	2.374	2.113	1.892	10.331	10.025	9.764	9.543	17.982	17.676	17.415	17.194
1.057	2.828	2.522	2.258	2.031	10.722	10.417	10.153	9.926	18.617	18.312	18.047	17.821
1.053	2.989	2.684	2.417	2.185	11.158	10.853	10.585	10.353	19.326	19.021	18.754	18.522
1.049	3.163	2.859	2.589	2.352	11.633	11.329	11.058	10.821	20.102	19.798	19.528	19.291
1.044	3.353	3.050	2.778	2.536	12.157	11.854	11.581	11.340	20.961	20.658	20.385	20.144
1.040	3.566	3.264	2.990	2.744	12.755	12.453	12.178	11.932	21.943	21.641	21.366	21.120
1.035	3.809	3.508	3.232	2.981	13.441	13.140	12.864	12.614	23.073	22.773	22.496	22.246
1.031	4.089	3.790	3.512	3.257	14.243	13.944	13.666	13.411	24.397	24.097	23.820	23.565
1.026	4.421	4.123	3.844	3.585	15.201	14.903	14.624	14.365	25.981	25.683	25.404	25.145
1.022	4.825	4.529	4.249	3.986	16.375	16.079	15.799	15.537	27.926	27.630	27.350	27.088
1.018	5.337	5.044	4.763	4.497	17.878	17.584	17.303	17.037	30.418	30.124	29.843	29.577
1.013	6.026	5.735	5.453	5.184	19.907	19.615	19.334	19.065	33.787	33.495	33.214	32.945
1.009	7.067	6.778	6.496	6.223	22.995	22.706	22.424	22.151	38.923	38.634	38.352	38.079
1.004	8.965	8.679	8.397	8.121	28.650	28.363	28.082	27.806	48.335	48.048	47.766	47.490

EDGE ALPHA= 4° N= .90 CUTOFF NUM.=1.077338

1.075	.677	.515	.414	.347	7.715	7.553	7.452	7.385	14.753	14.591	14.490	14.423
1.072	.999	.770	.625	.525	8.153	7.924	7.779	7.678	15.306	15.078	14.932	14.832
1.069	1.239	.969	.791	.667	8.511	8.241	8.063	7.939	15.783	15.512	15.335	15.211
1.067	1.443	1.143	.940	.796	8.849	8.549	8.346	8.202	16.256	15.955	15.753	15.609
1.064	1.624	1.302	1.078	.917	9.167	8.844	8.620	8.459	16.709	16.386	16.162	16.001
1.061	1.792	1.452	1.211	1.034	9.478	9.138	8.897	8.720	17.164	16.824	16.582	16.406
1.058	1.952	1.598	1.341	1.150	9.790	9.436	9.180	8.989	17.629	17.275	17.018	16.828
1.056	2.106	1.741	1.471	1.267	10.107	9.742	9.472	9.268	18.107	17.743	17.473	17.269
1.053	2.259	1.886	1.604	1.387	10.438	10.065	9.783	9.567	18.617	18.244	17.962	17.746
1.050	2.411	2.031	1.738	1.510	10.776	10.396	10.103	9.876	19.142	18.762	18.469	18.241
1.047	2.564	2.179	1.876	1.638	11.130	10.745	10.442	10.204	19.696	19.310	19.008	18.769
1.044	2.719	2.330	2.019	1.771	11.497	11.108	10.797	10.548	20.274	19.885	19.574	19.325
1.042	2.881	2.489	2.170	1.912	11.892	11.499	11.180	10.922	20.903	20.510	20.191	19.933
1.039	3.050	2.655	2.329	2.062	12.316	11.921	11.595	11.327	21.581	21.186	20.860	20.593
1.036	3.229	2.832	2.500	2.223	12.774	12.377	12.044	11.768	22.318	21.922	21.589	21.313
1.033	3.419	3.021	2.683	2.398	13.272	12.875	12.536	12.251	23.126	22.728	22.389	22.104
1.031	3.625	3.226	2.882	2.589	13.821	13.423	13.079	12.785	24.017	23.619	23.275	22.981
1.028	3.850	3.451	3.102	2.801	14.431	14.032	13.683	13.382	25.012	24.614	24.265	23.963
1.025	4.099	3.700	3.347	3.037	15.117	14.718	14.365	14.055	26.135	25.736	25.383	25.073
1.022	4.379	3.980	3.623	3.306	15.897	15.499	15.141	14.825	27.416	27.018	26.660	26.343
1.019	4.699	4.301	3.940	3.616	16.802	16.404	16.043	15.719	28.904	28.507	28.145	27.821
1.017	5.076	4.679	4.314	3.983	17.878	17.481	17.117	16.785	30.680	30.284	29.919	29.588
1.014	5.540	5.144	4.776	4.437	19.224	18.828	18.460	18.121	32.908	32.512	32.143	31.804
1.011	6.102	5.708	5.338	4.992	20.853	20.460	20.089	19.744	35.604	35.211	34.840	34.495
1.008	6.855	6.464	6.091	5.739	23.058	22.667	22.294	21.942	39.261	38.870	38.497	38.146
1.006	7.987	7.597	7.221	6.861	26.406	26.016	25.640	25.281	44.826	44.436	44.060	43.700
1.003	9.973	9.586	9.208	8.841	32.310	31.923	31.545	31.178	54.647	54.260	53.882	53.515

EDGE ALPHA= 5° N= .70 CUTOFF NUM.=1.316521

	FUNDAMENTAL MODE				1ST HIGHER MODE				2ND HIGHER MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.311	.377	.287	.231	.194	3.939	3.850	3.794	3.757	7.502	7.413	7.357	7.319
1.300	.617	.482	.394	.332	4.245	4.110	4.022	3.960	7.873	7.738	7.650	7.588
1.289	.774	.618	.511	.434	4.471	4.314	4.207	4.130	8.167	8.011	7.904	7.827
1.279	.898	.730	.610	.521	4.666	4.498	4.378	4.290	8.434	8.266	8.146	8.058
1.268	1.003	.828	.699	.602	4.847	4.672	4.543	4.446	8.691	8.516	8.387	8.289
1.257	1.098	.919	.783	.678	5.021	4.842	4.706	4.602	8.945	8.766	8.630	8.525
1.246	1.185	1.004	.863	.752	5.193	5.012	4.871	4.760	9.201	9.020	8.878	8.768
1.236	1.268	1.086	.941	.825	5.365	5.183	5.038	4.922	9.462	9.281	9.135	9.019
1.225	1.349	1.167	1.019	.899	5.541	5.359	5.211	5.090	9.733	9.551	9.403	9.282
1.214	1.429	1.247	1.097	.973	5.722	5.540	5.390	5.266	10.015	9.833	9.683	9.559
1.204	1.509	1.328	1.176	1.048	5.909	5.729	5.577	5.449	10.310	10.130	9.978	9.850
1.193	1.590	1.411	1.257	1.127	6.106	5.927	5.774	5.643	10.623	10.444	10.290	10.160
1.182	1.673	1.495	1.341	1.208	6.314	6.136	5.981	5.849	10.954	10.777	10.622	10.489
1.171	1.759	1.583	1.428	1.293	6.535	6.358	6.203	6.068	11.310	11.134	10.979	10.844
1.161	1.850	1.675	1.520	1.383	6.771	6.597	6.441	6.304	11.693	11.518	11.363	11.226
1.150	1.946	1.773	1.617	1.479	7.026	6.854	6.698	6.559	12.107	11.934	11.779	11.640
1.139	2.048	1.877	1.722	1.581	7.304	7.133	6.977	6.837	12.560	12.389	12.233	12.093
1.129	2.159	1.990	1.834	1.693	7.608	7.439	7.284	7.142	13.058	12.888	12.733	12.592
1.118	2.280	2.113	1.957	1.815	7.945	7.778	7.622	7.480	13.610	13.443	13.287	13.145
1.107	2.414	2.248	2.093	1.950	8.321	8.156	8.001	7.858	14.229	14.064	13.909	13.766
1.096	2.565	2.401	2.247	2.103	8.752	8.588	8.434	8.290	14.939	14.775	14.621	14.477
1.086	2.736	2.574	2.421	2.276	9.244	9.082	8.928	8.784	15.751	15.590	15.436	15.291
1.075	2.934	2.774	2.621	2.476	9.815	9.655	9.502	9.357	16.696	16.536	16.383	16.238
1.064	3.172	3.014	2.862	2.716	10.510	10.352	10.199	10.054	17.848	17.689	17.537	17.392
1.054	3.462	3.306	3.155	3.009	11.361	11.205	11.054	10.908	19.260	19.104	18.953	18.807
1.043	3.835	3.681	3.531	3.385	12.460	12.305	12.155	12.010	21.084	20.930	20.780	20.634
1.032	4.343	4.190	4.041	3.896	13.962	13.810	13.661	13.516	23.582	23.430	23.281	23.136
1.021	5.111	4.961	4.813	4.668	16.247	16.097	15.949	15.804	27.383	27.233	27.085	26.940
1.011	6.544	6.397	6.252	6.108	20.524	20.377	20.232	20.087	34.504	34.357	34.211	34.067
EDGE	ALPHA=	5°		N= .75	CUTOFF NUM.=1.242554							
1.242	.178	.134	.107	.089	4.225	4.181	4.154	4.136	8.272	8.228	8.201	8.183
1.233	.561	.432	.350	.294	4.678	4.549	4.468	4.411	8.796	8.667	8.585	8.529
1.225	.759	.597	.489	.413	4.951	4.789	4.681	4.605	9.143	8.981	8.873	8.797
1.217	.909	.728	.602	.512	5.179	4.997	4.872	4.782	9.449	9.267	9.142	9.052
1.208	1.035	.841	.702	.601	5.387	5.193	5.054	4.953	9.739	9.545	9.406	9.305
1.200	1.146	.944	.796	.684	5.584	5.382	5.234	5.123	10.023	9.821	9.673	9.561
1.192	1.247	1.041	.885	.765	5.777	5.571	5.415	5.295	10.307	10.101	9.945	9.825
1.183	1.343	1.134	.971	.845	5.970	5.760	5.598	5.471	10.596	10.387	10.224	10.098
1.175	1.436	1.225	1.057	.925	6.165	5.954	5.786	5.654	10.895	10.683	10.516	10.383
1.167	1.527	1.315	1.143	1.005	6.366	6.153	5.982	5.844	11.204	10.992	10.821	10.683
1.158	1.618	1.405	1.230	1.087	6.573	6.361	6.186	6.043	11.529	11.316	11.141	10.999
1.150	1.709	1.497	1.319	1.172	6.790	6.578	6.400	6.253	11.871	11.658	11.481	11.334
1.142	1.803	1.591	1.411	1.260	7.018	6.806	6.627	6.476	12.233	12.022	11.842	11.691
1.133	1.899	1.689	1.507	1.353	7.260	7.049	6.868	6.714	12.621	12.410	12.229	12.074
1.125	2.000	1.791	1.608	1.450	7.519	7.309	7.126	6.969	13.037	12.828	12.645	12.487
1.117	2.106	1.898	1.714	1.554	7.797	7.589	7.405	7.245	13.487	13.279	13.096	12.935
1.108	2.219	2.013	1.828	1.665	8.099	7.892	7.708	7.545	13.978	13.771	13.587	13.424
1.100	2.342	2.137	1.952	1.787	8.432	8.227	8.042	7.877	14.523	14.318	14.133	13.967
1.092	2.475	2.272	2.086	1.919	8.798	8.595	8.410	8.242	15.122	14.919	14.733	14.566
1.083	2.622	2.420	2.234	2.065	9.208	9.006	8.820	8.651	15.794	15.592	15.406	15.237
1.075	2.784	2.585	2.399	2.228	9.665	9.466	9.280	9.109	16.547	16.347	16.162	15.991
1.067	2.971	2.774	2.588	2.416	10.200	10.002	9.817	9.644	17.429	17.231	17.045	16.873
1.058	3.187	2.991	2.806	2.632	10.820	10.624	10.439	10.265	18.453	18.258	18.072	17.899
1.050	3.443	3.249	3.064	2.889	11.561	11.368	11.183	11.008	19.680	19.486	19.301	19.127
1.042	3.755	3.564	3.379	3.204	12.475	12.283	12.098	11.923	21.194	21.002	20.818	20.642
1.033	4.153	3.964	3.780	3.603	13.643	13.454	13.270	13.094	23.134	22.944	22.760	22.584
1.025	4.693	4.506	4.323	4.146	15.239	15.052	14.869	14.692	25.785	25.598	25.415	25.238
1.017	5.503	5.318	5.137	4.959	17.643	17.459	17.277	17.100	29.784	29.599	29.417	29.240
1.008	7.008	6.826	6.646	6.469	22.133	21.951	21.771	21.594	37.258	37.076	36.896	36.718

EDGE ALPHA= 5° N= .80 CUTOFF NUM.=1.177511

	FUNDAMENTAL MODE				1ST HIGHER MODE				2ND HIGHER MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.175	.370	.280	.225	.188	5.099	5.009	4.954	4.917	9.828	9.738	9.683	9.646
1.169	.680	.525	.426	.358	5.491	5.336	5.237	5.169	10.302	10.147	10.048	9.979
1.162	.881	.692	.567	.479	5.777	5.588	5.463	5.375	10.673	10.484	10.359	10.271
1.156	1.040	.830	.686	.582	6.026	5.816	5.672	5.568	11.012	10.802	10.658	10.554
1.150	1.177	.952	.794	.677	6.257	6.033	5.874	5.758	11.338	11.114	10.955	10.839
1.144	1.300	1.066	.895	.768	6.481	6.247	6.076	5.949	11.661	11.427	11.257	11.130
1.137	1.415	1.174	.994	.857	6.701	6.460	6.280	6.144	11.988	11.747	11.567	11.431
1.131	1.524	1.278	1.090	.946	6.923	6.677	6.489	6.345	12.322	12.076	11.888	11.744
1.125	1.631	1.381	1.187	1.034	7.149	6.900	6.706	6.553	12.668	12.419	12.224	12.072
1.119	1.736	1.484	1.284	1.125	7.382	7.131	6.931	6.771	13.028	12.777	12.577	12.417
1.112	1.841	1.588	1.384	1.218	7.624	7.371	7.166	7.001	13.406	13.154	12.949	12.784
1.106	1.948	1.695	1.486	1.315	7.877	7.624	7.415	7.244	13.807	13.554	13.345	13.174
1.100	2.059	1.805	1.593	1.417	8.149	7.896	7.683	7.507	14.239	13.986	13.774	13.597
1.094	2.173	1.920	1.705	1.523	8.435	8.182	7.967	7.786	14.698	14.445	14.230	14.049
1.087	2.293	2.040	1.823	1.637	8.743	8.491	8.273	8.087	15.193	14.941	14.724	14.538
1.081	2.420	2.168	1.949	1.759	9.077	8.825	8.605	8.416	15.733	15.482	15.262	15.072
1.075	2.555	2.305	2.083	1.890	9.436	9.186	8.964	8.771	16.317	16.067	15.846	15.652
1.069	2.703	2.454	2.232	2.034	9.841	9.592	9.369	9.172	16.978	16.729	16.507	16.309
1.062	2.866	2.618	2.394	2.194	10.288	10.041	9.816	9.616	17.710	17.463	17.239	17.038
1.056	3.046	2.800	2.575	2.372	10.792	10.546	10.321	10.118	18.538	18.292	18.067	17.864
1.050	3.250	3.006	2.781	2.574	11.369	11.125	10.899	10.693	19.488	19.244	19.018	18.812
1.044	3.486	3.244	3.017	2.809	12.041	11.799	11.573	11.364	20.597	20.355	20.129	19.920
1.037	3.763	3.523	3.297	3.086	12.842	12.602	12.375	12.164	21.920	21.680	21.454	21.243
1.031	4.101	3.863	3.636	3.423	13.822	13.584	13.358	13.144	23.543	23.305	23.079	22.865
1.025	4.529	4.293	4.067	3.851	15.075	14.839	14.613	14.397	25.621	25.385	25.159	24.943
1.019	5.103	4.870	4.644	4.427	16.766	16.533	16.307	16.090	28.429	28.196	27.970	27.753
1.012	5.971	5.740	5.515	5.295	19.342	19.111	18.885	18.666	32.713	32.482	32.256	32.037
1.006	7.511	7.284	7.060	6.840	23.923	23.696	23.472	23.252	40.335	40.108	39.884	39.664

EDGE ALPHA= 5° N= .85 CUTOFF NUM.=1.120225

1.119	.327	.246	.197	.165	5.965	5.885	5.836	5.803	11.604	11.523	11.474	11.442
1.115	.723	.555	.449	.376	6.456	6.288	6.182	6.109	12.190	12.021	11.915	11.843
1.110	.963	.751	.613	.516	6.796	6.584	6.446	6.349	12.629	12.417	12.279	12.183
1.106	1.152	.912	.750	.635	7.091	6.851	6.689	6.574	13.029	12.789	12.627	12.512
1.101	1.316	1.056	.875	.745	7.368	7.108	6.927	6.796	13.420	13.159	12.979	12.848
1.097	1.463	1.189	.993	.849	7.633	7.358	7.162	7.018	13.803	13.528	13.332	13.188
1.093	1.601	1.315	1.107	.951	7.895	7.610	7.401	7.245	14.190	13.905	13.696	13.540
1.088	1.732	1.439	1.219	1.053	8.159	7.866	7.647	7.480	14.587	14.294	14.074	13.908
1.084	1.860	1.561	1.332	1.155	8.430	8.130	7.902	7.725	14.999	14.700	14.471	14.295
1.079	1.987	1.683	1.446	1.261	8.708	8.405	8.168	7.982	15.429	15.126	14.889	14.703
1.075	2.113	1.806	1.563	1.369	8.994	8.688	8.444	8.250	15.875	15.569	15.325	15.131
1.071	2.243	1.934	1.684	1.482	9.303	8.994	8.744	8.542	16.363	16.054	15.804	15.602
1.066	2.376	2.066	1.811	1.601	9.627	9.317	9.061	8.852	16.877	16.567	16.312	16.102
1.062	2.515	2.204	1.944	1.728	9.973	9.662	9.402	9.186	17.431	17.120	16.860	16.644
1.057	2.661	2.350	2.085	1.863	10.347	10.035	9.771	9.548	18.032	17.721	17.456	17.234
1.053	2.816	2.505	2.237	2.009	10.753	10.442	10.174	9.945	18.689	18.378	18.110	17.881
1.049	2.984	2.673	2.402	2.168	11.199	10.888	10.617	10.383	19.414	19.104	18.832	18.598
1.044	3.167	2.857	2.583	2.343	11.695	11.385	11.111	10.871	20.223	19.913	19.639	19.399
1.040	3.369	3.060	2.784	2.539	12.252	11.943	11.667	11.422	21.135	20.826	20.549	20.304
1.035	3.596	3.289	3.010	2.760	12.885	12.577	12.298	12.049	22.173	21.866	21.587	21.337
1.031	3.856	3.551	3.270	3.015	13.620	13.315	13.034	12.779	23.384	23.079	22.798	22.543
1.026	4.162	3.858	3.576	3.317	14.493	14.189	13.906	13.647	24.824	24.520	24.237	23.978
1.022	4.529	4.227	3.944	3.681	15.553	15.251	14.967	14.704	26.576	26.274	25.990	25.727
1.018	4.992	4.692	4.408	4.140	16.899	16.599	16.314	16.047	28.805	28.505	28.221	27.954
1.013	5.608	5.310	5.025	4.754	18.705	18.408	18.123	17.852	31.803	31.505	31.220	30.949
1.009	6.516	6.221	5.935	5.660	21.388	21.093	20.808	20.533	36.261	35.966	35.680	35.405
1.004	8.109	7.818	7.533	7.255	26.121	25.830	25.545	25.267	44.133	43.842	43.557	43.279

EDGE ALPHA= 5° N= .90 CUTOFF NUM.=1.070016

	FUNDAMENTAL MODE				1ST HIGHER MODE				2ND HIGHER MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.069	.353	.265	.213	.177	7.461	7.373	7.321	7.285	14.569	14.481	14.429	14.393
1.067	.850	.650	.525	.440	8.079	7.879	7.754	7.669	15.307	15.107	14.982	14.897
1.064	1.147	.891	.725	.610	8.504	8.248	8.082	7.967	15.830	15.604	15.438	15.323
1.061	1.383	1.089	.893	.755	8.874	8.580	8.384	8.246	16.365	16.071	15.875	15.736
1.058	1.588	1.267	1.046	.888	9.221	8.900	8.680	8.522	16.854	16.533	16.313	16.155
1.056	1.774	1.432	1.192	1.016	9.559	9.217	8.977	8.801	17.343	17.002	16.761	16.586
1.053	1.948	1.591	1.334	1.143	9.895	9.537	9.280	9.089	17.841	17.484	17.226	17.035
1.050	2.117	1.747	1.474	1.269	10.235	9.866	9.593	9.388	18.354	17.985	17.712	17.507
1.047	2.281	1.903	1.617	1.398	10.585	10.206	9.921	9.702	18.889	18.510	18.225	18.006
1.044	2.446	2.060	1.762	1.531	10.949	10.563	10.265	10.034	19.453	19.066	18.769	18.538
1.042	2.612	2.220	1.912	1.669	11.331	10.939	10.631	10.389	20.051	19.659	19.351	19.108
1.039	2.783	2.386	2.069	1.815	11.737	11.340	11.023	10.769	20.691	20.294	19.977	19.723
1.036	2.959	2.560	2.234	1.970	12.168	11.768	11.443	11.178	21.376	20.977	20.651	20.387
1.033	3.146	2.744	2.410	2.136	12.636	12.234	11.900	11.626	22.126	21.724	21.391	21.116
1.031	3.344	2.940	2.600	2.316	13.146	12.743	12.403	12.118	22.949	22.545	22.205	21.921
1.028	3.558	3.153	2.807	2.514	13.710	13.305	12.958	12.665	23.861	23.456	23.110	22.817
1.025	3.792	3.387	3.035	2.733	14.338	13.933	13.581	13.279	24.884	24.479	24.127	23.825
1.022	4.052	3.647	3.290	2.979	15.047	14.642	14.285	13.974	26.042	25.636	25.279	24.969
1.019	4.348	3.943	3.581	3.262	15.866	15.461	15.100	14.780	27.384	26.979	26.618	26.298
1.017	4.691	4.287	3.921	3.594	16.831	16.427	16.061	15.734	28.971	28.568	28.202	27.874
1.014	5.099	4.696	4.327	3.991	17.994	17.591	17.222	16.886	30.888	30.486	30.116	29.781
1.011	5.611	5.210	4.836	4.493	19.472	19.071	18.698	18.354	33.333	32.932	32.559	32.215
1.008	6.273	5.874	5.498	5.147	21.398	20.999	20.623	20.271	36.523	36.124	35.747	35.396
1.006	7.228	6.831	6.452	6.093	24.202	23.805	23.426	23.067	41.176	40.779	40.400	40.041
1.003	8.873	8.479	8.098	7.730	29.074	28.680	28.299	27.931	49.275	48.882	48.500	48.132
EDGE	ALPHA=	6°		N= .70	CUTOFF NUM.=1.297331							
1.289	.464	.356	.288	.241	4.144	4.036	3.968	3.922	7.825	7.717	7.649	7.602
1.279	.688	.541	.444	.375	4.439	4.292	4.195	4.126	8.190	8.043	7.946	7.877
1.268	.843	.678	.562	.479	4.668	4.503	4.387	4.304	8.493	8.328	8.212	8.129
1.257	.968	.792	.664	.570	4.871	4.695	4.568	4.473	8.774	8.598	8.471	8.376
1.246	1.076	.894	.758	.654	5.061	4.879	4.743	4.640	9.047	8.865	8.729	8.625
1.236	1.173	.988	.846	.735	5.246	5.061	4.918	4.807	9.318	9.133	8.991	8.880
1.225	1.264	1.078	.931	.814	5.429	5.243	5.096	4.979	9.595	9.408	9.261	9.144
1.214	1.352	1.165	1.014	.892	5.616	5.429	5.278	5.156	9.879	9.692	9.541	9.420
1.204	1.438	1.252	1.098	.972	5.806	5.620	5.466	5.340	10.175	9.989	9.835	9.709
1.193	1.523	1.338	1.182	1.052	6.004	5.819	5.663	5.533	10.485	10.300	10.144	10.015
1.182	1.610	1.426	1.268	1.135	6.212	6.028	5.870	5.737	10.814	10.630	10.472	10.339
1.171	1.698	1.516	1.358	1.222	6.431	6.248	6.090	5.954	11.163	10.980	10.822	10.686
1.161	1.790	1.609	1.450	1.312	6.664	6.483	6.324	6.186	11.537	11.356	11.197	11.059
1.150	1.886	1.707	1.548	1.408	6.914	6.735	6.575	6.435	11.941	11.762	11.603	11.463
1.139	1.988	1.811	1.652	1.510	7.184	7.007	6.848	6.706	12.380	12.203	12.044	11.902
1.129	2.099	1.924	1.764	1.621	7.483	7.308	7.148	7.005	12.867	12.692	12.532	12.389
1.118	2.218	2.045	1.885	1.741	7.809	7.636	7.477	7.332	13.401	13.228	13.069	12.924
1.107	2.349	2.178	2.019	1.873	8.174	8.003	7.844	7.698	13.999	13.828	13.669	13.523
1.096	2.494	2.325	2.167	2.020	8.583	8.414	8.256	8.109	14.671	14.502	14.344	14.198
1.086	2.659	2.492	2.335	2.187	9.052	8.886	8.728	8.581	15.446	15.279	15.121	14.974
1.075	2.850	2.685	2.529	2.381	9.602	9.437	9.280	9.133	16.354	16.189	16.032	15.884
1.064	3.076	2.913	2.757	2.609	10.255	10.093	9.937	9.789	17.435	17.272	17.116	16.968
1.054	3.351	3.190	3.035	2.887	11.058	10.897	10.743	10.594	18.765	18.605	18.450	18.301
1.043	3.703	3.544	3.390	3.242	12.092	11.934	11.780	11.631	20.481	20.323	20.169	20.021
1.032	4.175	4.019	3.866	3.718	13.487	13.331	13.178	13.030	22.799	22.643	22.490	22.342
1.021	4.872	4.718	4.568	4.420	15.553	15.400	15.249	15.101	26.235	26.082	25.931	25.783
1.011	6.171	6.020	5.871	5.724	19.427	19.276	19.127	18.980	32.683	32.532	32.383	32.236

EDGE ALPHA= 6° N= .75 CUTOFF NUM.=1.226948

	FUNDAMENTAL MODE				1ST HIGHER MODE				2ND HIGHER MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.225	.277	.209	.168	.140	4.442	4.374	4.333	4.305	8.607	8.539	8.498	8.470
1.217	.620	.480	.390	.327	4.862	4.721	4.631	4.569	9.103	8.962	8.872	8.810
1.208	.820	.647	.531	.450	5.141	4.968	4.853	4.771	9.462	9.289	9.174	9.092
1.200	.972	.782	.649	.552	5.378	5.187	5.054	4.958	9.783	9.592	9.459	9.363
1.192	1.102	.900	.754	.646	5.596	5.394	5.248	5.140	10.090	9.888	9.742	9.634
1.183	1.217	1.008	.852	.735	5.805	5.596	5.440	5.323	10.393	10.184	10.028	9.911
1.175	1.323	1.110	.947	.821	6.011	5.797	5.634	5.509	10.699	10.485	10.322	10.196
1.167	1.424	1.208	1.039	.906	6.218	6.002	5.833	5.700	11.012	10.795	10.626	10.494
1.158	1.523	1.305	1.131	.992	6.429	6.212	6.038	5.899	11.336	11.118	10.944	10.805
1.150	1.620	1.402	1.224	1.080	6.647	6.429	6.251	6.107	11.674	11.457	11.279	11.134
1.142	1.717	1.500	1.319	1.170	6.874	6.657	6.476	6.327	12.031	11.814	11.633	11.484
1.133	1.816	1.600	1.416	1.263	7.113	6.896	6.713	6.559	12.410	12.193	12.010	11.856
1.125	1.920	1.704	1.519	1.361	7.370	7.155	6.969	6.812	12.821	12.605	12.420	12.263
1.117	2.027	1.812	1.625	1.465	7.643	7.428	7.241	7.081	13.259	13.044	12.858	12.697
1.108	2.140	1.927	1.739	1.575	7.937	7.724	7.536	7.373	13.735	13.522	13.334	13.170
1.100	2.260	2.049	1.860	1.693	8.256	8.045	7.856	7.690	14.253	14.042	13.853	13.686
1.092	2.390	2.181	1.991	1.822	8.609	8.399	8.210	8.041	14.827	14.618	14.428	14.260
1.083	2.533	2.325	2.135	1.964	9.000	8.793	8.603	8.432	15.468	15.260	15.071	14.900
1.075	2.691	2.486	2.296	2.123	9.443	9.238	9.048	8.875	16.195	15.989	15.800	15.627
1.067	2.870	2.667	2.477	2.302	9.947	9.744	9.554	9.379	17.025	16.821	16.631	16.457
1.058	3.076	2.874	2.685	2.509	10.534	10.332	10.143	9.967	17.991	17.790	17.601	17.424
1.050	3.320	3.120	2.931	2.754	11.237	11.038	10.849	10.671	19.155	18.956	18.767	18.589
1.042	3.611	3.414	3.225	3.047	12.080	11.883	11.695	11.516	20.550	20.353	20.165	19.986
1.033	3.981	3.786	3.599	3.420	13.163	12.969	12.781	12.602	22.346	22.151	21.964	21.784
1.025	4.476	4.284	4.098	3.918	14.621	14.429	14.243	14.063	24.766	24.574	24.388	24.208
1.017	5.214	5.025	4.840	4.660	16.808	16.619	16.434	16.254	28.402	28.213	28.028	27.848
1.008	6.542	6.356	6.173	5.992	20.761	20.575	20.392	20.211	34.980	34.794	34.610	34.430
EDGE	ALPHA=	6°		N= .80	CUTOFF NUM.=1.165047							
1.162	.391	.296	.238	.199	5.240	5.145	5.087	5.048	10.089	9.994	9.936	9.897
1.156	.716	.553	.449	.377	5.652	5.489	5.385	5.313	10.588	10.425	10.321	10.249
1.150	.925	.728	.597	.505	5.953	5.756	5.624	5.532	10.980	10.783	10.652	10.559
1.144	1.092	.873	.723	.614	6.215	5.997	5.847	5.738	11.339	11.121	10.970	10.862
1.137	1.235	1.003	.837	.716	6.461	6.228	6.063	5.941	11.686	11.454	11.288	11.167
1.131	1.365	1.123	.945	.813	6.698	6.456	6.279	6.146	12.031	11.789	11.612	11.479
1.125	1.487	1.238	1.051	.908	6.937	6.689	6.502	6.359	12.388	12.139	11.952	11.810
1.119	1.603	1.350	1.155	1.003	7.176	6.923	6.728	6.577	12.750	12.497	12.302	12.150
1.112	1.717	1.461	1.259	1.100	7.422	7.166	6.964	6.805	13.127	12.870	12.669	12.510
1.106	1.830	1.572	1.365	1.198	7.676	7.418	7.210	7.044	13.521	13.263	13.056	12.890
1.100	1.943	1.685	1.473	1.300	7.940	7.681	7.469	7.297	13.937	13.678	13.466	13.293
1.094	2.060	1.801	1.585	1.407	8.221	7.962	7.746	7.568	14.382	14.123	13.907	13.729
1.087	2.181	1.922	1.703	1.520	8.520	8.262	8.043	7.859	14.860	14.601	14.382	14.198
1.081	2.307	2.049	1.828	1.639	8.842	8.584	8.363	8.174	15.377	15.119	14.898	14.709
1.075	2.442	2.185	1.961	1.768	9.194	8.937	8.713	8.520	15.946	15.689	15.465	15.272
1.069	2.587	2.331	2.105	1.908	9.578	9.322	9.097	8.899	16.569	16.314	16.088	15.891
1.062	2.744	2.490	2.263	2.062	10.004	9.750	9.522	9.321	17.263	17.009	16.782	16.581
1.056	2.918	2.666	2.437	2.233	10.482	10.229	10.001	9.796	18.046	17.793	17.564	17.360
1.050	3.115	2.864	2.635	2.427	11.033	10.782	10.552	10.345	18.950	18.700	18.470	18.262
1.044	3.339	3.090	2.860	2.649	11.664	11.415	11.185	10.974	19.989	19.741	19.510	19.300
1.037	3.597	3.350	3.120	2.907	12.399	12.153	11.922	11.709	21.201	20.955	20.724	20.511
1.031	3.916	3.671	3.440	3.224	13.321	13.076	12.845	12.629	22.726	22.481	22.250	22.035
1.025	4.304	4.063	3.833	3.615	14.449	14.208	13.977	13.760	24.594	24.353	24.122	23.904
1.019	4.828	4.589	4.359	4.139	15.983	15.744	15.514	15.295	27.139	26.900	26.670	26.450
1.012	5.593	5.357	5.128	4.906	18.242	18.006	17.777	17.555	30.890	30.655	30.426	30.204
1.006	6.961	6.728	6.500	6.277	22.308	22.076	21.848	21.624	37.656	37.424	37.195	36.972

E D G E ALPHA= 6^0 N= .85 CUTOFF NUM.=1.110608

	FUNDAMENTAL MODE				1ST HIGHER MODE				2ND HIGHER MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.110	.183	.138	.110	.092	5.937	5.891	5.864	5.845	11.690	11.645	11.617	11.599
1.106	.703	.539	.435	.365	6.558	6.393	6.290	6.219	12.412	12.247	12.144	12.074
1.101	.971	.756	.616	.519	6.930	6.716	6.576	6.479	12.890	12.676	12.536	12.439
1.097	1.177	.931	.766	.648	7.249	7.003	6.838	6.720	13.321	13.075	12.910	12.792
1.093	1.352	1.085	.900	.766	7.543	7.276	7.091	6.957	13.734	13.468	13.282	13.148
1.088	1.510	1.228	1.026	.878	7.827	7.546	7.344	7.195	14.145	13.863	13.662	13.513
1.084	1.657	1.364	1.149	.988	8.109	7.816	7.601	7.440	14.561	14.268	14.053	13.892
1.079	1.798	1.497	1.271	1.098	8.395	8.094	7.868	7.695	14.993	14.692	14.465	14.293
1.075	1.935	1.628	1.392	1.209	8.687	8.380	8.144	7.961	15.439	15.132	14.896	14.713
1.071	2.072	1.761	1.516	1.324	8.990	8.679	8.434	8.242	15.908	15.597	15.353	15.160
1.066	2.210	1.896	1.644	1.443	9.308	8.994	8.742	8.541	16.406	16.092	15.840	15.639
1.062	2.351	2.035	1.777	1.568	9.644	9.328	9.071	8.861	16.938	16.622	16.364	16.154
1.057	2.498	2.181	1.917	1.700	10.005	9.688	9.424	9.207	17.512	17.195	16.931	16.714
1.053	2.652	2.334	2.066	1.842	10.394	10.077	9.808	9.584	18.136	17.819	17.551	17.326
1.049	2.818	2.500	2.228	1.996	10.825	10.508	10.235	10.004	18.833	18.515	18.243	18.012
1.044	2.995	2.678	2.402	2.164	11.295	10.977	10.701	10.464	19.594	19.277	19.001	18.763
1.040	3.187	2.871	2.592	2.348	11.807	11.492	11.213	10.969	20.428	20.112	19.834	19.590
1.035	3.403	3.088	2.806	2.557	12.399	12.085	11.803	11.554	21.396	21.082	20.800	20.551
1.031	3.652	3.338	3.054	2.800	13.096	12.783	12.498	12.244	22.540	22.227	21.943	21.688
1.026	3.935	3.623	3.337	3.078	13.893	13.582	13.296	13.036	23.851	23.540	23.254	22.995
1.022	4.271	3.962	3.675	3.411	14.851	14.542	14.255	13.991	25.431	25.122	24.835	24.571
1.018	4.697	4.389	4.101	3.832	16.080	15.773	15.485	15.216	27.464	27.157	26.868	26.600
1.013	5.254	4.949	4.660	4.387	17.706	17.401	17.112	16.839	30.158	29.853	29.564	29.291
1.009	6.051	5.749	5.459	5.182	20.047	19.745	19.455	19.178	34.043	33.741	33.451	33.174
1.004	7.414	7.117	6.827	6.547	24.078	23.781	23.492	23.211	40.743	40.446	40.157	39.876
E D G E	ALPHA= 6^0			N= .90	CUTOFF NUM.=1.063114							
1.061	.693	.526	.424	.354	8.017	7.850	7.747	7.678	15.340	15.174	15.071	15.002
1.058	1.067	.824	.669	.562	8.525	8.282	8.127	8.020	15.983	15.740	15.584	15.477
1.056	1.341	1.051	.860	.726	8.941	8.651	8.460	8.326	16.541	16.251	16.060	15.926
1.053	1.570	1.249	1.030	.873	9.321	8.999	8.780	8.624	17.072	16.750	16.531	16.375
1.050	1.777	1.432	1.190	1.014	9.695	9.349	9.107	8.932	17.612	17.267	17.025	16.849
1.047	1.969	1.606	1.345	1.151	10.059	9.696	9.435	9.242	18.150	17.787	17.526	17.333
1.044	2.152	1.776	1.498	1.289	10.429	10.052	9.775	9.566	18.705	18.329	18.051	17.842
1.042	2.330	1.943	1.652	1.428	10.799	10.413	10.121	9.898	19.269	18.883	18.591	18.368
1.039	2.509	2.114	1.810	1.573	11.195	10.801	10.497	10.260	19.882	19.488	19.183	18.947
1.036	2.691	2.290	1.975	1.726	11.614	11.213	10.898	10.649	20.537	20.137	19.821	19.572
1.033	2.878	2.473	2.148	1.887	12.061	11.656	11.330	11.069	21.243	20.838	20.513	20.251
1.031	3.078	2.669	2.335	2.062	12.558	12.149	11.814	11.541	22.037	21.629	21.294	21.021
1.028	3.284	2.873	2.531	2.248	13.073	12.663	12.321	12.037	22.863	22.453	22.110	21.827
1.025	3.508	3.096	2.747	2.453	13.652	13.241	12.892	12.598	23.797	23.386	23.036	22.743
1.022	3.755	3.343	2.987	2.683	14.309	13.897	13.541	13.237	24.863	24.451	24.095	23.791
1.019	4.031	3.619	3.258	2.944	15.057	14.645	14.283	13.970	26.083	25.670	25.309	24.995
1.017	4.352	3.940	3.573	3.250	15.946	15.534	15.167	14.844	27.540	27.128	26.761	26.438
1.014	4.727	4.316	3.944	3.612	16.996	16.585	16.213	15.881	29.265	28.854	28.483	28.150
1.011	5.179	4.769	4.394	4.053	18.277	17.868	17.492	17.151	31.375	30.966	30.590	30.249
1.008	5.773	5.365	4.986	4.636	19.992	19.584	19.204	18.854	34.210	33.803	33.423	33.073
1.006	6.592	6.188	5.805	5.447	22.374	21.970	21.588	21.229	38.157	37.752	37.370	37.011
1.003	7.994	7.592	7.206	6.837	26.509	26.108	25.721	25.352	45.025	44.623	44.237	43.868
E D G E	ALPHA= 7^0			N= .70	CUTOFF NUM.=1.279076							
1.279	.126	.094	.076	.063	3.864	3.833	3.814	3.801	7.602	7.571	7.552	7.539
1.268	.571	.442	.360	.302	4.382	4.253	4.171	4.113	8.193	8.064	7.982	7.924
1.257	.777	.617	.508	.431	4.664	4.504	4.396	4.318	8.552	8.392	8.283	8.206
1.246	.927	.752	.627	.535	4.896	4.720	4.595	4.504	8.864	8.689	8.564	8.472
1.236	1.052	.868	.732	.630	5.106	4.922	4.786	4.684	9.160	8.976	8.840	8.738
1.225	1.162	.973	.829	.718	5.306	5.117	4.973	4.863	9.451	9.262	9.118	9.007
1.214	1.262	1.071	.922	.804	5.503	5.312	5.162	5.045	9.744	9.553	9.403	9.285
1.204	1.358	1.166	1.012	.889	5.701	5.509	5.355	5.232	10.044	9.853	9.699	9.575
1.193	1.450	1.259	1.102	.973	5.903	5.712	5.555	5.426	10.356	10.165	10.008	9.879
1.182	1.542	1.352	1.192	1.060	6.113	5.922	5.763	5.630	10.683	10.493	10.333	10.201
1.171	1.634	1.445	1.284	1.148	6.332	6.142	5.981	5.845	11.029	10.840	10.679	10.543
1.161	1.729	1.541	1.379	1.240	6.563	6.375	6.213	6.074	11.397	11.209	11.047	10.908
1.150	1.828	1.642	1.479	1.338	6.813	6.628	6.465	6.323	11.799	11.613	11.450	11.309
1.139	1.930	1.747	1.584	1.440	7.080	6.896	6.733	6.589	12.229	12.045	11.882	11.738
1.129	2.040	1.858	1.695	1.550	7.369	7.188	7.024	6.879	12.698	12.517	12.353	12.208
1.118	2.158	1.979	1.815	1.668	7.687	7.508	7.344	7.197	13.216	13.037	12.874	12.727
1.107	2.286	2.109	1.946	1.798	8.040	7.863	7.700	7.552	13.793	13.616	13.453	13.305
1.096	2.429	2.254	2.092	1.942	8.436	8.262	8.099	7.950	14.444	14.269	14.106	13.957
1.086	2.589	2.417	2.255	2.105	8.888	8.716	8.554	8.404	15.187	15.015	14.853	14.703
1.075	2.774	2.604	2.443	2.292	9.414	9.244	9.083	8.932	16.055	15.885	15.724	15.573
1.064	2.991	2.824	2.664	2.512	10.042	9.874	9.714	9.562	17.092	16.924	16.764	16.612
1.054	3.253	3.088	2.929	2.777	10.802	10.636	10.477	10.326	18.350	18.184	18.025	17.874
1.043	3.583	3.420	3.262	3.110	11.764	11.601	11.444	11.292	19.946	19.783	19.625	19.474
1.032	4.023	3.863	3.707	3.555	13.061	12.901	12.745	12.593	22.099	21.939	21.783	21.631
1.021	4.666	4.509	4.355	4.204	14.964	14.806	14.652	14.501	25.261	25.104	24.949	24.798
1.011	5.841	5.687	5.535	5.385	18.463	18.309	18.156	18.006	31.084	30.930	30.778	30.628

EDGE ALPHA= 7° N= .75 CUTOFF NUM.=1.212094

	FUNDAMENTAL MODE				1ST HIGHER MODE				2ND HIGHER MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.208	.402	.305	.246	.205	4.699	4.602	4.543	4.502	8.996	8.899	8.840	8.799
1.200	.704	.548	.447	.376	5.083	4.927	4.826	4.755	9.462	9.306	9.205	9.134
1.192	.899	.714	.589	.499	5.364	5.180	5.054	4.965	9.830	9.645	9.520	9.430
1.183	1.052	.851	.709	.605	5.609	5.409	5.266	5.163	10.167	9.966	9.823	9.720
1.175	1.184	.973	.819	.704	5.838	5.627	5.473	5.357	10.492	10.281	10.127	10.011
1.167	1.303	1.086	.923	.798	6.060	5.843	5.679	5.554	10.816	10.599	10.436	10.311
1.158	1.414	1.194	1.023	.890	6.280	6.060	5.889	5.756	11.146	10.926	10.755	10.622
1.150	1.522	1.299	1.122	.982	6.507	6.285	6.108	5.968	11.493	11.270	11.094	10.954
1.142	1.626	1.403	1.222	1.076	6.738	6.514	6.333	6.187	11.849	11.626	11.445	11.299
1.133	1.731	1.508	1.323	1.172	6.979	6.755	6.571	6.419	12.226	12.003	11.818	11.667
1.125	1.837	1.614	1.427	1.271	7.230	7.008	6.820	6.664	12.624	12.401	12.214	12.058
1.117	1.946	1.725	1.535	1.375	7.499	7.277	7.088	6.928	13.052	12.830	12.641	12.480
1.108	2.060	1.840	1.649	1.485	7.787	7.567	7.376	7.212	13.514	13.294	13.103	12.939
1.100	2.180	1.962	1.770	1.602	8.099	7.881	7.689	7.521	14.018	13.800	13.608	13.440
1.092	2.309	2.093	1.900	1.730	8.441	8.225	8.032	7.861	14.573	14.356	14.163	13.993
1.083	2.450	2.235	2.042	1.869	8.821	8.606	8.412	8.239	15.191	14.977	14.783	14.610
1.075	2.604	2.392	2.198	2.023	9.245	9.033	8.839	8.663	15.885	15.673	15.479	15.304
1.067	2.777	2.567	2.373	2.196	9.726	9.516	9.322	9.145	16.675	16.465	16.271	16.094
1.058	2.976	2.769	2.575	2.396	10.290	10.082	9.888	9.709	17.603	17.395	17.201	17.022
1.050	3.207	3.002	2.808	2.628	10.949	10.743	10.550	10.369	18.690	18.485	18.291	18.111
1.042	3.484	3.282	3.089	2.907	11.748	11.545	11.352	11.170	20.011	19.808	19.615	19.434
1.033	3.832	3.632	3.440	3.257	12.759	12.558	12.367	12.184	21.685	21.485	21.293	21.111
1.025	4.290	4.093	3.903	3.719	14.102	13.905	13.715	13.531	23.914	23.717	23.527	23.343
1.017	4.953	4.759	4.570	4.387	16.054	15.861	15.672	15.488	27.156	26.962	26.773	26.590
1.008	6.152	5.962	5.774	5.591	19.620	19.430	19.243	19.059	33.089	32.898	32.711	32.527
EDGE	ALPHA=	7°		N= .80	CUTOFF NUM.=1.153192							
1.150	.460	.349	.281	.235	5.445	5.335	5.266	5.220	10.431	10.320	10.252	10.206
1.144	.778	.603	.491	.413	5.857	5.683	5.570	5.492	10.937	10.762	10.649	10.571
1.137	.991	.784	.644	.545	6.170	5.962	5.822	5.723	11.348	11.140	11.000	10.901
1.131	1.163	.935	.776	.660	6.447	6.218	6.059	5.944	11.730	11.501	11.342	11.227
1.125	1.312	1.070	.896	.768	6.706	6.464	6.290	6.161	12.099	11.857	11.683	11.555
1.119	1.448	1.197	1.011	.871	6.960	6.709	6.523	6.383	12.472	12.221	12.035	11.895
1.112	1.576	1.319	1.124	.974	7.214	6.957	6.762	6.612	12.852	12.595	12.400	12.250
1.106	1.700	1.439	1.236	1.076	7.473	7.212	7.009	6.850	13.246	12.986	12.782	12.623
1.100	1.822	1.558	1.348	1.181	7.740	7.477	7.267	7.100	13.659	13.396	13.186	13.019
1.094	1.944	1.679	1.464	1.290	8.020	7.755	7.540	7.366	14.096	13.832	13.617	13.442
1.087	2.068	1.803	1.583	1.403	8.315	8.050	7.831	7.650	14.563	14.297	14.078	13.897
1.081	2.197	1.932	1.709	1.522	8.632	8.367	8.144	7.957	15.066	14.802	14.578	14.392
1.075	2.332	2.068	1.841	1.650	8.972	8.708	8.482	8.290	15.613	15.349	15.122	14.931
1.069	2.475	2.212	1.983	1.787	9.343	9.080	8.852	8.655	16.212	15.949	15.720	15.523
1.062	2.631	2.369	2.138	1.937	9.757	9.495	9.264	9.063	16.883	16.621	16.390	16.189
1.056	2.800	2.540	2.308	2.103	10.213	9.953	9.721	9.516	17.627	17.367	17.134	16.929
1.050	2.989	2.731	2.497	2.288	10.730	10.472	10.238	10.029	18.472	18.214	17.980	17.771
1.044	3.202	2.946	2.711	2.499	11.324	11.068	10.834	10.621	19.446	19.190	18.956	18.743
1.037	3.447	3.194	2.959	2.743	12.016	11.762	11.527	11.312	20.584	20.331	20.096	19.880
1.031	3.746	3.495	3.259	3.041	12.870	12.619	12.384	12.166	21.995	21.744	21.509	21.290
1.025	4.110	3.862	3.627	3.406	13.922	13.674	13.439	13.218	23.734	23.486	23.251	23.030
1.019	4.595	4.350	4.115	3.892	15.337	15.091	14.857	14.633	26.078	25.833	25.598	25.375
1.012	5.288	5.046	4.812	4.587	17.372	17.130	16.896	16.671	29.457	29.215	28.981	28.756
1.006	6.510	6.272	6.038	5.811	21.000	20.762	20.528	20.301	35.490	35.251	35.018	34.791
EDGE	ALPHA=	7°		N= .85	CUTOFF NUM.=1.101488							
1.101	.045	.034	.027	.023	5.929	5.918	5.911	5.906	11.813	11.801	11.795	11.790
1.097	.716	.548	.443	.371	6.707	6.540	6.434	6.362	12.699	12.531	12.426	12.354
1.093	1.004	.782	.638	.538	7.109	6.888	6.744	6.643	13.215	12.993	12.849	12.749
1.088	1.223	.969	.798	.676	7.450	7.196	7.024	6.902	13.676	13.422	13.251	13.129
1.084	1.410	1.134	.942	.802	7.766	7.490	7.298	7.158	14.122	13.846	13.653	13.514
1.079	1.578	1.287	1.077	.923	8.071	7.780	7.571	7.416	14.564	14.273	14.064	13.909
1.075	1.735	1.433	1.209	1.041	8.375	8.073	7.850	7.682	15.016	14.714	14.490	14.322
1.071	1.886	1.576	1.341	1.160	8.684	8.374	8.139	7.959	15.483	15.173	14.938	14.758
1.066	2.035	1.719	1.474	1.283	9.007	8.692	8.447	8.255	15.980	15.664	15.419	15.228
1.062	2.183	1.863	1.610	1.409	9.341	9.021	8.768	8.567	16.499	16.179	15.926	15.724
1.057	2.334	2.012	1.751	1.541	9.694	9.371	9.111	8.900	17.053	16.731	16.471	16.260
1.053	2.490	2.166	1.899	1.680	10.071	9.748	9.481	9.262	17.653	17.329	17.062	16.843
1.049	2.654	2.329	2.057	1.830	10.480	10.155	9.883	9.656	18.306	17.981	17.709	17.482
1.044	2.828	2.504	2.227	1.993	10.926	10.602	10.325	10.091	19.024	18.700	18.423	18.189
1.040	3.017	2.693	2.412	2.171	11.420	11.096	10.816	10.575	19.824	19.500	19.219	18.978
1.035	3.225	2.902	2.618	2.370	11.978	11.655	11.371	11.124	20.732	20.409	20.124	19.877
1.031	3.460	3.139	2.851	2.597	12.621	12.300	12.013	11.759	21.783	21.461	21.174	20.920
1.026	3.727	3.407	3.117	2.858	13.360	13.041	12.751	12.492	22.994	22.674	22.384	22.125
1.022	4.042	3.724	3.433	3.168	14.246	13.929	13.638	13.373	24.451	24.134	23.843	23.578
1.018	4.437	4.122	3.829	3.558	15.380	15.065	14.771	14.501	26.322	26.007	25.714	25.444
1.013	4.939	4.627	4.333	4.058	16.829	16.517	16.223	15.948	28.719	28.407	28.113	27.838
1.009	5.658	5.350	5.054	4.775	18.933	18.624	18.329	18.049	32.207	31.898	31.603	31.323
1.004	6.868	6.564	6.268	5.984	22.502	22.198	21.902	21.618	38.136	37.832	37.537	37.252

EDGE	ALPHA= 7°			N= .90	CUTOFF NUM.=1.056621							
	FUNDAMENTAL MODE				1ST HIGHER MODE				2ND HIGHER MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.056	.534	.403	.324	.270	7.981	7.851	7.771	7.718	15.429	15.298	15.219	15.165
1.053	1.010	.777	.629	.528	8.599	8.367	8.219	8.118	16.189	15.956	15.809	15.708
1.050	1.324	1.035	.846	.713	9.065	8.777	8.587	8.455	16.807	16.518	16.329	16.196
1.047	1.579	1.254	1.033	.876	9.483	9.158	8.937	8.779	17.386	17.061	16.840	16.683
1.044	1.805	1.454	1.208	1.029	9.882	9.531	9.284	9.106	17.959	17.607	17.361	17.183
1.042	2.014	1.643	1.376	1.179	10.277	9.906	9.639	9.442	18.541	18.170	17.903	17.705
1.039	2.214	1.828	1.544	1.329	10.678	10.292	10.008	9.793	19.142	18.757	18.472	18.257
1.036	2.409	2.013	1.713	1.482	11.089	10.693	10.393	10.163	19.770	19.374	19.074	18.844
1.033	2.607	2.202	1.889	1.644	11.533	11.129	10.815	10.571	20.460	20.056	19.742	19.497
1.031	2.809	2.398	2.073	1.814	12.003	11.592	11.267	11.008	21.197	20.787	20.461	20.203
1.028	3.015	2.601	2.265	1.994	12.494	12.080	11.744	11.473	21.974	21.559	21.224	20.952
1.025	3.238	2.820	2.475	2.192	13.050	12.632	12.287	12.004	22.862	22.444	22.099	21.816
1.022	3.476	3.057	2.704	2.409	13.657	13.238	12.885	12.590	23.839	23.420	23.066	22.771
1.019	3.740	3.320	2.959	2.653	14.348	13.929	13.568	13.262	24.957	24.537	24.177	23.871
1.017	4.034	3.614	3.248	2.931	15.136	14.716	14.350	14.033	26.237	25.818	25.451	25.135
1.014	4.386	3.967	3.594	3.266	16.108	15.688	15.315	14.988	27.829	27.410	27.037	26.709
1.011	4.794	4.377	4.000	3.663	17.241	16.823	16.446	16.109	29.687	29.270	28.893	28.555
1.008	5.342	4.925	4.542	4.194	18.810	18.394	18.010	17.662	32.279	31.862	31.479	31.130
1.006	6.076	5.662	5.275	4.916	20.929	20.515	20.128	19.769	35.782	35.368	34.980	34.622
1.003	7.278	6.868	6.476	6.106	24.448	24.037	23.646	23.276	41.617	41.206	40.815	40.445
EDGE	ALPHA= 8°			N= .70	CUTOFF NUM.=1.261707							
1.257	.392	.299	.241	.201	4.269	4.176	4.118	4.078	8.146	8.053	7.995	7.955
1.246	.694	.544	.445	.375	4.650	4.500	4.401	4.332	8.606	8.456	8.357	8.288
1.236	.881	.707	.586	.499	4.922	4.748	4.627	4.539	8.962	8.788	8.667	8.580
1.225	1.027	.841	.706	.605	5.156	4.970	4.835	4.734	9.286	9.099	8.964	8.864
1.214	1.151	.958	.813	.703	5.375	5.182	5.037	4.926	9.598	9.406	9.261	9.150
1.204	1.262	1.067	.915	.796	5.587	5.391	5.239	5.120	9.911	9.715	9.563	9.444
1.193	1.367	1.170	1.013	.887	5.798	5.601	5.444	5.319	10.229	10.032	9.875	9.750
1.182	1.467	1.270	1.109	.979	6.012	5.816	5.655	5.524	10.558	10.361	10.201	10.070
1.171	1.566	1.370	1.207	1.072	6.238	6.042	5.879	5.744	10.910	10.714	10.551	10.416
1.161	1.665	1.471	1.306	1.166	6.471	6.277	6.112	5.972	11.277	11.083	10.918	10.779
1.150	1.767	1.574	1.407	1.265	6.718	6.525	6.359	6.217	11.669	11.477	11.310	11.168
1.139	1.872	1.681	1.514	1.369	6.982	6.792	6.624	6.479	12.093	11.902	11.735	11.590
1.129	1.982	1.794	1.626	1.479	7.268	7.079	6.912	6.764	12.553	12.365	12.197	12.050
1.118	2.100	1.914	1.746	1.597	7.579	7.393	7.226	7.076	13.058	12.873	12.705	12.556
1.107	2.228	2.044	1.877	1.726	7.924	7.740	7.573	7.422	13.620	13.436	13.269	13.118
1.096	2.368	2.187	2.020	1.868	8.309	8.128	7.961	7.809	14.250	14.069	13.902	13.750
1.086	2.525	2.347	2.180	2.027	8.746	8.568	8.402	8.248	14.967	14.789	14.623	14.469
1.075	2.704	2.528	2.363	2.209	9.251	9.075	8.910	8.756	15.799	15.623	15.457	15.303
1.064	2.914	2.740	2.576	2.421	9.850	9.677	9.513	9.358	16.787	16.614	16.449	16.295
1.054	3.163	2.992	2.829	2.674	10.569	10.399	10.236	10.081	17.976	17.805	17.642	17.487
1.043	3.477	3.309	3.147	2.992	11.484	11.316	11.154	10.999	19.490	19.322	19.160	19.005
1.032	3.891	3.726	3.566	3.411	12.699	12.534	12.374	12.219	21.506	21.341	21.181	21.026
1.021	4.489	4.327	4.169	4.015	14.461	14.299	14.141	13.987	24.433	24.272	24.113	23.959
1.011	5.554	5.396	5.240	5.087	17.626	17.468	17.312	17.159	29.698	29.540	29.384	29.230
EDGE	ALPHA= 8°.			N= .75	CUTOFF NUM.=1.197956							
1.192	.543	.416	.336	.282	4.986	4.859	4.780	4.725	9.430	9.303	9.223	9.169
1.183	.809	.635	.520	.439	5.342	5.168	5.053	4.972	9.874	9.700	9.585	9.504
1.175	.997	.799	.661	.562	5.624	5.425	5.288	5.189	10.250	10.052	9.915	9.816
1.167	1.150	.938	.786	.673	5.881	5.668	5.516	5.403	10.611	10.399	10.246	10.133
1.158	1.284	1.064	.900	.776	6.122	5.902	5.738	5.614	10.960	10.740	10.576	10.451
1.150	1.407	1.182	1.009	.876	6.359	6.133	5.961	5.827	11.310	11.085	10.912	10.779
1.142	1.524	1.296	1.116	.975	6.597	6.370	6.190	6.049	11.671	11.443	11.264	11.123
1.133	1.637	1.408	1.223	1.075	6.842	6.613	6.429	6.280	12.048	11.819	11.634	11.486
1.125	1.749	1.520	1.332	1.177	7.097	6.868	6.679	6.525	12.445	12.215	12.027	11.873
1.117	1.863	1.634	1.443	1.283	7.365	7.136	6.945	6.785	12.867	12.639	12.447	12.287
1.108	1.980	1.752	1.558	1.394	7.650	7.423	7.229	7.065	13.321	13.094	12.900	12.736
1.100	2.102	1.876	1.680	1.512	7.957	7.732	7.536	7.368	13.813	13.587	13.392	13.224
1.092	2.231	2.007	1.810	1.639	8.292	8.068	7.871	7.699	14.352	14.128	13.931	13.760
1.083	2.370	2.149	1.951	1.776	8.659	8.438	8.240	8.065	14.949	14.727	14.529	14.354
1.075	2.522	2.303	2.104	1.927	9.069	8.850	8.652	8.474	15.617	15.397	15.199	15.022
1.067	2.692	2.475	2.276	2.096	9.537	9.320	9.121	8.941	16.381	16.164	15.966	15.786
1.058	2.883	2.668	2.470	2.288	10.068	9.854	9.655	9.474	17.254	17.040	16.841	16.659
1.050	3.103	2.891	2.693	2.510	10.689	10.478	10.280	10.096	18.276	18.064	17.866	17.683
1.042	3.369	3.160	2.963	2.778	11.453	11.244	11.047	10.862	19.538	19.329	19.131	18.946
1.033	3.700	3.494	3.297	3.111	12.411	12.205	12.008	11.822	21.123	20.916	20.720	20.533
1.025	4.124	3.921	3.726	3.539	13.645	13.442	13.247	13.060	23.166	22.963	22.768	22.581
1.017	4.742	4.543	4.349	4.162	15.462	15.263	15.069	14.882	26.182	25.983	25.789	25.602
1.008	5.826	5.631	5.439	5.251	18.678	18.482	18.290	18.103	31.529	31.334	31.142	30.954

EDGE ALPHA= 8° N= .80 CUTOFF NUM.=1.141920

	FUNDAMENTAL MODE				1ST HIGHER MODE				2ND HIGHER MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.137	.567	.433	.349	.292	5.705	5.571	5.488	5.431	10.844	10.710	10.626	10.569
1.131	.867	.677	.552	.465	6.107	5.917	5.792	5.705	11.347	11.157	11.032	10.945
1.125	1.080	.859	.708	.600	6.428	6.206	6.056	5.948	11.776	11.554	11.404	11.296
1.119	1.255	1.015	.845	.721	6.717	6.477	6.307	6.183	12.180	11.939	11.770	11.646
1.112	1.409	1.157	.972	.835	6.994	6.741	6.557	6.419	12.578	12.325	12.141	12.004
1.106	1.551	1.291	1.095	.946	7.267	7.006	6.810	6.661	12.982	12.721	12.525	12.376
1.100	1.687	1.421	1.216	1.056	7.542	7.276	7.071	6.912	13.398	13.132	12.927	12.768
1.094	1.818	1.549	1.337	1.169	7.826	7.556	7.344	7.176	13.833	13.564	13.351	13.183
1.087	1.950	1.679	1.460	1.284	8.121	7.851	7.632	7.456	14.293	14.022	13.804	13.627
1.081	2.083	1.812	1.588	1.405	8.434	8.163	7.939	7.756	14.786	14.514	14.290	14.107
1.075	2.221	1.949	1.722	1.532	8.768	8.497	8.269	8.079	15.315	15.044	14.816	14.627
1.069	2.366	2.095	1.864	1.668	9.133	8.862	8.631	8.436	15.900	15.630	15.398	15.203
1.062	2.520	2.250	2.016	1.815	9.528	9.259	9.025	8.824	16.537	16.267	16.034	15.833
1.056	2.686	2.418	2.182	1.976	9.965	9.698	9.462	9.256	17.245	16.977	16.741	16.536
1.050	2.868	2.602	2.364	2.154	10.454	10.189	9.951	9.741	18.041	17.775	17.538	17.328
1.044	3.074	2.810	2.572	2.358	11.020	10.757	10.518	10.304	18.966	18.703	18.464	18.250
1.037	3.314	3.053	2.813	2.595	11.691	11.430	11.190	10.972	20.068	19.807	19.567	19.349
1.031	3.593	3.335	3.095	2.874	12.481	12.223	11.982	11.762	21.369	21.111	20.870	20.649
1.025	3.934	3.679	3.439	3.215	13.455	13.200	12.960	12.736	22.976	22.721	22.481	22.257
1.019	4.382	4.130	3.890	3.664	14.752	14.500	14.260	14.034	25.122	24.870	24.630	24.404
1.012	5.017	4.769	4.530	4.301	16.611	16.363	16.124	15.895	28.205	27.957	27.718	27.489
1.006	6.125	5.880	5.641	5.410	19.892	19.647	19.408	19.177	33.659	33.414	33.175	32.943
EDGE	ALPHA=	8°		N= .85	CUTOFF NUM.=1.092846							
1.093	.162	.121	.097	.081	6.197	6.157	6.132	6.116	12.232	12.192	12.168	12.152
1.088	.769	.590	.477	.400	6.920	6.741	6.628	6.551	13.072	12.893	12.780	12.703
1.084	1.067	.834	.681	.574	7.342	7.109	6.956	6.849	13.617	13.384	13.231	13.124
1.079	1.297	1.031	.850	.721	7.703	7.438	7.257	7.128	14.110	13.845	13.664	13.535
1.075	1.493	1.205	1.003	.856	8.040	7.753	7.550	7.403	14.587	14.300	14.098	13.950
1.071	1.671	1.369	1.149	.986	8.372	8.070	7.850	7.687	15.073	14.771	14.551	14.388
1.066	1.838	1.525	1.292	1.114	8.702	8.389	8.155	7.978	15.565	15.252	15.018	14.841
1.062	2.000	1.680	1.434	1.244	9.039	8.718	8.473	8.283	16.078	15.757	15.512	15.322
1.057	2.160	1.835	1.579	1.378	9.389	9.064	8.809	8.608	16.619	16.294	16.038	15.837
1.053	2.322	1.993	1.729	1.518	9.759	9.430	9.167	8.955	17.196	16.868	16.604	16.393
1.049	2.488	2.158	1.887	1.666	10.156	9.825	9.555	9.334	17.823	17.493	17.222	17.001
1.044	2.663	2.332	2.055	1.826	10.587	10.256	9.979	9.749	18.510	18.179	17.902	17.673
1.040	2.853	2.521	2.239	2.001	11.070	10.738	10.456	10.218	19.288	18.956	18.674	18.436
1.035	3.057	2.726	2.439	2.194	11.606	11.275	10.988	10.742	20.154	19.823	19.536	19.291
1.031	3.281	2.951	2.661	2.408	12.199	11.869	11.579	11.326	21.117	20.787	20.497	20.245
1.026	3.535	3.207	2.914	2.655	12.890	12.562	12.269	12.010	22.245	21.917	21.624	21.365
1.022	3.831	3.505	3.210	2.945	13.708	13.383	13.087	12.822	23.586	23.260	22.965	22.700
1.018	4.198	3.875	3.577	3.306	14.747	14.424	14.126	13.855	25.296	24.973	24.675	24.404
1.013	4.666	4.346	4.046	3.769	16.088	15.768	15.469	15.192	27.511	27.191	26.891	26.614
1.009	5.314	4.997	4.697	4.415	17.968	17.652	17.351	17.069	30.622	30.306	30.005	29.723
1.004	6.411	6.098	5.796	5.508	21.199	20.886	20.584	20.295	35.986	35.673	35.371	35.083
EDGE	ALPHA=	8°		N= .90	CUTOFF NUM.=1.050525							
1.050	.396	.298	.239	.199	7.982	7.885	7.825	7.786	15.569	15.471	15.412	15.372
1.047	.988	.759	.614	.515	8.729	8.499	8.354	8.255	16.469	16.240	16.095	15.996
1.044	1.339	1.047	.855	.721	9.243	8.950	8.758	8.624	17.146	16.854	16.662	16.528
1.042	1.621	1.287	1.061	.899	9.705	9.371	9.145	8.983	17.789	17.455	17.229	17.067
1.039	1.867	1.505	1.251	1.067	10.142	9.781	9.527	9.342	18.418	18.056	17.802	17.618
1.036	2.095	1.713	1.436	1.231	10.578	10.196	9.920	9.715	19.062	18.680	18.403	18.198
1.033	2.313	1.916	1.621	1.397	11.025	10.628	10.332	10.109	19.736	19.339	19.043	18.820
1.031	2.526	2.119	1.807	1.567	11.475	11.067	10.756	10.516	20.424	20.016	19.705	19.465
1.028	2.744	2.329	2.003	1.748	11.967	11.551	11.226	10.970	21.190	20.774	20.449	20.193
1.025	2.968	2.547	2.209	1.939	12.489	12.068	11.730	11.460	22.010	21.589	21.251	20.981
1.022	3.203	2.779	2.431	2.147	13.060	12.635	12.287	12.003	22.916	22.491	22.144	21.860
1.019	3.466	3.038	2.680	2.383	13.728	13.301	12.943	12.645	23.990	23.563	23.205	22.908
1.017	3.752	3.323	2.957	2.647	14.472	14.043	13.677	13.367	25.192	24.763	24.397	24.087
1.014	4.096	3.666	3.291	2.968	15.411	14.981	14.606	14.283	26.727	26.296	25.921	25.598
1.011	4.475	4.047	3.666	3.332	16.438	16.010	15.629	15.295	28.401	27.972	27.592	27.257
1.008	4.968	4.541	4.154	3.808	17.819	17.392	17.005	16.659	30.671	30.244	29.857	29.511
1.006	5.651	5.225	4.832	4.472	19.782	19.356	18.962	18.602	33.912	33.486	33.092	32.732
1.003	6.668	6.249	5.853	5.482	22.709	22.290	21.894	21.524	38.751	38.331	37.935	37.565

EDGE ALPHA= 9°				N= .70 CUTOFF NUM.=1.245177							
	FUNDAMENTAL MODE				1ST HIGHER MODE				2ND HIGHER MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.236	.585	.452	.367	.309	4.617	4.484	4.399	4.340	8.648	8.516	8.431	8.372
1.225	.828	.658	.542	.460	4.947	4.777	4.661	4.579	9.066	8.896	8.780	8.698
1.214	1.001	.813	.679	.581	5.212	5.025	4.891	4.792	9.424	9.236	9.103	9.004
1.204	1.142	.945	.799	.689	5.452	5.255	5.109	4.999	9.762	9.565	9.419	9.309
1.193	1.265	1.065	.910	.791	5.680	5.480	5.325	5.206	10.095	9.894	9.740	9.620
1.182	1.380	1.178	1.017	.890	5.911	5.709	5.548	5.421	10.442	10.239	10.079	9.952
1.171	1.489	1.286	1.122	.988	6.141	5.939	5.774	5.641	10.794	10.591	10.426	10.293
1.161	1.595	1.394	1.226	1.088	6.379	6.177	6.010	5.871	11.162	10.961	10.793	10.655
1.150	1.702	1.502	1.332	1.190	6.628	6.428	6.258	6.116	11.554	11.354	11.184	11.041
1.139	1.811	1.613	1.442	1.296	6.892	6.694	6.523	6.377	11.973	11.775	11.604	11.458
1.129	1.924	1.728	1.556	1.407	7.175	6.980	6.808	6.659	12.427	12.231	12.059	11.910
1.118	2.043	1.850	1.678	1.526	7.483	7.290	7.118	6.966	12.923	12.730	12.558	12.406
1.107	2.171	1.981	1.808	1.655	7.821	7.631	7.459	7.305	13.472	13.281	13.109	12.956
1.096	2.311	2.123	1.951	1.796	8.198	8.010	7.839	7.683	14.086	13.898	13.726	13.571
1.086	2.465	2.280	2.109	1.952	8.623	8.438	8.267	8.110	14.781	14.596	14.425	14.268
1.075	2.638	2.456	2.285	2.128	9.103	8.921	8.751	8.594	15.569	15.386	15.216	15.059
1.064	2.841	2.662	2.492	2.334	9.679	9.500	9.331	9.173	16.517	16.338	16.169	16.011
1.054	3.083	2.907	2.739	2.580	10.373	10.197	10.029	9.870	17.663	17.487	17.319	17.160
1.043	3.386	3.212	3.045	2.887	11.250	11.077	10.910	10.751	19.115	18.942	18.775	18.616
1.032	3.776	3.606	3.441	3.282	12.388	12.218	12.053	11.895	21.001	20.831	20.666	20.507
1.021	4.336	4.169	4.007	3.849	14.035	13.868	13.706	13.548	23.734	23.568	23.405	23.247
1.011	5.325	5.162	5.001	4.844	16.970	16.807	16.646	16.489	28.614	28.452	28.291	28.134
EDGE ALPHA= 9°				N= .75 CUTOFF NUM.=1.184500								
1.183	.251	.189	.152	.126	4.769	4.707	4.669	4.644	9.287	9.225	9.187	9.162
1.175	.696	.539	.438	.369	5.307	5.150	5.049	4.979	9.918	9.761	9.660	9.590
1.167	.934	.741	.610	.517	5.643	5.450	5.319	5.226	10.352	10.159	10.029	9.936
1.158	1.114	.901	.751	.641	5.928	5.716	5.565	5.455	10.742	10.530	10.379	10.269
1.150	1.266	1.042	.878	.755	6.192	5.968	5.804	5.681	11.118	10.894	10.730	10.607
1.142	1.402	1.172	.998	.864	6.448	6.218	6.043	5.909	11.493	11.263	11.089	10.955
1.133	1.530	1.296	1.114	.971	6.704	6.470	6.288	6.145	11.877	11.644	11.461	11.318
1.125	1.653	1.417	1.229	1.079	6.965	6.730	6.541	6.391	12.277	12.042	11.854	11.703
1.117	1.774	1.538	1.346	1.188	7.236	7.001	6.808	6.651	12.698	12.463	12.270	12.113
1.108	1.896	1.661	1.465	1.302	7.522	7.287	7.091	6.928	13.148	12.913	12.717	12.554
1.100	2.022	1.788	1.589	1.421	7.827	7.593	7.394	7.227	13.632	13.399	13.200	13.032
1.092	2.153	1.921	1.721	1.548	8.156	7.925	7.724	7.551	14.159	13.928	13.727	13.555
1.083	2.291	2.062	1.860	1.684	8.511	8.282	8.080	7.904	14.731	14.501	14.299	14.123
1.075	2.441	2.214	2.012	1.832	8.907	8.680	8.477	8.298	15.372	15.145	14.942	14.763
1.067	2.606	2.381	2.178	1.996	9.349	9.125	8.922	8.740	16.093	15.868	15.665	15.483
1.058	2.796	2.574	2.370	2.186	9.875	9.653	9.449	9.265	16.953	16.732	16.528	16.344
1.050	3.012	2.793	2.589	2.403	10.479	10.260	10.057	9.870	17.947	17.728	17.525	17.338
1.042	3.268	3.052	2.849	2.660	11.206	10.990	10.787	10.598	19.144	18.928	18.725	18.537
1.033	3.577	3.365	3.163	2.973	12.093	11.881	11.679	11.489	20.609	20.396	20.195	20.005
1.025	3.983	3.774	3.574	3.383	13.271	13.062	12.861	12.671	22.559	22.350	22.149	21.959
1.017	4.558	4.353	4.154	3.963	14.954	14.749	14.550	14.359	25.351	25.145	24.946	24.755
1.008	5.547	5.346	5.149	4.958	17.880	17.679	17.482	17.290	30.212	30.011	29.815	29.623
EDGE ALPHA= 9°				N= .80 CUTOFF NUM.=1.131207								
1.125	.704	.541	.438	.368	6.016	5.854	5.751	5.680	11.328	11.166	11.063	10.992
1.119	.983	.773	.633	.535	6.406	6.196	6.056	5.958	11.830	11.620	11.480	11.382
1.112	1.192	.955	.791	.673	6.735	6.498	6.333	6.215	12.277	12.040	11.876	11.757
1.106	1.370	1.116	.934	.799	7.039	6.785	6.603	6.468	12.708	12.454	12.272	12.137
1.100	1.528	1.264	1.068	.920	7.334	7.069	6.873	6.725	13.139	12.874	12.678	12.530
1.094	1.677	1.406	1.199	1.040	7.629	7.358	7.151	6.991	13.581	13.309	13.103	12.943
1.087	1.821	1.545	1.330	1.160	7.931	7.656	7.440	7.270	14.041	13.766	13.550	13.380
1.081	1.961	1.684	1.461	1.283	8.240	7.962	7.740	7.562	14.518	14.241	14.018	13.840
1.075	2.104	1.826	1.598	1.412	8.570	8.292	8.063	7.877	15.035	14.757	14.529	14.343
1.069	2.251	1.973	1.740	1.547	8.922	8.644	8.411	8.218	15.592	15.314	15.082	14.888
1.062	2.408	2.130	1.894	1.694	9.313	9.036	8.799	8.600	16.219	15.941	15.705	15.505
1.056	2.575	2.299	2.059	1.854	9.744	9.468	9.228	9.022	16.912	16.636	16.397	16.191
1.050	2.757	2.483	2.241	2.030	10.225	9.950	9.708	9.498	17.692	17.418	17.176	16.965
1.044	2.959	2.687	2.444	2.228	10.770	10.498	10.255	10.039	18.581	18.309	18.066	17.850
1.037	3.186	2.917	2.672	2.452	11.392	11.122	10.877	10.658	19.597	19.327	19.083	18.863
1.031	3.455	3.189	2.943	2.720	12.143	11.877	11.631	11.407	20.831	20.564	20.319	20.095
1.025	3.782	3.519	3.273	3.046	13.070	12.807	12.561	12.334	22.358	22.095	21.849	21.622
1.019	4.200	3.940	3.695	3.465	14.270	14.010	13.764	13.535	24.339	24.080	23.834	23.604
1.012	4.788	4.532	4.288	4.055	15.981	15.726	15.481	15.248	27.175	26.919	26.674	26.442
1.006	5.781	5.530	5.286	5.050	18.907	18.655	18.411	18.176	32.032	31.781	31.537	31.302

EDGE ALPHA= 9° N= .85 CUTOFF NUM.=1.084667

	FUNDAMENTAL MODE				1ST HIGHER MODE				2ND HIGHER MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.084	.350	.264	.211	.176	6.557	6.471	6.419	6.384	12.765	12.678	12.626	12.591
1.079	.863	.665	.539	.452	7.195	6.997	6.871	6.784	13.527	13.328	13.202	13.116
1.075	1.162	.913	.748	.631	7.628	7.378	7.213	7.097	14.093	13.844	13.679	13.562
1.071	1.397	1.117	.924	.785	8.006	7.725	7.532	7.393	14.614	14.333	14.140	14.001
1.066	1.601	1.300	1.086	.928	8.362	8.061	7.847	7.689	15.123	14.822	14.608	14.450
1.062	1.789	1.474	1.243	1.069	8.723	8.408	8.177	8.003	15.657	15.342	15.111	14.937
1.057	1.969	1.644	1.398	1.210	9.089	8.765	8.519	8.331	16.210	15.885	15.640	15.451
1.053	2.143	1.812	1.555	1.354	9.463	9.132	8.874	8.673	16.782	16.451	16.194	15.993
1.049	2.320	1.985	1.717	1.504	9.864	9.528	9.261	9.048	17.408	17.072	16.805	16.592
1.044	2.501	2.163	1.888	1.664	10.291	9.952	9.677	9.453	18.080	17.742	17.466	17.243
1.040	2.692	2.352	2.069	1.836	10.756	10.417	10.134	9.901	18.821	18.482	18.199	17.966
1.035	2.891	2.552	2.264	2.021	11.256	10.916	10.628	10.386	19.620	19.281	18.993	18.751
1.031	3.113	2.774	2.481	2.231	11.832	11.494	11.201	10.950	20.552	20.213	19.920	19.669
1.026	3.361	3.024	2.727	2.468	12.494	12.157	11.860	11.601	21.627	21.289	20.992	20.734
1.022	3.645	3.310	3.010	2.745	13.266	12.931	12.630	12.365	22.886	22.551	22.251	21.985
1.018	3.990	3.658	3.355	3.082	14.225	13.893	13.590	13.317	24.460	24.128	23.825	23.552
1.013	4.425	4.095	3.790	3.511	15.456	15.126	14.821	14.542	26.486	26.157	25.852	25.573
1.009	5.032	4.706	4.399	4.113	17.208	16.882	16.575	16.289	29.384	29.058	28.751	28.465
1.004	6.006	5.684	5.376	5.084	20.051	19.730	19.422	19.130	34.097	33.776	33.468	33.176

EDGE ALPHA= 9° N= .90 CUTOFF NUM.=1.044814

1.044	.352	.265	.212	.177	8.123	8.035	7.983	7.947	15.893	15.805	15.753	15.717
1.042	1.023	.786	.636	.533	8.961	8.724	8.574	8.472	16.900	16.662	16.513	16.410
1.039	1.401	1.096	.896	.756	9.509	9.204	9.004	8.864	17.616	17.312	17.112	16.971
1.036	1.703	1.356	1.119	.950	10.007	9.660	9.423	9.254	18.311	17.965	17.728	17.558
1.033	1.968	1.592	1.327	1.132	10.484	10.108	9.843	9.648	19.000	18.624	18.358	18.164
1.031	2.215	1.819	1.529	1.313	10.963	10.567	10.277	10.061	19.711	19.314	19.025	18.809
1.028	2.454	2.043	1.734	1.499	11.458	11.047	10.738	10.503	20.462	20.052	19.743	19.507
1.025	2.693	2.271	1.946	1.692	11.981	11.559	11.234	10.980	21.269	20.847	20.522	20.268
1.022	2.936	2.508	2.168	1.898	12.536	12.108	11.768	11.498	22.137	21.708	21.368	21.098
1.019	3.196	2.763	2.410	2.124	13.161	12.728	12.376	12.090	23.127	22.693	22.341	22.055
1.017	3.481	3.044	2.680	2.379	13.877	13.440	13.077	12.776	24.273	23.837	23.473	23.172
1.014	3.804	3.365	2.991	2.676	14.721	14.283	13.909	13.593	25.638	25.200	24.826	24.510
1.011	4.178	3.739	3.356	3.026	15.721	15.282	14.900	14.570	27.265	26.826	26.443	26.113
1.008	4.632	4.194	3.804	3.461	16.965	16.527	16.137	15.793	29.297	28.859	28.469	28.126
1.006	5.242	4.807	4.410	4.052	18.680	18.244	17.847	17.490	32.118	31.682	31.285	30.928
1.003	6.184	5.752	5.349	4.977	21.379	20.947	20.544	20.172	36.574	36.142	35.739	35.367

EDGE ALPHA= 10° N= .70 CUTOFF NUM.=1.229445

1.225	.431	.328	.265	.221	4.544	4.441	4.378	4.335	8.657	8.555	8.491	8.448
1.214	.766	.603	.494	.417	4.970	4.807	4.698	4.621	9.175	9.011	8.902	8.826
1.204	.973	.785	.653	.557	5.274	5.086	4.954	4.858	9.575	9.387	9.255	9.159
1.193	1.135	.935	.788	.677	5.544	5.344	5.196	5.086	9.952	9.752	9.605	9.495
1.182	1.273	1.067	.910	.789	5.793	5.587	5.430	5.309	10.313	10.107	9.950	9.829
1.171	1.398	1.190	1.026	.896	6.037	5.829	5.665	5.536	10.677	10.469	10.305	10.175
1.161	1.516	1.308	1.139	1.002	6.284	6.076	5.907	5.771	11.052	10.844	10.675	10.539
1.150	1.631	1.424	1.251	1.109	6.539	6.331	6.159	6.017	11.447	11.239	11.067	10.925
1.139	1.746	1.540	1.366	1.219	6.806	6.600	6.426	6.279	11.866	11.660	11.486	11.339
1.129	1.863	1.660	1.484	1.334	7.090	6.886	6.711	6.560	12.316	12.113	11.937	11.787
1.118	1.986	1.785	1.608	1.454	7.396	7.195	7.019	6.865	12.807	12.606	12.429	12.276
1.107	2.115	1.917	1.740	1.584	7.730	7.532	7.355	7.199	13.345	13.147	12.970	12.814
1.096	2.255	2.059	1.883	1.725	8.100	7.905	7.728	7.570	13.945	13.750	13.573	13.415
1.086	2.407	2.214	2.038	1.879	8.510	8.318	8.142	7.982	14.613	14.421	14.245	14.085
1.075	2.576	2.387	2.212	2.051	8.976	8.787	8.612	8.451	15.375	15.186	15.011	14.850
1.064	2.774	2.588	2.414	2.253	9.531	9.345	9.171	9.009	16.288	16.102	15.928	15.766
1.054	3.014	2.831	2.658	2.495	10.215	10.032	9.859	9.696	17.416	17.233	17.060	16.897
1.043	3.300	3.121	2.949	2.787	11.038	10.858	10.687	10.524	18.775	18.596	18.424	18.262
1.032	3.671	3.496	3.326	3.164	12.115	11.939	11.770	11.607	20.559	20.383	20.213	20.051
1.021	4.203	4.031	3.864	3.702	13.675	13.503	13.336	13.174	23.147	22.975	22.807	22.645
1.011	5.116	4.948	4.784	4.622	16.376	16.209	16.044	15.883	27.636	27.469	27.304	27.143

	FUNDAMENTAL MODE				1ST HIGHER MODE				2ND HIGHER MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
EDGE ALPHA= 10^0				N= .75	CUTOFF NUM.=1.171697							
1.167	.541	.414	.334	.280	5.237	5.109	5.029	4.975	9.932	9.805	9.725	9.671
1.158	.860	.675	.553	.467	5.658	5.474	5.351	5.265	10.456	10.272	10.149	10.063
1.150	1.076	.864	.716	.610	5.983	5.772	5.624	5.518	10.891	10.679	10.532	10.425
1.142	1.250	1.023	.858	.736	6.274	6.048	5.883	5.761	11.299	11.073	10.908	10.786
1.133	1.401	1.166	.990	.855	6.552	6.317	6.140	6.006	11.702	11.467	11.291	11.156
1.125	1.541	1.302	1.116	.971	6.827	6.588	6.402	6.257	12.113	11.873	11.688	11.543
1.117	1.675	1.433	1.241	1.087	7.107	6.865	6.673	6.519	12.539	12.298	12.105	11.952
1.108	1.806	1.564	1.366	1.205	7.397	7.155	6.957	6.797	12.988	12.746	12.549	12.388
1.100	1.937	1.696	1.495	1.328	7.703	7.462	7.260	7.093	13.468	13.227	13.026	12.859
1.092	2.072	1.833	1.628	1.456	8.028	7.789	7.584	7.412	13.984	13.745	13.540	13.368
1.083	2.213	1.975	1.769	1.592	8.377	8.139	7.933	7.756	14.541	14.304	14.098	13.921
1.075	2.363	2.128	1.920	1.740	8.762	8.527	8.320	8.139	15.162	14.927	14.719	14.539
1.067	2.529	2.296	2.088	1.904	9.202	8.969	8.761	8.577	15.875	15.643	15.434	15.250
1.058	2.716	2.486	2.277	2.090	9.713	9.483	9.274	9.087	16.710	16.480	16.271	16.083
1.050	2.927	2.700	2.491	2.301	10.295	10.069	9.860	9.670	17.664	17.437	17.228	17.038
1.042	3.171	2.947	2.739	2.547	10.977	10.754	10.546	10.354	18.784	18.561	18.352	18.160
1.033	3.467	3.248	3.040	2.847	11.820	11.600	11.393	11.200	20.173	19.953	19.746	19.552
1.025	3.853	3.637	3.431	3.236	12.932	12.716	12.510	12.315	22.011	21.795	21.589	21.394
1.017	4.396	4.184	3.980	3.784	14.516	14.304	14.099	13.904	24.635	24.424	24.219	24.023
1.008	5.297	5.090	4.888	4.692	17.168	16.961	16.759	16.564	29.039	28.832	28.631	28.435
EDGE ALPHA= 10^0				N= .80	CUTOFF NUM.=1.121032							
1.119	.456	.345	.277	.232	5.850	5.740	5.672	5.626	11.245	11.134	11.067	11.021
1.112	.864	.672	.547	.460	6.374	6.182	6.057	5.970	11.884	11.691	11.567	11.480
1.106	1.123	.892	.734	.622	6.756	6.525	6.368	6.256	12.390	12.158	12.001	11.889
1.100	1.329	1.075	.895	.764	7.094	6.840	6.661	6.530	12.860	12.606	12.426	12.295
1.094	1.508	1.240	1.044	.897	7.414	7.146	6.950	6.803	13.320	13.052	12.856	12.709
1.087	1.671	1.395	1.186	1.026	7.729	7.452	7.244	7.084	13.786	13.510	13.301	13.141
1.081	1.827	1.546	1.327	1.155	8.048	7.766	7.547	7.376	14.268	13.987	13.768	13.597
1.075	1.980	1.696	1.469	1.288	8.379	8.095	7.868	7.687	14.779	14.495	14.268	14.087
1.069	2.136	1.850	1.617	1.427	8.739	8.453	8.220	8.030	15.341	15.056	14.823	14.633
1.062	2.294	2.009	1.771	1.573	9.116	8.830	8.592	8.395	15.937	15.652	15.414	15.216
1.056	2.467	2.182	1.939	1.734	9.551	9.266	9.023	8.818	16.634	16.349	16.107	15.902
1.050	2.649	2.365	2.119	1.908	10.017	9.734	9.488	9.277	17.386	17.102	16.856	16.645
1.044	2.845	2.564	2.316	2.100	10.532	10.252	10.003	9.787	18.219	17.939	17.690	17.474
1.037	3.069	2.791	2.541	2.319	11.137	10.858	10.608	10.386	19.204	18.925	18.675	18.454
1.031	3.330	3.054	2.803	2.577	11.853	11.578	11.326	11.100	20.376	20.101	19.850	19.624
1.025	3.639	3.367	3.116	2.886	12.718	12.446	12.194	11.964	21.797	21.525	21.273	21.043
1.019	4.037	3.769	3.518	3.284	13.853	13.585	13.334	13.100	23.669	23.401	23.150	22.916
1.012	4.580	4.316	4.066	3.829	15.419	15.155	14.905	14.668	26.258	25.994	25.743	25.507
1.006	5.469	5.211	4.962	4.723	18.020	17.762	17.513	17.274	30.570	30.312	30.063	29.825
EDGE ALPHA= 10^0				N= .85	CUTOFF NUM.=1.076935							
1.075	.557	.423	.340	.284	6.957	6.822	6.739	6.683	13.356	13.222	13.139	13.083
1.071	1.000	.775	.631	.530	7.547	7.322	7.178	7.077	14.094	13.869	13.725	13.624
1.066	1.293	1.023	.841	.712	7.983	7.713	7.531	7.402	14.673	14.403	14.221	14.092
1.062	1.531	1.233	1.025	.873	8.380	8.082	7.873	7.722	15.229	14.930	14.722	14.570
1.057	1.747	1.430	1.200	1.029	8.784	8.467	8.237	8.066	15.821	15.504	15.274	15.103
1.053	1.945	1.616	1.369	1.182	9.175	8.845	8.599	8.411	16.405	16.075	15.828	15.641
1.049	2.138	1.800	1.539	1.337	9.579	9.241	8.981	8.779	17.021	16.683	16.422	16.220
1.044	2.327	1.984	1.713	1.498	9.994	9.651	9.379	9.164	17.660	17.317	17.046	16.831
1.040	2.523	2.177	1.896	1.669	10.448	10.102	9.822	9.595	18.374	18.028	17.747	17.520
1.035	2.729	2.381	2.093	1.855	10.947	10.599	10.310	10.073	19.165	18.817	18.528	18.291
1.031	2.950	2.602	2.307	2.060	11.503	11.155	10.861	10.613	20.057	19.709	19.414	19.166
1.026	3.192	2.845	2.545	2.288	12.126	11.779	11.479	11.222	21.060	20.713	20.413	20.156
1.022	3.470	3.125	2.821	2.555	12.869	12.524	12.219	11.954	22.268	21.923	21.618	21.353
1.018	3.797	3.455	3.147	2.873	13.760	13.418	13.110	12.837	23.723	23.381	23.073	22.800
1.013	4.196	3.857	3.548	3.267	14.865	14.526	14.216	13.936	25.533	25.195	24.885	24.605
1.009	4.765	4.429	4.117	3.828	16.495	16.159	15.847	15.558	28.225	27.889	27.576	27.288
1.004	5.665	5.333	5.018	4.722	19.110	18.779	18.464	18.167	32.556	32.224	31.909	31.613
EDGE ALPHA= 10^0				N= .90	CUTOFF NUM.=1.039481							
1.039	.473	.356	.286	.238	8.450	8.333	8.263	8.215	16.427	16.310	16.240	16.192
1.036	1.123	.865	.702	.589	9.284	9.026	8.863	8.750	17.445	17.187	17.023	16.911
1.033	1.516	1.191	.976	.825	9.868	9.544	9.329	9.177	18.221	17.897	17.682	17.530
1.031	1.836	1.470	1.217	1.034	10.416	10.050	9.797	9.615	18.996	18.630	18.377	18.195
1.028	2.119	1.725	1.442	1.234	10.931	10.537	10.255	10.046	19.743	19.349	19.067	18.859
1.025	2.387	1.974	1.667	1.436	11.466	11.052	10.746	10.515	20.545	20.131	19.825	19.594
1.022	2.652	2.225	1.899	1.647	12.033	11.606	11.279	11.027	21.413	20.986	20.659	20.407
1.019	2.924	2.488	2.144	1.873	12.648	12.212	11.868	11.597	22.373	21.936	21.592	21.321
1.017	3.212	2.769	2.410	2.121	13.331	12.888	12.530	12.241	23.451	23.008	22.650	22.360
1.014	3.528	3.081	2.710	2.403	14.120	13.673	13.302	12.995	24.712	24.265	23.894	23.587
1.011	3.891	3.442	3.059	2.736	15.060	14.611	14.228	13.905	26.229	25.780	25.397	25.074
1.008	4.316	3.868	3.476	3.138	16.187	15.739	15.348	15.009	28.059	27.611	27.219	26.880
1.006	4.893	4.445	4.044	3.689	17.785	17.338	16.936	16.581	30.677	30.230	29.829	29.473
1.003	5.753	5.309	4.900	4.527	20.220	19.776	19.367	18.995	34.688	34.244	33.835	33.462

EDGE ALPHA= 11° N= .70 CUTOFF NUM.=1.214471

	FUNDAMENTAL MODE				1ST HIGHER MODE				2ND HIGHER MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.214	.095	.071	.057	.047	4.300	4.276	4.262	4.253	8.505	8.481	8.467	8.458
1.204	.695	.541	.441	.371	4.996	4.843	4.743	4.673	9.298	9.144	9.044	8.975
1.193	.947	.759	.628	.534	5.352	5.163	5.033	4.939	9.756	9.568	9.437	9.343
1.182	1.132	.928	.779	.669	5.646	5.442	5.294	5.183	10.160	9.956	9.808	9.697
1.171	1.285	1.074	.914	.791	5.917	5.706	5.546	5.423	10.549	10.338	10.178	10.055
1.161	1.422	1.208	1.040	.907	6.181	5.967	5.799	5.667	10.940	10.726	10.558	10.426
1.150	1.550	1.335	1.162	1.022	6.447	6.232	6.059	5.919	11.343	11.129	10.955	10.815
1.139	1.674	1.461	1.284	1.138	6.720	6.507	6.330	6.184	11.767	11.553	11.376	11.230
1.129	1.798	1.587	1.407	1.256	7.007	6.796	6.616	6.465	12.217	12.005	11.825	11.674
1.118	1.925	1.716	1.535	1.380	7.314	7.105	6.924	6.769	12.704	12.495	12.314	12.159
1.107	2.058	1.851	1.670	1.512	7.647	7.441	7.259	7.101	13.237	13.030	12.849	12.691
1.096	2.198	1.995	1.813	1.653	8.010	7.807	7.625	7.464	13.822	13.619	13.437	13.276
1.086	2.349	2.150	1.968	1.806	8.409	8.209	8.028	7.865	14.469	14.269	14.088	13.925
1.075	2.521	2.324	2.144	1.979	8.876	8.679	8.498	8.334	15.230	15.034	14.853	14.689
1.064	2.718	2.525	2.345	2.179	9.424	9.231	9.051	8.885	16.130	15.937	15.757	15.591
1.054	2.948	2.758	2.579	2.413	10.070	9.880	9.701	9.535	17.192	17.002	16.824	16.657
1.043	3.225	3.039	2.862	2.695	10.862	10.676	10.499	10.332	18.499	18.313	18.136	17.969
1.032	3.583	3.401	3.226	3.059	11.894	11.712	11.537	11.370	20.206	20.024	19.849	19.682
1.021	4.091	3.913	3.740	3.573	13.379	13.201	13.029	12.862	22.668	22.490	22.317	22.151
1.011	4.943	4.769	4.599	4.434	15.893	15.720	15.550	15.384	26.843	26.670	26.500	26.334

EDGE ALPHA= 11° N= .75 CUTOFF NUM.=1.159516

1.158	.281	.212	.170	.142	5.070	5.001	4.959	4.931	9.859	9.790	9.748	9.719
1.150	.773	.601	.490	.412	5.670	5.498	5.386	5.309	10.567	10.394	10.283	10.205
1.142	1.036	.826	.682	.579	6.048	5.837	5.694	5.591	11.059	10.849	10.705	10.602
1.133	1.236	1.006	.841	.720	6.371	6.141	5.976	5.855	11.506	11.276	11.112	10.990
1.125	1.405	1.165	.986	.850	6.672	6.432	6.253	6.117	11.939	11.699	11.520	11.385
1.117	1.559	1.313	1.123	.976	6.969	6.723	6.534	6.387	12.379	12.134	11.944	11.797
1.108	1.704	1.455	1.258	1.102	7.270	7.022	6.824	6.668	12.836	12.588	12.391	12.234
1.100	1.845	1.596	1.393	1.229	7.579	7.330	7.128	6.963	13.313	13.065	12.862	12.697
1.092	1.987	1.739	1.532	1.361	7.908	7.660	7.453	7.282	13.829	13.581	13.374	13.202
1.083	2.131	1.885	1.676	1.498	8.251	8.005	7.795	7.618	14.371	14.125	13.915	13.738
1.075	2.287	2.043	1.831	1.649	8.641	8.397	8.185	8.003	14.996	14.752	14.540	14.358
1.067	2.455	2.214	2.000	1.813	9.079	8.837	8.624	8.437	15.703	15.461	15.248	15.061
1.058	2.640	2.401	2.187	1.996	9.570	9.331	9.117	8.927	16.501	16.262	16.048	15.857
1.050	2.844	2.609	2.394	2.201	10.122	9.887	9.673	9.480	17.401	17.166	16.951	16.758
1.042	3.083	2.852	2.638	2.442	10.786	10.555	10.341	10.145	18.489	18.258	18.043	17.848
1.033	3.374	3.147	2.933	2.735	11.608	11.380	11.167	10.969	19.841	19.614	19.400	19.202
1.025	3.744	3.520	3.308	3.109	12.667	12.443	12.230	12.031	21.589	21.365	21.153	20.953
1.017	4.254	4.035	3.824	3.624	14.143	13.924	13.714	13.513	24.033	23.814	23.603	23.403
1.008	5.092	4.878	4.670	4.470	16.600	16.387	16.179	15.978	28.109	27.895	27.688	27.487

EDGE ALPHA= 11° N= .80 CUTOFF NUM.=1.111374

1.106	.714	.548	.443	.372	6.321	6.155	6.050	5.979	11.928	11.762	11.658	11.586
1.100	1.045	.822	.674	.569	6.780	6.556	6.408	6.304	12.514	12.291	12.142	12.038
1.094	1.288	1.034	.858	.730	7.160	6.906	6.730	6.602	13.032	12.779	12.602	12.475
1.087	1.489	1.218	1.022	.876	7.505	7.234	7.037	6.892	13.520	13.249	13.053	12.907
1.081	1.673	1.391	1.180	1.018	7.859	7.577	7.365	7.204	14.044	13.762	13.551	13.390
1.075	1.843	1.555	1.332	1.158	8.197	7.909	7.686	7.513	14.552	14.264	14.041	13.867
1.069	2.009	1.718	1.486	1.301	8.554	8.263	8.031	7.846	15.100	14.808	14.576	14.392
1.062	2.181	1.888	1.649	1.454	8.954	8.660	8.421	8.226	15.726	15.432	15.193	14.999
1.056	2.355	2.061	1.816	1.613	9.365	9.071	8.826	8.623	16.375	16.081	15.836	15.633
1.050	2.537	2.245	1.996	1.785	9.816	9.524	9.274	9.064	17.095	16.802	16.553	16.343
1.044	2.736	2.446	2.193	1.976	10.325	10.034	9.782	9.564	17.913	17.623	17.370	17.153
1.037	2.961	2.673	2.417	2.194	10.922	10.633	10.378	10.154	18.882	18.594	18.339	18.115
1.031	3.209	2.924	2.668	2.439	11.587	11.303	11.046	10.817	19.966	19.681	19.424	19.196
1.025	3.515	3.234	2.976	2.742	12.437	12.156	11.898	11.664	21.360	21.078	20.820	20.587
1.019	3.889	3.612	3.354	3.117	13.490	13.212	12.954	12.717	23.090	22.812	22.554	22.317
1.012	4.411	4.139	3.881	3.639	14.989	14.716	14.458	14.217	25.567	25.294	25.036	24.795
1.006	5.245	4.978	4.721	4.477	17.418	17.151	16.894	16.650	29.591	29.324	29.067	28.823

EDGE ALPHA= 11° N= .85 CUTOFF NUM.=1.069635

1.066	.786	.601	.486	.407	7.426	7.242	7.126	7.047	14.067	13.882	13.767	13.688
1.062	1.175	.920	.752	.634	7.975	7.719	7.551	7.434	14.774	14.519	14.351	14.233
1.057	1.463	1.168	.965	.820	8.432	8.138	7.935	7.790	15.402	15.107	14.905	14.759
1.053	1.704	1.386	1.158	.990	8.851	8.533	8.305	8.137	15.998	15.680	15.452	15.284
1.049	1.926	1.591	1.344	1.157	9.274	8.939	8.692	8.505	16.621	16.287	16.039	15.853
1.044	2.137	1.792	1.529	1.326	9.706	9.361	9.098	8.895	17.275	16.931	16.667	16.464
1.040	2.346	1.995	1.719	1.501	10.162	9.810	9.534	9.316	17.977	17.626	17.350	17.132
1.035	2.561	2.206	1.919	1.688	10.656	10.301	10.014	9.783	18.751	18.396	18.109	17.878
1.031	2.784	2.428	2.133	1.890	11.191	10.834	10.539	10.296	19.597	19.241	18.946	18.703
1.026	3.033	2.676	2.373	2.119	11.820	11.463	11.160	10.906	20.607	20.250	19.947	19.693
1.022	3.307	2.951	2.642	2.377	12.530	12.174	11.865	11.601	21.753	21.397	21.088	20.824
1.018	3.626	3.272	2.959	2.685	13.383	13.029	12.716	12.442	23.141	22.787	22.473	22.199
1.013	4.019	3.668	3.351	3.068	14.461	14.111	13.793	13.510	24.904	24.553	24.236	23.953
1.009	4.549	4.202	3.881	3.589	15.957	15.610	15.290	14.997	27.366	27.019	26.698	26.406
1.004	5.352	5.011	4.690	4.390	18.258	17.917	17.595	17.295	31.163	30.822	30.501	30.201

E D G E	ALPHA= 11°			N= .90	CUTOFF NUM.=1.034515							
	F U N D A M E N T A L M O D E				1 S T H I G H E R M O D E				2 N D H I G H E R M O D E			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.033	.710	.538	.433	.362	8.944	8.772	8.666	8.595	17.177	17.005	16.900	16.829
1.031	1.295	1.005	.818	.688	9.728	9.438	9.250	9.121	18.161	17.871	17.683	17.554
1.028	1.694	1.342	1.104	.935	10.354	10.002	9.764	9.595	19.015	18.663	18.425	18.256
1.025	2.030	1.639	1.363	1.163	10.952	10.561	10.286	10.085	19.874	19.483	19.208	19.007
1.022	2.336	1.919	1.614	1.387	11.541	11.124	10.819	10.591	20.746	20.328	20.024	19.796
1.019	2.632	2.197	1.869	1.617	12.151	11.716	11.388	11.136	21.670	21.235	20.907	20.655
1.017	2.934	2.488	2.140	1.866	12.824	12.378	12.029	11.755	22.713	22.267	21.919	21.645
1.014	3.255	2.801	2.436	2.141	13.576	13.122	12.757	12.462	23.897	23.443	23.078	22.783
1.011	3.607	3.150	2.770	2.457	14.442	13.985	13.605	13.291	25.276	24.819	24.439	24.126
1.008	4.030	3.571	3.178	2.846	15.539	15.080	14.687	14.354	27.048	26.588	26.195	25.863
1.006	4.582	4.121	3.716	3.363	17.037	16.576	16.171	15.818	29.491	29.031	28.626	28.273
1.003	5.370	4.913	4.498	4.126	19.222	18.766	18.351	17.979	33.075	32.618	32.203	31.831
E D G E	ALPHA= 12°			N= .70	CUTOFF NUM.=1.200218							
1.193	.611	.471	.382	.320	5.016	4.876	4.787	4.726	9.421	9.281	9.192	9.131
1.182	.922	.734	.605	.513	5.436	5.248	5.119	5.027	9.950	9.762	9.633	9.542
1.171	1.133	.925	.775	.664	5.763	5.555	5.405	5.294	10.394	10.186	10.036	9.925
1.161	1.303	1.086	.922	.798	6.059	5.842	5.679	5.554	10.815	10.598	10.435	10.310
1.150	1.453	1.232	1.060	.924	6.344	6.124	5.951	5.816	11.236	11.016	10.843	10.708
1.139	1.592	1.370	1.192	1.048	6.630	6.409	6.230	6.086	11.668	11.447	11.268	11.125
1.129	1.726	1.506	1.324	1.173	6.925	6.705	6.523	6.372	12.124	11.904	11.722	11.571
1.118	1.860	1.643	1.458	1.302	7.237	7.019	6.834	6.678	12.613	12.395	12.210	12.054
1.107	1.997	1.782	1.596	1.436	7.568	7.353	7.166	7.006	13.138	12.923	12.736	12.576
1.096	2.142	1.930	1.743	1.580	7.931	7.719	7.532	7.369	13.720	13.508	13.321	13.158
1.086	2.297	2.088	1.901	1.735	8.333	8.124	7.937	7.771	14.368	14.160	13.973	13.807
1.075	2.466	2.261	2.075	1.907	8.782	8.577	8.391	8.223	15.098	14.894	14.707	14.540
1.064	2.663	2.462	2.276	2.106	9.324	9.122	8.937	8.767	15.984	15.783	15.597	15.428
1.054	2.886	2.689	2.505	2.334	9.945	9.748	9.563	9.393	17.004	16.807	16.622	16.451
1.043	3.159	2.966	2.783	2.612	10.719	10.526	10.343	10.171	18.278	18.085	17.902	17.731
1.032	3.504	3.315	3.135	2.963	11.709	11.520	11.339	11.167	19.913	19.724	19.543	19.372
1.021	3.986	3.802	3.624	3.452	13.110	12.926	12.747	12.576	22.234	22.049	21.871	21.700
1.011	4.784	4.605	4.430	4.260	15.455	15.276	15.101	14.931	26.126	25.947	25.772	25.602
E D G E	ALPHA= 12°			N= .75	CUTOFF NUM.=1.147932							
1.142	.669	.515	.417	.350	5.674	5.520	5.422	5.355	10.678	10.524	10.426	10.359
1.133	.996	.788	.648	.549	6.121	5.914	5.774	5.674	11.247	11.039	10.899	10.800
1.125	1.225	.993	.828	.707	6.482	6.249	6.084	5.963	11.738	11.505	11.340	11.219
1.117	1.415	1.169	.987	.850	6.812	6.566	6.384	6.247	12.209	11.963	11.781	11.644
1.108	1.583	1.330	1.137	.987	7.130	6.878	6.684	6.534	12.677	12.425	12.231	12.081
1.100	1.741	1.485	1.283	1.123	7.454	7.198	6.996	6.836	13.167	12.912	12.709	12.549
1.092	1.893	1.637	1.429	1.260	7.784	7.528	7.320	7.151	13.675	13.419	13.211	13.042
1.083	2.048	1.793	1.580	1.404	8.144	7.889	7.676	7.499	14.239	13.984	13.771	13.595
1.075	2.206	1.953	1.737	1.555	8.523	8.270	8.054	7.871	14.839	14.586	14.370	14.187
1.067	2.379	2.128	1.909	1.721	8.960	8.709	8.491	8.302	15.541	15.290	15.072	14.883
1.058	2.562	2.314	2.094	1.902	9.433	9.185	8.965	8.773	16.304	16.056	15.836	15.644
1.050	2.768	2.524	2.303	2.107	9.985	9.741	9.520	9.324	17.202	16.958	16.737	16.541
1.042	3.003	2.762	2.542	2.343	10.625	10.385	10.164	9.965	18.248	18.007	17.787	17.587
1.033	3.283	3.047	2.827	2.625	11.405	11.169	10.949	10.747	19.527	19.290	19.071	18.869
1.025	3.638	3.407	3.188	2.984	12.413	12.181	11.962	11.758	21.187	20.955	20.737	20.533
1.017	4.123	3.896	3.680	3.474	13.808	13.581	13.365	13.159	23.493	23.266	23.050	22.844
1.008	4.930	4.708	4.493	4.287	16.173	15.951	15.736	15.529	27.415	27.193	26.979	26.772
E D G E	ALPHA= 12°			N= .80	CUTOFF NUM.=1.102214							
1.100	.500	.379	.305	.255	6.214	6.093	6.018	5.968	11.927	11.806	11.731	11.681
1.094	.958	.747	.609	.513	6.803	6.591	6.454	6.358	12.647	12.436	12.298	12.202
1.087	1.245	.994	.821	.697	7.229	6.977	6.804	6.680	13.212	12.960	12.787	12.663
1.081	1.478	1.203	1.006	.861	7.627	7.352	7.155	7.010	13.776	13.501	13.304	13.159
1.075	1.679	1.391	1.177	1.015	7.995	7.707	7.493	7.331	14.312	14.024	13.810	13.647
1.069	1.870	1.574	1.346	1.169	8.384	8.088	7.860	7.683	14.898	14.602	14.374	14.197
1.062	2.053	1.753	1.515	1.326	8.776	8.476	8.238	8.049	15.499	15.199	14.960	14.771
1.056	2.236	1.934	1.688	1.489	9.187	8.885	8.639	8.440	16.138	15.836	15.590	15.391
1.050	2.427	2.125	1.873	1.664	9.644	9.342	9.090	8.881	16.861	16.559	16.307	16.098
1.044	2.628	2.328	2.071	1.854	10.141	9.841	9.584	9.367	17.654	17.353	17.097	16.880
1.037	2.849	2.551	2.291	2.066	10.708	10.410	10.150	9.926	18.568	18.270	18.009	17.785
1.031	3.098	2.803	2.540	2.310	11.366	11.071	10.809	10.578	19.634	19.339	19.077	18.846
1.025	3.392	3.101	2.837	2.600	12.167	11.875	11.611	11.375	20.941	20.650	20.386	20.149
1.019	3.749	3.462	3.198	2.957	13.154	12.867	12.603	12.362	22.559	22.272	22.008	21.767
1.012	4.260	3.977	3.711	3.465	14.617	14.334	14.068	13.822	24.974	24.691	24.425	24.179
1.006	5.063	4.785	4.519	4.268	16.953	16.675	16.409	16.158	28.843	28.565	28.300	28.048

EDGE ALPHA= 12° N= .85 CUTOFF NUM.=1.062756

PSI	FUNDAMENTAL MODE RHO= 0.6	0.8	1.0	1.2	1ST HIGHER MODE 0.6	0.8	1.0	1.2	2ND HIGHER MODE 0.6	0.8	1.0	1.2
1.062	.449	.339	.272	.227	7.198	7.088	7.021	6.976	13.947	13.837	13.770	13.725
1.057	1.035	.802	.652	.548	7.944	7.710	7.560	7.456	14.852	14.619	14.469	14.365
1.053	1.386	1.098	.904	.765	8.471	8.183	7.989	7.850	15.556	15.268	15.074	14.935
1.049	1.670	1.349	1.123	.958	8.958	8.638	8.412	8.247	16.247	15.926	15.700	15.535
1.044	1.917	1.577	1.328	1.141	9.412	9.072	8.823	8.636	16.907	16.567	16.318	16.132
1.040	2.151	1.798	1.531	1.326	9.880	9.528	9.260	9.055	17.610	17.257	16.990	16.784
1.035	2.380	2.020	1.738	1.517	10.373	10.013	9.731	9.509	18.365	18.005	17.723	17.501
1.031	2.616	2.252	1.958	1.721	10.911	10.547	10.253	10.016	19.206	18.842	18.548	18.311
1.026	2.866	2.500	2.196	1.946	11.511	11.145	10.841	10.591	20.156	19.790	19.486	19.236
1.022	3.140	2.774	2.462	2.200	12.198	11.832	11.520	11.258	21.256	20.890	20.579	20.317
1.018	3.459	3.093	2.775	2.501	13.034	12.669	12.351	12.077	22.610	22.244	21.926	21.652
1.013	3.833	3.471	3.149	2.865	14.038	13.676	13.353	13.069	24.242	23.880	23.557	23.273
1.009	4.345	3.986	3.658	3.363	15.467	15.108	14.780	14.485	26.589	26.230	25.902	25.607
1.004	5.089	4.737	4.408	4.104	17.571	17.219	16.890	16.586	30.053	29.701	29.372	29.068

EDGE ALPHA= 12° N= .90 CUTOFF NUM.=1.029909

1.028	1.017	.778	.629	.527	9.552	9.314	9.164	9.063	18.088	17.850	17.700	17.598
1.025	1.543	1.209	.989	.835	10.317	9.984	9.764	9.609	19.092	18.758	18.538	18.384
1.022	1.943	1.556	1.289	1.096	10.984	10.598	10.330	10.137	20.026	19.639	19.372	19.179
1.019	2.294	1.874	1.571	1.346	11.637	11.217	10.913	10.689	20.979	20.559	20.256	20.031
1.017	2.629	2.187	1.856	1.603	12.314	11.872	11.541	11.288	21.999	21.557	21.226	20.973
1.014	2.976	2.519	2.163	1.884	13.087	12.630	12.274	11.995	23.198	22.741	22.385	22.106
1.011	3.346	2.880	2.504	2.201	13.963	13.496	13.120	12.817	24.580	24.113	23.737	23.434
1.008	3.767	3.296	2.902	2.577	15.010	14.538	14.145	13.819	26.253	25.781	25.388	25.062
1.006	4.278	3.806	3.399	3.052	16.328	15.856	15.449	15.102	28.378	27.906	27.499	27.152
1.003	5.027	4.556	4.136	3.766	18.367	17.896	17.476	17.106	31.707	31.236	30.816	30.446

EDGE ALPHA= 13° N= .70 CUTOFF NUM.=1.186653

1.182	.511	.390	.315	.264	5.029	4.909	4.833	4.782	9.548	9.427	9.352	9.301
1.171	.900	.712	.586	.496	5.534	5.346	5.220	5.130	10.168	9.980	9.854	9.764
1.161	1.141	.928	.776	.664	5.899	5.686	5.534	5.422	10.657	10.445	10.293	10.180
1.150	1.328	1.105	.938	.810	6.220	5.997	5.829	5.701	11.111	10.888	10.720	10.593
1.139	1.492	1.264	1.087	.948	6.529	6.301	6.124	5.984	11.565	11.338	11.160	11.021
1.129	1.643	1.415	1.231	1.082	6.838	6.610	6.426	6.278	12.034	11.806	11.622	11.474
1.118	1.787	1.561	1.373	1.217	7.155	6.929	6.741	6.585	12.523	12.297	12.108	11.953
1.107	1.933	1.709	1.518	1.357	7.493	7.269	7.078	6.917	13.053	12.829	12.638	12.477
1.096	2.081	1.861	1.669	1.503	7.852	7.631	7.439	7.274	13.623	13.402	13.210	13.045
1.086	2.241	2.024	1.831	1.662	8.258	8.040	7.848	7.679	14.274	14.057	13.864	13.695
1.075	2.416	2.202	2.009	1.838	8.716	8.503	8.310	8.139	15.017	14.804	14.611	14.439
1.064	2.608	2.398	2.207	2.033	9.232	9.023	8.831	8.657	15.857	15.647	15.456	15.282
1.054	2.832	2.627	2.436	2.261	9.851	9.645	9.455	9.279	16.869	16.664	16.473	16.298
1.043	3.097	2.896	2.707	2.531	10.593	10.392	10.203	10.027	18.089	17.888	17.699	17.523
1.032	3.433	3.237	3.050	2.874	11.551	11.355	11.168	10.991	19.668	19.472	19.285	19.109
1.021	3.900	3.709	3.524	3.348	12.902	12.710	12.526	12.349	21.903	21.712	21.527	21.351
1.011	4.657	4.471	4.290	4.115	15.119	14.933	14.752	14.577	25.581	25.395	25.214	25.039

EDGE ALPHA= 13° N= .75 CUTOFF NUM.=1.136921

1.133	.541	.412	.332	.278	5.664	5.536	5.456	5.401	10.787	10.659	10.579	10.525
1.125	.957	.752	.617	.521	6.209	6.004	5.869	5.773	11.461	11.256	11.121	11.025
1.117	1.221	.985	.819	.699	6.609	6.373	6.208	6.087	11.997	11.762	11.596	11.475
1.108	1.432	1.180	.995	.856	6.969	6.718	6.533	6.393	12.507	12.255	12.070	11.931
1.100	1.615	1.356	1.157	1.004	7.311	7.052	6.854	6.700	13.008	12.748	12.550	12.397
1.092	1.787	1.524	1.316	1.151	7.662	7.399	7.191	7.026	13.537	13.274	13.066	12.901
1.083	1.955	1.691	1.476	1.302	8.029	7.766	7.551	7.376	14.104	13.840	13.625	13.451
1.075	2.125	1.862	1.642	1.460	8.425	8.163	7.943	7.760	14.726	14.463	14.244	14.061
1.067	2.299	2.038	1.815	1.626	8.845	8.585	8.362	8.173	15.392	15.132	14.909	14.720
1.058	2.487	2.229	2.004	1.809	9.321	9.064	8.838	8.643	16.156	15.898	15.673	15.478
1.050	2.690	2.436	2.210	2.011	9.848	9.594	9.368	9.169	17.007	16.753	16.527	16.327
1.042	2.926	2.676	2.449	2.246	10.483	10.233	10.006	9.803	18.041	17.791	17.564	17.360
1.033	3.201	2.956	2.729	2.523	11.240	10.994	10.768	10.561	19.279	19.033	18.807	18.600
1.025	3.547	3.306	3.080	2.871	12.211	11.970	11.744	11.536	20.875	20.634	20.408	20.200
1.017	4.007	3.772	3.549	3.338	13.524	13.289	13.066	12.856	23.042	22.807	22.583	22.373
1.008	4.782	4.552	4.330	4.117	15.789	15.559	15.337	15.124	26.796	26.566	26.344	26.131

E D G E	ALPHA= 13°			N= .80	CUTOFF NUM.=1.093534							
	F U N D A M E N T A L M O D E				1 S T H I G H E R M O D E				2 N D H I G H E R M O D E			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.087	.862	.666	.541	.454	6.836	6.640	6.515	6.428	12.810	12.614	12.489	12.402
1.081	1.211	.960	.791	.670	7.343	7.092	6.923	6.802	13.475	13.225	13.055	12.934
1.075	1.474	1.195	.997	.851	7.775	7.496	7.297	7.152	14.076	13.796	13.598	13.453
1.069	1.699	1.404	1.185	1.021	8.180	7.885	7.666	7.502	14.661	14.366	14.148	13.983
1.062	1.906	1.602	1.369	1.188	8.591	8.287	8.053	7.873	15.275	14.971	14.738	14.557
1.056	2.107	1.798	1.553	1.359	9.020	8.711	8.466	8.272	15.933	15.624	15.379	15.185
1.050	2.306	1.995	1.742	1.537	9.464	9.154	8.900	8.695	16.622	16.312	16.059	15.853
1.044	2.513	2.203	1.944	1.728	9.956	9.646	9.386	9.171	17.398	17.088	16.829	16.613
1.037	2.740	2.431	2.167	1.942	10.524	10.215	9.950	9.726	18.307	17.999	17.734	17.509
1.031	2.990	2.684	2.416	2.183	11.168	10.862	10.594	10.362	19.347	19.041	18.773	18.540
1.025	3.280	2.978	2.707	2.468	11.944	11.642	11.371	11.132	20.608	20.306	20.035	19.796
1.019	3.644	3.345	3.072	2.826	12.948	12.649	12.376	12.130	22.252	21.953	21.680	21.434
1.012	4.115	3.822	3.549	3.297	14.272	13.979	13.706	13.454	24.429	24.136	23.863	23.611
1.006	4.848	4.562	4.290	4.034	16.379	16.092	15.820	15.564	27.909	27.622	27.350	27.094
E D G E	ALPHA= 13°			N= .85	CUTOFF NUM.=1.056284							
1.053	.869	.667	.539	.452	7.914	7.711	7.583	7.496	14.958	14.755	14.627	14.540
1.049	1.313	1.032	.845	.714	8.545	8.264	8.077	7.946	15.776	15.496	15.309	15.178
1.044	1.637	1.316	1.092	.929	9.062	8.741	8.517	8.354	16.487	16.166	15.942	15.779
1.040	1.920	1.574	1.322	1.134	9.583	9.236	8.985	8.797	17.245	16.899	16.647	16.460
1.035	2.179	1.818	1.545	1.337	10.094	9.733	9.460	9.251	18.009	17.648	17.375	17.166
1.031	2.434	2.064	1.775	1.548	10.639	10.269	9.979	9.752	18.843	18.473	18.184	17.956
1.026	2.696	2.322	2.019	1.775	11.237	10.862	10.559	10.316	19.777	19.402	19.100	18.856
1.022	2.982	2.604	2.290	2.031	11.931	11.553	11.240	10.981	20.880	20.502	20.189	19.930
1.018	3.298	2.920	2.598	2.325	12.730	12.352	12.030	11.757	22.162	21.784	21.462	21.189
1.013	3.667	3.292	2.963	2.678	13.695	13.320	12.991	12.707	23.723	23.348	23.020	22.735
1.009	4.145	3.774	3.441	3.144	14.996	14.625	14.291	13.994	25.846	25.475	25.141	24.844
1.004	4.850	4.486	4.149	3.841	16.963	16.600	16.263	15.955	29.077	28.713	28.377	28.069
E D G E	ALPHA= 13°			N= .90	CUTOFF NUM.=1.025655							
1.025	.605	.457	.367	.306	9.269	9.121	9.031	8.970	17.933	17.785	17.695	17.634
1.022	1.385	1.075	.875	.736	10.318	10.009	9.808	9.669	19.252	18.942	18.741	18.603
1.019	1.873	1.490	1.229	1.042	11.094	10.710	10.449	10.263	20.314	19.931	19.670	19.483
1.017	2.275	1.850	1.546	1.323	11.792	11.367	11.064	10.840	21.309	20.884	20.581	20.357
1.014	2.670	2.217	1.878	1.620	12.617	12.163	11.824	11.567	22.563	22.109	21.770	21.513
1.011	3.055	2.585	2.220	1.934	13.442	12.972	12.607	12.320	23.828	23.359	22.993	22.707
1.008	3.497	3.015	2.626	2.311	14.504	14.023	13.633	13.318	25.511	25.030	24.640	24.325
1.006	4.013	3.527	3.118	2.776	15.798	15.311	14.902	14.561	27.582	27.096	26.687	26.345
1.003	4.729	4.243	3.817	3.449	17.690	17.204	16.778	16.409	30.650	30.164	29.738	29.370
E D G E	ALPHA= 14°			N= .70	CUTOFF NUM.=1.173745							
1.171	.391	.296	.238	.199	5.026	4.931	4.873	4.834	9.661	9.567	9.509	9.469
1.161	.885	.698	.572	.484	5.649	5.462	5.336	5.248	10.413	10.225	10.100	10.012
1.150	1.157	.939	.784	.670	6.054	5.836	5.681	5.567	10.951	10.733	10.578	10.464
1.139	1.364	1.134	.961	.830	6.405	6.175	6.002	5.871	11.446	11.216	11.044	10.912
1.129	1.541	1.307	1.123	.979	6.740	6.505	6.322	6.178	11.938	11.704	11.520	11.376
1.118	1.703	1.468	1.278	1.125	7.071	6.836	6.646	6.493	12.439	12.204	12.014	11.860
1.107	1.860	1.627	1.432	1.272	7.415	7.182	6.987	6.827	12.970	12.737	12.542	12.381
1.096	2.019	1.788	1.591	1.425	7.786	7.555	7.359	7.192	13.553	13.323	13.126	12.959
1.086	2.184	1.957	1.758	1.587	8.191	7.964	7.766	7.594	14.198	13.971	13.773	13.602
1.075	2.363	2.140	1.941	1.766	8.651	8.428	8.229	8.054	14.939	14.716	14.517	14.342
1.064	2.550	2.332	2.134	1.957	9.139	8.921	8.723	8.546	15.728	15.510	15.312	15.135
1.054	2.779	2.565	2.368	2.188	9.766	9.552	9.354	9.175	16.753	16.539	16.341	16.162
1.043	3.042	2.832	2.637	2.455	10.493	10.284	10.088	9.907	17.945	17.735	17.540	17.359
1.032	3.367	3.163	2.970	2.788	11.411	11.207	11.014	10.832	19.455	19.251	19.058	18.876
1.021	3.820	3.621	3.430	3.248	12.716	12.517	12.326	12.144	21.611	21.412	21.221	21.040
1.011	4.541	4.348	4.161	3.980	14.819	14.626	14.439	14.258	25.097	24.904	24.717	24.536
E D G E	ALPHA= 14°			N= .75	CUTOFF NUM.=1.126458							
1.125	.368	.278	.223	.186	5.620	5.530	5.475	5.438	10.871	10.781	10.726	10.690
1.117	.922	.721	.589	.497	6.310	6.109	5.977	5.885	11.698	11.497	11.365	11.273
1.108	1.225	.985	.818	.696	6.757	6.518	6.350	6.229	12.290	12.050	11.883	11.762
1.100	1.458	1.200	1.011	.869	7.152	6.894	6.704	6.562	12.846	12.587	12.398	12.256
1.092	1.661	1.393	1.189	1.031	7.531	7.263	7.059	6.901	13.401	13.134	12.929	12.772
1.083	1.848	1.577	1.362	1.192	7.912	7.641	7.427	7.256	13.977	13.706	13.491	13.321
1.075	2.032	1.760	1.538	1.357	8.320	8.048	7.826	7.645	14.609	14.337	14.115	13.934
1.067	2.215	1.944	1.717	1.528	8.742	8.471	8.244	8.055	15.269	14.998	14.771	14.582
1.058	2.409	2.141	1.911	1.715	9.218	8.950	8.720	8.523	16.027	15.759	15.529	15.332
1.050	2.619	2.355	2.122	1.920	9.752	9.488	9.255	9.053	16.885	16.621	16.388	16.186
1.042	2.856	2.595	2.361	2.154	10.376	10.115	9.881	9.674	17.896	17.635	17.401	17.194
1.033	3.131	2.875	2.641	2.430	11.124	10.867	10.633	10.422	19.116	18.860	18.626	18.415
1.025	3.469	3.218	2.985	2.770	12.061	11.810	11.577	11.362	20.653	20.402	20.169	19.955
1.017	3.925	3.679	3.448	3.231	13.356	13.111	12.879	12.662	22.788	22.543	22.311	22.094
1.008	4.651	4.411	4.182	3.963	15.461	15.221	14.992	14.773	26.271	26.032	25.802	25.583

EDGE	ALPHA= 14°			N= .80 CUTOFF NUM.=1.085317								
	FUNDAMENTAL MODE				1ST HIGHER MODE				2ND HIGHER MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.081	.755	.579	.468	.392	6.876	6.700	6.589	6.513	12.998	12.821	12.710	12.635
1.075	1.181	.931	.764	.646	7.469	7.220	7.053	6.935	13.757	13.508	13.341	13.223
1.069	1.479	1.195	.995	.849	7.942	7.658	7.458	7.312	14.405	14.121	13.921	13.775
1.062	1.733	1.429	1.206	1.037	8.408	8.105	7.881	7.713	15.083	14.780	14.556	14.388
1.056	1.958	1.645	1.405	1.219	8.844	8.531	8.291	8.105	15.730	15.417	15.176	14.991
1.050	2.178	1.860	1.607	1.406	9.311	8.993	8.740	8.539	16.444	16.126	15.873	15.672
1.044	2.398	2.078	1.816	1.603	9.805	9.485	9.224	9.011	17.213	16.893	16.632	16.418
1.037	2.629	2.309	2.041	1.817	10.356	10.037	9.768	9.544	18.083	17.764	17.495	17.271
1.031	2.887	2.569	2.295	2.061	11.009	10.692	10.418	10.184	19.132	18.814	18.540	18.307
1.025	3.178	2.863	2.586	2.343	11.770	11.456	11.178	10.935	20.362	20.048	19.770	19.528
1.019	3.534	3.223	2.943	2.692	12.735	12.425	12.144	11.894	21.937	21.626	21.346	21.096
1.012	3.984	3.679	3.398	3.142	13.978	13.673	13.392	13.136	23.972	23.667	23.386	23.130
1.006	4.705	4.406	4.124	3.861	16.044	15.745	15.463	15.200	27.382	27.084	26.802	26.539
EDGE	ALPHA= 14°			N= .85 CUTOFF NUM.=1.050209								
1.049	.659	.500	.403	.337	7.856	7.697	7.599	7.533	15.052	14.893	14.795	14.729
1.044	1.240	.968	.790	.666	8.630	8.358	8.180	8.056	16.020	15.748	15.570	15.446
1.040	1.623	1.299	1.075	.914	9.240	8.915	8.691	8.530	16.856	16.532	16.308	16.146
1.035	1.941	1.587	1.330	1.140	9.806	9.452	9.196	9.006	17.672	17.317	17.061	16.871
1.031	2.232	1.860	1.580	1.366	10.380	10.008	9.728	9.514	18.527	18.155	17.875	17.661
1.026	2.517	2.135	1.836	1.602	10.990	10.608	10.309	10.074	19.462	19.080	18.781	18.546
1.022	2.807	2.420	2.107	1.855	11.643	11.256	10.943	10.691	20.479	20.092	19.779	19.527
1.018	3.135	2.746	2.421	2.151	12.451	12.062	11.737	11.467	21.767	21.378	21.052	20.782
1.013	3.495	3.108	2.775	2.491	13.351	12.964	12.631	12.347	23.207	22.820	22.487	22.203
1.009	3.981	3.596	3.254	2.955	14.666	14.280	13.939	13.639	25.350	24.965	24.623	24.323
1.004	4.649	4.271	3.925	3.613	16.494	16.116	15.770	15.458	28.339	27.961	27.616	27.304
EDGE	ALPHA= 14°			N= .90 CUTOFF NUM.=1.021745								
1.019	1.223	.941	.763	.640	10.347	10.065	9.887	9.764	19.471	19.190	19.011	18.888
1.017	1.825	1.444	1.187	1.005	11.256	10.875	10.619	10.437	20.688	20.307	20.050	19.868
1.014	2.301	1.866	1.557	1.331	12.093	11.659	11.350	11.123	21.886	21.451	21.142	20.915
1.011	2.741	2.275	1.927	1.662	12.958	12.492	12.144	11.879	23.175	22.709	22.361	22.096
1.008	3.212	2.725	2.343	2.044	14.022	13.535	13.153	12.854	24.832	24.345	23.963	23.664
1.006	3.742	3.244	2.836	2.503	15.292	14.793	14.385	14.053	26.841	26.343	25.935	25.603
1.003	4.454	3.951	3.520	3.155	17.118	16.616	16.185	15.819	29.783	29.280	28.849	28.484
EDGE	ALPHA= 15°			N= .70 CUTOFF NUM.=1.161465								
1.161	.238	.179	.143	.120	5.013	4.954	4.918	4.895	9.788	9.729	9.693	9.670
1.150	.883	.693	.568	.479	5.790	5.601	5.475	5.387	10.697	10.508	10.382	10.294
1.139	1.185	.961	.802	.685	6.236	6.012	5.853	5.736	11.286	11.062	10.903	10.786
1.129	1.410	1.172	.994	.859	6.614	6.376	6.198	6.062	11.817	11.580	11.402	11.266
1.118	1.601	1.359	1.169	1.020	6.973	6.731	6.542	6.392	12.346	12.104	11.914	11.765
1.107	1.777	1.535	1.338	1.179	7.338	7.096	6.899	6.740	12.899	12.657	12.460	12.300
1.096	1.949	1.708	1.507	1.340	7.720	7.480	7.279	7.111	13.492	13.251	13.050	12.883
1.086	2.122	1.885	1.681	1.508	8.127	7.890	7.687	7.513	14.133	13.896	13.692	13.519
1.075	2.304	2.071	1.867	1.689	8.581	8.348	8.143	7.965	14.857	14.624	14.419	14.241
1.064	2.504	2.276	2.071	1.889	9.099	8.870	8.665	8.484	15.693	15.465	15.260	15.078
1.054	2.729	2.505	2.300	2.116	9.697	9.474	9.269	9.085	16.666	16.442	16.238	16.054
1.043	2.988	2.770	2.567	2.381	10.408	10.189	9.986	9.800	17.827	17.608	17.406	17.220
1.032	3.313	3.100	2.899	2.712	11.316	11.103	10.903	10.716	19.320	19.107	18.906	18.719
1.021	3.764	3.556	3.358	3.169	12.613	12.405	12.206	12.018	21.461	21.253	21.054	20.866
1.011	4.450	4.249	4.055	3.868	14.601	14.400	14.206	14.019	24.752	24.551	24.357	24.170
EDGE	ALPHA= 15°			N= .75 CUTOFF NUM.=1.116524								
1.108	.897	.698	.569	.479	6.436	6.237	6.108	6.018	11.975	11.776	11.647	11.557
1.100	1.242	.996	.826	.703	6.940	6.695	6.524	6.401	12.638	12.393	12.223	12.100
1.092	1.499	1.233	1.038	.892	7.373	7.106	6.911	6.765	13.246	12.980	12.785	12.639
1.083	1.721	1.444	1.233	1.070	7.790	7.514	7.302	7.139	13.859	13.583	13.371	13.208
1.075	1.923	1.643	1.421	1.244	8.199	7.919	7.697	7.520	14.476	14.196	13.973	13.797
1.067	2.118	1.838	1.609	1.421	8.621	8.341	8.111	7.924	15.123	14.844	14.614	14.427
1.058	2.320	2.042	1.807	1.611	9.093	8.816	8.581	8.385	15.867	15.589	15.355	15.159
1.050	2.540	2.265	2.026	1.822	9.643	9.368	9.130	8.926	16.747	16.471	16.233	16.029
1.042	2.778	2.507	2.266	2.056	10.255	9.984	9.744	9.534	17.733	17.461	17.221	17.011
1.033	3.051	2.785	2.544	2.329	10.981	10.714	10.474	10.258	18.911	18.644	18.403	18.188
1.025	3.391	3.130	2.888	2.669	11.918	11.657	11.416	11.196	20.446	20.184	19.943	19.723
1.017	3.841	3.585	3.345	3.122	13.189	12.933	12.692	12.469	22.536	22.280	22.040	21.817
1.008	4.531	4.282	4.044	3.819	15.172	14.923	14.685	14.460	25.812	25.564	25.326	25.100

E D G E ALPHA= 15° N= .80 CUTOFF NUM.=1.077549

	FUNDAMENTAL MODE				1 S T H I G H E R M O D E				2 N D H I G H E R M O D E			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.075	.638	.485	.391	.327	6.914	6.762	6.667	6.603	13.190	13.038	12.944	12.880
1.069	1.158	.909	.745	.629	7.600	7.352	7.187	7.071	14.043	13.795	13.630	13.514
1.062	1.499	1.209	1.005	.856	8.152	7.861	7.657	7.509	14.804	14.514	14.310	14.161
1.056	1.776	1.464	1.234	1.062	8.644	8.332	8.102	7.930	15.512	15.200	14.970	14.797
1.050	2.025	1.702	1.454	1.262	9.128	8.805	8.557	8.365	16.231	15.908	15.660	15.468
1.044	2.266	1.938	1.677	1.469	9.643	9.315	9.053	8.845	17.020	16.691	16.430	16.222
1.037	2.516	2.185	1.914	1.692	10.219	9.889	9.617	9.395	17.922	17.592	17.320	17.098
1.031	2.773	2.444	2.166	1.932	10.834	10.505	10.226	9.993	18.894	18.565	18.287	18.054
1.025	3.072	2.745	2.461	2.216	11.599	11.272	10.988	10.744	20.126	19.799	19.515	19.271
1.019	3.419	3.096	2.809	2.556	12.516	12.193	11.906	11.653	21.613	21.290	21.003	20.750
1.012	3.875	3.558	3.267	3.006	13.772	13.454	13.164	12.902	23.668	23.350	23.060	22.798
1.006	4.561	4.250	3.959	3.689	15.712	15.401	15.110	14.841	26.864	26.552	26.261	25.992
E D G E	ALPHA= 15°				N= .85	CUTOFF NUM.=1.044519						
1.044	.345	.260	.208	.173	7.704	7.619	7.567	7.533	15.064	14.979	14.927	14.892
1.040	1.179	.915	.745	.627	8.755	8.492	8.321	8.203	16.332	16.068	15.898	15.780
1.035	1.625	1.296	1.071	.909	9.448	9.119	8.893	8.732	17.270	16.941	16.716	16.554
1.031	1.980	1.616	1.355	1.160	10.065	9.701	9.439	9.245	18.149	17.786	17.524	17.330
1.026	2.308	1.924	1.635	1.414	10.719	10.335	10.045	9.824	19.129	18.745	18.456	18.235
1.022	2.632	2.236	1.926	1.681	11.421	11.025	10.715	10.470	20.210	19.814	19.504	19.259
1.018	2.965	2.565	2.239	1.974	12.183	11.783	11.457	11.192	21.401	21.002	20.676	20.411
1.013	3.335	2.935	2.598	2.315	13.083	12.683	12.345	12.063	22.831	22.431	22.093	21.810
1.009	3.802	3.404	3.056	2.757	14.297	13.898	13.551	13.251	24.791	24.393	24.045	23.745
1.004	4.481	4.086	3.730	3.413	16.150	15.756	15.400	15.083	27.820	27.426	27.070	26.753
E D G E	ALPHA= 15°				N= .90	CUTOFF NUM.=1.018175						
1.017	1.072	.820	.662	.554	10.420	10.167	10.009	9.902	19.767	19.514	19.357	19.249
1.014	1.817	1.433	1.176	.994	11.510	11.126	10.870	10.688	21.204	20.820	20.563	20.382
1.011	2.367	1.919	1.601	1.368	12.450	12.003	11.685	11.452	22.534	22.087	21.769	21.536
1.008	2.894	2.409	2.044	1.766	13.535	13.049	12.685	12.407	24.176	23.690	23.325	23.047
1.006	3.446	2.940	2.540	2.222	14.756	14.250	13.850	13.532	26.065	25.560	25.160	24.842
1.003	4.174	3.657	3.224	2.865	16.568	16.051	15.618	15.259	28.962	28.445	28.012	27.653

Table AI (2)

Phase Velocities of Love Waves Propagating in a Wedge-Shaped Layer in the Direction of Increasing Thickness of the Layer

EDGE ALPHA= -1° N= .70 CUTOFF NUM.=1.454694

	FUNDAMENTAL MODE				1ST HIGHER MODE				2ND HIGHER MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.443	.381	.292	.237	.198	3.426	3.338	3.282	3.243	6.472	6.383	6.327	6.289
1.432	.528	.413	.338	.285	3.621	3.506	3.431	3.378	6.714	6.599	6.524	6.471
1.421	.636	.506	.417	.354	3.779	3.649	3.560	3.497	6.922	6.792	6.703	6.639
1.409	.725	.585	.487	.415	3.920	3.780	3.681	3.610	7.114	6.974	6.876	6.804
1.398	.803	.656	.550	.472	4.051	3.905	3.799	3.720	7.300	7.153	7.047	6.969
1.386	.872	.722	.610	.526	4.177	4.027	3.915	3.830	7.482	7.331	7.220	7.135
1.375	.937	.783	.667	.578	4.301	4.147	4.031	3.941	7.664	7.511	7.394	7.305
1.364	.998	.843	.723	.629	4.423	4.268	4.148	4.054	7.849	7.693	7.573	7.479
1.352	1.057	.901	.777	.679	4.547	4.390	4.267	4.169	8.036	7.880	7.757	7.659
1.341	1.114	.957	.831	.730	4.672	4.515	4.389	4.288	8.229	8.072	7.946	7.845
1.330	1.171	1.014	.885	.781	4.799	4.642	4.514	4.410	8.428	8.271	8.143	8.039
1.318	1.227	1.070	.940	.833	4.931	4.774	4.644	4.537	8.634	8.477	8.347	8.240
1.307	1.284	1.127	.995	.886	5.066	4.910	4.778	4.669	8.849	8.692	8.561	8.451
1.296	1.341	1.185	1.052	.940	5.207	5.051	4.918	4.806	9.073	8.917	8.784	8.673
1.284	1.400	1.244	1.110	.996	5.354	5.199	5.065	4.951	9.309	9.153	9.019	8.905
1.273	1.460	1.305	1.170	1.054	5.508	5.353	5.219	5.103	9.557	9.402	9.267	9.151
1.261	1.522	1.368	1.232	1.115	5.671	5.516	5.381	5.263	9.819	9.665	9.529	9.412
1.250	1.587	1.433	1.297	1.178	5.842	5.688	5.552	5.433	10.097	9.944	9.808	9.688
1.239	1.654	1.502	1.365	1.244	6.024	5.871	5.735	5.614	10.393	10.241	10.104	9.983
1.227	1.725	1.574	1.437	1.315	6.217	6.066	5.929	5.807	10.710	10.558	10.421	10.299
1.216	1.801	1.650	1.513	1.389	6.425	6.274	6.137	6.014	11.049	10.899	10.761	10.638
1.205	1.881	1.731	1.593	1.469	6.648	6.498	6.361	6.236	11.416	11.266	11.129	11.004
1.193	1.967	1.818	1.680	1.554	6.890	6.741	6.603	6.478	11.813	11.664	11.526	11.401
1.182	2.059	1.911	1.773	1.647	7.152	7.004	6.867	6.740	12.246	12.098	11.960	11.833
1.171	2.160	2.013	1.875	1.747	7.440	7.293	7.155	7.027	12.720	12.573	12.435	12.307
1.159	2.270	2.124	1.986	1.857	7.756	7.610	7.472	7.344	13.243	13.097	12.959	12.831
1.148	2.391	2.246	2.108	1.979	8.108	7.963	7.825	7.696	13.825	13.679	13.542	13.412
1.136	2.527	2.382	2.244	2.114	8.502	8.357	8.220	8.090	14.477	14.333	14.195	14.065
1.125	2.679	2.535	2.398	2.267	8.948	8.804	8.666	8.536	15.217	15.073	14.935	14.805
1.114	2.853	2.710	2.572	2.441	9.459	9.316	9.178	9.047	16.064	15.921	15.784	15.652
1.102	3.054	2.912	2.775	2.643	10.052	9.910	9.773	9.641	17.050	16.908	16.771	16.639
1.091	3.292	3.150	3.013	2.880	10.755	10.613	10.476	10.343	18.218	18.076	17.939	17.806
1.080	3.578	3.437	3.300	3.167	11.604	11.463	11.326	11.193	19.630	19.489	19.352	19.219
1.068	3.933	3.793	3.656	3.522	12.661	12.521	12.384	12.250	21.388	21.248	21.111	20.978
1.057	4.391	4.252	4.115	3.981	14.027	13.887	13.750	13.616	23.662	23.523	23.386	23.252
1.045	5.015	4.876	4.740	4.605	15.890	15.752	15.615	15.480	26.765	26.627	26.490	26.355
1.034	5.949	5.811	5.674	5.539	18.687	18.549	18.412	18.276	31.424	31.286	31.149	31.014
1.023	7.545	7.408	7.271	7.135	23.469	23.331	23.194	23.058	39.393	39.255	39.118	38.982
1.011	11.267	11.131	10.994	10.858	34.625	34.488	34.352	34.216	57.982	57.846	57.709	57.573
EDGE	ALPHA=	-1°		N= .75	CUTOFF NUM.=1.354386							
1.346	.411	.314	.254	.212	3.941	3.844	3.784	3.743	7.471	7.375	7.314	7.273
1.337	.572	.445	.363	.305	4.157	4.030	3.947	3.890	7.741	7.614	7.531	7.474
1.328	.693	.547	.449	.380	4.333	4.188	4.090	4.021	7.974	7.828	7.731	7.661
1.319	.793	.635	.525	.447	4.492	4.334	4.225	4.146	8.191	8.033	7.924	7.845
1.310	.880	.713	.595	.508	4.640	4.474	4.355	4.269	8.400	8.234	8.116	8.029
1.301	.959	.787	.661	.567	4.783	4.611	4.485	4.391	8.607	8.434	8.309	8.215
1.292	1.033	.856	.724	.624	4.924	4.746	4.615	4.515	8.814	8.637	8.505	8.405
1.284	1.103	.923	.786	.680	5.063	4.883	4.746	4.640	9.024	8.843	8.706	8.601
1.275	1.171	.988	.847	.736	5.204	5.021	4.880	4.769	9.237	9.054	8.913	8.802
1.266	1.237	1.052	.907	.792	5.346	5.162	5.017	4.902	9.456	9.272	9.126	9.012
1.257	1.302	1.116	.968	.849	5.492	5.306	5.158	5.039	9.682	9.496	9.348	9.229
1.248	1.367	1.180	1.029	.907	5.641	5.455	5.304	5.181	9.916	9.730	9.579	9.456
1.239	1.432	1.245	1.091	.965	5.796	5.609	5.456	5.330	10.160	9.974	9.820	9.694
1.230	1.498	1.311	1.155	1.026	5.956	5.770	5.614	5.485	10.415	10.229	10.073	9.944
1.221	1.565	1.378	1.221	1.089	6.124	5.937	5.780	5.648	10.683	10.496	10.339	10.207
1.213	1.634	1.448	1.288	1.154	6.299	6.113	5.954	5.819	10.965	10.778	10.619	10.484
1.204	1.705	1.519	1.359	1.221	6.484	6.298	6.137	6.000	11.262	11.077	10.916	10.778
1.195	1.779	1.594	1.432	1.292	6.679	6.493	6.332	6.192	11.578	11.393	11.231	11.091
1.186	1.857	1.672	1.509	1.367	6.886	6.701	6.538	6.396	11.915	11.730	11.567	11.425
1.177	1.938	1.754	1.590	1.446	7.106	6.922	6.758	6.614	12.274	12.090	11.926	11.782
1.168	2.024	1.841	1.676	1.530	7.342	7.159	6.994	6.848	12.660	12.477	12.312	12.166
1.159	2.116	1.933	1.768	1.620	7.596	7.414	7.248	7.100	13.076	12.894	12.729	12.581
1.151	2.214	2.032	1.866	1.717	7.871	7.689	7.523	7.373	13.528	13.346	13.180	13.030
1.142	2.320	2.139	1.972	1.821	8.170	7.989	7.822	7.671	14.020	13.839	13.672	13.521
1.133	2.435	2.255	2.088	1.935	8.497	8.317	8.150	7.997	14.559	14.379	14.212	14.059
1.124	2.561	2.381	2.214	2.059	8.857	8.678	8.510	8.356	15.154	14.975	14.807	14.653
1.115	2.699	2.521	2.353	2.197	9.258	9.079	8.911	8.756	15.816	15.637	15.470	15.314
1.106	2.854	2.676	2.508	2.351	9.706	9.528	9.360	9.203	16.558	16.381	16.213	16.056
1.097	3.028	2.851	2.683	2.524	10.214	10.037	9.869	9.711	17.400	17.223	17.055	16.897
1.089	3.226	3.050	2.882	2.722	10.796	10.620	10.452	10.292	18.366	18.190	18.022	17.862
1.080	3.456	3.281	3.113	2.952	11.473	11.298	11.130	10.969	19.490	19.315	19.147	18.986
1.071	3.728	3.553	3.384	3.223	12.275	12.100	11.932	11.770	20.822	20.648	20.479	20.317
1.062	4.055	3.881	3.712	3.549	13.245	13.071	12.902	12.739	22.435	22.261	22.092	21.929
1.053	4.461	4.288	4.119	3.955	14.453	14.280	14.111	13.947	24.445	24.272	24.103	23.939
1.044	4.986	4.814	4.645	4.480	16.016	15.844	15.675	15.510	27.046	26.874	26.705	26.540
1.035	5.711	5.539	5.370	5.204	18.184	18.012	17.843	17.677	30.656	30.484	30.315	30.149
1.027	6.783	6.611	6.442	6.275	21.389	21.217	21.048	20.881	35.995	35.824	35.654	35.487
1.018	8.634	8.463	8.293	8.125	26.935	26.764	26.594	26.426	45.236	45.065	44.895	44.727
1.009	12.975	12.805	12.636	12.468	39.945	39.775	39.606	39.438	66.915	66.745	66.576	66.408

EDGE ALPHA= -1° N= .80 CUTOFF NUM.=1.266774

	FUNDAMENTAL MODE				1ST HIGHER MODE				2ND HIGHER MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.260	.451	.344	.278	.232	4.612	4.505	4.438	4.393	8.773	8.666	8.599	8.554
1.253	.632	.489	.398	.334	4.855	4.712	4.621	4.557	9.078	8.935	8.844	8.780
1.247	.768	.603	.494	.417	5.056	4.891	4.782	4.705	9.344	9.179	9.069	8.993
1.240	.882	.701	.578	.491	5.237	5.057	4.934	4.846	9.592	9.412	9.289	9.201
1.233	.983	.790	.656	.559	5.408	5.216	5.082	4.984	9.833	9.641	9.507	9.410
1.227	1.074	.873	.730	.624	5.573	5.372	5.229	5.123	10.072	9.871	9.728	9.622
1.220	1.160	.952	.801	.688	5.735	5.528	5.377	5.263	10.311	10.103	9.952	9.839
1.213	1.241	1.029	.871	.751	5.897	5.684	5.526	5.407	10.552	10.340	10.182	10.062
1.207	1.320	1.104	.940	.814	6.059	5.843	5.679	5.553	10.799	10.583	10.419	10.293
1.200	1.397	1.177	1.008	.877	6.224	6.005	5.836	5.704	11.052	10.833	10.664	10.532
1.193	1.472	1.251	1.077	.940	6.393	6.172	5.998	5.861	11.314	11.093	10.919	10.782
1.187	1.548	1.325	1.147	1.005	6.566	6.343	6.166	6.024	11.585	11.362	11.184	11.042
1.180	1.624	1.400	1.218	1.072	6.746	6.521	6.340	6.194	11.867	11.643	11.462	11.315
1.173	1.701	1.476	1.291	1.141	6.932	6.707	6.522	6.371	12.162	11.937	11.753	11.602
1.167	1.780	1.554	1.366	1.212	7.126	6.900	6.713	6.558	12.472	12.246	12.059	11.904
1.160	1.860	1.634	1.444	1.286	7.329	7.103	6.913	6.755	12.798	12.572	12.382	12.224
1.153	1.943	1.717	1.525	1.363	7.543	7.317	7.125	6.962	13.143	12.917	12.724	12.562
1.147	2.030	1.804	1.609	1.444	7.769	7.543	7.349	7.183	13.508	13.282	13.088	12.922
1.140	2.120	1.894	1.698	1.529	8.009	7.783	7.587	7.418	13.898	13.672	13.476	13.307
1.133	2.215	1.989	1.791	1.620	8.265	8.039	7.841	7.669	14.314	14.089	13.891	13.719
1.127	2.316	2.090	1.891	1.716	8.539	8.313	8.114	7.939	14.762	14.536	14.337	14.162
1.120	2.422	2.198	1.997	1.819	8.833	8.608	8.407	8.230	15.244	15.019	14.818	14.641
1.113	2.537	2.313	2.110	1.930	9.152	8.928	8.725	8.545	15.767	15.543	15.340	15.160
1.107	2.660	2.436	2.233	2.050	9.498	9.275	9.072	8.889	16.337	16.113	15.910	15.727
1.100	2.794	2.571	2.366	2.181	9.878	9.655	9.451	9.266	16.962	16.739	16.535	16.350
1.093	2.940	2.718	2.513	2.325	10.296	10.074	9.869	9.681	17.653	17.430	17.225	17.038
1.087	3.102	2.880	2.674	2.484	10.761	10.540	10.334	10.144	18.421	18.199	17.993	17.804
1.080	3.282	3.061	2.854	2.662	11.283	11.062	10.855	10.663	19.284	19.063	18.856	18.664
1.073	3.485	3.264	3.057	2.863	11.873	11.653	11.445	11.251	20.262	20.042	19.834	19.640
1.067	3.716	3.497	3.288	3.092	12.550	12.331	12.123	11.927	21.385	21.166	20.957	20.761
1.060	3.984	3.766	3.557	3.359	13.338	13.120	12.911	12.713	22.693	22.474	22.266	22.068
1.053	4.300	4.083	3.873	3.674	14.272	14.054	13.845	13.645	24.244	24.026	23.817	23.617
1.047	4.682	4.465	4.256	4.054	15.403	15.186	14.976	14.775	26.123	25.906	25.697	25.495
1.040	5.164	4.948	4.737	4.534	16.836	16.620	16.409	16.206	28.508	28.292	28.081	27.878
1.033	5.782	5.566	5.355	5.150	18.677	18.461	18.250	18.045	31.571	31.355	31.144	30.939
1.027	6.629	6.414	6.202	5.995	21.205	20.990	20.779	20.572	35.782	35.567	35.355	35.148
1.020	7.895	7.680	7.468	7.259	24.991	24.777	24.565	24.356	42.088	41.873	41.661	41.453
1.013	10.047	9.834	9.622	9.412	31.435	31.221	31.010	30.800	52.823	52.609	52.397	52.188
1.007	15.335	15.121	14.909	14.697	47.289	47.076	46.863	46.652	79.244	79.031	78.818	78.607

EDGE ALPHA= -1° N= .85 CUTOFF NUM.=1.189518

1.185	.512	.390	.314	.263	5.561	5.438	5.362	5.311	10.609	10.487	10.411	10.359
1.180	.721	.556	.451	.379	5.843	5.678	5.573	5.501	10.965	10.800	10.695	10.623
1.175	.879	.687	.561	.473	6.078	5.886	5.760	5.672	11.277	11.085	10.959	10.871
1.171	1.013	.800	.658	.557	6.292	6.079	5.937	5.836	11.571	11.358	11.216	11.115
1.166	1.131	.904	.747	.635	6.494	6.266	6.110	5.997	11.856	11.629	11.472	11.360
1.161	1.240	1.001	.833	.710	6.689	6.450	6.282	6.160	12.139	11.900	11.732	11.609
1.156	1.342	1.093	.915	.783	6.882	6.634	6.456	6.324	12.423	12.175	11.997	11.865
1.152	1.439	1.183	.996	.856	7.075	6.819	6.632	6.492	12.711	12.455	12.268	12.128
1.147	1.533	1.271	1.076	.928	7.269	7.007	6.812	6.664	13.005	12.743	12.548	12.400
1.142	1.625	1.358	1.156	1.001	7.466	7.199	6.997	6.842	13.307	13.041	12.838	12.683
1.137	1.716	1.446	1.237	1.075	7.667	7.397	7.189	7.027	13.619	13.349	13.140	12.978
1.133	1.807	1.533	1.319	1.151	7.874	7.601	7.387	7.219	13.942	13.669	13.455	13.286
1.128	1.898	1.622	1.403	1.228	8.089	7.813	7.594	7.419	14.279	14.003	13.784	13.610
1.123	1.991	1.713	1.489	1.309	8.311	8.033	7.809	7.629	14.632	14.354	14.130	13.950
1.118	2.085	1.806	1.577	1.392	8.543	8.264	8.036	7.850	15.001	14.722	14.494	14.308
1.114	2.182	1.901	1.669	1.478	8.786	8.506	8.274	8.083	15.391	15.110	14.878	14.687
1.109	2.282	2.001	1.765	1.569	9.042	8.761	8.525	8.329	15.803	15.521	15.285	15.090
1.104	2.386	2.104	1.865	1.664	9.313	9.031	8.792	8.591	16.240	15.958	15.719	15.518
1.099	2.495	2.212	1.970	1.765	9.600	9.317	9.075	8.870	16.705	16.423	16.181	15.976
1.095	2.609	2.326	2.081	1.872	9.906	9.623	9.378	9.169	17.204	16.921	16.676	16.466
1.090	2.730	2.447	2.199	1.985	10.234	9.951	9.704	9.490	17.739	17.456	17.208	16.994
1.085	2.858	2.575	2.326	2.108	10.587	10.304	10.054	9.836	18.316	18.033	17.783	17.565
1.081	2.996	2.713	2.461	2.239	10.969	10.686	10.434	10.212	18.942	18.659	18.407	18.185
1.076	3.144	2.862	2.608	2.382	11.385	11.102	10.848	10.622	19.625	19.343	19.089	18.863
1.071	3.305	3.023	2.767	2.538	11.840	11.558	11.302	11.072	20.375	20.092	19.836	19.607
1.066	3.481	3.200	2.942	2.709	12.342	12.060	11.802	11.569	21.203	20.921	20.663	20.430
1.062	3.676	3.395	3.135	2.899	12.900	12.619	12.359	12.123	22.125	21.843	21.584	21.347
1.057	3.893	3.612	3.351	3.111	13.526	13.246	12.985	12.745	23.160	22.879	22.618	22.379
1.052	4.137	3.857	3.594	3.351	14.236	13.956	13.694	13.451	24.336	24.055	23.793	23.550
1.047	4.416	4.136	3.872	3.626	15.051	14.771	14.508	14.261	25.686	25.406	25.143	24.896
1.043	4.745	4.466	4.200	3.951	16.019	15.740	15.475	15.225	27.294	27.014	26.749	26.500
1.038	5.129	4.850	4.584	4.331	17.151	16.873	16.606	16.353	29.174	28.895	28.629	28.376
1.033	5.593	5.315	5.048	4.792	18.526	18.248	17.981	17.725	31.459	31.181	30.914	30.658
1.028	6.173	5.896	5.627	5.368	20.248	19.971	19.702	19.444	34.324	34.046	33.778	33.519
1.024	6.926	6.649	6.379	6.118	22.491	22.214	21.944	21.683	38.055	37.779	37.509	37.247
1.019	7.963	7.686	7.415	7.151	25.586	25.310	25.039	24.774	43.209	42.933	42.662	42.397
1.014	9.482	9.207	8.936	8.669	30.124	29.849	29.578	29.312	50.766	50.491	50.220	49.954
1.009	12.240	11.964	11.690	11.420	38.394	38.118	37.844	37.573	64.547	64.271	63.998	63.727
1.005	18.796	18.522	18.248	17.976	58.041	57.767	57.494	57.222	97.286	97.012	96.739	96.467

E D G E ALPHA= -1° N= .90 CUTOFF NUM.=1.120755

	F U N D A M E N T A L M O D E				1 S T H I G H E R M O D E				2 N D H I G H E R M O D E			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.118	.618	.470	.378	.316	7.098	6.949	6.858	6.796	13.578	13.429	13.337	13.276
1.115	.872	.671	.543	.456	7.445	7.244	7.116	7.029	14.018	13.816	13.689	13.601
1.112	1.068	.831	.677	.570	7.737	7.500	7.346	7.239	14.406	14.169	14.016	13.909
1.109	1.233	.970	.795	.671	8.004	7.740	7.565	7.442	14.774	14.510	14.335	14.212
1.106	1.381	1.097	.904	.767	8.257	7.973	7.780	7.642	15.132	14.848	14.655	14.518
1.103	1.517	1.217	1.009	.858	8.503	8.202	7.994	7.844	15.488	15.188	14.980	14.829
1.100	1.645	1.332	1.110	.947	8.746	8.432	8.210	8.048	15.846	15.533	15.311	15.148
1.097	1.768	1.443	1.209	1.036	8.989	8.664	8.430	8.257	16.209	15.885	15.651	15.478
1.094	1.887	1.553	1.308	1.125	9.234	8.900	8.655	8.472	16.581	16.247	16.003	15.819
1.091	2.003	1.662	1.408	1.214	9.483	9.142	8.887	8.694	16.963	16.622	16.367	16.174
1.088	2.119	1.772	1.508	1.306	9.738	9.391	9.127	8.925	17.357	17.010	16.746	16.544
1.085	2.235	1.882	1.610	1.399	10.001	9.648	9.376	9.165	17.767	17.414	17.143	16.932
1.082	2.351	1.994	1.714	1.495	10.272	9.915	9.636	9.417	18.194	17.837	17.558	17.338
1.078	2.469	2.108	1.821	1.594	10.555	10.194	9.908	9.680	18.641	18.280	17.994	17.766
1.075	2.589	2.225	1.932	1.697	10.850	10.485	10.193	9.958	19.110	18.746	18.453	18.218
1.072	2.713	2.346	2.047	1.805	11.159	10.792	10.493	10.251	19.604	19.237	18.939	18.696
1.069	2.841	2.472	2.167	1.918	11.484	11.115	10.811	10.561	20.127	19.758	19.454	19.204
1.066	2.973	2.603	2.293	2.037	11.828	11.457	11.148	10.891	20.682	20.312	20.002	19.746
1.063	3.112	2.740	2.426	2.163	12.193	11.821	11.507	11.244	21.274	20.902	20.588	20.325
1.060	3.258	2.885	2.566	2.296	12.583	12.209	11.891	11.621	21.907	21.534	21.215	20.946
1.057	3.412	3.038	2.715	2.439	13.000	12.626	12.303	12.027	22.588	22.214	21.891	21.615
1.054	3.577	3.202	2.875	2.593	13.450	13.075	12.748	12.466	23.323	22.948	22.621	22.339
1.051	3.753	3.377	3.046	2.758	13.937	13.561	13.230	12.942	24.121	23.745	23.415	23.127
1.048	3.942	3.567	3.232	2.938	14.467	14.091	13.757	13.463	24.991	24.615	24.281	23.987
1.045	4.148	3.772	3.435	3.135	15.048	14.672	14.334	14.035	25.947	25.571	25.233	24.934
1.042	4.379	4.003	3.662	3.356	15.708	15.332	14.991	14.686	27.038	26.661	26.320	26.015
1.039	4.630	4.253	3.909	3.598	16.426	16.050	15.705	15.395	28.222	27.846	27.502	27.191
1.036	4.909	4.533	4.186	3.869	17.232	16.856	16.509	16.193	29.556	29.180	28.833	28.516
1.033	5.224	4.848	4.499	4.177	18.148	17.772	17.423	17.101	31.072	30.696	30.347	30.025
1.030	5.586	5.210	4.858	4.531	19.204	18.828	18.476	18.149	32.822	32.446	32.094	31.767
1.027	6.005	5.630	5.275	4.944	20.436	20.060	19.706	19.374	34.866	34.490	34.136	33.804
1.024	6.503	6.128	5.771	5.434	21.903	21.527	21.170	20.834	37.302	36.927	36.570	36.233
1.021	7.108	6.733	6.373	6.032	23.691	23.316	22.957	22.615	40.275	39.900	39.541	39.199
1.018	7.865	7.491	7.129	6.782	25.941	25.567	25.205	24.859	44.018	43.643	43.281	42.935
1.015	8.822	8.449	8.087	7.736	28.784	28.411	28.048	27.698	48.745	48.372	48.010	47.659
1.012	10.152	9.781	9.417	9.063	32.748	32.376	32.012	31.658	55.343	54.971	54.607	54.253
1.009	12.300	11.925	11.556	11.194	39.192	38.817	38.448	38.086	66.083	65.708	65.339	64.977
1.006	15.822	15.450	15.082	14.717	49.723	49.351	48.983	48.619	83.624	83.252	82.884	82.520
1.003	24.920	24.548	24.178	23.810	77.000	76.628	76.258	75.890	129.080	128.708	128.338	127.969

E D G E ALPHA= -2° N= .70 CUTOFF NUM.=1.482249

1.470	.372	.286	.231	.194	3.340	3.253	3.199	3.161	6.308	6.221	6.166	6.129
1.458	.516	.404	.330	.278	3.532	3.419	3.345	3.294	6.547	6.434	6.361	6.309
1.446	.622	.495	.408	.346	3.687	3.560	3.473	3.411	6.752	6.625	6.538	6.476
1.434	.709	.573	.476	.406	3.826	3.689	3.593	3.523	6.943	6.806	6.710	6.640
1.422	.785	.642	.539	.462	3.956	3.813	3.710	3.633	7.127	6.984	6.880	6.804
1.410	.854	.707	.597	.515	4.081	3.934	3.825	3.742	7.308	7.161	7.052	6.969
1.398	.917	.767	.654	.566	4.203	4.054	3.940	3.852	7.490	7.340	7.226	7.139
1.386	.978	.826	.708	.616	4.326	4.174	4.056	3.964	7.674	7.522	7.404	7.312
1.374	1.036	.883	.762	.666	4.448	4.296	4.175	4.079	7.861	7.709	7.588	7.492
1.362	1.092	.939	.816	.717	4.573	4.420	4.297	4.197	8.054	7.901	7.777	7.678
1.350	1.149	.995	.869	.767	4.701	4.547	4.422	4.320	8.253	8.100	7.974	7.872
1.338	1.204	1.051	.924	.819	4.832	4.679	4.551	4.447	8.460	8.307	8.179	8.074
1.326	1.261	1.108	.979	.871	4.968	4.815	4.686	4.579	8.676	8.523	8.394	8.286
1.313	1.318	1.165	1.035	.925	5.110	4.957	4.827	4.717	8.901	8.749	8.618	8.509
1.301	1.376	1.224	1.093	.981	5.257	5.105	4.974	4.862	9.138	8.986	8.855	8.743
1.289	1.437	1.285	1.153	1.039	5.413	5.261	5.129	5.015	9.388	9.237	9.105	8.991
1.277	1.499	1.348	1.215	1.100	5.576	5.425	5.292	5.177	9.653	9.502	9.369	9.254
1.265	1.564	1.414	1.280	1.163	5.749	5.599	5.465	5.348	9.934	9.784	9.651	9.534
1.253	1.632	1.482	1.348	1.230	5.933	5.784	5.650	5.531	10.234	10.085	9.951	9.832
1.241	1.704	1.555	1.421	1.301	6.129	5.981	5.846	5.726	10.555	10.406	10.272	10.152
1.229	1.780	1.632	1.497	1.376	6.340	6.192	6.057	5.936	10.900	10.752	10.618	10.496
1.217	1.861	1.714	1.579	1.456	6.567	6.420	6.285	6.162	11.273	11.126	10.991	10.869
1.205	1.948	1.802	1.666	1.543	6.813	6.667	6.531	6.408	11.678	11.531	11.396	11.273
1.193	2.042	1.897	1.761	1.637	7.081	6.935	6.800	6.675	12.119	11.974	11.839	11.714
1.181	2.146	2.001	1.865	1.740	7.378	7.234	7.098	6.973	12.611	12.467	12.331	12.206
1.169	2.258	2.114	1.979	1.852	7.704	7.560	7.424	7.298	13.150	13.006	12.870	12.744
1.157	2.383	2.240	2.104	1.977	8.066	7.923	7.788	7.660	13.750	13.607	13.471	13.343
1.145	2.523	2.380	2.245	2.116	8.474	8.331	8.196	8.067	14.425	14.283	14.147	14.019
1.133	2.680	2.539	2.403	2.274	8.937	8.795	8.659	8.530	15.193	15.051	14.915	14.786
1.121	2.861	2.720	2.584	2.455	9.469	9.328	9.192	9.062	16.077	15.936	15.800	15.670
1.109	3.072	2.931	2.795	2.665	10.091	9.950	9.815	9.684	17.110	16.970	16.834	16.703
1.096	3.321	3.182	3.046	2.915	10.832	10.692	10.556	10.425	18.342	18.202	18.066	17.935
1.084	3.625	3.486	3.350	3.218	11.734	11.594	11.459	11.327	19.843	19.703	19.567	19.435
1.072	4.005	3.866	3.730	3.598	12.867	12.729	12.593	12.460	21.730	21.591	21.455	21.322
1.060	4.490	4.352	4.216	4.083	14.312	14.174	14.039	13.905	24.135	23.997	23.861	23.728
1.048	5.163	5.026	4.890	4.756	16.325	16.188	16.052	15.919	27.488	27.350	27.214	27.081
1.036	6.187	6.050	5.915	5.780	19.392	19.255	19.119	18.985	32.597	32.460	32.324	32.190
1.024	8.007	7.870	7.734	7.599	24.849	24.712	24.576	24.440	41.690	41.553	41.417	41.282

EDGE ALPHA= -2° N= .75 CUTOFF NUM.=1.376540

	FUNDAMENTAL MODE				1ST HIGHER MODE				2ND HIGHER MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.367	.403	.308	.249	.209	3.853	3.758	3.699	3.658	7.302	7.208	7.148	7.108
1.358	.562	.437	.356	.300	4.066	3.941	3.860	3.804	7.570	7.445	7.364	7.308
1.348	.680	.538	.442	.374	4.241	4.098	4.002	3.934	7.801	7.659	7.563	7.495
1.339	.779	.624	.517	.439	4.398	4.243	4.136	4.059	8.017	7.863	7.755	7.678
1.329	.865	.701	.585	.500	4.546	4.382	4.266	4.181	8.227	8.063	7.947	7.862
1.320	.943	.774	.650	.558	4.688	4.519	4.395	4.303	8.433	8.264	8.140	8.048
1.311	1.016	.842	.713	.615	4.828	4.654	4.525	4.427	8.640	8.467	8.337	8.239
1.301	1.086	.909	.774	.671	4.968	4.791	4.656	4.553	8.850	8.673	8.539	8.435
1.292	1.153	.973	.834	.726	5.109	4.929	4.790	4.682	9.065	8.885	8.746	8.638
1.282	1.218	1.037	.895	.782	5.251	5.071	4.928	4.815	9.285	9.104	8.961	8.849
1.273	1.283	1.101	.955	.838	5.398	5.216	5.070	4.953	9.512	9.331	9.185	9.068
1.264	1.347	1.165	1.016	.896	5.548	5.366	5.217	5.096	9.749	9.566	9.418	9.297
1.254	1.412	1.230	1.079	.955	5.704	5.521	5.370	5.246	9.995	9.812	9.661	9.537
1.245	1.478	1.295	1.142	1.015	5.866	5.683	5.530	5.402	10.253	10.070	9.917	9.790
1.235	1.546	1.363	1.208	1.078	6.035	5.852	5.697	5.567	10.524	10.341	10.186	10.056
1.226	1.615	1.433	1.276	1.143	6.212	6.030	5.873	5.740	10.810	10.627	10.470	10.338
1.217	1.687	1.505	1.347	1.211	6.400	6.217	6.059	5.924	11.112	10.930	10.772	10.636
1.207	1.762	1.580	1.421	1.283	6.598	6.416	6.256	6.119	11.433	11.251	11.092	10.954
1.198	1.840	1.659	1.499	1.359	6.808	6.627	6.466	6.326	11.776	11.595	11.434	11.294
1.188	1.923	1.742	1.581	1.439	7.033	6.852	6.691	6.549	12.143	11.962	11.801	11.659
1.179	2.011	1.831	1.669	1.525	7.278	7.098	6.935	6.791	12.544	12.364	12.202	12.058
1.169	2.105	1.925	1.762	1.616	7.538	7.359	7.196	7.050	12.972	12.792	12.629	12.483
1.160	2.205	2.026	1.863	1.715	7.821	7.642	7.478	7.331	13.436	13.258	13.094	12.946
1.151	2.314	2.136	1.972	1.822	8.129	7.951	7.787	7.637	13.944	13.766	13.602	13.452
1.141	2.432	2.255	2.090	1.939	8.467	8.289	8.125	7.974	14.502	14.324	14.160	14.008
1.132	2.562	2.385	2.220	2.067	8.841	8.664	8.499	8.346	15.119	14.943	14.777	14.625
1.122	2.706	2.530	2.364	2.210	9.257	9.081	8.915	8.761	15.808	15.632	15.467	15.313
1.113	2.866	2.691	2.525	2.370	9.726	9.550	9.384	9.229	16.585	16.409	16.243	16.088
1.104	3.049	2.874	2.708	2.551	10.259	10.084	9.918	9.761	17.469	17.295	17.128	16.972
1.094	3.257	3.083	2.917	2.758	10.873	10.699	10.532	10.374	18.489	18.315	18.148	17.990
1.085	3.501	3.327	3.160	3.001	11.592	11.418	11.251	11.092	19.682	19.509	19.342	19.183
1.075	3.790	3.617	3.450	3.289	12.449	12.276	12.109	11.948	21.107	20.935	20.767	20.607
1.066	4.134	3.962	3.795	3.633	13.469	13.297	13.130	12.968	22.804	22.632	22.465	22.303
1.056	4.570	4.398	4.231	4.068	14.766	14.594	14.427	14.264	24.961	24.790	24.623	24.460
1.047	5.136	4.966	4.798	4.634	16.455	16.284	16.117	15.953	27.773	27.603	27.435	27.271
1.038	5.932	5.762	5.594	5.429	18.836	18.666	18.498	18.333	31.740	31.570	31.402	31.237
1.028	7.142	6.972	6.803	6.637	22.458	22.288	22.119	21.953	37.774	37.604	37.436	37.269
1.019	9.281	9.111	8.942	8.775	28.868	28.698	28.530	28.362	48.456	48.286	48.117	47.949
1.009	14.792	14.623	14.453	14.285	45.398	45.229	45.059	44.890	76.004	75.834	75.665	75.496

EDGE ALPHA= -2° N= .80 CUTOFF NUM.=1.284401

1.277	.445	.340	.274	.229	4.522	4.417	4.351	4.306	8.599	8.494	8.428	8.384
1.270	.624	.483	.393	.330	4.763	4.623	4.533	4.470	8.903	8.763	8.673	8.610
1.263	.758	.596	.488	.412	4.964	4.801	4.693	4.617	9.169	9.006	8.899	8.823
1.256	.871	.693	.572	.485	5.144	4.967	4.845	4.759	9.418	9.240	9.119	9.032
1.249	.970	.781	.649	.553	5.315	5.126	4.994	4.898	9.660	9.471	9.339	9.242
1.242	1.061	.864	.722	.618	5.480	5.283	5.141	5.037	9.899	9.702	9.560	9.456
1.235	1.146	.942	.793	.681	5.643	5.439	5.290	5.178	10.140	9.936	9.787	9.675
1.228	1.227	1.018	.862	.744	5.805	5.597	5.441	5.322	10.384	10.175	10.019	9.901
1.220	1.305	1.093	.931	.807	5.969	5.757	5.595	5.470	10.633	10.420	10.259	10.134
1.213	1.382	1.167	1.000	.870	6.136	5.920	5.753	5.623	10.889	10.674	10.507	10.377
1.206	1.458	1.240	1.069	.934	6.306	6.088	5.917	5.782	11.154	10.936	10.765	10.630
1.199	1.534	1.314	1.139	.999	6.481	6.262	6.087	5.947	11.429	11.210	11.034	10.894
1.192	1.610	1.390	1.211	1.066	6.663	6.442	6.264	6.119	11.716	11.495	11.316	11.172
1.185	1.688	1.466	1.284	1.135	6.852	6.630	6.448	6.299	12.016	11.795	11.613	11.464
1.178	1.768	1.546	1.361	1.208	7.053	6.831	6.646	6.493	12.339	12.116	11.931	11.778
1.171	1.849	1.627	1.439	1.283	7.261	7.038	6.851	6.694	12.672	12.450	12.262	12.105
1.164	1.934	1.711	1.521	1.361	7.480	7.257	7.067	6.907	13.026	12.803	12.613	12.453
1.156	2.022	1.799	1.607	1.443	7.712	7.489	7.297	7.133	13.401	13.179	12.987	12.823
1.149	2.114	1.891	1.698	1.531	7.958	7.736	7.542	7.375	13.802	13.580	13.386	13.219
1.142	2.211	1.989	1.793	1.623	8.222	7.999	7.804	7.634	14.232	14.010	13.814	13.644
1.135	2.314	2.092	1.895	1.722	8.504	8.282	8.085	7.912	14.694	14.473	14.275	14.102
1.128	2.424	2.202	2.004	1.828	8.809	8.588	8.389	8.213	15.195	14.973	14.774	14.598
1.121	2.542	2.321	2.121	1.942	9.140	8.919	8.719	8.540	15.738	15.517	15.317	15.139
1.114	2.670	2.449	2.248	2.067	9.501	9.281	9.079	8.898	16.333	16.112	15.911	15.730
1.107	2.809	2.589	2.386	2.203	9.898	9.678	9.475	9.292	16.987	16.767	16.564	16.381
1.100	2.962	2.742	2.539	2.353	10.337	10.118	9.914	9.728	17.713	17.493	17.290	17.104
1.092	3.131	2.912	2.708	2.519	10.827	10.608	10.404	10.215	18.523	18.304	18.100	17.911
1.085	3.321	3.103	2.897	2.707	11.379	11.161	10.956	10.765	19.437	19.219	19.014	18.823
1.078	3.536	3.318	3.112	2.919	12.008	11.790	11.584	11.391	20.480	20.262	20.056	19.863
1.071	3.783	3.566	3.359	3.164	12.734	12.517	12.310	12.115	21.685	21.468	21.261	21.066
1.064	4.063	3.847	3.639	3.443	13.556	13.340	13.133	12.936	23.049	22.833	22.626	22.429
1.057	4.401	4.185	3.978	3.779	14.556	14.340	14.132	13.934	24.710	24.495	24.287	24.088
1.050	4.812	4.597	4.389	4.188	15.774	15.559	15.351	15.151	26.736	26.522	26.313	26.113
1.043	5.347	5.132	4.923	4.720	17.372	17.157	16.948	16.745	29.397	29.182	28.973	28.770
1.036	6.011	5.797	5.588	5.384	19.348	19.134	18.925	18.720	32.684	32.470	32.261	32.057
1.028	6.973	6.759	6.549	6.342	22.225	22.011	21.801	21.594	37.476	37.263	37.052	36.846
1.021	8.424	8.210	7.999	7.791	26.567	26.354	26.143	25.935	44.711	44.498	44.287	44.079
1.014	11.035	10.822	10.611	10.401	34.394	34.181	33.970	33.760	57.753	57.540	57.328	57.119
1.007	17.931	17.718	17.506	17.294	55.074	54.861	54.649	54.437	92.217	92.004	91.792	91.580

E D G E ALPHA= -2° N= .85 CUTOFF NUM.=1.203228

	FUNDAMENTAL MODE				1 S T H I G H E R M O D E				2 N D H I G H E R M O D E			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.198	.508	.387	.312	.261	5.470	5.348	5.273	5.222	10.431	10.309	10.234	10.183
1.193	.715	.552	.448	.376	5.751	5.588	5.484	5.412	10.788	10.625	10.520	10.449
1.188	.873	.682	.557	.470	5.987	5.797	5.672	5.584	11.101	10.911	10.786	10.699
1.183	1.005	.795	.654	.554	6.201	5.991	5.850	5.750	11.397	11.187	11.046	10.946
1.178	1.124	.899	.744	.632	6.408	6.183	6.028	5.916	11.692	11.467	11.312	11.201
1.173	1.232	.996	.829	.708	6.606	6.369	6.203	6.081	11.979	11.743	11.576	11.454
1.168	1.334	1.089	.912	.781	6.801	6.556	6.379	6.248	12.268	12.022	11.845	11.715
1.163	1.432	1.179	.993	.854	6.996	6.743	6.558	6.419	12.561	12.308	12.122	11.983
1.158	1.526	1.267	1.074	.927	7.193	6.935	6.741	6.594	12.861	12.602	12.409	12.262
1.152	1.619	1.355	1.155	1.001	7.394	7.131	6.930	6.776	13.169	12.906	12.706	12.551
1.147	1.710	1.443	1.237	1.076	7.599	7.332	7.126	6.965	13.488	13.221	13.015	12.854
1.142	1.802	1.532	1.320	1.152	7.811	7.541	7.329	7.161	13.820	13.550	13.338	13.170
1.137	1.895	1.622	1.405	1.231	8.031	7.758	7.541	7.367	14.167	13.894	13.677	13.503
1.132	1.989	1.714	1.492	1.313	8.259	7.985	7.762	7.583	14.529	14.255	14.033	13.854
1.127	2.085	1.809	1.582	1.398	8.498	8.222	7.995	7.811	14.911	14.635	14.408	14.224
1.122	2.184	1.907	1.676	1.486	8.749	8.471	8.241	8.051	15.314	15.036	14.806	14.616
1.117	2.286	2.008	1.774	1.579	9.013	8.735	8.501	8.306	15.741	15.462	15.229	15.034
1.112	2.393	2.114	1.877	1.677	9.294	9.015	8.778	8.578	16.195	15.916	15.679	15.479
1.107	2.505	2.226	1.986	1.781	9.592	9.313	9.073	8.868	16.680	16.400	16.160	15.956
1.102	2.623	2.344	2.101	1.892	9.912	9.633	9.389	9.181	17.201	16.921	16.678	16.469
1.097	2.749	2.469	2.223	2.010	10.255	9.975	9.730	9.517	17.762	17.482	17.236	17.023
1.091	2.883	2.603	2.354	2.137	10.626	10.346	10.098	9.880	18.369	18.089	17.841	17.623
1.086	3.026	2.747	2.496	2.275	11.028	10.748	10.498	10.276	19.030	18.750	18.499	18.278
1.081	3.182	2.902	2.650	2.425	11.468	11.188	10.935	10.710	19.753	19.473	19.221	18.996
1.076	3.352	3.073	2.818	2.589	11.951	11.672	11.417	11.188	20.551	20.271	20.017	19.788
1.071	3.539	3.260	3.003	2.771	12.488	12.209	11.952	11.719	21.437	21.158	20.901	20.668
1.066	3.739	3.461	3.203	2.967	13.062	12.783	12.525	12.289	22.384	22.106	21.848	21.612
1.061	3.969	3.691	3.432	3.192	13.728	13.450	13.191	12.951	23.487	23.209	22.950	22.710
1.056	4.229	3.952	3.691	3.448	14.487	14.209	13.949	13.706	24.745	24.467	24.206	23.964
1.051	4.528	4.251	3.989	3.743	15.361	15.084	14.822	14.577	26.195	25.918	25.656	25.410
1.046	4.890	4.613	4.349	4.099	16.433	16.156	15.892	15.642	27.976	27.699	27.435	27.185
1.041	5.314	5.037	4.771	4.519	17.688	17.411	17.146	16.893	30.062	29.786	29.520	29.267
1.036	5.805	5.530	5.264	5.009	19.138	18.863	18.597	18.342	32.472	32.196	31.931	31.676
1.030	6.462	6.187	5.919	5.661	21.097	20.822	20.555	20.296	35.733	35.457	35.190	34.931
1.025	7.312	7.037	6.769	6.507	23.632	23.357	23.088	22.827	39.951	39.676	39.408	39.146
1.020	8.504	8.229	7.959	7.695	27.193	26.918	26.648	26.384	45.881	45.607	45.337	45.073
1.015	10.342	10.067	9.797	9.530	32.694	32.420	32.149	31.882	55.046	54.772	54.501	54.234
1.010	13.707	13.433	13.161	12.891	42.777	42.503	42.231	41.961	71.847	71.573	71.301	71.032

E D G E ALPHA= -2° N= .90 CUTOFF NUM.=1.130915

1.128	.619	.470	.379	.317	7.014	6.865	6.774	6.712	13.409	13.260	13.169	13.107
1.124	.873	.672	.545	.457	7.364	7.163	7.036	6.948	13.855	13.654	13.527	13.439
1.121	1.069	.832	.679	.571	7.660	7.423	7.270	7.162	14.251	14.014	13.861	13.753
1.118	1.235	.972	.797	.674	7.930	7.668	7.493	7.369	14.626	14.363	14.188	14.065
1.115	1.384	1.101	.908	.770	8.188	7.905	7.712	7.575	14.992	14.710	14.517	14.379
1.111	1.521	1.222	1.014	.863	8.439	8.140	7.932	7.781	15.357	15.058	14.850	14.700
1.108	1.650	1.338	1.116	.953	8.688	8.376	8.154	7.991	15.726	15.414	15.192	15.029
1.105	1.774	1.451	1.217	1.044	8.938	8.615	8.381	8.207	16.101	15.778	15.545	15.371
1.101	1.895	1.563	1.318	1.134	9.190	8.858	8.613	8.429	16.485	16.153	15.909	15.725
1.098	2.013	1.674	1.420	1.226	9.447	9.108	8.853	8.660	16.881	16.541	16.287	16.093
1.095	2.131	1.786	1.522	1.319	9.711	9.365	9.102	8.899	17.290	16.945	16.682	16.479
1.092	2.249	1.898	1.627	1.415	9.983	9.632	9.361	9.149	17.717	17.366	17.095	16.883
1.088	2.368	2.013	1.734	1.514	10.265	9.910	9.631	9.411	18.163	17.808	17.529	17.309
1.085	2.489	2.131	1.845	1.617	10.560	10.201	9.915	9.687	18.630	18.272	17.986	17.758
1.082	2.614	2.252	1.959	1.724	10.868	10.506	10.214	9.978	19.123	18.761	18.469	18.233
1.079	2.742	2.377	2.079	1.836	11.193	10.828	10.530	10.287	19.643	19.279	18.981	18.737
1.075	2.875	2.508	2.204	1.954	11.535	11.169	10.865	10.614	20.196	19.830	19.526	19.275
1.072	3.013	2.645	2.336	2.078	11.899	11.531	11.222	10.964	20.785	20.417	20.107	19.850
1.069	3.153	2.784	2.470	2.207	12.265	11.896	11.582	11.319	21.377	21.008	20.695	20.431
1.065	3.306	2.935	2.617	2.347	12.676	12.306	11.988	11.717	22.047	21.676	21.358	21.088
1.062	3.467	3.096	2.774	2.497	13.116	12.745	12.423	12.146	22.765	22.394	22.072	21.795
1.059	3.640	3.268	2.942	2.659	13.593	13.221	12.894	12.612	23.545	23.174	22.847	22.564
1.056	3.825	3.453	3.123	2.834	14.109	13.737	13.407	13.118	24.393	24.021	23.691	23.402
1.052	4.026	3.653	3.320	3.025	14.674	14.301	13.967	13.673	25.321	24.948	24.615	24.320
1.049	4.244	3.872	3.535	3.235	15.293	14.920	14.584	14.284	26.342	25.969	25.633	25.332
1.046	4.498	4.124	3.784	3.477	16.027	15.653	15.313	15.006	27.556	27.182	26.842	26.535
1.043	4.771	4.397	4.053	3.740	16.814	16.440	16.096	15.784	28.858	28.484	28.140	27.828
1.039	5.082	4.707	4.360	4.042	17.721	17.346	16.999	16.681	30.360	29.986	29.638	29.320
1.036	5.402	5.029	4.681	4.359	18.642	18.269	17.921	17.599	31.882	31.509	31.161	30.839
1.033	5.820	5.446	5.094	4.766	19.879	19.505	19.153	18.824	33.937	33.563	33.211	32.883
1.029	6.274	5.901	5.547	5.215	21.211	20.838	20.484	20.151	36.147	35.774	35.420	35.087
1.026	6.831	6.459	6.102	5.765	22.857	22.485	22.128	21.790	38.883	38.511	38.154	37.816
1.023	7.515	7.143	6.784	6.441	24.885	24.512	24.154	23.811	42.255	41.882	41.524	41.181
1.020	8.384	8.012	7.651	7.304	27.471	27.099	26.738	26.390	46.557	46.185	45.825	45.477
1.013	11.173	10.801	10.437	10.080	35.797	35.426	35.061	34.704	60.422	60.050	59.685	59.329
1.010	13.744	13.373	13.006	12.645	43.495	43.123	42.756	42.395	73.245	72.874	72.507	72.146
1.007	18.596	18.225	17.856	17.491	58.035	57.663	57.295	56.929	97.473	97.102	96.733	96.368

EDGE ALPHA= -3° N= .70 CUTOFF NUM.=1.511338

	FUNDAMENTAL MODE				1ST HIGHER MODE				2ND HIGHER MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.499	.364	.279	.226	.189	3.256	3.171	3.118	3.082	6.149	6.064	6.011	5.974
1.486	.504	.395	.322	.272	3.444	3.335	3.262	3.212	6.385	6.275	6.203	6.152
1.473	.608	.484	.399	.338	3.598	3.473	3.389	3.328	6.587	6.463	6.378	6.318
1.460	.693	.560	.466	.397	3.735	3.601	3.507	3.439	6.776	6.643	6.549	6.480
1.447	.768	.628	.527	.452	3.863	3.724	3.623	3.548	6.959	6.819	6.718	6.643
1.435	.835	.692	.585	.504	3.987	3.844	3.737	3.656	7.139	6.996	6.889	6.808
1.422	.898	.751	.640	.555	4.109	3.963	3.851	3.766	7.320	7.174	7.062	6.977
1.409	.957	.809	.694	.604	4.230	4.082	3.967	3.877	7.503	7.355	7.240	7.150
1.396	1.015	.865	.747	.654	4.353	4.203	4.085	3.992	7.691	7.541	7.423	7.330
1.384	1.071	.921	.800	.703	4.477	4.327	4.207	4.110	7.883	7.734	7.613	7.516
1.371	1.127	.976	.854	.753	4.605	4.455	4.332	4.232	8.083	7.933	7.810	7.710
1.358	1.182	1.032	.907	.804	4.736	4.586	4.461	4.359	8.290	8.140	8.015	7.913
1.345	1.238	1.088	.962	.857	4.872	4.722	4.596	4.491	8.506	8.357	8.230	8.125
1.332	1.295	1.146	1.018	.911	5.014	4.865	4.737	4.630	8.733	8.584	8.456	8.349
1.320	1.354	1.205	1.076	.967	5.165	5.016	4.887	4.778	8.976	8.827	8.698	8.588
1.307	1.414	1.266	1.136	1.025	5.321	5.173	5.043	4.932	9.228	9.080	8.950	8.839
1.294	1.477	1.329	1.199	1.085	5.487	5.339	5.208	5.095	9.496	9.348	9.218	9.104
1.281	1.542	1.395	1.264	1.149	5.662	5.514	5.383	5.268	9.781	9.634	9.503	9.388
1.268	1.611	1.464	1.333	1.216	5.848	5.701	5.570	5.453	10.085	9.939	9.807	9.691
1.256	1.683	1.537	1.405	1.287	6.047	5.902	5.770	5.652	10.412	10.266	10.134	10.016
1.243	1.760	1.615	1.483	1.363	6.262	6.117	5.984	5.865	10.763	10.618	10.486	10.367
1.230	1.843	1.698	1.565	1.445	6.493	6.349	6.216	6.096	11.144	11.000	10.867	10.747
1.217	1.931	1.788	1.655	1.533	6.745	6.601	6.468	6.347	11.559	11.415	11.282	11.160
1.205	2.028	1.885	1.751	1.628	7.020	6.877	6.744	6.621	12.013	11.870	11.737	11.614
1.192	2.133	1.990	1.857	1.733	7.323	7.181	7.047	6.923	12.513	12.371	12.237	12.113
1.179	2.248	2.107	1.973	1.848	7.658	7.517	7.383	7.258	13.068	12.926	12.793	12.668
1.166	2.377	2.236	2.102	1.976	8.033	7.892	7.758	7.632	13.689	13.548	13.414	13.288
1.153	2.518	2.378	2.244	2.118	8.446	8.306	8.172	8.046	14.374	14.234	14.100	13.974
1.141	2.681	2.542	2.408	2.280	8.925	8.785	8.651	8.524	15.169	15.029	14.895	14.768
1.128	2.868	2.729	2.595	2.467	9.476	9.337	9.203	9.074	16.083	15.944	15.810	15.682
1.115	3.086	2.947	2.813	2.684	10.120	9.982	9.848	9.719	17.155	17.016	16.882	16.753
1.102	3.351	3.213	3.079	2.949	10.910	10.772	10.637	10.507	18.468	18.330	18.196	18.066
1.089	3.674	3.536	3.401	3.270	11.871	11.733	11.598	11.467	20.067	19.930	19.795	19.664
1.077	4.063	3.926	3.792	3.660	13.029	12.892	12.758	12.627	21.995	21.858	21.724	21.593
1.064	4.599	4.463	4.328	4.195	14.634	14.497	14.362	14.230	24.669	24.532	24.397	24.265
1.051	5.339	5.202	5.067	4.934	16.846	16.710	16.575	16.441	28.354	28.217	28.082	27.949
1.038	6.475	6.338	6.203	6.069	20.250	20.114	19.979	19.844	34.026	33.889	33.754	33.620
1.026	8.542	8.406	8.270	8.135	26.450	26.313	26.177	26.042	44.357	44.220	44.085	43.950

EDGE ALPHA= -3° N= .75 CUTOFF NUM.=1.399864

1.390	.395	.303	.244	.205	3.767	3.674	3.616	3.577	7.139	7.046	6.988	6.948
1.380	.551	.429	.350	.295	3.978	3.856	3.776	3.721	7.404	7.282	7.202	7.147
1.370	.668	.528	.434	.367	4.151	4.011	3.917	3.850	7.634	7.494	7.400	7.333
1.360	.765	.613	.508	.432	4.307	4.155	4.050	3.974	7.849	7.697	7.592	7.516
1.350	.850	.690	.576	.492	4.454	4.294	4.180	4.096	8.058	7.898	7.784	7.700
1.340	.927	.761	.640	.549	4.596	4.430	4.308	4.218	8.264	8.098	7.977	7.886
1.330	.999	.829	.702	.605	4.735	4.565	4.438	4.341	8.471	8.301	8.174	8.078
1.320	1.068	.895	.763	.661	4.877	4.704	4.571	4.470	8.686	8.512	8.380	8.278
1.310	1.135	.959	.823	.716	5.018	4.842	4.706	4.599	8.901	8.726	8.589	8.483
1.300	1.200	1.023	.883	.772	5.162	4.984	4.844	4.733	9.123	8.946	8.806	8.695
1.290	1.265	1.086	.943	.828	5.309	5.130	4.987	4.872	9.353	9.175	9.031	8.916
1.280	1.329	1.150	1.004	.885	5.461	5.281	5.135	5.017	9.592	9.413	9.267	9.148
1.270	1.394	1.215	1.066	.944	5.618	5.438	5.290	5.168	9.841	9.662	9.513	9.391
1.260	1.461	1.281	1.130	1.005	5.782	5.602	5.451	5.326	10.103	9.923	9.772	9.647
1.250	1.528	1.349	1.196	1.068	5.953	5.774	5.621	5.493	10.378	10.198	10.046	9.918
1.240	1.598	1.419	1.265	1.134	6.134	5.954	5.800	5.669	10.669	10.489	10.335	10.204
1.230	1.671	1.492	1.336	1.203	6.324	6.145	5.989	5.856	10.977	10.798	10.642	10.509
1.220	1.747	1.568	1.411	1.275	6.526	6.347	6.190	6.054	11.305	11.127	10.970	10.834
1.210	1.826	1.648	1.490	1.352	6.741	6.563	6.405	6.267	11.656	11.478	11.320	11.182
1.200	1.910	1.732	1.573	1.433	6.972	6.794	6.635	6.495	12.033	11.856	11.697	11.556
1.190	2.000	1.822	1.662	1.520	7.220	7.042	6.882	6.740	12.440	12.262	12.103	11.960
1.180	2.095	1.919	1.758	1.614	7.488	7.311	7.150	7.006	12.880	12.703	12.542	12.398
1.170	2.198	2.022	1.861	1.715	7.779	7.603	7.441	7.295	13.359	13.183	13.022	12.876
1.160	2.310	2.134	1.972	1.824	8.097	7.922	7.760	7.612	13.885	13.709	13.547	13.399
1.150	2.429	2.254	2.092	1.943	8.438	8.263	8.101	7.951	14.447	14.272	14.110	13.960
1.140	2.563	2.389	2.226	2.075	8.824	8.650	8.487	8.336	15.086	14.911	14.748	14.597
1.130	2.711	2.538	2.374	2.222	9.255	9.082	8.918	8.766	15.799	15.626	15.462	15.310
1.120	2.877	2.704	2.540	2.386	9.739	9.566	9.402	9.248	16.601	16.428	16.264	16.110
1.110	3.065	2.893	2.729	2.573	10.291	10.119	9.954	9.799	17.517	17.345	17.180	17.025
1.100	3.289	3.117	2.952	2.795	10.951	10.779	10.614	10.457	18.614	18.442	18.277	18.120
1.090	3.547	3.375	3.210	3.052	11.717	11.545	11.380	11.221	19.887	19.715	19.550	19.391
1.080	3.842	3.671	3.506	3.347	12.589	12.419	12.253	12.094	21.336	21.166	21.000	20.841
1.070	4.216	4.046	3.880	3.719	13.702	13.532	13.366	13.205	23.188	23.018	22.852	22.691
1.060	4.692	4.522	4.356	4.194	15.123	14.953	14.787	14.625	25.555	25.385	25.218	25.056
1.050	5.316	5.146	4.979	4.816	16.987	16.817	16.650	16.487	28.658	28.488	28.321	28.158
1.040	6.192	6.023	5.855	5.691	19.609	19.439	19.272	19.107	33.025	32.856	32.688	32.524
1.030	7.549	7.380	7.212	7.046	23.674	23.504	23.337	23.171	39.798	39.629	39.461	39.295

E D G E ALPHA= -3° N= .80 CUTOFF NUM.=1.302928

	F U N D A M E N T A L M O D E				1 S T H I G H E R M O D E				2 N D H I G H E R M O D E			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.295	.439	.335	.270	.226	4.438	4.334	4.269	4.225	8.436	8.332	8.268	8.224
1.288	.615	.477	.388	.326	4.678	4.539	4.450	4.388	8.740	8.602	8.512	8.451
1.280	.749	.588	.482	.407	4.877	4.717	4.611	4.536	9.006	8.846	8.739	8.664
1.273	.860	.685	.565	.480	5.058	4.883	4.763	4.677	9.256	9.080	8.961	8.875
1.265	.959	.773	.642	.547	5.229	5.043	4.912	4.817	9.499	9.313	9.182	9.087
1.257	1.049	.854	.715	.612	5.395	5.200	5.061	4.958	9.740	9.546	9.406	9.303
1.250	1.134	.933	.786	.675	5.558	5.358	5.210	5.100	9.983	9.782	9.635	9.525
1.242	1.214	1.009	.855	.738	5.722	5.516	5.363	5.246	10.230	10.024	9.870	9.753
1.235	1.293	1.083	.924	.801	5.887	5.678	5.518	5.395	10.482	10.273	10.113	9.990
1.227	1.369	1.157	.992	.864	6.056	5.844	5.679	5.550	10.743	10.530	10.366	10.237
1.220	1.445	1.231	1.062	.928	6.229	6.014	5.845	5.711	11.012	10.798	10.628	10.495
1.212	1.522	1.306	1.132	.994	6.407	6.191	6.018	5.879	11.292	11.076	10.903	10.765
1.204	1.599	1.381	1.205	1.062	6.592	6.375	6.198	6.055	11.586	11.369	11.192	11.049
1.197	1.677	1.459	1.279	1.131	6.785	6.567	6.387	6.240	11.894	11.675	11.495	11.348
1.189	1.757	1.538	1.356	1.204	6.987	6.768	6.586	6.434	12.217	11.998	11.816	11.664
1.182	1.840	1.621	1.435	1.280	7.200	6.981	6.795	6.640	12.560	12.340	12.155	12.000
1.174	1.926	1.706	1.519	1.360	7.424	7.205	7.017	6.858	12.923	12.704	12.516	12.357
1.167	2.016	1.796	1.606	1.444	7.663	7.443	7.254	7.091	13.310	13.091	12.901	12.739
1.159	2.110	1.890	1.699	1.533	7.917	7.698	7.506	7.340	13.724	13.505	13.313	13.148
1.151	2.207	1.988	1.795	1.626	8.180	7.961	7.768	7.599	14.153	13.934	13.741	13.572
1.144	2.312	2.094	1.899	1.727	8.471	8.252	8.057	7.886	14.630	14.411	14.216	14.044
1.136	2.425	2.207	2.010	1.836	8.785	8.567	8.371	8.196	15.146	14.927	14.731	14.557
1.129	2.546	2.328	2.131	1.954	9.127	8.909	8.711	8.534	15.708	15.490	15.292	15.115
1.121	2.677	2.460	2.261	2.081	9.499	9.281	9.082	8.902	16.320	16.102	15.903	15.724
1.114	2.821	2.604	2.404	2.221	9.908	9.691	9.491	9.309	16.996	16.779	16.579	16.397
1.106	2.978	2.762	2.561	2.376	10.362	10.145	9.944	9.760	17.746	17.529	17.328	17.143
1.098	3.161	2.945	2.742	2.555	10.896	10.680	10.477	10.290	18.631	18.415	18.212	18.025
1.091	3.361	3.145	2.942	2.752	11.481	11.265	11.062	10.872	19.602	19.385	19.182	18.992
1.083	3.580	3.365	3.161	2.969	12.118	11.903	11.699	11.508	20.657	20.442	20.238	20.046
1.076	3.847	3.632	3.427	3.233	12.908	12.693	12.488	12.294	21.969	21.754	21.549	21.355
1.068	4.142	3.928	3.722	3.527	13.775	13.561	13.356	13.160	23.409	23.195	22.989	22.794
1.053	4.963	4.750	4.542	4.342	16.217	16.003	15.796	15.596	27.471	27.257	27.050	26.850
1.045	5.533	5.320	5.112	4.910	17.915	17.702	17.494	17.292	30.298	30.084	29.876	29.674
1.038	6.290	6.077	5.868	5.664	20.177	19.964	19.755	19.551	34.064	33.851	33.642	33.438
1.030	7.362	7.149	6.940	6.734	23.383	23.171	22.961	22.755	39.405	39.192	38.982	38.776
1.023	9.041	8.829	8.618	8.410	28.412	28.200	27.989	27.782	47.784	47.571	47.361	47.153

E D G E ALPHA= -3° N= .85 CUTOFF NUM.=1.217633

1.212	.505	.385	.310	.259	5.388	5.268	5.193	5.143	10.272	10.151	10.077	10.026
1.207	.711	.549	.445	.374	5.671	5.509	5.406	5.334	10.631	10.469	10.366	10.295
1.201	.867	.679	.555	.468	5.908	5.719	5.595	5.508	10.949	10.760	10.636	10.549
1.196	1.000	.792	.651	.551	6.124	5.916	5.776	5.676	11.249	11.040	10.900	10.800
1.190	1.118	.895	.741	.630	6.329	6.107	5.953	5.842	11.541	11.319	11.165	11.054
1.185	1.226	.992	.826	.705	6.529	6.295	6.130	6.009	11.833	11.599	11.433	11.312
1.180	1.328	1.085	.909	.779	6.727	6.484	6.309	6.179	12.126	11.884	11.708	11.578
1.174	1.425	1.175	.991	.853	6.925	6.675	6.491	6.353	12.425	12.175	11.991	11.853
1.169	1.520	1.265	1.073	.926	7.126	6.870	6.679	6.532	12.732	12.476	12.284	12.138
1.163	1.614	1.353	1.154	1.001	7.331	7.071	6.872	6.718	13.048	12.788	12.589	12.436
1.158	1.706	1.442	1.237	1.077	7.541	7.277	7.072	6.912	13.376	13.112	12.907	12.747
1.152	1.797	1.531	1.320	1.154	7.750	7.483	7.273	7.106	13.702	13.435	13.225	13.059
1.147	1.891	1.622	1.406	1.234	7.974	7.705	7.489	7.317	14.057	13.788	13.572	13.400
1.141	1.986	1.715	1.495	1.317	8.208	7.937	7.716	7.538	14.429	14.158	13.938	13.760
1.136	2.084	1.811	1.587	1.403	8.453	8.180	7.955	7.772	14.821	14.548	14.324	14.140
1.131	2.185	1.911	1.683	1.494	8.710	8.436	8.208	8.019	15.235	14.962	14.733	14.544
1.125	2.289	2.014	1.782	1.588	8.981	8.706	8.474	8.280	15.673	15.398	15.166	14.972
1.120	2.398	2.123	1.887	1.689	9.269	8.993	8.758	8.560	16.140	15.864	15.629	15.431
1.114	2.513	2.237	1.998	1.795	9.576	9.300	9.062	8.859	16.639	16.363	16.125	15.922
1.109	2.633	2.357	2.116	1.909	9.904	9.628	9.387	9.179	17.175	16.899	16.658	16.450
1.103	2.767	2.490	2.246	2.034	10.277	10.000	9.756	9.544	17.786	17.509	17.266	17.053
1.098	2.907	2.630	2.383	2.167	10.666	10.389	10.143	9.926	18.426	18.149	17.902	17.686
1.092	3.057	2.780	2.531	2.311	11.091	10.814	10.565	10.344	19.124	18.847	18.598	18.378
1.087	3.221	2.944	2.693	2.468	11.557	11.280	11.029	10.804	19.893	19.616	19.365	19.140
1.082	3.390	3.114	2.861	2.633	12.034	11.757	11.505	11.277	20.677	20.401	20.148	19.921
1.076	3.593	3.316	3.061	2.829	12.622	12.345	12.090	11.858	21.651	21.374	21.119	20.887
1.071	3.804	3.528	3.272	3.037	13.230	12.954	12.698	12.462	22.655	22.379	22.123	21.888
1.065	4.054	3.778	3.520	3.281	13.959	13.683	13.425	13.186	23.864	23.588	23.330	23.091
1.060	4.333	4.058	3.798	3.556	14.778	14.502	14.243	14.000	25.222	24.947	24.687	24.445
1.054	4.658	4.383	4.121	3.876	15.733	15.458	15.197	14.951	26.808	26.533	26.272	26.026
1.049	5.039	4.764	4.502	4.253	16.860	16.585	16.322	16.073	28.680	28.405	28.143	27.894
1.044	5.497	5.223	4.959	4.706	18.217	17.943	17.678	17.426	30.937	30.662	30.398	30.146
1.038	6.063	5.789	5.523	5.268	19.899	19.625	19.359	19.104	33.735	33.461	33.195	32.940
1.033	6.786	6.512	6.245	5.986	22.053	21.779	21.512	21.254	37.320	37.046	36.779	36.521
1.022	9.139	8.866	8.596	8.332	29.089	28.816	28.546	28.282	49.039	48.765	48.496	48.231
1.016	11.351	11.077	10.806	10.539	35.712	35.439	35.168	34.901	60.074	59.800	59.529	59.262

EDGE ALPHA= -3° N= .90 CUTOFF NUM.=1.141613

	FUNDAMENTAL MODE				1ST HIGHER MODE				2ND HIGHER MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.138	.619	.471	.379	.317	6.931	6.783	6.691	6.629	13.243	13.095	13.003	12.941
1.135	.873	.673	.545	.458	7.284	7.083	6.956	6.868	13.694	13.494	13.366	13.279
1.131	1.069	.833	.680	.573	7.582	7.347	7.193	7.086	14.095	13.860	13.706	13.599
1.127	1.236	.974	.799	.676	7.855	7.594	7.419	7.295	14.475	14.213	14.038	13.915
1.124	1.385	1.103	.911	.773	8.116	7.834	7.642	7.504	14.847	14.566	14.373	14.235
1.120	1.522	1.225	1.017	.866	8.370	8.073	7.865	7.714	15.218	14.921	14.713	14.562
1.117	1.652	1.342	1.121	.958	8.623	8.313	8.091	7.929	15.593	15.283	15.062	14.899
1.113	1.777	1.456	1.223	1.049	8.876	8.555	8.322	8.149	15.975	15.654	15.421	15.248
1.110	1.899	1.569	1.325	1.141	9.133	8.803	8.559	8.375	16.367	16.037	15.793	15.610
1.106	2.018	1.682	1.428	1.235	9.394	9.058	8.804	8.611	16.770	16.434	16.180	15.987
1.103	2.141	1.798	1.535	1.332	9.682	9.339	9.076	8.873	17.223	16.880	16.617	16.414
1.099	2.262	1.914	1.643	1.431	9.964	9.615	9.344	9.132	17.665	17.317	17.046	16.834
1.096	2.385	2.032	1.753	1.533	10.259	9.907	9.628	9.408	18.134	17.782	17.503	17.282
1.092	2.510	2.153	1.868	1.639	10.567	10.210	9.925	9.696	18.624	18.267	17.982	17.753
1.089	2.638	2.278	1.986	1.750	10.890	10.530	10.238	10.002	19.142	18.782	18.490	18.254
1.085	2.764	2.403	2.106	1.862	11.204	10.843	10.546	10.302	19.645	19.283	18.986	18.743
1.081	2.900	2.536	2.234	1.983	11.555	11.192	10.889	10.638	20.210	19.847	19.544	19.294
1.078	3.041	2.676	2.368	2.111	11.926	11.562	11.254	10.996	20.812	20.447	20.139	19.882
1.074	3.201	2.834	2.520	2.255	12.366	11.999	11.686	11.421	21.532	21.165	20.851	20.586
1.071	3.353	2.986	2.668	2.397	12.773	12.405	12.088	11.817	22.192	21.825	21.508	21.236
1.067	3.527	3.158	2.836	2.559	13.255	12.886	12.565	12.287	22.984	22.615	22.293	22.015
1.064	3.710	3.340	3.014	2.730	13.763	13.393	13.067	12.783	23.816	23.446	23.120	22.836
1.060	3.907	3.537	3.207	2.917	14.317	13.947	13.617	13.327	24.727	24.357	24.027	23.737
1.057	4.121	3.751	3.417	3.121	14.925	14.554	14.221	13.925	25.728	25.358	25.025	24.728
1.053	4.357	3.986	3.649	3.348	15.599	15.228	14.891	14.589	26.841	26.470	26.133	25.831
1.050	4.618	4.247	3.907	3.599	16.349	15.978	15.638	15.331	28.081	27.710	27.370	27.062
1.046	4.909	4.538	4.195	3.882	17.194	16.822	16.479	16.166	29.478	29.107	28.764	28.451
1.042	5.239	4.867	4.521	4.203	18.154	17.782	17.436	17.118	31.069	30.697	30.351	30.033
1.039	5.616	5.244	4.896	4.572	19.258	18.887	18.538	18.214	32.901	32.530	32.181	31.857
1.035	6.053	5.682	5.331	5.002	20.545	20.174	19.823	19.494	35.037	34.666	34.315	33.986
1.032	6.573	6.201	5.848	5.513	22.079	21.708	21.354	21.020	37.586	37.215	36.861	36.527
1.025	7.980	7.609	7.250	6.906	26.257	25.886	25.527	25.183	44.534	44.163	43.804	43.460
1.021	8.991	8.620	8.259	7.910	29.272	28.902	28.541	28.191	49.554	49.183	48.822	48.473
1.014	12.366	11.995	11.630	11.271	39.362	38.992	38.626	38.268	66.359	65.988	65.623	65.264

EDGE ALPHA= -4° N= .70 CUTOFF NUM.=1.542071

1.529	.355	.272	.220	.185	3.175	3.092	3.040	3.004	5.994	5.911	5.859	5.824
1.515	.493	.385	.315	.266	3.360	3.252	3.182	3.133	6.227	6.119	6.049	6.000
1.501	.594	.473	.390	.331	3.511	3.389	3.307	3.247	6.427	6.306	6.223	6.164
1.488	.678	.547	.455	.388	3.646	3.516	3.424	3.357	6.614	6.484	6.392	6.325
1.474	.751	.614	.516	.442	3.773	3.637	3.538	3.464	6.795	6.659	6.560	6.487
1.461	.817	.677	.573	.494	3.897	3.757	3.653	3.574	6.978	6.837	6.733	6.654
1.447	.879	.736	.627	.543	4.019	3.875	3.767	3.683	7.158	7.015	6.906	6.822
1.434	.938	.793	.680	.592	4.139	3.995	3.882	3.794	7.341	7.196	7.084	6.996
1.420	.995	.849	.733	.641	4.262	4.116	4.000	3.908	7.529	7.383	7.267	7.175
1.407	1.050	.904	.785	.690	4.386	4.239	4.121	4.026	7.722	7.575	7.457	7.362
1.393	1.106	.959	.838	.740	4.514	4.367	4.246	4.148	7.922	7.775	7.655	7.557
1.379	1.161	1.014	.892	.791	4.646	4.499	4.376	4.276	8.130	7.983	7.861	7.760
1.366	1.217	1.070	.946	.843	4.783	4.636	4.512	4.409	8.348	8.202	8.078	7.974
1.352	1.274	1.127	1.002	.897	4.925	4.779	4.654	4.548	8.577	8.431	8.306	8.200
1.339	1.332	1.186	1.060	.952	5.075	4.929	4.803	4.695	8.818	8.672	8.546	8.438
1.325	1.393	1.247	1.120	1.010	5.233	5.087	4.960	4.851	9.073	8.928	8.801	8.691
1.312	1.455	1.310	1.182	1.071	5.400	5.255	5.127	5.016	9.345	9.200	9.072	8.960
1.298	1.521	1.377	1.248	1.135	5.577	5.433	5.304	5.191	9.633	9.489	9.360	9.247
1.285	1.590	1.446	1.317	1.202	5.766	5.623	5.493	5.379	9.943	9.799	9.669	9.555
1.271	1.664	1.520	1.391	1.274	5.969	5.826	5.696	5.580	10.275	10.132	10.002	9.886
1.257	1.742	1.599	1.469	1.351	6.188	6.045	5.915	5.797	10.634	10.491	10.361	10.244
1.244	1.824	1.682	1.551	1.433	6.418	6.276	6.146	6.027	11.013	10.871	10.740	10.622
1.230	1.914	1.772	1.641	1.522	6.674	6.533	6.402	6.282	11.435	11.293	11.163	11.043
1.217	2.011	1.871	1.739	1.618	6.954	6.813	6.682	6.561	11.897	11.756	11.625	11.504
1.203	2.118	1.978	1.846	1.724	7.261	7.121	6.990	6.868	12.405	12.265	12.133	12.011
1.190	2.235	2.096	1.964	1.841	7.602	7.463	7.331	7.208	12.969	12.830	12.698	12.575
1.176	2.369	2.230	2.098	1.974	7.995	7.856	7.724	7.600	13.621	13.482	13.350	13.226
1.163	2.518	2.380	2.248	2.122	8.433	8.295	8.163	8.037	14.348	14.210	14.078	13.952
1.149	2.689	2.551	2.418	2.292	8.935	8.798	8.665	8.539	15.182	15.044	14.912	14.786
1.136	2.876	2.739	2.606	2.480	9.487	9.350	9.218	9.091	16.099	15.962	15.829	15.702
1.122	3.107	2.970	2.837	2.709	10.172	10.035	9.902	9.774	17.237	17.100	16.967	16.839
1.108	3.382	3.245	3.112	2.983	10.991	10.855	10.722	10.593	18.600	18.464	18.331	18.202
1.095	3.718	3.581	3.448	3.318	11.992	11.856	11.723	11.593	20.267	20.130	19.997	19.867
1.081	4.146	4.010	3.876	3.746	13.272	13.136	13.002	12.871	22.397	22.261	22.128	21.997
1.068	4.714	4.578	4.444	4.312	14.971	14.835	14.701	14.569	25.227	25.091	24.957	24.826
1.054	5.519	5.383	5.248	5.116	17.380	17.245	17.110	16.978	29.242	29.107	28.972	28.840
1.041	6.779	6.644	6.509	6.375	21.160	21.025	20.890	20.756	35.541	35.405	35.271	35.137
1.027	9.153	9.017	8.882	8.747	28.280	28.144	28.008	27.874	47.407	47.271	47.135	47.000

EDGE ALPHA= -4° N= .75 CUTOFF NUM.=1.424434

	FUNDAMENTAL MODE				1ST HIGHER MODE				2ND HIGHER MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.414	.388	.297	.240	.201	3.687	3.595	3.538	3.499	6.985	6.894	6.837	6.798
1.403	.541	.422	.344	.289	3.895	3.775	3.697	3.643	7.248	7.128	7.050	6.996
1.393	.656	.519	.426	.361	4.067	3.929	3.837	3.771	7.477	7.340	7.247	7.182
1.382	.751	.603	.499	.425	4.222	4.073	3.969	3.895	7.692	7.543	7.440	7.365
1.371	.835	.678	.566	.484	4.368	4.211	4.099	4.017	7.900	7.743	7.631	7.549
1.361	.912	.749	.630	.541	4.510	4.347	4.228	4.139	8.107	7.944	7.825	7.736
1.350	.983	.816	.691	.597	4.650	4.482	4.357	4.263	8.316	8.148	8.023	7.929
1.340	1.052	.881	.752	.651	4.789	4.619	4.489	4.389	8.527	8.357	8.227	8.127
1.329	1.118	.945	.811	.706	4.931	4.758	4.624	4.519	8.744	8.572	8.438	8.333
1.318	1.183	1.008	.871	.762	5.075	4.901	4.763	4.654	8.968	8.794	8.656	8.547
1.308	1.247	1.072	.931	.818	5.224	5.048	4.907	4.794	9.200	9.025	8.884	8.771
1.297	1.312	1.136	.992	.875	5.377	5.201	5.057	4.940	9.442	9.266	9.122	9.005
1.286	1.377	1.200	1.054	.934	5.536	5.359	5.213	5.093	9.694	9.518	9.372	9.252
1.276	1.443	1.267	1.119	.995	5.702	5.525	5.377	5.253	9.960	9.783	9.635	9.512
1.265	1.512	1.335	1.185	1.059	5.876	5.699	5.549	5.423	10.240	10.063	9.913	9.787
1.255	1.582	1.406	1.254	1.125	6.059	5.883	5.731	5.602	10.536	10.360	10.208	10.079
1.244	1.654	1.478	1.325	1.193	6.247	6.071	5.918	5.786	10.840	10.664	10.511	10.380
1.233	1.730	1.555	1.400	1.266	6.452	6.276	6.122	5.988	11.174	10.998	10.844	10.710
1.223	1.811	1.635	1.480	1.344	6.671	6.495	6.340	6.203	11.531	11.355	11.200	11.063
1.212	1.896	1.721	1.564	1.426	6.905	6.730	6.573	6.435	11.914	11.739	11.582	11.444
1.202	1.986	1.812	1.654	1.514	7.156	6.981	6.824	6.683	12.325	12.151	11.993	11.853
1.191	2.083	1.909	1.751	1.608	7.428	7.254	7.096	6.953	12.773	12.599	12.441	12.298
1.180	2.187	2.014	1.855	1.711	7.724	7.550	7.391	7.247	13.260	13.087	12.928	12.783
1.170	2.305	2.132	1.972	1.825	8.061	7.888	7.728	7.582	13.818	13.645	13.485	13.339
1.159	2.431	2.258	2.097	1.949	8.426	8.253	8.093	7.944	14.421	14.248	14.088	13.940
1.149	2.570	2.398	2.237	2.087	8.831	8.659	8.497	8.347	15.092	14.919	14.758	14.608
1.138	2.718	2.547	2.385	2.234	9.258	9.087	8.925	8.774	15.798	15.627	15.465	15.314
1.127	2.897	2.726	2.564	2.411	9.787	9.616	9.453	9.300	16.677	16.505	16.343	16.190
1.117	3.092	2.922	2.759	2.605	10.360	10.189	10.026	9.872	17.627	17.456	17.293	17.139
1.106	3.321	3.150	2.987	2.831	11.033	10.863	10.700	10.544	18.746	18.576	18.413	18.257
1.095	3.589	3.420	3.256	3.099	11.830	11.661	11.497	11.340	20.071	19.901	19.738	19.580
1.085	3.913	3.744	3.580	3.421	12.793	12.624	12.459	12.301	21.673	21.504	21.339	21.181
1.074	4.312	4.143	3.978	3.818	13.980	13.811	13.646	13.486	23.648	23.479	23.314	23.154
1.053	5.499	5.331	5.165	5.002	17.529	17.360	17.194	17.031	29.559	29.390	29.224	29.061
1.042	6.469	6.301	6.134	5.970	20.434	20.265	20.098	19.934	34.398	34.229	34.062	33.898

EDGE ALPHA= -4° N= .80 CUTOFF NUM.=1.322406

1.314	.434	.331	.267	.224	4.357	4.255	4.191	4.147	8.281	8.178	8.114	8.071
1.306	.608	.471	.383	.322	4.596	4.459	4.371	4.310	8.584	8.447	8.359	8.299
1.298	.739	.581	.476	.403	4.795	4.637	4.532	4.458	8.850	8.692	8.587	8.513
1.290	.850	.677	.559	.474	4.975	4.803	4.685	4.600	9.101	8.928	8.810	8.726
1.282	.948	.764	.635	.541	5.147	4.963	4.834	4.741	9.346	9.162	9.034	8.940
1.274	1.037	.846	.708	.606	5.313	5.122	4.984	4.882	9.589	9.398	9.260	9.158
1.266	1.121	.924	.778	.669	5.478	5.280	5.135	5.026	9.835	9.637	9.492	9.383
1.258	1.202	.999	.847	.732	5.643	5.441	5.289	5.173	10.085	9.882	9.730	9.615
1.250	1.279	1.073	.915	.794	5.806	5.599	5.442	5.320	10.332	10.126	9.968	9.847
1.242	1.356	1.147	.984	.857	5.975	5.766	5.604	5.477	10.595	10.386	10.224	10.096
1.234	1.432	1.221	1.054	.922	6.150	5.939	5.772	5.640	10.868	10.657	10.490	10.357
1.226	1.508	1.296	1.125	.988	6.330	6.117	5.946	5.809	11.152	10.939	10.768	10.631
1.218	1.586	1.372	1.197	1.056	6.517	6.303	6.129	5.987	11.449	11.235	11.061	10.919
1.210	1.664	1.450	1.272	1.126	6.713	6.498	6.320	6.174	11.761	11.546	11.368	11.223
1.202	1.745	1.529	1.349	1.199	6.916	6.701	6.520	6.371	12.087	11.872	11.692	11.542
1.193	1.828	1.612	1.429	1.276	7.131	6.916	6.733	6.579	12.435	12.219	12.036	11.882
1.185	1.915	1.699	1.514	1.356	7.359	7.143	6.958	6.800	12.803	12.587	12.402	12.244
1.177	2.008	1.792	1.604	1.443	7.611	7.395	7.207	7.046	13.214	12.998	12.810	12.649
1.169	2.104	1.888	1.698	1.534	7.872	7.656	7.466	7.302	13.640	13.423	13.234	13.070
1.161	2.207	1.990	1.799	1.632	8.154	7.938	7.746	7.579	14.102	13.885	13.694	13.526
1.153	2.316	2.100	1.906	1.736	8.458	8.241	8.048	7.878	14.599	14.383	14.190	14.020
1.145	2.428	2.213	2.018	1.845	8.770	8.554	8.360	8.187	15.112	14.896	14.702	14.529
1.137	2.552	2.337	2.141	1.965	9.119	8.903	8.708	8.532	15.685	15.470	15.274	15.099
1.129	2.693	2.478	2.281	2.102	9.527	9.312	9.114	8.936	16.361	16.145	15.948	15.769
1.121	2.838	2.623	2.425	2.244	9.940	9.725	9.527	9.346	17.041	16.826	16.628	16.447
1.113	3.006	2.792	2.592	2.408	10.427	10.213	10.013	9.830	17.849	17.634	17.435	17.251
1.105	3.191	2.977	2.776	2.590	10.966	10.752	10.551	10.365	18.741	18.526	18.326	18.140
1.097	3.399	3.186	2.984	2.795	11.575	11.362	11.160	10.971	19.752	19.538	19.336	19.148
1.089	3.637	3.424	3.221	3.030	12.275	12.062	11.859	11.668	20.913	20.700	20.497	20.306
1.081	3.913	3.700	3.497	3.303	13.090	12.877	12.673	12.480	22.266	22.053	21.850	21.656
1.073	4.238	4.026	3.821	3.626	14.053	13.840	13.636	13.440	23.867	23.655	23.450	23.255
1.064	4.632	4.420	4.214	4.017	15.222	15.010	14.804	14.607	25.812	25.600	25.395	25.197
1.056	5.118	4.906	4.699	4.500	16.669	16.457	16.250	16.051	28.220	28.008	27.802	27.602
1.040	6.585	6.373	6.164	5.961	21.052	20.840	20.632	20.428	35.519	35.307	35.099	34.895
1.024	9.759	9.547	9.337	9.129	30.563	30.351	30.140	29.932	51.366	51.154	50.944	50.735

EDGE ALPHA= -4° N= .85 CUTOFF NUM.=1.232768

	FUNDAMENTAL MODE				1ST HIGHER MODE				2ND HIGHER MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.227	.501	.382	.308	.258	5.306	5.187	5.113	5.063	10.111	9.992	9.918	9.868
1.221	.705	.545	.442	.372	5.588	5.428	5.325	5.255	10.471	10.311	10.208	10.138
1.215	.861	.674	.551	.465	5.825	5.638	5.515	5.429	10.790	10.603	10.480	10.394
1.209	.993	.787	.647	.548	6.042	5.836	5.697	5.598	11.091	10.885	10.746	10.647
1.204	1.110	.889	.737	.627	6.247	6.027	5.874	5.764	11.385	11.164	11.012	10.902
1.198	1.218	.986	.822	.702	6.448	6.216	6.052	5.932	11.678	11.446	11.282	11.162
1.192	1.319	1.079	.905	.776	6.646	6.406	6.233	6.103	11.974	11.734	11.560	11.431
1.186	1.417	1.170	.987	.850	6.846	6.599	6.416	6.279	12.275	12.028	11.845	11.708
1.180	1.512	1.259	1.069	.924	7.048	6.795	6.605	6.460	12.584	12.331	12.141	11.996
1.175	1.607	1.350	1.153	1.000	7.265	7.008	6.811	6.658	12.923	12.666	12.468	12.316
1.169	1.701	1.440	1.236	1.077	7.479	7.218	7.015	6.856	13.258	12.997	12.793	12.634
1.163	1.795	1.531	1.322	1.156	7.703	7.438	7.229	7.064	13.610	13.346	13.137	12.971
1.157	1.891	1.624	1.410	1.238	7.935	7.668	7.454	7.282	13.979	13.712	13.498	13.326
1.151	1.988	1.720	1.501	1.323	8.177	7.908	7.690	7.512	14.366	14.097	13.878	13.701
1.145	2.085	1.815	1.592	1.409	8.416	8.146	7.923	7.740	14.747	14.477	14.255	14.072
1.140	2.187	1.916	1.689	1.501	8.678	8.407	8.180	7.992	15.169	14.898	14.672	14.484
1.134	2.293	2.021	1.791	1.598	8.955	8.683	8.453	8.260	15.616	15.345	15.115	14.922
1.128	2.411	2.137	1.903	1.705	9.276	9.003	8.769	8.570	16.141	15.868	15.634	15.436
1.122	2.525	2.252	2.015	1.813	9.582	9.309	9.072	8.869	16.639	16.365	16.129	15.926
1.116	2.653	2.379	2.139	1.932	9.933	9.659	9.419	9.212	17.213	16.939	16.700	16.492
1.111	2.786	2.512	2.270	2.058	10.303	10.029	9.787	9.575	17.821	17.547	17.304	17.093
1.105	2.930	2.656	2.411	2.195	10.707	10.433	10.188	9.972	18.483	18.209	17.964	17.748
1.099	3.086	2.812	2.564	2.344	11.146	10.872	10.625	10.405	19.207	18.933	18.685	18.465
1.093	3.255	2.981	2.732	2.508	11.630	11.356	11.106	10.882	20.005	19.730	19.481	19.257
1.087	3.442	3.168	2.916	2.688	12.166	11.891	11.640	11.412	20.889	20.615	20.364	20.136
1.081	3.648	3.374	3.121	2.889	12.763	12.489	12.235	12.004	21.877	21.603	21.350	21.118
1.076	3.879	3.606	3.350	3.115	13.435	13.161	12.906	12.671	22.991	22.717	22.462	22.227
1.070	4.141	3.867	3.610	3.371	14.201	13.927	13.670	13.431	24.260	23.986	23.729	23.490
1.064	4.442	4.168	3.910	3.667	15.084	14.811	14.552	14.310	25.727	25.454	25.195	24.952
1.058	4.790	4.517	4.257	4.011	16.112	15.839	15.578	15.333	27.434	27.161	26.900	26.655
1.052	5.203	4.930	4.668	4.419	17.334	17.061	16.799	16.550	29.465	29.192	28.930	28.681
1.047	5.706	5.433	5.170	4.917	18.830	18.556	18.293	18.041	31.953	31.680	31.416	31.164
1.041	6.333	6.060	5.795	5.539	20.694	20.422	20.157	19.901	35.056	34.783	34.518	34.263
1.029	8.249	7.976	7.708	7.446	26.419	26.146	25.878	25.616	44.589	44.316	44.048	43.786
1.023	9.871	9.599	9.329	9.064	31.277	31.004	30.735	30.470	52.683	52.410	52.141	51.875

EDGE ALPHA= -4° N= .90 CUTOFF NUM.=1.152869

1.149	.620	.472	.380	.318	6.868	6.719	6.627	6.565	13.115	12.967	12.875	12.813
1.145	.874	.674	.546	.458	7.212	7.012	6.884	6.797	13.550	13.350	13.222	13.135
1.141	1.070	.835	.681	.574	7.512	7.277	7.123	7.016	13.953	13.718	13.565	13.458
1.138	1.237	.976	.801	.678	7.787	7.527	7.352	7.228	14.338	14.077	13.903	13.779
1.134	1.386	1.106	.913	.775	8.050	7.770	7.578	7.440	14.715	14.434	14.242	14.104
1.130	1.528	1.231	1.023	.872	8.327	8.030	7.822	7.671	15.126	14.830	14.622	14.471
1.126	1.660	1.351	1.129	.966	8.592	8.282	8.061	7.897	15.523	15.214	14.992	14.829
1.122	1.784	1.464	1.231	1.057	8.837	8.518	8.285	8.111	15.890	15.571	15.338	15.164
1.118	1.905	1.578	1.334	1.150	9.095	8.767	8.523	8.339	16.284	15.956	15.713	15.528
1.115	2.030	1.695	1.441	1.247	9.378	9.043	8.789	8.595	16.726	16.391	16.137	15.943
1.111	2.152	1.811	1.549	1.345	9.658	9.317	9.054	8.851	17.164	16.823	16.560	16.357
1.107	2.275	1.929	1.658	1.446	9.947	9.601	9.330	9.118	17.619	17.273	17.003	16.791
1.103	2.399	2.049	1.771	1.550	10.249	9.899	9.621	9.400	18.099	17.748	17.470	17.250
1.096	2.657	2.301	2.010	1.773	10.896	10.539	10.248	10.011	19.134	18.778	18.486	18.250
1.092	2.793	2.434	2.137	1.893	11.247	10.888	10.591	10.346	19.701	19.341	19.044	18.800
1.088	2.935	2.574	2.271	2.020	11.620	11.259	10.956	10.705	20.305	19.944	19.641	19.389
1.084	3.084	2.721	2.413	2.155	12.018	11.655	11.347	11.088	20.951	20.588	20.280	20.021
1.080	3.241	2.877	2.564	2.299	12.443	12.078	11.766	11.500	21.644	21.280	20.967	20.702
1.076	3.409	3.043	2.726	2.453	12.902	12.536	12.219	11.946	22.395	22.029	21.712	21.439
1.073	3.587	3.220	2.899	2.620	13.395	13.028	12.707	12.428	23.203	22.836	22.515	22.236
1.069	3.779	3.412	3.086	2.801	13.935	13.567	13.242	12.957	24.090	23.723	23.397	23.112
1.065	3.989	3.621	3.291	3.000	14.528	14.160	13.831	13.540	25.068	24.700	24.370	24.079
1.061	4.217	3.848	3.515	3.218	15.178	14.809	14.476	14.179	26.139	25.770	25.437	25.140
1.057	4.469	4.100	3.764	3.460	15.903	15.534	15.198	14.894	27.337	26.968	26.631	26.328
1.054	4.749	4.380	4.040	3.731	16.713	16.344	16.004	15.695	28.677	28.307	27.968	27.659
1.046	5.422	5.053	4.707	4.387	18.678	18.309	17.963	17.643	31.934	31.564	31.219	30.898
1.042	5.840	5.470	5.122	4.796	19.906	19.536	19.188	18.862	33.972	33.602	33.253	32.928
1.038	6.320	5.950	5.599	5.268	21.322	20.953	20.601	20.270	36.325	35.955	35.604	35.273
1.031	7.025	6.750	6.320	5.987	23.125	22.578	22.280	21.915	39.210	38.795	38.434	37.930
1.027	8.000	7.795	7.300	6.950	25.458	24.876	24.470	24.080	42.300	41.884	41.462	41.024
1.023	9.678	9.309	8.947	8.596	31.318	30.948	30.587	30.236	52.958	52.588	52.227	51.876

E D G E ALPHA= -5° N= .70 CUTOFF NUM.=1.574568

	FUNDAMENTAL MODE				1ST HIGHER MODE				2ND HIGHER MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.560	.347	.266	.215	.180	3.097	3.016	2.965	2.931	5.847	5.766	5.715	5.681
1.546	.481	.376	.308	.259	3.279	3.174	3.105	3.057	6.076	5.972	5.903	5.855
1.531	.580	.462	.381	.323	3.428	3.309	3.228	3.171	6.275	6.157	6.076	6.018
1.517	.663	.535	.445	.380	3.562	3.434	3.345	3.279	6.461	6.334	6.244	6.178
1.503	.734	.601	.505	.433	3.688	3.554	3.458	3.386	6.641	6.508	6.411	6.339
1.488	.800	.662	.560	.483	3.810	3.672	3.570	3.493	6.820	6.683	6.581	6.503
1.474	.860	.721	.614	.532	3.930	3.790	3.684	3.602	7.000	6.860	6.753	6.671
1.460	.919	.777	.667	.581	4.051	3.909	3.799	3.713	7.183	7.041	6.931	6.845
1.445	.975	.832	.719	.629	4.172	4.030	3.916	3.827	7.370	7.227	7.114	7.024
1.431	1.030	.886	.771	.677	4.297	4.153	4.038	3.945	7.564	7.421	7.305	7.212
1.417	1.085	.941	.823	.727	4.425	4.281	4.163	4.067	7.765	7.621	7.503	7.407
1.402	1.140	.996	.876	.777	4.557	4.413	4.293	4.195	7.975	7.831	7.711	7.612
1.388	1.196	1.052	.930	.829	4.695	4.551	4.430	4.328	8.194	8.050	7.929	7.827
1.373	1.253	1.109	.986	.883	4.839	4.695	4.572	4.469	8.425	8.281	8.158	8.055
1.359	1.311	1.168	1.044	.938	4.990	4.846	4.723	4.617	8.668	8.525	8.401	8.295
1.345	1.370	1.228	1.103	.995	5.144	5.002	4.877	4.769	8.919	8.776	8.651	8.543
1.330	1.433	1.291	1.165	1.056	5.312	5.170	5.044	4.935	9.191	9.049	8.923	8.814
1.316	1.499	1.357	1.231	1.120	5.491	5.349	5.223	5.111	9.482	9.340	9.214	9.103
1.302	1.568	1.427	1.300	1.188	5.681	5.540	5.413	5.300	9.794	9.653	9.526	9.413
1.287	1.642	1.501	1.374	1.259	5.884	5.744	5.616	5.502	10.127	9.986	9.859	9.745
1.273	1.720	1.580	1.452	1.337	6.104	5.964	5.836	5.720	10.488	10.348	10.220	10.104
1.259	1.806	1.667	1.538	1.421	6.350	6.210	6.082	5.965	10.893	10.754	10.625	10.508
1.244	1.898	1.759	1.630	1.512	6.612	6.473	6.344	6.226	11.326	11.187	11.058	10.940
1.230	1.999	1.860	1.731	1.611	6.902	6.764	6.634	6.515	11.806	11.668	11.538	11.419
1.215	2.105	1.967	1.838	1.717	7.210	7.072	6.943	6.822	12.315	12.177	12.047	11.927
1.201	2.224	2.087	1.957	1.836	7.556	7.419	7.289	7.167	12.887	12.750	12.620	12.499
1.187	2.365	2.228	2.098	1.975	7.971	7.834	7.703	7.581	13.577	13.440	13.309	13.186
1.172	2.515	2.378	2.247	2.124	8.409	8.273	8.142	8.018	14.304	14.167	14.037	13.913
1.158	2.689	2.552	2.422	2.297	8.923	8.787	8.656	8.531	15.157	15.021	14.890	14.765
1.144	2.891	2.755	2.624	2.498	9.523	9.387	9.256	9.130	16.154	16.019	15.887	15.761
1.129	3.130	2.994	2.862	2.736	10.232	10.096	9.965	9.838	17.334	17.198	17.067	16.940
1.115	3.415	3.280	3.148	3.020	11.082	10.947	10.815	10.687	18.749	18.614	18.482	18.354
1.101	3.771	3.636	3.504	3.375	12.145	12.010	11.878	11.749	20.519	20.384	20.252	20.123
1.086	4.225	4.090	3.957	3.827	13.501	13.366	13.233	13.103	22.777	22.642	22.510	22.380
1.072	4.835	4.700	4.567	4.436	15.329	15.194	15.061	14.929	25.822	25.687	25.554	25.423
1.057	5.712	5.576	5.443	5.310	17.955	17.820	17.686	17.554	30.198	30.063	29.929	29.797
1.043	7.113	6.977	6.843	6.709	22.157	22.022	21.887	21.754	37.202	37.066	36.932	36.798

E D G E ALPHA= -5° N= .75 CUTOFF NUM.=1.450331

1.439	.381	.292	.235	.197	3.608	3.519	3.463	3.425	6.836	6.746	6.690	6.652
1.428	.532	.414	.337	.284	3.814	3.697	3.620	3.567	7.097	6.979	6.903	6.849
1.417	.644	.510	.419	.355	3.985	3.850	3.759	3.695	7.325	7.190	7.099	7.035
1.405	.738	.592	.491	.418	4.139	3.993	3.891	3.818	7.539	7.393	7.291	7.218
1.394	.821	.667	.557	.476	4.284	4.130	4.020	3.940	7.748	7.593	7.484	7.403
1.383	.897	.737	.620	.533	4.426	4.266	4.149	4.062	7.955	7.795	7.678	7.591
1.372	.968	.804	.681	.588	4.566	4.402	4.279	4.186	8.164	8.000	7.877	7.784
1.360	1.036	.868	.741	.642	4.706	4.539	4.412	4.313	8.377	8.210	8.083	7.984
1.349	1.100	.931	.799	.696	4.845	4.675	4.544	4.440	8.589	8.420	8.288	8.185
1.338	1.165	.994	.859	.751	4.989	4.818	4.683	4.575	8.813	8.642	8.507	8.400
1.326	1.229	1.057	.918	.807	5.138	4.966	4.827	4.716	9.046	8.874	8.736	8.624
1.315	1.293	1.121	.979	.864	5.291	5.118	4.977	4.862	9.289	9.116	8.975	8.860
1.304	1.358	1.185	1.042	.923	5.451	5.278	5.134	5.016	9.543	9.370	9.226	9.108
1.293	1.425	1.251	1.105	.984	5.617	5.443	5.297	5.176	9.809	9.635	9.489	9.368
1.281	1.493	1.319	1.172	1.047	5.791	5.618	5.470	5.346	10.090	9.916	9.769	9.644
1.270	1.563	1.390	1.241	1.114	5.975	5.802	5.653	5.526	10.387	10.214	10.065	9.938
1.259	1.639	1.465	1.314	1.185	6.178	6.005	5.854	5.724	10.717	10.544	10.393	10.263
1.248	1.716	1.543	1.391	1.259	6.387	6.214	6.062	5.930	11.058	10.885	10.733	10.601
1.236	1.799	1.626	1.472	1.337	6.613	6.440	6.287	6.152	11.428	11.255	11.101	10.967
1.225	1.886	1.713	1.558	1.421	6.855	6.682	6.528	6.391	11.824	11.652	11.497	11.360
1.214	1.975	1.803	1.648	1.509	7.104	6.932	6.776	6.637	12.232	12.060	11.904	11.766
1.203	2.073	1.902	1.745	1.605	7.379	7.207	7.051	6.910	12.685	12.513	12.357	12.216
1.191	2.185	2.014	1.856	1.713	7.701	7.530	7.372	7.229	13.217	13.046	12.889	12.745
1.180	2.298	2.127	1.969	1.825	8.022	7.851	7.693	7.549	13.746	13.576	13.418	13.273
1.169	2.429	2.258	2.100	1.953	8.402	8.232	8.073	7.927	14.376	14.206	14.047	13.900
1.158	2.571	2.401	2.241	2.093	8.814	8.645	8.485	8.337	15.058	14.888	14.729	14.581
1.146	2.730	2.561	2.401	2.251	9.282	9.113	8.953	8.803	15.834	15.665	15.505	15.355
1.135	2.910	2.741	2.580	2.428	9.809	9.640	9.479	9.327	16.708	16.538	16.378	16.226
1.124	3.117	2.948	2.787	2.633	10.420	10.251	10.089	9.936	17.723	17.554	17.392	17.239
1.113	3.347	3.179	3.017	2.862	11.102	10.933	10.771	10.616	18.856	18.688	18.526	18.371
1.101	3.640	3.472	3.309	3.153	11.972	11.803	11.641	11.484	20.303	20.135	19.972	19.816
1.090	3.983	3.815	3.651	3.493	12.991	12.823	12.660	12.502	21.999	21.831	21.668	21.510
1.079	4.408	4.240	4.076	3.917	14.260	14.092	13.928	13.769	24.112	23.944	23.780	23.621
1.068	4.957	4.789	4.624	4.463	15.901	15.733	15.568	15.407	26.845	26.677	26.512	26.351
1.056	5.698	5.530	5.365	5.202	18.119	17.951	17.786	17.623	30.541	30.373	30.207	30.045
1.045	6.774	6.606	6.439	6.275	21.342	21.174	21.008	20.844	35.911	35.743	35.577	35.413

EDGE ALPHA= -5° N= .80 CUTOFF NUM.=1.342891

	FUNDAMENTAL MODE				1ST HIGHER MODE				2ND HIGHER MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.334	.428	.326	.263	.221	4.277	4.176	4.113	4.070	8.127	8.025	7.962	7.919
1.326	.599	.465	.378	.318	4.514	4.379	4.293	4.233	8.428	8.294	8.207	8.147
1.317	.729	.574	.470	.398	4.712	4.556	4.453	4.380	8.694	8.538	8.435	8.362
1.309	.839	.669	.552	.469	4.892	4.721	4.605	4.522	8.944	8.774	8.658	8.574
1.300	.936	.755	.628	.535	5.062	4.882	4.755	4.662	9.189	9.009	8.882	8.789
1.291	1.024	.836	.700	.599	5.228	5.039	4.903	4.803	9.431	9.243	9.107	9.007
1.283	1.108	.913	.770	.662	5.392	5.198	5.054	4.947	9.677	9.482	9.339	9.231
1.274	1.188	.988	.839	.724	5.557	5.358	5.208	5.094	9.927	9.728	9.578	9.464
1.266	1.265	1.062	.907	.787	5.724	5.522	5.366	5.246	10.184	9.981	9.825	9.705
1.257	1.344	1.138	.977	.851	5.903	5.697	5.536	5.411	10.462	10.256	10.096	9.970
1.249	1.420	1.212	1.047	.916	6.080	5.872	5.707	5.576	10.740	10.532	10.367	10.236
1.240	1.498	1.288	1.119	.983	6.265	6.055	5.886	5.751	11.033	10.823	10.654	10.518
1.231	1.576	1.365	1.192	1.052	6.457	6.246	6.073	5.933	11.339	11.127	10.955	10.815
1.223	1.656	1.444	1.268	1.123	6.658	6.446	6.270	6.126	11.661	11.448	11.273	11.128
1.214	1.735	1.523	1.344	1.196	6.857	6.645	6.466	6.318	11.980	11.767	11.589	11.440
1.206	1.819	1.606	1.425	1.273	7.074	6.861	6.680	6.528	12.329	12.116	11.936	11.783
1.197	1.910	1.696	1.513	1.357	7.319	7.105	6.922	6.766	12.728	12.514	12.331	12.175
1.189	2.004	1.790	1.604	1.445	7.574	7.360	7.174	7.014	13.143	12.929	12.744	12.584
1.180	2.097	1.884	1.697	1.534	7.824	7.611	7.423	7.261	13.550	13.337	13.150	12.987
1.171	2.203	1.990	1.800	1.634	8.118	7.905	7.715	7.550	14.034	13.820	13.631	13.465
1.163	2.314	2.101	1.910	1.741	8.428	8.215	8.024	7.855	14.542	14.329	14.138	13.969
1.154	2.434	2.220	2.028	1.856	8.764	8.551	8.358	8.187	15.095	14.882	14.689	14.517
1.146	2.563	2.350	2.156	1.981	9.133	8.920	8.725	8.551	15.702	15.489	15.295	15.120
1.137	2.704	2.491	2.295	2.118	9.536	9.324	9.128	8.951	16.369	16.156	15.961	15.783
1.129	2.859	2.647	2.450	2.270	9.986	9.774	9.577	9.397	17.113	16.900	16.704	16.523
1.120	3.031	2.819	2.621	2.438	10.484	10.272	10.074	9.891	17.938	17.725	17.527	17.345
1.111	3.225	3.013	2.813	2.628	11.050	10.838	10.639	10.454	18.876	18.664	18.465	18.279
1.103	3.443	3.232	3.031	2.843	11.692	11.481	11.280	11.092	19.941	19.730	19.529	19.341
1.094	3.695	3.483	3.282	3.091	12.433	12.222	12.020	11.830	21.172	20.960	20.759	20.569
1.086	3.987	3.776	3.573	3.381	13.298	13.086	12.884	12.691	22.609	22.397	22.195	22.002
1.077	4.336	4.124	3.921	3.726	14.332	14.121	13.917	13.723	24.329	24.118	23.914	23.719
1.069	4.758	4.546	4.342	4.145	15.588	15.377	15.172	14.975	26.419	26.208	26.003	25.806
1.060	5.284	5.073	4.868	4.668	17.159	16.948	16.743	16.543	29.034	28.823	28.617	28.418
1.043	6.907	6.696	6.488	6.284	22.011	21.800	21.592	21.388	37.116	36.904	36.696	36.493

EDGE ALPHA= -5° N= .85 CUTOFF NUM.=1.248668

1.242	.498	.379	.306	.256	5.234	5.115	5.042	4.992	9.970	9.851	9.777	9.728
1.236	.701	.542	.440	.370	5.518	5.359	5.257	5.187	10.335	10.176	10.074	10.004
1.230	.856	.671	.549	.463	5.757	5.572	5.450	5.364	10.658	10.473	10.351	10.265
1.224	.988	.783	.645	.547	5.977	5.772	5.634	5.536	10.966	10.761	10.623	10.525
1.218	1.103	.885	.734	.624	6.176	5.958	5.807	5.697	11.249	11.031	10.879	10.770
1.211	1.211	.982	.819	.700	6.377	6.148	5.986	5.866	11.544	11.315	11.152	11.033
1.205	1.312	1.075	.902	.774	6.577	6.339	6.167	6.039	11.842	11.604	11.432	11.303
1.199	1.412	1.168	.986	.849	6.790	6.545	6.364	6.227	12.168	11.923	11.741	11.605
1.193	1.509	1.258	1.069	.925	6.999	6.749	6.560	6.415	12.490	12.240	12.051	11.906
1.187	1.604	1.349	1.153	1.001	7.214	6.959	6.763	6.612	12.825	12.570	12.374	12.222
1.180	1.694	1.436	1.235	1.076	7.416	7.157	6.956	6.797	13.137	12.879	12.677	12.519
1.174	1.791	1.530	1.322	1.157	7.648	7.387	7.180	7.015	13.506	13.245	13.037	12.872
1.168	1.887	1.624	1.411	1.240	7.884	7.621	7.408	7.237	13.881	13.618	13.405	13.234
1.162	1.985	1.720	1.503	1.326	8.128	7.862	7.645	7.469	14.271	14.005	13.788	13.611
1.155	2.087	1.820	1.599	1.416	8.389	8.122	7.900	7.718	14.691	14.423	14.202	14.020
1.149	2.192	1.924	1.699	1.511	8.663	8.395	8.169	7.982	15.134	14.865	14.640	14.452
1.143	2.302	2.033	1.804	1.611	8.954	8.684	8.455	8.263	15.605	15.335	15.107	14.914
1.137	2.417	2.147	1.915	1.717	9.262	8.992	8.760	8.562	16.107	15.837	15.605	15.407
1.131	2.540	2.269	2.033	1.831	9.597	9.326	9.091	8.888	16.654	16.383	16.148	15.945
1.124	2.669	2.398	2.159	1.953	9.953	9.682	9.444	9.237	17.237	16.966	16.728	16.521
1.118	2.807	2.535	2.295	2.083	10.338	10.066	9.825	9.614	17.868	17.597	17.356	17.145
1.112	2.957	2.685	2.442	2.226	10.762	10.490	10.246	10.031	18.566	18.294	18.051	17.835
1.106	3.119	2.847	2.601	2.382	11.222	10.950	10.704	10.484	19.324	19.052	18.807	18.587
1.099	3.311	3.039	2.791	2.567	11.773	11.500	11.252	11.028	20.234	19.962	19.713	19.489
1.093	3.493	3.221	2.970	2.743	12.296	12.024	11.773	11.546	21.099	20.827	20.576	20.349
1.087	3.711	3.439	3.186	2.955	12.929	12.657	12.404	12.173	22.147	21.875	21.622	21.391
1.081	3.955	3.683	3.428	3.193	13.641	13.369	13.115	12.880	23.328	23.056	22.801	22.566
1.068	4.555	4.283	4.025	3.783	15.407	15.135	14.877	14.634	26.259	25.987	25.729	25.486
1.062	4.932	4.660	4.400	4.154	16.521	16.249	15.989	15.743	28.110	27.839	27.579	27.333
1.056	5.381	5.109	4.848	4.598	17.855	17.583	17.321	17.072	30.328	30.056	29.795	29.545
1.044	6.625	6.353	6.089	5.832	21.561	21.289	21.024	20.768	36.496	36.225	35.960	35.704
1.037	7.537	7.265	6.999	6.739	24.286	24.014	23.747	23.488	41.034	40.762	40.496	40.236

EDGE ALPHA= -5° N= .90 CUTOFF NUM.=1.164707

	FUNDAMENTAL MODE				1ST HIGHER MODE				2ND HIGHER MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.161	.620	.471	.380	.318	6.789	6.641	6.549	6.487	12.959	12.811	12.719	12.657
1.156	.875	.675	.547	.459	7.149	6.949	6.822	6.734	13.424	13.224	13.096	13.008
1.152	1.071	.837	.683	.576	7.454	7.219	7.065	6.958	13.836	13.601	13.447	13.340
1.148	1.240	.979	.805	.681	7.739	7.478	7.303	7.180	14.237	13.977	13.802	13.678
1.144	1.390	1.110	.918	.780	8.008	7.728	7.536	7.397	14.625	14.346	14.153	14.015
1.140	1.530	1.234	1.027	.876	8.272	7.976	7.769	7.617	15.013	14.718	14.510	14.359
1.136	1.663	1.355	1.134	.970	8.537	8.229	8.008	7.845	15.412	15.104	14.883	14.720
1.132	1.791	1.472	1.239	1.065	8.804	8.486	8.253	8.079	15.818	15.500	15.267	15.093
1.128	1.916	1.589	1.345	1.161	9.076	8.749	8.505	8.321	16.236	15.909	15.665	15.481
1.124	2.040	1.706	1.453	1.258	9.354	9.021	8.768	8.573	16.669	16.336	16.082	15.888
1.115	2.289	1.945	1.675	1.462	9.942	9.598	9.328	9.115	17.595	17.251	16.981	16.768
1.111	2.416	2.067	1.790	1.569	10.251	9.903	9.625	9.404	18.086	17.738	17.460	17.239
1.107	2.547	2.196	1.911	1.681	10.582	10.231	9.946	9.716	18.617	18.266	17.981	17.751
1.103	2.682	2.328	2.037	1.799	10.927	10.573	10.282	10.044	19.172	18.818	18.527	18.289
1.099	2.822	2.465	2.168	1.923	11.292	10.935	10.638	10.393	19.761	19.404	19.107	18.862
1.095	2.970	2.610	2.308	2.055	11.683	11.323	11.021	10.768	20.396	20.037	19.734	19.482
1.091	3.124	2.763	2.455	2.196	12.097	11.736	11.428	11.169	21.070	20.709	20.402	20.142
1.086	3.287	2.925	2.612	2.346	12.542	12.180	11.867	11.601	21.797	21.435	21.123	20.856
1.082	3.463	3.099	2.782	2.509	13.029	12.666	12.349	12.075	22.596	22.232	21.915	21.641
1.078	3.651	3.286	2.965	2.685	13.554	13.189	12.868	12.588	23.457	23.092	22.771	22.491
1.070	4.075	3.709	3.379	3.087	14.755	14.389	14.060	13.767	25.436	25.070	24.740	24.448
1.066	4.318	3.951	3.618	3.319	15.452	15.085	14.752	14.453	26.586	26.219	25.886	25.587
1.062	4.587	4.220	3.883	3.578	16.229	15.861	15.525	15.220	27.870	27.503	27.167	26.862
1.058	4.888	4.520	4.180	3.870	17.103	16.735	16.396	16.085	29.318	28.951	28.611	28.300
1.045	6.071	5.703	5.354	5.026	20.577	20.209	19.860	19.532	35.083	34.715	34.366	34.039
1.041	6.608	6.239	5.887	5.555	22.167	21.798	21.446	21.113	37.725	37.357	37.005	36.672
1.037	7.254	6.885	6.531	6.193	24.084	23.715	23.361	23.023	40.914	40.546	40.191	39.853

Table AI (3)

Phase Velocities of Love Waves Propagating in a Single Layer with Parallel Boundaries

APPROXIMATELY EQUIVALENT LAYER N= .70

	FUNDAMENTAL MODE				1ST HIGHER MODE				2ND HIGHER MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.418	.390	.299	.242	.203	3.516	3.425	3.368	3.328	6.641	6.550	6.493	6.454
1.407	.541	.423	.345	.291	3.714	3.596	3.519	3.465	6.887	6.769	6.692	6.638
1.396	.651	.518	.427	.362	3.874	3.741	3.650	3.585	7.097	6.964	6.873	6.808
1.386	.742	.598	.498	.424	4.017	3.873	3.773	3.699	7.292	7.148	7.048	6.974
1.375	.820	.670	.562	.482	4.149	3.999	3.891	3.811	7.478	7.328	7.220	7.140
1.364	.891	.737	.623	.536	4.276	4.122	4.008	3.922	7.662	7.507	7.393	7.307
1.354	.957	.800	.681	.589	4.401	4.244	4.125	4.033	7.845	7.688	7.568	7.477
1.343	1.019	.860	.737	.641	4.524	4.365	4.242	4.146	8.029	7.870	7.747	7.652
1.332	1.078	.918	.792	.692	4.648	4.488	4.362	4.262	8.217	8.057	7.931	7.831
1.321	1.136	.976	.847	.744	4.773	4.613	4.484	4.380	8.410	8.250	8.121	8.017
1.311	1.193	1.033	.902	.795	4.901	4.740	4.609	4.503	8.609	8.448	8.317	8.210
1.300	1.250	1.090	.957	.847	5.032	4.872	4.739	4.629	8.814	8.654	8.521	8.411
1.289	1.307	1.147	1.012	.901	5.168	5.007	4.873	4.761	9.028	8.868	8.733	8.621
1.279	1.365	1.205	1.069	.955	5.308	5.148	5.012	4.898	9.251	9.091	8.956	8.841
1.268	1.423	1.264	1.127	1.011	5.454	5.295	5.158	5.042	9.485	9.326	9.189	9.073
1.257	1.483	1.325	1.187	1.069	5.607	5.449	5.311	5.193	9.731	9.572	9.435	9.317
1.246	1.545	1.388	1.250	1.130	5.768	5.610	5.472	5.352	9.990	9.833	9.694	9.574
1.236	1.610	1.453	1.314	1.193	5.937	5.781	5.642	5.520	10.265	10.108	9.970	9.848
1.225	1.677	1.521	1.382	1.259	6.117	5.961	5.822	5.699	10.557	10.401	10.262	10.139
1.214	1.748	1.593	1.453	1.329	6.308	6.153	6.014	5.890	10.869	10.714	10.575	10.450
1.204	1.822	1.668	1.528	1.403	6.513	6.359	6.219	6.093	11.203	11.049	10.910	10.784
1.193	1.901	1.748	1.608	1.482	6.732	6.579	6.439	6.312	11.563	11.410	11.270	11.143
1.182	1.986	1.834	1.694	1.566	6.969	6.817	6.677	6.549	11.952	11.800	11.660	11.532
1.171	2.077	1.926	1.786	1.657	7.226	7.075	6.935	6.806	12.375	12.224	12.084	11.955
1.161	2.175	2.025	1.885	1.756	7.507	7.357	7.216	7.087	12.838	12.688	12.548	12.418
1.150	2.283	2.134	1.994	1.863	7.815	7.666	7.526	7.395	13.347	13.198	13.058	12.927
1.139	2.401	2.253	2.113	1.982	8.157	8.008	7.868	7.737	13.912	13.764	13.624	13.492
1.129	2.533	2.386	2.246	2.114	8.538	8.391	8.251	8.119	14.543	14.396	14.256	14.124
1.118	2.680	2.534	2.394	2.262	8.969	8.822	8.682	8.550	15.257	15.110	14.971	14.838
1.107	2.848	2.703	2.563	2.430	9.460	9.315	9.175	9.042	16.072	15.926	15.787	15.653
1.096	3.041	2.897	2.757	2.624	10.029	9.884	9.745	9.611	17.016	16.871	16.732	16.598
1.086	3.268	3.124	2.985	2.851	10.698	10.555	10.415	10.281	18.128	17.985	17.845	17.711
1.075	3.540	3.397	3.258	3.123	11.504	11.361	11.222	11.087	19.467	19.324	19.185	19.051
1.064	3.875	3.733	3.594	3.459	12.499	12.357	12.218	12.083	21.123	20.981	20.842	20.707
1.054	4.304	4.162	4.024	3.888	13.775	13.634	13.496	13.360	23.247	23.106	22.967	22.832
1.043	4.881	4.741	4.602	4.466	15.498	15.358	15.220	15.084	26.116	25.975	25.837	25.701
1.032	5.723	5.583	5.445	5.309	18.015	17.875	17.737	17.601	30.307	30.167	30.029	29.893
1.021	7.128	6.989	6.851	6.715	22.223	22.084	21.946	21.809	37.317	37.179	37.041	36.904
1.011	10.286	10.148	10.011	9.874	31.690	31.552	31.415	31.278	53.094	52.956	52.819	52.682

APPROXIMATELY EQUIVALENT LAYER N= .75

1.325	.418	.320	.258	.216	4.032	3.934	3.872	3.830	7.646	7.548	7.486	7.444
1.317	.583	.453	.369	.311	4.251	4.121	4.037	3.979	7.919	7.789	7.705	7.647
1.308	.705	.557	.457	.387	4.429	4.281	4.181	4.111	8.153	8.005	7.905	7.835
1.300	.807	.646	.534	.454	4.589	4.428	4.316	4.236	8.371	8.210	8.098	8.018
1.292	.896	.726	.605	.517	4.738	4.568	4.448	4.359	8.581	8.411	8.290	8.202
1.283	.976	.800	.672	.576	4.882	4.706	4.577	4.482	8.788	8.611	8.483	8.388
1.275	1.051	.870	.735	.634	5.023	4.842	4.707	4.606	8.994	8.813	8.679	8.577
1.267	1.122	.937	.798	.690	5.162	4.978	4.838	4.731	9.203	9.019	8.879	8.772
1.258	1.190	1.003	.859	.747	5.303	5.116	4.972	4.860	9.416	9.229	9.085	8.973
1.250	1.256	1.068	.920	.803	5.445	5.256	5.108	4.992	9.633	9.445	9.297	9.181
1.242	1.321	1.132	.981	.860	5.590	5.400	5.249	5.128	9.858	9.668	9.517	9.396
1.233	1.386	1.196	1.042	.917	5.738	5.548	5.394	5.269	10.090	9.900	9.746	9.621
1.225	1.451	1.261	1.104	.976	5.891	5.701	5.545	5.416	10.332	10.141	9.985	9.857
1.217	1.517	1.327	1.168	1.037	6.050	5.860	5.701	5.570	10.583	10.393	10.234	10.103
1.208	1.584	1.394	1.233	1.099	6.216	6.026	5.865	5.731	10.847	10.657	10.497	10.363
1.200	1.653	1.463	1.301	1.164	6.389	6.199	6.037	5.900	11.125	10.935	10.773	10.636
1.192	1.724	1.534	1.371	1.231	6.571	6.381	6.218	6.078	11.418	11.228	11.065	10.925
1.183	1.797	1.608	1.443	1.301	6.763	6.574	6.409	6.267	11.728	11.539	11.375	11.233
1.175	1.873	1.685	1.520	1.375	6.966	6.777	6.612	6.468	12.058	11.870	11.704	11.560
1.167	1.954	1.766	1.600	1.453	7.182	6.994	6.828	6.681	12.410	12.222	12.056	11.909
1.158	2.039	1.852	1.684	1.536	7.413	7.226	7.058	6.910	12.787	12.600	12.433	12.284
1.150	2.128	1.943	1.775	1.624	7.661	7.475	7.307	7.157	13.193	13.007	12.839	12.689
1.142	2.225	2.040	1.871	1.719	7.928	7.743	7.574	7.423	13.632	13.446	13.278	13.126
1.133	2.328	2.144	1.975	1.821	8.218	8.034	7.865	7.712	14.109	13.925	13.756	13.602
1.125	2.440	2.256	2.087	1.932	8.535	8.352	8.182	8.028	14.631	14.448	14.278	14.123
1.117	2.562	2.379	2.209	2.053	8.884	8.701	8.531	8.375	15.206	15.023	14.853	14.697
1.108	2.696	2.514	2.344	2.187	9.269	9.088	8.918	8.760	15.843	15.661	15.491	15.334
1.100	2.845	2.664	2.494	2.335	9.700	9.520	9.349	9.190	16.556	16.375	16.205	16.046
1.092	3.012	2.832	2.662	2.502	10.187	10.007	9.836	9.676	17.361	17.182	17.011	16.851
1.083	3.202	3.023	2.852	2.691	10.742	10.563	10.392	10.231	18.281	18.103	17.932	17.771
1.075	3.421	3.243	3.072	2.910	11.384	11.206	11.036	10.873	19.348	19.170	18.999	18.837
1.067	3.677	3.500	3.330	3.166	12.141	11.964	11.793	11.630	20.605	20.428	20.257	20.094
1.058	3.985	3.809	3.638	3.474	13.051	12.875	12.705	12.540	22.118	21.942	21.771	21.606
1.050	4.364	4.189	4.018	3.853	14.177	14.002	13.831	13.666	23.990	23.814	23.644	23.478
1.042	4.849	4.675	4.504	4.338	15.621	15.446	15.276	15.109	26.392	26.217	26.047	25.880
1.033	5.503	5.330	5.159	4.992	17.570	17.397	17.226	17.059	29.637	29.464	29.293	29.126
1.025	6.456	6.283	6.113	5.945	20.419	20.246	20.076	19.908	34.381	34.209	34.038	33.870
1.017	8.048	7.876	7.706	7.537	25.184	25.012	24.842	24.673	42.320	42.148	41.978	41.809
1.008	11.627	11.456	11.286	11.116	35.911	35.740	35.570	35.401	60.195	60.024	59.854	59.685

APPROXIMATELY EQUIVALENT LAYER N= .80

	FUNDAMENTAL MODE				1ST HIGHER MODE				2ND HIGHER MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.244	.457	.349	.281	.235	4.705	4.597	4.529	4.483	8.953	8.845	8.777	8.731
1.237	.640	.496	.403	.339	4.950	4.805	4.712	4.648	9.260	9.115	9.022	8.958
1.231	.778	.611	.500	.422	5.152	4.984	4.873	4.796	9.525	9.358	9.247	9.169
1.225	.893	.710	.585	.496	5.334	5.150	5.025	4.936	9.774	9.590	9.465	9.376
1.219	.995	.800	.664	.565	5.504	5.309	5.173	5.074	10.014	9.819	9.682	9.584
1.212	1.087	.883	.738	.631	5.669	5.465	5.320	5.212	10.251	10.047	9.901	9.794
1.206	1.173	.963	.809	.695	5.831	5.620	5.466	5.352	10.488	10.277	10.124	10.009
1.200	1.255	1.039	.879	.758	5.991	5.776	5.615	5.494	10.728	10.512	10.351	10.230
1.194	1.334	1.114	.948	.820	6.153	5.933	5.767	5.639	10.972	10.752	10.585	10.458
1.187	1.411	1.188	1.017	.883	6.316	6.094	5.922	5.789	11.222	10.999	10.827	10.694
1.181	1.487	1.262	1.085	.947	6.483	6.258	6.082	5.943	11.480	11.255	11.078	10.940
1.175	1.562	1.335	1.155	1.012	6.654	6.428	6.247	6.104	11.747	11.520	11.339	11.196
1.169	1.638	1.410	1.226	1.078	6.831	6.603	6.419	6.271	12.024	11.796	11.612	11.464
1.162	1.714	1.485	1.298	1.146	7.014	6.785	6.598	6.445	12.314	12.085	11.897	11.745
1.156	1.792	1.563	1.373	1.216	7.205	6.975	6.785	6.628	12.617	12.387	12.197	12.041
1.150	1.872	1.642	1.449	1.289	7.404	7.174	6.981	6.821	12.936	12.706	12.513	12.353
1.144	1.954	1.724	1.529	1.365	7.613	7.383	7.188	7.024	13.273	13.043	12.848	12.684
1.137	2.039	1.809	1.612	1.445	7.834	7.604	7.407	7.240	13.629	13.399	13.202	13.035
1.131	2.128	1.898	1.699	1.529	8.068	7.838	7.639	7.469	14.008	13.778	13.579	13.409
1.125	2.221	1.992	1.791	1.617	8.316	8.087	7.886	7.713	14.412	14.183	13.982	13.808
1.119	2.319	2.090	1.888	1.711	8.582	8.353	8.151	7.975	14.845	14.616	14.414	14.238
1.112	2.423	2.195	1.991	1.812	8.867	8.639	8.435	8.256	15.312	15.083	14.880	14.700
1.106	2.534	2.306	2.102	1.920	9.175	8.947	8.743	8.561	15.816	15.588	15.384	15.202
1.100	2.654	2.427	2.221	2.036	9.509	9.282	9.076	8.892	16.365	16.138	15.932	15.747
1.094	2.783	2.556	2.350	2.163	9.874	9.647	9.440	9.254	16.965	16.738	16.531	16.345
1.087	2.924	2.698	2.490	2.301	10.274	10.049	9.841	9.652	17.625	17.400	17.192	17.003
1.081	3.078	2.854	2.645	2.454	10.718	10.493	10.285	10.093	18.358	18.133	17.925	17.733
1.075	3.250	3.026	2.817	2.624	11.214	10.990	10.781	10.587	19.178	18.954	18.744	18.551
1.069	3.443	3.220	3.010	2.815	11.773	11.550	11.340	11.145	20.104	19.881	19.671	19.475
1.062	3.662	3.440	3.229	3.032	12.412	12.190	11.980	11.782	21.162	20.940	20.730	20.532
1.056	3.914	3.693	3.482	3.283	13.152	12.931	12.720	12.520	22.389	22.168	21.957	21.758
1.050	4.210	3.990	3.779	3.577	14.023	13.803	13.591	13.390	23.836	23.615	23.404	23.203
1.044	4.565	4.346	4.134	3.931	15.071	14.852	14.640	14.437	25.578	25.358	25.146	24.943
1.037	5.002	4.784	4.572	4.367	16.368	16.149	15.937	15.732	27.733	27.515	27.302	27.098
1.031	5.562	5.344	5.132	4.925	18.031	17.813	17.601	17.395	30.500	30.283	30.070	29.864
1.025	6.315	6.099	5.886	5.678	20.278	20.061	19.849	19.641	34.241	34.024	33.811	33.603
1.019	7.415	7.199	6.986	6.777	23.562	23.346	23.133	22.924	39.710	39.494	39.281	39.072
1.012	9.251	9.036	8.823	8.612	29.059	28.843	28.630	28.420	48.866	48.651	48.438	48.227
1.006	13.382	13.167	12.954	12.742	41.437	41.223	41.010	40.798	69.493	69.278	69.065	68.853

APPROXIMATELY EQUIVALENT LAYER N= .85

1.172	.516	.393	.316	.265	5.655	5.532	5.455	5.404	10.794	10.671	10.594	10.543
1.168	.726	.560	.454	.381	5.937	5.771	5.665	5.593	11.149	10.983	10.877	10.804
1.163	.885	.691	.564	.476	6.172	5.978	5.851	5.762	11.459	11.265	11.138	11.049
1.159	1.020	.805	.661	.560	6.385	6.170	6.027	5.925	11.750	11.536	11.392	11.290
1.154	1.139	.909	.751	.638	6.585	6.356	6.198	6.085	12.032	11.803	11.645	11.532
1.150	1.248	1.006	.836	.713	6.780	6.538	6.368	6.245	12.312	12.070	11.900	11.777
1.146	1.349	1.098	.918	.786	6.970	6.719	6.539	6.407	12.591	12.340	12.160	12.028
1.141	1.447	1.188	.999	.858	7.161	6.902	6.713	6.572	12.875	12.616	12.427	12.286
1.137	1.540	1.275	1.079	.930	7.352	7.087	6.890	6.741	13.163	12.898	12.701	12.553
1.132	1.632	1.362	1.158	1.002	7.546	7.276	7.072	6.916	13.459	13.189	12.985	12.829
1.128	1.722	1.449	1.238	1.075	7.743	7.469	7.259	7.096	13.764	13.490	13.280	13.117
1.124	1.812	1.535	1.319	1.150	7.946	7.669	7.453	7.284	14.080	13.803	13.587	13.418
1.119	1.903	1.623	1.402	1.226	8.156	7.876	7.655	7.479	14.409	14.129	13.908	13.732
1.115	1.994	1.712	1.486	1.305	8.373	8.091	7.865	7.684	14.751	14.470	14.244	14.062
1.110	2.087	1.804	1.573	1.387	8.599	8.316	8.085	7.898	15.111	14.827	14.597	14.410
1.106	2.182	1.898	1.663	1.471	8.835	8.551	8.316	8.124	15.488	15.204	14.969	14.777
1.101	2.280	1.995	1.757	1.560	9.083	8.798	8.560	8.363	15.887	15.601	15.363	15.166
1.097	2.382	2.096	1.854	1.653	9.345	9.059	8.818	8.616	16.309	16.023	15.781	15.580
1.093	2.488	2.201	1.957	1.750	9.622	9.336	9.092	8.885	16.757	16.471	16.226	16.020
1.088	2.598	2.312	2.065	1.854	9.917	9.631	9.383	9.173	17.236	16.949	16.702	16.491
1.084	2.715	2.429	2.179	1.964	10.232	9.946	9.696	9.481	17.749	17.462	17.213	16.998
1.079	2.839	2.553	2.301	2.082	10.571	10.284	10.032	9.813	18.302	18.015	17.763	17.544
1.075	2.972	2.685	2.431	2.208	10.935	10.649	10.395	10.172	18.899	18.613	18.358	18.135
1.071	3.114	2.828	2.572	2.345	11.331	11.045	10.789	10.562	19.549	19.263	19.006	18.780
1.066	3.268	2.982	2.724	2.493	11.764	11.478	11.220	10.989	20.260	19.974	19.716	19.485
1.062	3.435	3.150	2.890	2.656	12.239	11.954	11.694	11.460	21.043	20.757	20.497	20.263
1.057	3.620	3.335	3.073	2.836	12.765	12.481	12.219	11.982	21.911	21.626	21.365	21.127
1.053	3.824	3.540	3.277	3.036	13.354	13.069	12.806	12.566	22.883	22.599	22.336	22.095
1.049	4.054	3.770	3.506	3.261	14.017	13.734	13.469	13.225	23.981	23.698	23.433	23.189
1.044	4.314	4.031	3.765	3.518	14.775	14.493	14.227	13.980	25.237	24.954	24.688	24.441
1.040	4.614	4.332	4.065	3.815	15.653	15.371	15.104	14.854	26.692	26.410	26.143	25.893
1.035	4.966	4.684	4.416	4.163	16.687	16.406	16.138	15.885	28.409	28.128	27.859	27.606
1.031	5.387	5.107	4.838	4.582	17.932	17.651	17.382	17.126	30.476	30.196	29.927	29.671
1.026	5.907	5.628	5.358	5.099	19.471	19.192	18.922	18.663	33.036	32.756	32.486	32.227
1.022	6.572	6.293	6.022	5.761	21.447	21.168	20.898	20.636	36.322	36.044	35.773	35.511
1.018	7.468	7.190	6.919	6.654	24.117	23.839	23.568	23.303	40.766	40.489	40.217	39.953
1.013	8.775	8.498	8.226	7.959	28.021	27.744	27.472	27.205	47.267	46.990	46.717	46.451
1.009	10.959	10.683	10.410	10.141	34.556	34.280	34.007	33.738	58.154	57.877	57.604	57.335
1.004	15.873	15.598	15.324	15.052	49.281	49.006	48.732	48.460	82.689	82.414	82.140	81.868

APPROXIMATELY EQUIVALENT LAYER N= .90

	FUNDAMENTAL MODE				1ST HIGHER MODE				2ND HIGHER MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.108	.618	.469	.378	.316	7.192	7.043	6.951	6.889	13.765	13.616	13.525	13.463
1.106	.872	.670	.543	.455	7.536	7.334	7.206	7.119	14.200	13.998	13.870	13.783
1.103	1.067	.829	.675	.568	7.825	7.587	7.433	7.326	14.582	14.345	14.191	14.084
1.100	1.232	.968	.793	.669	8.088	7.823	7.648	7.525	14.943	14.679	14.504	14.380
1.097	1.379	1.094	.901	.764	8.337	8.052	7.858	7.721	15.294	15.009	14.816	14.678
1.094	1.515	1.213	1.004	.854	8.578	8.277	8.068	7.918	15.642	15.340	15.132	14.981
1.092	1.642	1.327	1.104	.942	8.817	8.501	8.279	8.117	15.991	15.676	15.454	15.291
1.089	1.763	1.437	1.203	1.029	9.054	8.728	8.493	8.320	16.345	16.018	15.784	15.611
1.086	1.881	1.545	1.300	1.117	9.293	8.958	8.712	8.529	16.706	16.370	16.124	15.941
1.083	1.996	1.653	1.397	1.204	9.536	9.192	8.937	8.744	17.076	16.732	16.477	16.284
1.081	2.110	1.760	1.496	1.293	9.784	9.434	9.169	8.967	17.458	17.108	16.843	16.641
1.078	2.223	1.868	1.595	1.384	10.038	9.683	9.410	9.199	17.853	17.498	17.225	17.014
1.075	2.337	1.977	1.697	1.478	10.301	9.941	9.661	9.441	18.265	17.904	17.624	17.405
1.072	2.453	2.088	1.801	1.574	10.573	10.209	9.922	9.695	18.694	18.330	18.043	17.816
1.069	2.570	2.202	1.909	1.674	10.857	10.490	10.196	9.961	19.144	18.777	18.483	18.248
1.067	2.690	2.320	2.020	1.778	11.154	10.784	10.484	10.242	19.617	19.247	18.948	18.705
1.064	2.814	2.441	2.136	1.887	11.465	11.093	10.788	10.538	20.117	19.744	19.439	19.190
1.061	2.942	2.568	2.257	2.001	11.794	11.420	11.109	10.853	20.646	20.272	19.961	19.705
1.058	3.075	2.700	2.384	2.122	12.142	11.766	11.451	11.188	21.208	20.832	20.517	20.254
1.056	3.215	2.838	2.518	2.249	12.512	12.135	11.815	11.546	21.808	21.432	21.111	20.842
1.053	3.363	2.985	2.661	2.385	12.907	12.530	12.205	11.930	22.452	22.074	21.750	21.474
1.050	3.519	3.141	2.812	2.531	13.332	12.953	12.625	12.344	23.145	22.766	22.438	22.156
1.047	3.686	3.307	2.975	2.688	13.790	13.411	13.079	12.792	23.894	23.515	23.183	22.896
1.044	3.866	3.486	3.150	2.857	14.288	13.908	13.572	13.279	24.710	24.330	23.994	23.701
1.042	4.059	3.680	3.341	3.042	14.831	14.451	14.112	13.813	25.602	25.222	24.883	24.584
1.039	4.271	3.891	3.549	3.244	15.427	15.048	14.706	14.401	26.584	26.205	25.862	25.558
1.036	4.503	4.123	3.778	3.468	16.089	15.709	15.364	15.054	27.674	27.295	26.950	26.640
1.033	4.760	4.381	4.033	3.718	16.827	16.448	16.100	15.785	28.895	28.515	28.167	27.852
1.031	5.049	4.670	4.319	3.999	17.661	17.282	16.932	16.611	30.274	29.895	29.544	29.224
1.028	5.377	4.998	4.645	4.319	18.614	18.235	17.882	17.557	31.851	31.472	31.119	30.794
1.025	5.754	5.376	5.021	4.690	19.717	19.339	18.983	18.653	33.680	33.301	32.946	32.616
1.022	6.197	5.820	5.462	5.127	21.017	20.639	20.282	19.946	35.837	35.459	35.102	34.766
1.019	6.728	6.351	5.991	5.651	22.582	22.205	21.845	21.505	38.436	38.059	37.699	37.359
1.017	7.382	7.006	6.644	6.299	24.518	24.142	23.780	23.435	41.654	41.278	40.916	40.571
1.014	8.219	7.844	7.480	7.131	27.004	26.628	26.265	25.915	45.788	45.413	45.049	44.699
1.011	9.348	8.973	8.607	8.253	30.364	29.989	29.623	29.269	51.380	51.005	50.640	50.285
1.008	10.994	10.619	10.252	9.894	35.278	34.904	34.536	34.178	59.562	59.188	58.821	58.462
1.006	13.744	13.371	13.002	12.639	43.507	43.133	42.765	42.402	73.269	72.896	72.527	72.164
1.003	19.934	19.562	19.191	18.824	62.054	61.681	61.311	60.944	104.173	103.801	103.431	103.063

Table B

Phase Velocities of Love Waves Propagating in a Layer with Linear Velocity Gradient and Parallel Boundaries Overlying a Homogeneous Halfspace

N= .6000 CUTOFF1=1.6667 CUTOFF2=1.0200 CUTOFF3=1.6502

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI	RHO= 0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.653	.121	.091	.073	.088	2.545	2.515	2.497	2.512	0	0	0	0
1.640	.174	.132	.106	.126	2.630	2.587	2.561	2.582	.284	.217	.176	.147
1.627	.217	.164	.132	.158	2.705	2.653	2.621	2.646	.418	.327	.267	.225
1.613	.254	.194	.156	.186	2.776	2.716	2.678	2.708	.510	.406	.335	.284
1.600	.289	.221	.178	.213	2.846	2.778	2.735	2.769	.582	.471	.392	.335
1.587	.322	.247	.200	.238	2.915	2.840	2.793	2.831	.642	.527	.443	.380
1.573	.354	.273	.221	.262	2.984	2.903	2.851	2.893	.696	.578	.489	.422
1.560	.385	.298	.242	.287	3.054	2.966	2.910	2.955	.744	.624	.533	.462
1.547	.416	.323	.262	.311	3.125	3.031	2.971	3.020	.788	.668	.574	.501
1.533	.446	.348	.283	.335	3.197	3.098	3.034	3.085	.830	.710	.614	.538
1.520	.477	.373	.305	.360	3.270	3.166	3.098	3.153	.870	.750	.653	.574
1.507	.508	.399	.326	.385	3.346	3.237	3.164	3.223	.909	.789	.690	.610
1.493	.539	.425	.349	.410	3.423	3.309	3.233	3.295	.946	.827	.728	.646
1.480	.571	.452	.372	.436	3.504	3.385	3.305	3.369	.983	.865	.765	.682
1.467	.603	.479	.395	.463	3.586	3.463	3.379	3.446	1.020	.903	.802	.718
1.453	.636	.508	.420	.491	3.672	3.544	3.456	3.527	1.057	.940	.840	.754
1.440	.670	.537	.445	.519	3.761	3.628	3.536	3.610	1.094	.978	.877	.790
1.427	.704	.567	.471	.549	3.853	3.716	3.620	3.698	1.131	1.016	.915	.828
1.413	.740	.599	.499	.580	3.950	3.808	3.708	3.789	1.169	1.055	.954	.866
1.400	.777	.632	.528	.612	4.050	3.904	3.800	3.885	1.208	1.095	.994	.905
1.387	.816	.666	.558	.645	4.155	4.005	3.897	3.985	1.248	1.135	1.035	.945
1.373	.856	.702	.590	.681	4.266	4.112	3.999	4.090	1.288	1.177	1.076	.986
1.360	.898	.740	.623	.718	4.382	4.224	4.107	4.202	1.331	1.220	1.120	1.029
1.347	.942	.780	.659	.757	4.504	4.342	4.221	4.319	1.374	1.265	1.165	1.074
1.333	.988	.822	.697	.798	4.633	4.467	4.342	4.443	1.420	1.311	1.211	1.120
1.320	1.037	.866	.737	.842	4.770	4.600	4.471	4.576	1.467	1.360	1.260	1.168
1.307	1.088	.914	.780	.889	4.915	4.741	4.608	4.716	1.517	1.411	1.311	1.219
1.293	1.142	.964	.826	.939	5.070	4.892	4.754	4.866	1.570	1.464	1.365	1.273
1.280	1.200	1.018	.876	.992	5.235	5.054	4.911	5.027	1.625	1.520	1.421	1.329
1.267	1.262	1.076	.930	1.050	5.413	5.227	5.080	5.200	1.684	1.580	1.481	1.389
1.253	1.329	1.139	.988	1.112	5.604	5.415	5.263	5.387	1.747	1.644	1.545	1.453
1.240	1.400	1.207	1.051	1.179	5.811	5.618	5.462	5.590	1.815	1.712	1.614	1.521
1.227	1.478	1.281	1.120	1.252	6.036	5.839	5.678	5.810	1.887	1.785	1.688	1.595
1.213	1.563	1.363	1.197	1.333	6.282	6.082	5.916	6.052	1.966	1.865	1.767	1.674
1.200	1.656	1.452	1.281	1.421	6.552	6.349	6.178	6.318	2.052	1.951	1.854	1.761
1.187	1.758	1.551	1.376	1.520	6.852	6.645	6.470	6.614	2.146	2.046	1.949	1.856
1.173	1.873	1.663	1.482	1.631	7.187	6.976	6.796	6.944	2.250	2.150	2.054	1.961
1.160	2.002	1.788	1.603	1.756	7.564	7.350	7.165	7.318	2.366	2.267	2.171	2.078
1.147	2.149	1.932	1.742	1.899	7.994	7.777	7.587	7.744	2.496	2.398	2.302	2.209
1.133	2.318	2.099	1.903	2.064	8.490	8.271	8.076	8.237	2.645	2.547	2.452	2.359
1.120	2.516	2.294	2.094	2.260	9.073	8.851	8.651	8.816	2.817	2.720	2.624	2.532
1.107	2.754	2.530	2.325	2.494	9.770	9.546	9.342	9.511	3.019	2.922	2.827	2.735
1.093	3.045	2.820	2.611	2.784	10.628	10.402	10.193	10.366	3.261	3.165	3.071	2.978
1.080	3.416	3.190	2.978	3.154	11.717	11.491	11.279	11.455	3.561	3.465	3.371	3.279
1.067	3.912	3.687	3.472	3.650	13.171	12.946	12.732	12.909	3.944	3.849	3.756	3.663
1.053	4.623	4.402	4.189	4.366	15.255	15.034	14.821	14.998	4.461	4.367	4.274	4.181
1.040	5.780	5.571	5.366	5.536	18.630	18.421	18.216	18.386	5.216	5.122	5.029	4.936
1.027	8.242	8.075	7.910	8.048	25.733	25.567	25.401	25.539	6.476	6.383	6.290	6.197

N= .6000 CUTOFF1=1.6667 CUTOFF2=1.0400 CUTOFF3=1.6340

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.653	.122	.092	.074	.088	2.585	2.554	2.536	2.551	0	0	0	0
1.640	.176	.133	.107	.128	2.671	2.628	2.602	2.623	0	0	0	0
1.627	.219	.166	.134	.160	2.747	2.695	2.662	2.688	.247	.188	.151	.127
1.613	.257	.196	.158	.188	2.820	2.759	2.721	2.751	.401	.313	.255	.215
1.600	.292	.223	.180	.215	2.892	2.822	2.779	2.814	.501	.398	.328	.278
1.587	.326	.250	.202	.241	2.962	2.886	2.838	2.877	.578	.466	.388	.331
1.573	.359	.276	.224	.266	3.033	2.951	2.898	2.940	.642	.525	.441	.378
1.560	.390	.302	.245	.290	3.105	3.016	2.959	3.005	.698	.578	.489	.422
1.547	.422	.327	.266	.315	3.177	3.083	3.022	3.071	.748	.627	.534	.463
1.533	.453	.353	.288	.340	3.252	3.151	3.086	3.139	.794	.672	.577	.503
1.520	.484	.379	.309	.365	3.327	3.222	3.152	3.208	.838	.716	.618	.541
1.507	.516	.405	.332	.391	3.405	3.294	3.221	3.280	.880	.757	.658	.579
1.493	.548	.432	.355	.417	3.486	3.370	3.292	3.355	.920	.798	.698	.616
1.480	.581	.460	.378	.444	3.568	3.447	3.366	3.432	.959	.837	.737	.653
1.467	.614	.488	.402	.472	3.654	3.528	3.443	3.512	.998	.877	.775	.690
1.453	.648	.517	.428	.500	3.743	3.612	3.523	3.595	1.036	.916	.814	.727
1.440	.683	.548	.454	.530	3.835	3.700	3.606	3.682	1.074	.955	.852	.765
1.427	.719	.579	.481	.561	3.931	3.791	3.693	3.773	1.113	.994	.892	.803
1.413	.757	.612	.510	.593	4.032	3.887	3.785	3.868	1.152	1.034	.931	.842
1.400	.795	.647	.540	.626	4.137	3.988	3.881	3.968	1.191	1.075	.972	.882
1.387	.836	.682	.572	.662	4.247	4.093	3.983	4.072	1.232	1.116	1.013	.923
1.373	.878	.720	.605	.699	4.362	4.204	4.090	4.183	1.273	1.159	1.056	.964
1.360	.922	.760	.641	.738	4.484	4.322	4.203	4.299	1.316	1.203	1.100	1.008
1.347	.968	.802	.678	.779	4.612	4.446	4.323	4.423	1.361	1.248	1.145	1.053
1.333	1.017	.847	.719	.823	4.748	4.578	4.450	4.554	1.407	1.295	1.192	1.100
1.320	1.068	.894	.761	.869	4.892	4.718	4.586	4.693	1.455	1.344	1.242	1.148
1.307	1.123	.944	.807	.919	5.046	4.868	4.731	4.842	1.505	1.395	1.293	1.200
1.293	1.181	.998	.857	.972	5.210	5.028	4.886	5.002	1.558	1.449	1.347	1.253
1.280	1.243	1.056	.910	1.030	5.386	5.200	5.054	5.173	1.614	1.506	1.404	1.310
1.267	1.309	1.119	.968	1.091	5.576	5.386	5.235	5.358	1.673	1.566	1.465	1.371
1.253	1.381	1.187	1.031	1.159	5.781	5.587	5.431	5.558	1.737	1.630	1.529	1.435
1.240	1.458	1.261	1.100	1.232	6.003	5.805	5.645	5.776	1.804	1.699	1.598	1.503
1.227	1.543	1.342	1.176	1.312	6.246	6.045	5.879	6.015	1.877	1.772	1.672	1.577
1.213	1.636	1.431	1.261	1.401	6.513	6.308	6.138	6.278	1.956	1.852	1.752	1.657
1.200	1.738	1.530	1.355	1.499	6.808	6.600	6.425	6.569	2.042	1.939	1.839	1.744
1.187	1.852	1.641	1.461	1.609	7.137	6.926	6.746	6.894	2.136	2.034	1.934	1.839
1.173	1.980	1.766	1.581	1.734	7.507	7.294	7.109	7.261	2.240	2.138	2.039	1.944
1.160	2.126	1.909	1.720	1.876	7.928	7.712	7.522	7.679	2.357	2.255	2.157	2.061
1.147	2.293	2.075	1.881	2.041	8.413	8.195	8.001	8.161	2.487	2.386	2.288	2.193
1.133	2.489	2.270	2.071	2.235	8.981	8.761	8.563	8.727	2.636	2.536	2.438	2.343
1.120	2.724	2.503	2.301	2.468	9.658	9.437	9.235	9.402	2.808	2.709	2.611	2.516
1.107	3.010	2.790	2.585	2.755	10.486	10.266	10.061	10.230	3.010	2.911	2.814	2.719
1.093	3.373	3.155	2.950	3.120	11.532	11.314	11.109	11.279	3.253	3.155	3.058	2.963
1.080	3.855	3.643	3.439	3.608	12.917	12.705	12.501	12.670	3.553	3.455	3.358	3.263
1.067	4.544	4.343	4.148	4.310	14.882	14.681	14.487	14.649	3.936	3.839	3.743	3.648
1.053	5.658	5.486	5.316	5.457	18.028	17.855	17.686	17.827	4.454	4.357	4.261	4.166
1.027	.155	.155	.155	.155	.311	.311	.311	.311	6.468	6.373	6.277	6.183

N= .6000 CUTOFF1=1.6667 CUTOFF2=1.0600 CUTOFF3=1.6181

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.653	.124	.093	.075	.089	2.625	2.594	2.576	2.591	0	0	0	0
1.640	.178	.134	.108	.129	2.712	2.669	2.642	2.664	0	0	0	0
1.627	.221	.168	.135	.161	2.791	2.737	2.704	2.731	0	0	0	0
1.613	.260	.198	.159	.190	2.865	2.803	2.764	2.795	.205	.155	.125	.104
1.600	.296	.226	.182	.217	2.938	2.868	2.824	2.859	.385	.298	.243	.204
1.587	.330	.253	.205	.244	3.011	2.933	2.885	2.924	.493	.390	.321	.272
1.573	.363	.280	.226	.269	3.083	3.000	2.946	2.989	.575	.463	.384	.327
1.560	.396	.306	.248	.294	3.157	3.067	3.009	3.055	.642	.524	.439	.376
1.547	.428	.332	.270	.320	3.232	3.136	3.074	3.123	.701	.580	.490	.422
1.533	.460	.358	.292	.345	3.308	3.206	3.140	3.193	.753	.630	.537	.465
1.520	.492	.385	.314	.371	3.386	3.279	3.208	3.265	.802	.677	.581	.506
1.507	.525	.412	.337	.398	3.467	3.354	3.279	3.339	.847	.722	.624	.546
1.493	.558	.440	.361	.425	3.550	3.432	3.353	3.416	.890	.766	.665	.585
1.480	.592	.468	.385	.452	3.636	3.512	3.429	3.496	.932	.808	.706	.623
1.467	.626	.498	.410	.481	3.724	3.596	3.509	3.579	.973	.849	.746	.662
1.453	.662	.528	.437	.511	3.817	3.683	3.592	3.666	1.013	.890	.786	.700
1.440	.698	.560	.464	.541	3.913	3.774	3.679	3.756	1.053	.930	.826	.739
1.427	.736	.593	.493	.574	4.013	3.870	3.770	3.851	1.093	.971	.867	.778
1.413	.775	.627	.523	.607	4.117	3.970	3.865	3.950	1.133	1.012	.907	.817
1.400	.815	.663	.554	.642	4.227	4.075	3.966	4.054	1.174	1.054	.949	.858
1.387	.857	.701	.587	.679	4.342	4.185	4.072	4.164	1.215	1.096	.991	.899
1.373	.902	.740	.623	.718	4.463	4.302	4.184	4.280	1.257	1.140	1.034	.942
1.360	.948	.782	.660	.759	4.591	4.425	4.303	4.402	1.301	1.184	1.079	.986
1.347	.997	.827	.700	.803	4.726	4.556	4.429	4.532	1.346	1.230	1.125	1.031
1.333	1.049	.874	.743	.850	4.870	4.695	4.564	4.671	1.393	1.278	1.173	1.079
1.320	1.103	.925	.788	.899	5.022	4.844	4.707	4.818	1.441	1.327	1.223	1.128
1.307	1.161	.979	.838	.952	5.185	5.003	4.862	4.976	1.492	1.379	1.275	1.179
1.293	1.223	1.037	.891	1.010	5.360	5.173	5.027	5.146	1.546	1.433	1.329	1.234
1.280	1.290	1.099	.949	1.072	5.548	5.357	5.206	5.329	1.602	1.491	1.387	1.291
1.267	1.362	1.167	1.011	1.139	5.751	5.556	5.400	5.528	1.662	1.551	1.448	1.352
1.253	1.439	1.241	1.080	1.212	5.971	5.772	5.612	5.743	1.725	1.616	1.513	1.416
1.240	1.524	1.322	1.156	1.292	6.211	6.009	5.844	5.979	1.793	1.685	1.582	1.485
1.227	1.616	1.411	1.241	1.380	6.474	6.269	6.099	6.239	1.867	1.759	1.656	1.559
1.213	1.719	1.510	1.335	1.479	6.766	6.557	6.382	6.526	1.946	1.839	1.736	1.639
1.200	1.832	1.621	1.441	1.589	7.090	6.879	6.699	6.847	2.032	1.926	1.824	1.727
1.187	1.960	1.746	1.561	1.713	7.454	7.241	7.056	7.208	2.127	2.021	1.919	1.822
1.173	2.105	1.889	1.700	1.856	7.868	7.652	7.463	7.619	2.231	2.126	2.025	1.927
1.160	2.272	2.054	1.861	2.021	8.343	8.126	7.933	8.092	2.347	2.243	2.142	2.045
1.147	2.467	2.249	2.052	2.214	8.898	8.680	8.484	8.646	2.478	2.375	2.274	2.177
1.133	2.699	2.481	2.283	2.447	9.558	9.341	9.142	9.307	2.627	2.524	2.424	2.327
1.120	2.983	2.768	2.568	2.733	10.363	10.148	9.948	10.114	2.799	2.697	2.597	2.500
1.107	3.342	3.132	2.934	3.098	11.376	11.166	10.969	11.133	3.002	2.900	2.801	2.703
1.093	3.818	3.619	3.428	3.587	12.711	12.512	12.321	12.480	3.245	3.144	3.044	2.947
1.080	4.500	4.323	4.149	4.293	14.601	14.423	14.250	14.394	3.545	3.444	3.345	3.248
1.067	.667	.652	.637	.649	2.089	2.074	2.059	2.072	3.928	3.829	3.730	3.632
1.053	.211	.211	.211	.211	.423	.423	.423	.423	4.446	4.347	4.248	4.151
1.040	.221	.221	.221	.221	.442	.442	.442	.442	5.200	5.102	5.004	4.906
1.027	.233	.233	.233	.233	.466	.466	.466	.466	6.461	6.363	6.265	6.168

N= .6000 CUTOFF1=1.6667 CUTOFF2=1.0800 CUTOFF3=1.6026

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI	RHO= 0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.653	.125	.094	.075	.090	2.666	2.635	2.616	2.631	0	0	0	0
1.640	.180	.136	.109	.130	2.755	2.711	2.684	2.706	0	0	0	0
1.627	.224	.170	.137	.163	2.835	2.781	2.747	2.774	0	0	0	0
1.613	.263	.200	.161	.193	2.911	2.848	2.809	2.840	0	0	0	0
1.600	.300	.229	.185	.220	2.986	2.915	2.870	2.906	.153	.116	.093	.077
1.587	.335	.257	.207	.247	3.060	2.982	2.933	2.972	.369	.285	.231	.194
1.573	.369	.284	.230	.273	3.135	3.050	2.996	3.039	.486	.383	.315	.266
1.560	.402	.310	.252	.299	3.210	3.119	3.060	3.107	.573	.460	.381	.324
1.547	.435	.337	.274	.325	3.287	3.190	3.127	3.177	.644	.525	.439	.376
1.533	.468	.364	.297	.351	3.366	3.263	3.195	3.249	.705	.582	.491	.423
1.520	.501	.392	.320	.378	3.447	3.338	3.266	3.324	.760	.635	.540	.467
1.507	.535	.420	.344	.405	3.530	3.415	3.339	3.400	.810	.684	.586	.510
1.493	.569	.448	.368	.433	3.616	3.496	3.415	3.480	.857	.730	.630	.551
1.480	.604	.478	.393	.462	3.705	3.579	3.494	3.563	.902	.775	.673	.591
1.467	.639	.509	.419	.491	3.797	3.666	3.577	3.649	.945	.819	.715	.631
1.453	.676	.540	.447	.522	3.893	3.757	3.663	3.739	.988	.862	.757	.671
1.440	.714	.573	.475	.554	3.993	3.852	3.754	3.833	1.030	.904	.799	.711
1.427	.753	.607	.505	.588	4.097	3.951	3.849	3.932	1.071	.946	.840	.751
1.413	.794	.643	.536	.623	4.207	4.056	3.949	4.035	1.113	.989	.882	.791
1.400	.837	.681	.570	.660	4.321	4.166	4.054	4.145	1.154	1.031	.925	.833
1.387	.881	.721	.605	.699	4.442	4.282	4.165	4.260	1.197	1.075	.968	.875
1.373	.928	.763	.642	.740	4.569	4.404	4.283	4.381	1.240	1.119	1.012	.918
1.360	.977	.807	.682	.784	4.704	4.534	4.409	4.511	1.285	1.165	1.057	.963
1.347	1.029	.855	.724	.830	4.847	4.672	4.542	4.648	1.331	1.211	1.104	1.009
1.333	1.084	.905	.770	.880	4.998	4.820	4.685	4.794	1.378	1.260	1.153	1.057
1.320	1.142	.959	.819	.933	5.160	4.977	4.837	4.951	1.427	1.310	1.203	1.107
1.307	1.204	1.017	.872	.990	5.334	5.146	5.001	5.120	1.479	1.362	1.256	1.159
1.293	1.271	1.080	.930	1.052	5.520	5.329	5.179	5.301	1.533	1.417	1.311	1.213
1.280	1.343	1.148	.992	1.119	5.721	5.526	5.371	5.498	1.589	1.475	1.369	1.271
1.267	1.420	1.222	1.061	1.192	5.939	5.740	5.580	5.711	1.650	1.536	1.430	1.332
1.253	1.505	1.303	1.137	1.273	6.177	5.975	5.809	5.945	1.714	1.601	1.495	1.397
1.240	1.598	1.392	1.222	1.361	6.438	6.232	6.062	6.201	1.782	1.670	1.565	1.466
1.227	1.700	1.491	1.316	1.460	6.726	6.517	6.342	6.485	1.856	1.745	1.640	1.541
1.213	1.814	1.602	1.422	1.570	7.046	6.834	6.654	6.802	1.935	1.825	1.720	1.621
1.200	1.942	1.728	1.543	1.695	7.405	7.191	7.007	7.158	2.022	1.912	1.808	1.709
1.187	2.086	1.871	1.683	1.838	7.812	7.597	7.408	7.563	2.117	2.008	1.904	1.804
1.173	2.253	2.037	1.845	2.003	8.279	8.063	7.871	8.030	2.221	2.113	2.009	1.910
1.160	2.447	2.232	2.037	2.198	8.824	8.608	8.414	8.574	2.338	2.231	2.127	2.027
1.147	2.679	2.466	2.270	2.432	9.470	9.257	9.061	9.223	2.469	2.363	2.259	2.160
1.133	2.963	2.754	2.559	2.720	10.257	10.048	9.854	10.015	2.618	2.513	2.410	2.310
1.120	3.321	3.122	2.932	3.089	11.246	11.046	10.856	11.013	2.791	2.686	2.583	2.483
1.107	3.800	3.617	3.440	3.587	12.549	12.366	12.189	12.336	2.993	2.889	2.787	2.687
1.093	1.139	1.101	1.064	1.095	3.648	3.610	3.573	3.604	3.236	3.133	3.031	2.931
1.080	.261	.261	.261	.261	.521	.521	.521	.521	3.536	3.433	3.332	3.232
1.067	.270	.270	.270	.270	.541	.541	.541	.541	3.920	3.818	3.716	3.617
1.053	.282	.282	.282	.282	.563	.563	.563	.563	4.438	4.336	4.235	4.135
1.040	.295	.295	.295	.295	.590	.590	.590	.590	5.193	5.091	4.991	4.891
1.027	.311	.311	.311	.311	.621	.621	.621	.621	6.453	6.352	6.252	6.152

N= .6000 CUTOFF1=1.6667 CUTOFF2=1.1000 CUTOFF3=1.5873

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI	RHO= 0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.653	.126	.095	.076	.091	2.707	2.676	2.657	2.672	0	0	0	0
1.640	.182	.137	.110	.132	2.798	2.754	2.726	2.748	0	0	0	0
1.627	.227	.172	.138	.165	2.880	2.825	2.791	2.818	0	0	0	0
1.613	.267	.203	.164	.195	2.958	2.894	2.854	2.886	0	0	0	0
1.600	.304	.232	.187	.223	3.034	2.962	2.918	2.953	0	0	0	0
1.587	.340	.260	.211	.251	3.111	3.031	2.981	3.021	.078	.059	.047	.039
1.573	.374	.288	.233	.277	3.187	3.101	3.046	3.090	.353	.272	.221	.185
1.560	.409	.316	.256	.304	3.265	3.172	3.113	3.161	.480	.378	.310	.262
1.547	.442	.343	.279	.330	3.345	3.245	3.181	3.233	.572	.458	.379	.323
1.533	.476	.371	.302	.357	3.426	3.321	3.252	3.307	.646	.526	.439	.376
1.520	.511	.399	.326	.385	3.510	3.398	3.325	3.384	.710	.585	.494	.425
1.507	.545	.428	.350	.413	3.596	3.479	3.401	3.463	.767	.640	.544	.471
1.493	.581	.458	.376	.442	3.685	3.562	3.480	3.546	.819	.691	.592	.514
1.480	.617	.488	.402	.472	3.777	3.649	3.562	3.632	.868	.739	.637	.557
1.467	.654	.520	.429	.503	3.873	3.739	3.648	3.722	.915	.786	.682	.599
1.453	.692	.553	.458	.535	3.973	3.834	3.738	3.815	.960	.831	.726	.640
1.440	.732	.588	.487	.568	4.077	3.933	3.832	3.913	1.004	.875	.769	.681
1.427	.773	.624	.519	.604	4.186	4.037	3.932	4.017	1.047	.920	.812	.723
1.413	.816	.661	.552	.640	4.300	4.146	4.036	4.125	1.091	.963	.855	.764
1.400	.861	.701	.587	.679	4.421	4.261	4.147	4.239	1.134	1.008	.899	.807
1.387	.907	.743	.624	.721	4.547	4.383	4.264	4.360	1.178	1.052	.943	.850
1.373	.957	.788	.663	.764	4.681	4.512	4.388	4.489	1.222	1.098	.988	.894
1.360	1.009	.835	.706	.811	4.823	4.649	4.520	4.625	1.268	1.144	1.035	.939
1.347	1.064	.885	.751	.860	4.974	4.796	4.662	4.771	1.314	1.192	1.082	.986
1.333	1.122	.939	.800	.914	5.135	4.952	4.813	4.926	1.362	1.241	1.131	1.034
1.320	1.185	.998	.853	.971	5.307	5.120	4.976	5.093	1.412	1.292	1.182	1.084
1.307	1.252	1.060	.911	1.033	5.492	5.301	5.152	5.273	1.464	1.345	1.236	1.137
1.293	1.324	1.128	.974	1.100	5.692	5.496	5.342	5.468	1.519	1.400	1.291	1.192
1.280	1.402	1.203	1.043	1.173	5.908	5.709	5.549	5.680	1.576	1.459	1.350	1.250
1.267	1.487	1.284	1.119	1.254	6.144	5.941	5.776	5.911	1.637	1.520	1.412	1.312
1.253	1.580	1.374	1.204	1.343	6.402	6.196	6.026	6.165	1.702	1.586	1.477	1.377
1.240	1.683	1.473	1.298	1.442	6.687	6.478	6.303	6.446	1.770	1.656	1.547	1.447
1.227	1.797	1.585	1.405	1.553	7.004	6.792	6.612	6.760	1.844	1.730	1.623	1.522
1.213	1.925	1.711	1.527	1.679	7.358	7.145	6.961	7.112	1.924	1.811	1.704	1.602
1.200	2.070	1.855	1.668	1.822	7.760	7.546	7.358	7.513	2.011	1.899	1.792	1.690
1.187	2.237	2.023	1.832	1.989	8.221	8.006	7.816	7.973	2.106	1.995	1.888	1.786
1.173	2.432	2.219	2.027	2.186	8.757	8.544	8.352	8.511	2.211	2.100	1.994	1.892
1.160	2.665	2.456	2.264	2.423	9.393	9.184	8.992	9.151	2.328	2.218	2.112	2.010
1.147	2.950	2.749	2.560	2.716	10.167	9.965	9.777	9.933	2.459	2.350	2.244	2.142
1.133	3.313	3.125	2.945	3.094	11.140	10.952	10.772	10.921	2.609	2.500	2.395	2.293
1.120	1.723	1.648	1.576	1.636	5.629	5.555	5.483	5.543	2.781	2.674	2.568	2.466
1.107	.634	.619	.604	.616	1.994	1.979	1.964	1.976	2.984	2.877	2.772	2.670
1.093	.315	.315	.315	.315	.629	.629	.629	.629	3.228	3.121	3.017	2.914
1.080	.326	.326	.326	.326	.651	.651	.651	.651	3.528	3.422	3.318	3.215
1.067	.338	.338	.338	.338	.676	.676	.676	.676	3.912	3.807	3.703	3.601
1.053	.352	.352	.352	.352	.704	.704	.704	.704	4.430	4.325	4.221	4.119
1.040	.369	.369	.369	.369	.737	.737	.737	.737	5.185	5.081	4.977	4.875
1.027	.388	.388	.388	.388	.777	.777	.777	.777	6.445	6.342	6.239	6.137

N= .6000 CUTOFF1=1.6667 CUTOFF2=1.1200 CUTOFF3=1.5723

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI	RHO= 0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.653	.128	.096	.077	.092	2.749	2.718	2.699	2.714	0	0	0	0
1.640	.184	.139	.112	.134	2.842	2.797	2.770	2.792	0	0	0	0
1.627	.230	.174	.140	.168	2.926	2.870	2.836	2.863	0	0	0	0
1.613	.271	.206	.166	.198	3.006	2.941	2.901	2.933	0	0	0	0
1.600	.309	.236	.190	.227	3.084	3.011	2.966	3.002	0	0	0	0
1.587	.345	.265	.214	.255	3.163	3.082	3.031	3.072	0	0	0	0
1.573	.381	.293	.237	.282	3.242	3.154	3.098	3.143	0	0	0	0
1.560	.416	.321	.261	.309	3.322	3.227	3.167	3.215	.339	.261	.211	.177
1.547	.451	.349	.284	.337	3.404	3.303	3.238	3.290	.475	.373	.306	.258
1.533	.486	.378	.308	.364	3.488	3.380	3.311	3.367	.572	.458	.379	.322
1.520	.521	.407	.333	.393	3.574	3.461	3.386	3.446	.650	.528	.441	.377
1.507	.557	.437	.358	.422	3.664	3.544	3.465	3.529	.717	.590	.497	.427
1.493	.594	.468	.384	.452	3.756	3.631	3.547	3.614	.776	.647	.549	.475
1.480	.631	.500	.411	.483	3.852	3.721	3.632	3.704	.830	.699	.599	.520
1.467	.670	.533	.440	.515	3.952	3.815	3.722	3.797	.881	.749	.646	.564
1.453	.710	.568	.470	.549	4.056	3.914	3.816	3.895	.929	.798	.692	.607
1.440	.751	.604	.501	.584	4.165	4.017	3.914	3.997	.976	.845	.737	.650
1.427	.794	.642	.534	.621	4.279	4.126	4.018	4.105	1.022	.891	.782	.693
1.413	.839	.681	.569	.660	4.399	4.240	4.128	4.219	1.067	.936	.827	.736
1.400	.887	.723	.606	.701	4.525	4.362	4.244	4.339	1.112	.982	.872	.779
1.387	.936	.768	.645	.745	4.658	4.490	4.367	4.467	1.157	1.028	.918	.823
1.373	.989	.815	.688	.791	4.800	4.626	4.499	4.602	1.203	1.075	.964	.868
1.360	1.044	.866	.733	.841	4.950	4.772	4.639	4.747	1.249	1.122	1.011	.914
1.347	1.103	.920	.782	.894	5.110	4.927	4.789	4.901	1.297	1.171	1.059	.962
1.333	1.166	.978	.835	.952	5.281	5.094	4.951	5.067	1.346	1.221	1.109	1.011
1.320	1.233	1.041	.893	1.014	5.465	5.273	5.125	5.246	1.397	1.273	1.161	1.062
1.307	1.306	1.110	.956	1.081	5.664	5.468	5.314	5.439	1.449	1.327	1.215	1.115
1.293	1.384	1.184	1.025	1.155	5.878	5.678	5.519	5.649	1.505	1.383	1.271	1.170
1.280	1.469	1.266	1.101	1.236	6.112	5.909	5.744	5.879	1.563	1.442	1.330	1.229
1.267	1.563	1.356	1.187	1.325	6.368	6.162	5.992	6.131	1.624	1.504	1.393	1.291
1.253	1.666	1.457	1.282	1.425	6.651	6.441	6.267	6.410	1.689	1.570	1.459	1.357
1.240	1.781	1.569	1.390	1.537	6.964	6.752	6.573	6.720	1.758	1.640	1.529	1.427
1.227	1.910	1.696	1.513	1.664	7.315	7.102	6.919	7.069	1.832	1.715	1.605	1.502
1.213	2.056	1.842	1.656	1.809	7.713	7.499	7.312	7.466	1.913	1.796	1.686	1.583
1.200	2.224	2.012	1.823	1.978	8.168	7.956	7.767	7.923	2.000	1.885	1.775	1.671
1.187	2.421	2.212	2.022	2.179	8.698	8.489	8.299	8.456	2.095	1.981	1.871	1.767
1.173	2.657	2.453	2.265	2.420	9.327	9.123	8.935	9.091	2.201	2.087	1.978	1.874
1.160	2.947	2.753	2.572	2.722	10.093	9.899	9.718	9.868	2.318	2.205	2.096	1.992
1.147	2.467	2.337	2.213	2.316	8.220	8.090	7.966	8.069	2.449	2.337	2.229	2.124
1.133	.915	.882	.850	.877	2.950	2.917	2.884	2.911	2.599	2.488	2.379	2.275
1.107	.366	.366	.366	.366	.731	.731	.731	.731	2.975	2.865	2.757	2.653
1.093	.378	.378	.378	.378	.755	.755	.755	.755	3.218	3.109	3.002	2.897
1.080	.391	.391	.391	.391	.782	.782	.782	.782	3.519	3.410	3.303	3.199
1.067	.406	.406	.406	.406	.811	.811	.811	.811	3.903	3.795	3.689	3.584
1.053	.423	.423	.423	.423	.845	.845	.845	.845	4.421	4.314	4.208	4.103
1.040	.442	.442	.442	.442	.884	.884	.884	.884	5.176	5.070	4.964	4.859
1.027	.466	.466	.466	.466	.932	.932	.932	.932	6.437	6.331	6.226	6.121

N= .6000 CUTOFF1=1.6667 CUTOFF2=1.3000 CUTOFF3=1.4493

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI	RHO= 0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.653	.151	.114	.091	.109	3.175	3.138	3.115	3.133	0	0	0	0
1.640	.220	.166	.133	.159	3.292	3.238	3.205	3.232	0	0	0	0
1.627	.276	.210	.169	.202	3.399	3.332	3.291	3.324	0	0	0	0
1.613	.328	.250	.201	.240	3.503	3.425	3.377	3.416	0	0	0	0
1.600	.378	.289	.233	.278	3.608	3.519	3.463	3.508	0	0	0	0
1.587	.426	.327	.265	.315	3.714	3.615	3.552	3.603	0	0	0	0
1.573	.475	.366	.297	.353	3.822	3.714	3.645	3.700	0	0	0	0
1.560	.523	.406	.330	.391	3.934	3.816	3.741	3.802	0	0	0	0
1.547	.573	.447	.365	.431	4.050	3.924	3.841	3.907	0	0	0	0
1.533	.625	.490	.401	.473	4.171	4.036	3.947	4.019	0	0	0	0
1.520	.678	.535	.439	.516	4.297	4.154	4.058	4.136	0	0	0	0
1.507	.734	.582	.480	.563	4.431	4.279	4.176	4.259	0	0	0	0
1.493	.793	.633	.523	.612	4.571	4.412	4.302	4.391	0	0	0	0
1.480	.855	.687	.571	.665	4.720	4.553	4.436	4.531	0	0	0	0
1.467	.921	.746	.622	.722	4.879	4.704	4.580	4.680	0	0	0	0
1.453	.992	.810	.678	.785	5.049	4.866	4.735	4.841	0	0	0	0
1.440	1.068	.879	.740	.853	5.231	5.042	4.903	5.015	.352	.269	.217	.182
1.427	1.151	.956	.810	.928	5.427	5.232	5.086	5.204	.535	.419	.342	.289
1.413	1.241	1.041	.888	1.012	5.640	5.439	5.286	5.411	.661	.528	.436	.370
1.400	1.340	1.136	.976	1.106	5.872	5.668	5.508	5.638	.761	.618	.517	.442
1.387	1.451	1.244	1.078	1.213	6.128	5.920	5.755	5.890	.848	.699	.589	.507
1.373	1.575	1.367	1.197	1.337	6.411	6.203	6.033	6.172	.925	.773	.658	.569
1.360	1.717	1.512	1.338	1.481	6.729	6.523	6.350	6.492	.998	.843	.724	.630
1.347	1.786	1.597	1.433	1.568	6.727	6.538	6.374	6.509	1.067	.911	.788	.690
1.333	1.269	1.157	1.055	1.139	4.584	4.471	4.370	4.454	1.133	.978	.852	.750
1.320	.961	.896	.835	.885	3.309	3.244	3.182	3.233	1.199	1.044	.915	.810
1.307	.731	.704	.677	.699	2.365	2.337	2.310	2.333	1.265	1.110	.980	.871
1.293	.659	.659	.659	.659	1.318	1.318	1.318	1.318	1.331	1.177	1.045	.935
1.280	.671	.671	.671	.671	1.343	1.343	1.343	1.343	1.399	1.246	1.113	1.000
1.267	.684	.684	.684	.684	1.369	1.369	1.369	1.369	1.469	1.316	1.183	1.068
1.253	.698	.698	.698	.698	1.396	1.396	1.396	1.396	1.542	1.390	1.256	1.139
1.240	.712	.712	.712	.712	1.424	1.424	1.424	1.424	1.618	1.468	1.333	1.214
1.227	.727	.727	.727	.727	1.455	1.455	1.455	1.455	1.699	1.549	1.415	1.294
1.213	.743	.743	.743	.743	1.486	1.486	1.486	1.486	1.784	1.636	1.501	1.380
1.200	.760	.760	.760	.760	1.520	1.520	1.520	1.520	1.877	1.730	1.595	1.472
1.187	.778	.778	.778	.778	1.555	1.555	1.555	1.555	1.977	1.831	1.696	1.572
1.173	.797	.797	.797	.797	1.593	1.593	1.593	1.593	2.086	1.942	1.807	1.682
1.160	.817	.817	.817	.817	1.634	1.634	1.634	1.634	2.207	2.064	1.929	1.803
1.147	.838	.838	.838	.838	1.677	1.677	1.677	1.677	2.343	2.200	2.065	1.939
1.133	.862	.862	.862	.862	1.723	1.723	1.723	1.723	2.496	2.355	2.220	2.093
1.120	.887	.887	.887	.887	1.774	1.774	1.774	1.774	2.672	2.532	2.397	2.269
1.107	.914	.914	.914	.914	1.828	1.828	1.828	1.828	2.878	2.738	2.604	2.476
1.093	.944	.944	.944	.944	1.888	1.888	1.888	1.888	3.124	2.986	2.852	2.723
1.080	.977	.977	.977	.977	1.954	1.954	1.954	1.954	3.427	3.290	3.156	3.027
1.067	1.014	1.014	1.014	1.014	2.028	2.028	2.028	2.028	3.813	3.677	3.544	3.414
1.053	1.056	1.056	1.056	1.056	2.113	2.113	2.113	2.113	4.333	4.198	4.065	3.935
1.040	1.106	1.106	1.106	1.106	2.211	2.211	2.211	2.211	5.091	4.956	4.824	4.693
1.027	1.165	1.165	1.165	1.165	2.331	2.331	2.331	2.331	6.353	6.220	6.088	5.957

N= .6500 CUTOFF1=1.5385 CUTOFF2=1.0200 CUTOFF3=1.5232

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI	RHO= 0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.528	.148	.112	.089	.107	2.916	2.880	2.858	2.875	0	0	0	0
1.517	.212	.161	.129	.154	3.016	2.964	2.932	2.958	.262	.199	.160	.134
1.506	.264	.200	.161	.193	3.104	3.040	3.001	3.032	.421	.326	.265	.223
1.495	.309	.236	.190	.227	3.186	3.113	3.067	3.104	.526	.414	.340	.287
1.485	.351	.269	.217	.259	3.267	3.185	3.133	3.175	.608	.487	.403	.342
1.474	.390	.300	.243	.289	3.346	3.256	3.199	3.245	.678	.549	.458	.391
1.463	.428	.331	.268	.319	3.426	3.328	3.266	3.316	.739	.606	.509	.437
1.452	.465	.361	.293	.348	3.506	3.401	3.334	3.388	.794	.658	.557	.480
1.442	.502	.391	.318	.377	3.586	3.475	3.403	3.461	.845	.707	.602	.522
1.431	.538	.421	.344	.406	3.668	3.551	3.475	3.536	.893	.754	.646	.562
1.420	.573	.451	.369	.435	3.752	3.629	3.548	3.614	.939	.799	.689	.602
1.409	.610	.481	.395	.464	3.838	3.710	3.624	3.693	.983	.843	.731	.641
1.398	.646	.512	.421	.495	3.926	3.792	3.702	3.775	1.026	.886	.772	.680
1.388	.683	.544	.449	.525	4.017	3.878	3.783	3.860	1.068	.928	.813	.719
1.377	.720	.576	.477	.557	4.111	3.966	3.867	3.947	1.110	.971	.855	.759
1.366	.758	.609	.506	.589	4.208	4.058	3.955	4.039	1.152	1.013	.896	.798
1.355	.798	.644	.536	.623	4.308	4.154	4.046	4.133	1.194	1.056	.938	.839
1.345	.838	.679	.567	.658	4.412	4.254	4.141	4.232	1.236	1.099	.980	.880
1.334	.879	.716	.599	.694	4.521	4.358	4.241	4.336	1.279	1.142	1.024	.922
1.323	.922	.754	.633	.732	4.634	4.467	4.346	4.444	1.323	1.187	1.068	.965
1.312	.966	.794	.669	.771	4.753	4.581	4.456	4.558	1.368	1.233	1.113	1.009
1.302	1.012	.836	.706	.812	4.877	4.701	4.571	4.677	1.414	1.279	1.160	1.054
1.291	1.060	.880	.746	.855	5.008	4.828	4.693	4.803	1.461	1.328	1.208	1.102
1.280	1.110	.926	.787	.900	5.146	4.962	4.823	4.936	1.510	1.377	1.258	1.151
1.269	1.163	.975	.832	.948	5.291	5.103	4.959	5.076	1.561	1.429	1.310	1.202
1.258	1.219	1.027	.879	.999	5.445	5.253	5.105	5.226	1.615	1.484	1.364	1.255
1.248	1.277	1.081	.929	1.053	5.608	5.413	5.260	5.385	1.670	1.540	1.420	1.312
1.237	1.339	1.140	.983	1.111	5.783	5.583	5.426	5.554	1.729	1.600	1.480	1.371
1.226	1.405	1.202	1.040	1.172	5.969	5.766	5.604	5.736	1.791	1.663	1.543	1.433
1.215	1.476	1.269	1.103	1.239	6.169	5.962	5.796	5.932	1.857	1.729	1.610	1.499
1.205	1.551	1.341	1.170	1.310	6.384	6.174	6.003	6.143	1.927	1.800	1.681	1.570
1.194	1.633	1.419	1.244	1.388	6.618	6.404	6.229	6.373	2.002	1.876	1.757	1.646
1.183	1.721	1.504	1.324	1.472	6.872	6.655	6.475	6.622	2.083	1.958	1.839	1.727
1.172	1.818	1.598	1.413	1.565	7.149	6.929	6.744	6.896	2.170	2.046	1.927	1.815
1.162	1.923	1.701	1.511	1.667	7.455	7.232	7.042	7.198	2.266	2.142	2.024	1.911
1.151	2.041	1.815	1.620	1.780	7.794	7.569	7.374	7.534	2.370	2.247	2.129	2.017
1.140	2.171	1.943	1.744	1.907	8.174	7.945	7.746	7.910	2.486	2.363	2.245	2.133
1.129	2.318	2.087	1.884	2.052	8.602	8.371	8.167	8.335	2.614	2.493	2.375	2.262
1.118	2.486	2.253	2.045	2.217	9.092	8.858	8.650	8.822	2.759	2.638	2.521	2.408
1.108	2.681	2.445	2.233	2.408	9.659	9.423	9.211	9.386	2.924	2.804	2.687	2.574
1.097	2.909	2.672	2.455	2.634	10.326	10.089	9.873	10.052	3.115	2.995	2.879	2.765
1.086	3.184	2.946	2.725	2.908	11.130	10.892	10.671	10.854	3.339	3.220	3.104	2.990
1.075	3.523	3.285	3.062	3.247	12.123	11.884	11.661	11.846	3.609	3.490	3.374	3.260
1.065	3.959	3.721	3.496	3.683	13.396	13.159	12.934	13.120	3.941	3.823	3.707	3.594
1.054	4.547	4.314	4.089	4.275	15.115	14.881	14.657	14.843	4.367	4.250	4.134	4.020
1.043	5.410	5.185	4.966	5.148	17.629	17.403	17.184	17.366	4.941	4.825	4.709	4.595
1.032	6.871	6.668	6.467	6.634	21.859	21.655	21.454	21.621	5.779	5.664	5.548	5.434
1.022	.316	.313	.310	.312	.967	.964	.961	.963	7.180	7.064	6.950	6.835

N= .6500 CUTOFF1=1.5385 CUTOFF2=1.0400 CUTOFF3=1.5083

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.528	.150	.113	.091	.109	2.967	2.930	2.908	2.926	0	0	0	0
1.517	.216	.163	.131	.157	3.069	3.017	2.985	3.010	0	0	0	0
1.506	.268	.204	.164	.196	3.159	3.095	3.055	3.087	.158	.119	.095	.079
1.495	.314	.240	.193	.231	3.244	3.170	3.123	3.161	.377	.290	.235	.197
1.485	.357	.273	.221	.263	3.327	3.244	3.191	3.233	.499	.391	.320	.270
1.474	.397	.306	.247	.294	3.409	3.317	3.259	3.306	.591	.470	.388	.329
1.463	.436	.337	.273	.324	3.491	3.392	3.328	3.379	.667	.538	.447	.381
1.452	.474	.368	.299	.354	3.573	3.467	3.398	3.454	.732	.598	.501	.429
1.442	.512	.399	.325	.384	3.657	3.544	3.470	3.530	.791	.653	.551	.475
1.431	.549	.429	.351	.414	3.742	3.623	3.544	3.608	.845	.705	.599	.518
1.420	.586	.461	.377	.444	3.829	3.704	3.620	3.688	.896	.754	.645	.560
1.409	.624	.492	.404	.475	3.919	3.787	3.699	3.770	.944	.801	.690	.602
1.398	.661	.524	.432	.506	4.010	3.873	3.781	3.855	.990	.847	.733	.643
1.388	.700	.557	.460	.539	4.105	3.963	3.865	3.944	1.035	.892	.777	.683
1.377	.739	.591	.489	.572	4.203	4.055	3.953	4.036	1.080	.937	.820	.724
1.366	.779	.626	.520	.606	4.304	4.151	4.045	4.131	1.124	.981	.863	.765
1.355	.820	.662	.551	.641	4.409	4.252	4.141	4.231	1.167	1.025	.906	.806
1.345	.862	.699	.584	.677	4.519	4.357	4.241	4.335	1.211	1.070	.950	.848
1.334	.905	.738	.618	.715	4.633	4.466	4.346	4.443	1.255	1.115	.994	.891
1.323	.950	.779	.654	.755	4.753	4.581	4.456	4.557	1.300	1.160	1.039	.935
1.312	.997	.821	.692	.797	4.878	4.702	4.572	4.677	1.346	1.207	1.085	.980
1.302	1.046	.866	.732	.841	5.010	4.829	4.695	4.804	1.393	1.255	1.133	1.026
1.291	1.097	.912	.774	.887	5.148	4.963	4.825	4.937	1.442	1.304	1.182	1.074
1.280	1.151	.962	.819	.935	5.294	5.105	4.962	5.079	1.491	1.355	1.232	1.124
1.269	1.207	1.014	.866	.987	5.449	5.256	5.108	5.229	1.543	1.408	1.285	1.176
1.258	1.267	1.070	.917	1.042	5.614	5.417	5.264	5.389	1.597	1.462	1.340	1.230
1.248	1.330	1.129	.972	1.100	5.789	5.589	5.431	5.560	1.654	1.520	1.397	1.286
1.237	1.397	1.192	1.030	1.163	5.977	5.772	5.610	5.743	1.713	1.580	1.457	1.346
1.226	1.469	1.261	1.094	1.230	6.178	5.970	5.803	5.939	1.776	1.643	1.521	1.409
1.215	1.546	1.334	1.162	1.303	6.395	6.183	6.012	6.152	1.842	1.710	1.588	1.475
1.205	1.629	1.414	1.237	1.382	6.630	6.415	6.238	6.383	1.913	1.782	1.660	1.547
1.194	1.719	1.501	1.319	1.468	6.885	6.667	6.486	6.634	1.988	1.858	1.736	1.623
1.183	1.817	1.596	1.410	1.563	7.164	6.943	6.757	6.910	2.069	1.940	1.818	1.704
1.172	1.925	1.701	1.510	1.667	7.472	7.248	7.058	7.214	2.157	2.029	1.907	1.793
1.162	2.045	1.818	1.623	1.783	7.813	7.587	7.392	7.552	2.253	2.125	2.004	1.889
1.151	2.178	1.949	1.750	1.914	8.195	7.966	7.767	7.931	2.358	2.231	2.110	1.995
1.140	2.328	2.098	1.894	2.062	8.627	8.396	8.192	8.360	2.473	2.347	2.226	2.111
1.129	2.500	2.268	2.060	2.232	9.119	8.887	8.680	8.851	2.602	2.477	2.356	2.241
1.118	2.699	2.466	2.255	2.430	9.691	9.458	9.247	9.421	2.747	2.623	2.503	2.387
1.108	2.934	2.701	2.487	2.664	10.364	10.131	9.917	10.094	2.913	2.789	2.669	2.553
1.097	3.217	2.985	2.770	2.948	11.174	10.943	10.727	10.906	3.104	2.981	2.861	2.744
1.086	3.567	3.339	3.124	3.302	12.178	11.950	11.734	11.913	3.328	3.206	3.086	2.970
1.075	4.020	3.798	3.586	3.762	13.470	13.248	13.035	13.211	3.598	3.476	3.357	3.240
1.065	4.639	4.429	4.226	4.395	15.226	15.016	14.812	14.981	3.931	3.810	3.690	3.574
1.054	5.568	5.384	5.203	5.353	17.836	17.651	17.470	17.621	4.357	4.236	4.117	4.000
1.043	.441	.434	.428	.433	1.362	1.356	1.349	1.354	4.931	4.811	4.693	4.576
1.032	.152	.152	.152	.152	.304	.304	.304	.304	5.769	5.650	5.532	5.415
1.022	.159	.159	.159	.159	.318	.318	.318	.318	7.170	7.051	6.933	6.816

N= .6500 CUTOFF1=1.5385 CUTOFF2=1.0600 CUTOFF3=1.4937

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI	RHO= 0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.528	.153	.115	.092	.110	3.020	2.982	2.959	2.978	0	0	0	0
1.517	.219	.166	.133	.159	3.124	3.071	3.038	3.064	0	0	0	0
1.506	.273	.207	.167	.199	3.216	3.151	3.110	3.143	0	0	0	0
1.495	.320	.244	.197	.235	3.304	3.228	3.181	3.219	0	0	0	0
1.485	.364	.278	.225	.268	3.389	3.304	3.251	3.293	.325	.248	.200	.168
1.474	.405	.312	.252	.300	3.474	3.380	3.321	3.368	.470	.366	.298	.251
1.463	.445	.344	.279	.331	3.558	3.457	3.392	3.444	.572	.453	.373	.316
1.452	.484	.376	.306	.362	3.644	3.535	3.465	3.521	.655	.526	.436	.371
1.442	.523	.407	.332	.393	3.731	3.615	3.540	3.600	.725	.590	.494	.422
1.431	.561	.439	.359	.424	3.819	3.697	3.617	3.681	.788	.649	.547	.470
1.420	.600	.472	.386	.455	3.909	3.781	3.696	3.765	.846	.703	.597	.515
1.409	.639	.504	.414	.487	4.002	3.868	3.778	3.851	.899	.755	.645	.559
1.398	.678	.538	.443	.520	4.098	3.958	3.863	3.940	.950	.804	.691	.602
1.388	.718	.572	.473	.553	4.197	4.051	3.951	4.032	.998	.853	.737	.645
1.377	.759	.608	.503	.588	4.299	4.148	4.044	4.128	1.046	.900	.782	.687
1.366	.801	.644	.535	.623	4.406	4.249	4.140	4.228	1.092	.946	.827	.730
1.355	.844	.682	.568	.661	4.516	4.354	4.240	4.333	1.138	.992	.872	.772
1.345	.888	.722	.603	.699	4.631	4.465	4.346	4.442	1.184	1.039	.917	.816
1.334	.934	.763	.639	.739	4.752	4.580	4.457	4.557	1.230	1.085	.963	.859
1.323	.982	.806	.677	.782	4.878	4.702	4.573	4.678	1.276	1.132	1.009	.904
1.312	1.032	.851	.718	.826	5.011	4.830	4.696	4.805	1.323	1.180	1.056	.950
1.302	1.084	.899	.760	.873	5.150	4.965	4.827	4.939	1.371	1.229	1.105	.997
1.291	1.139	.949	.806	.922	5.298	5.108	4.965	5.081	1.421	1.279	1.154	1.046
1.280	1.196	1.002	.854	.974	5.454	5.260	5.112	5.232	1.472	1.331	1.206	1.096
1.269	1.257	1.058	.906	1.030	5.620	5.421	5.269	5.393	1.524	1.384	1.259	1.148
1.258	1.321	1.119	.961	1.090	5.796	5.594	5.436	5.565	1.579	1.440	1.315	1.203
1.248	1.389	1.183	1.021	1.154	5.985	5.779	5.616	5.749	1.636	1.498	1.373	1.260
1.237	1.463	1.253	1.085	1.222	6.188	5.978	5.811	5.947	1.696	1.559	1.434	1.320
1.226	1.541	1.328	1.156	1.297	6.406	6.193	6.021	6.162	1.759	1.623	1.498	1.383
1.215	1.626	1.409	1.232	1.377	6.643	6.426	6.249	6.394	1.826	1.691	1.565	1.451
1.205	1.718	1.498	1.316	1.465	6.900	6.680	6.498	6.648	1.897	1.763	1.638	1.522
1.194	1.818	1.596	1.409	1.562	7.182	6.959	6.773	6.926	1.973	1.840	1.715	1.599
1.183	1.929	1.704	1.512	1.670	7.492	7.267	7.076	7.233	2.055	1.922	1.797	1.681
1.172	2.051	1.824	1.628	1.789	7.836	7.609	7.413	7.574	2.143	2.011	1.886	1.770
1.162	2.188	1.959	1.759	1.924	8.221	7.993	7.793	7.957	2.239	2.108	1.984	1.866
1.151	2.342	2.112	1.909	2.077	8.657	8.427	3.224	8.391	2.344	2.214	2.090	1.972
1.140	2.519	2.289	2.082	2.253	9.155	8.925	8.718	8.889	2.461	2.331	2.207	2.089
1.129	2.724	2.495	2.286	2.459	9.733	9.503	9.295	9.467	2.590	2.461	2.337	2.219
1.118	2.967	2.740	2.530	2.704	10.415	10.188	9.978	10.152	2.735	2.607	2.484	2.365
1.108	3.261	3.038	2.830	3.002	11.239	11.016	10.808	10.981	2.901	2.774	2.650	2.531
1.097	3.629	3.414	3.209	3.379	12.265	12.050	11.845	12.015	3.092	2.966	2.842	2.723
1.086	4.110	3.908	3.714	3.875	13.595	13.394	13.199	13.361	3.317	3.191	3.068	2.949
1.075	2.705	2.606	2.509	2.590	8.729	8.630	8.533	8.614	3.587	3.462	3.339	3.219
1.065	.533	.523	.513	.521	1.663	1.652	1.642	1.651	3.920	3.795	3.673	3.553
1.054	.211	.211	.211	.211	.422	.422	.422	.422	4.346	4.222	4.100	3.980
1.043	.219	.219	.219	.219	.437	.437	.437	.437	4.921	4.798	4.676	4.555
1.032	.228	.228	.228	.228	.455	.455	.455	.455	5.759	5.637	5.515	5.395
1.022	.239	.239	.239	.239	.477	.477	.477	.477	7.160	7.038	6.917	6.796

N= .6500 CUTOFF1=1.5385 CUTOFF2=1.0800 CUTOFF3=1.4793

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI	RHO= 0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.528	.155	.117	.094	.112	3.073	3.035	3.012	3.030	0	0	0	0
1.517	.223	.169	.135	.162	3.180	3.126	3.093	3.119	0	0	0	0
1.506	.278	.211	.170	.203	3.275	3.208	3.167	3.200	0	0	0	0
1.495	.326	.249	.201	.239	3.365	3.288	3.240	3.278	0	0	0	0
1.485	.371	.284	.230	.273	3.453	3.366	3.312	3.356	0	0	0	0
1.474	.414	.318	.258	.306	3.541	3.445	3.385	3.433	.260	.197	.158	.132
1.463	.455	.351	.285	.338	3.628	3.525	3.459	3.512	.437	.339	.275	.231
1.452	.495	.384	.313	.370	3.717	3.606	3.534	3.592	.553	.436	.357	.302
1.442	.535	.417	.340	.402	3.807	3.689	3.612	3.674	.643	.514	.426	.362
1.431	.575	.450	.368	.434	3.899	3.774	3.692	3.758	.719	.583	.486	.415
1.420	.615	.484	.397	.467	3.993	3.862	3.774	3.845	.786	.645	.542	.465
1.409	.656	.518	.426	.500	4.090	3.952	3.860	3.934	.847	.702	.595	.513
1.398	.697	.553	.456	.534	4.190	4.046	3.949	4.027	.903	.756	.645	.559
1.388	.739	.589	.487	.569	4.293	4.144	4.041	4.124	.956	.808	.694	.604
1.377	.781	.626	.519	.606	4.401	4.246	4.138	4.225	1.007	.859	.741	.648
1.366	.826	.665	.552	.643	4.512	4.352	4.239	4.330	1.057	.908	.788	.692
1.355	.871	.705	.588	.683	4.629	4.463	4.345	4.440	1.105	.957	.835	.737
1.345	.918	.747	.624	.724	4.750	4.579	4.457	4.556	1.154	1.005	.882	.781
1.334	.967	.790	.663	.766	4.878	4.701	4.574	4.677	1.201	1.053	.929	.826
1.323	1.017	.836	.704	.811	5.011	4.830	4.698	4.805	1.250	1.102	.977	.872
1.312	1.071	.885	.747	.859	5.152	4.966	4.829	4.940	1.298	1.151	1.025	.919
1.302	1.126	.936	.793	.909	5.301	5.110	4.968	5.084	1.348	1.201	1.075	.967
1.291	1.185	.990	.842	.962	5.458	5.263	5.115	5.236	1.398	1.253	1.126	1.016
1.280	1.247	1.048	.895	1.019	5.625	5.426	5.273	5.398	1.450	1.306	1.178	1.067
1.269	1.312	1.109	.951	1.080	5.803	5.600	5.442	5.571	1.504	1.360	1.232	1.120
1.258	1.382	1.175	1.012	1.145	5.994	5.786	5.623	5.756	1.560	1.417	1.289	1.175
1.248	1.457	1.246	1.078	1.215	6.198	5.987	5.819	5.956	1.618	1.476	1.347	1.233
1.237	1.537	1.323	1.150	1.291	6.418	6.204	6.031	6.172	1.678	1.537	1.409	1.293
1.226	1.624	1.406	1.228	1.374	6.657	6.439	6.261	6.407	1.742	1.602	1.473	1.357
1.215	1.718	1.497	1.315	1.464	6.917	6.696	6.513	6.663	1.810	1.670	1.542	1.425
1.205	1.821	1.598	1.410	1.564	7.201	6.978	6.790	6.944	1.881	1.743	1.615	1.497
1.194	1.935	1.709	1.517	1.675	7.515	7.289	7.097	7.255	1.958	1.820	1.692	1.574
1.183	2.060	1.833	1.637	1.798	7.863	7.635	7.439	7.601	2.040	1.903	1.775	1.656
1.172	2.201	1.973	1.773	1.938	8.252	8.024	7.825	7.989	2.129	1.993	1.865	1.745
1.162	2.361	2.132	1.930	2.097	8.694	8.465	8.263	8.430	2.225	2.090	1.962	1.842
1.151	2.544	2.316	2.112	2.281	9.199	8.972	8.767	8.936	2.331	2.197	2.069	1.949
1.140	2.757	2.532	2.327	2.497	9.787	9.562	9.357	9.526	2.447	2.314	2.186	2.066
1.129	3.011	2.791	2.587	2.756	10.483	10.263	10.059	10.228	2.577	2.444	2.317	2.196
1.118	3.321	3.110	2.910	3.076	11.329	11.117	10.918	11.083	2.723	2.591	2.464	2.342
1.108	3.714	3.517	3.328	3.485	12.390	12.193	12.004	12.161	2.889	2.758	2.631	2.509
1.097	1.719	1.649	1.581	1.637	5.588	5.518	5.450	5.507	3.080	2.950	2.823	2.701
1.086	.609	.594	.580	.592	1.914	1.899	1.885	1.897	3.305	3.176	3.049	2.927
1.075	.264	.264	.264	.264	.528	.528	.528	.528	3.575	3.447	3.321	3.198
1.065	.272	.272	.272	.272	.544	.544	.544	.544	3.908	3.780	3.655	3.532
1.054	.281	.281	.281	.281	.562	.562	.562	.562	4.335	4.208	4.082	3.959
1.043	.292	.292	.292	.292	.583	.583	.583	.583	4.910	4.783	4.658	4.535
1.032	.304	.304	.304	.304	.607	.607	.607	.607	5.749	5.623	5.498	5.374
1.022	.318	.318	.318	.318	.636	.636	.636	.636	7.150	7.024	6.900	6.776

N= .6500 CUTOFF1=1.5385 CUTOFF2=1.1000 CUTOFF3=1.4652

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI	RHO= 0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.528	.158	.119	.095	.114	3.128	3.089	3.066	3.085	0	0	0	0
1.517	.227	.172	.138	.165	3.238	3.183	3.149	3.176	0	0	0	0
1.506	.283	.215	.173	.207	3.336	3.268	3.226	3.259	0	0	0	0
1.495	.333	.254	.205	.244	3.429	3.350	3.301	3.340	0	0	0	0
1.485	.379	.290	.235	.279	3.520	3.431	3.375	3.420	0	0	0	0
1.474	.423	.325	.264	.313	3.610	3.512	3.451	3.500	0	0	0	0
1.463	.466	.360	.292	.346	3.701	3.595	3.527	3.582	.167	.126	.101	.084
1.452	.507	.394	.320	.379	3.793	3.679	3.606	3.665	.401	.309	.250	.210
1.442	.549	.428	.349	.412	3.886	3.765	3.686	3.750	.532	.417	.341	.288
1.431	.590	.462	.378	.446	3.982	3.854	3.770	3.838	.631	.503	.415	.352
1.420	.632	.497	.408	.480	4.080	3.946	3.856	3.928	.713	.576	.479	.409
1.409	.674	.533	.438	.515	4.182	4.040	3.946	4.022	.784	.641	.538	.461
1.398	.717	.570	.470	.551	4.286	4.139	4.039	4.120	.848	.702	.593	.511
1.388	.761	.608	.502	.588	4.395	4.241	4.136	4.221	.908	.759	.646	.559
1.377	.806	.647	.536	.626	4.508	4.348	4.238	4.327	.964	.813	.697	.606
1.366	.853	.688	.572	.666	4.625	4.460	4.344	4.438	1.017	.866	.747	.652
1.355	.901	.730	.609	.707	4.748	4.577	4.456	4.554	1.069	.917	.796	.698
1.345	.951	.775	.649	.751	4.876	4.701	4.574	4.677	1.120	.968	.845	.744
1.334	1.003	.822	.690	.797	5.011	4.830	4.699	4.805	1.171	1.019	.893	.791
1.323	1.057	.871	.734	.845	5.153	4.967	4.830	4.942	1.221	1.069	.943	.838
1.312	1.114	.923	.781	.896	5.303	5.112	4.970	5.086	1.271	1.120	.993	.886
1.302	1.174	.978	.831	.951	5.462	5.267	5.119	5.239	1.322	1.172	1.043	.934
1.291	1.237	1.037	.884	1.008	5.631	5.431	5.278	5.402	1.374	1.225	1.095	.985
1.280	1.304	1.100	.942	1.070	5.811	5.606	5.448	5.577	1.428	1.279	1.149	1.037
1.269	1.376	1.167	1.004	1.137	6.003	5.794	5.631	5.764	1.482	1.334	1.204	1.090
1.258	1.452	1.240	1.071	1.209	6.209	5.997	5.828	5.966	1.539	1.392	1.261	1.146
1.248	1.535	1.319	1.145	1.287	6.432	6.216	6.042	6.184	1.598	1.452	1.321	1.205
1.237	1.624	1.404	1.226	1.372	6.673	6.454	6.275	6.421	1.659	1.514	1.383	1.266
1.226	1.720	1.498	1.315	1.465	6.936	6.714	6.530	6.681	1.724	1.580	1.448	1.330
1.215	1.826	1.602	1.414	1.568	7.223	6.999	6.811	6.965	1.792	1.649	1.517	1.398
1.205	1.943	1.717	1.525	1.683	7.541	7.315	7.122	7.280	1.865	1.722	1.591	1.471
1.194	2.073	1.846	1.650	1.811	7.893	7.666	7.470	7.632	1.942	1.800	1.669	1.548
1.183	2.219	1.992	1.793	1.957	8.289	8.062	7.863	8.027	2.024	1.884	1.752	1.631
1.172	2.384	2.159	1.957	2.123	8.738	8.512	8.311	8.477	2.114	1.974	1.843	1.721
1.162	2.575	2.352	2.150	2.317	9.253	9.030	8.828	8.995	2.211	2.072	1.940	1.818
1.151	2.799	2.581	2.381	2.547	9.855	9.637	9.436	9.602	2.317	2.178	2.048	1.924
1.140	3.068	2.859	2.663	2.825	10.571	10.362	10.166	10.328	2.433	2.296	2.165	2.042
1.129	3.401	3.206	3.020	3.174	11.449	11.254	11.068	11.222	2.563	2.427	2.296	2.172
1.118	1.467	1.402	1.338	1.391	4.811	4.746	4.682	4.735	2.710	2.574	2.444	2.319
1.108	.673	.654	.635	.651	2.133	2.114	2.095	2.111	2.876	2.741	2.611	2.486
1.097	.312	.312	.312	.312	.624	.624	.624	.624	3.068	2.934	2.804	2.679
1.086	.320	.320	.320	.320	.641	.641	.641	.641	3.293	3.160	3.030	2.905
1.075	.330	.330	.330	.330	.660	.660	.660	.660	3.563	3.431	3.302	3.176
1.065	.340	.340	.340	.340	.680	.680	.680	.680	3.897	3.765	3.636	3.510
1.054	.352	.352	.352	.352	.703	.703	.703	.703	4.324	4.193	4.064	3.937
1.043	.364	.364	.364	.364	.729	.729	.729	.729	4.899	4.769	4.640	4.513
1.032	.379	.379	.379	.379	.759	.759	.759	.759	5.738	5.608	5.480	5.353
1.022	.398	.398	.398	.398	.795	.795	.795	.795	7.139	7.010	6.882	6.755

N= .6500 CUTOFF1=1.5385 CUTOFF2=1.1200 CUTOFF3=1.4514

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI	RHO= 0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.528	.161	.121	.097	.117	3.185	3.145	3.121	3.140	0	0	0	0
1.517	.232	.176	.141	.169	3.298	3.241	3.207	3.234	0	0	0	0
1.506	.290	.220	.177	.211	3.398	3.329	3.286	3.320	0	0	0	0
1.495	.341	.260	.209	.250	3.494	3.414	3.363	3.404	0	0	0	0
1.485	.388	.297	.240	.286	3.588	3.498	3.441	3.486	0	0	0	0
1.474	.433	.333	.270	.321	3.682	3.582	3.519	3.570	0	0	0	0
1.463	.477	.369	.300	.355	3.776	3.668	3.598	3.654	0	0	0	0
1.452	.521	.404	.329	.390	3.872	3.755	3.680	3.741	0	0	0	0
1.442	.564	.440	.359	.424	3.969	3.845	3.764	3.829	.361	.276	.223	.187
1.431	.607	.476	.389	.459	4.069	3.938	3.851	3.921	.511	.399	.325	.274
1.420	.651	.512	.420	.495	4.172	4.034	3.941	4.016	.619	.491	.405	.343
1.409	.695	.550	.452	.531	4.278	4.133	4.035	4.114	.707	.569	.473	.403
1.398	.740	.589	.486	.569	4.388	4.236	4.133	4.216	.783	.639	.535	.458
1.388	.786	.629	.520	.608	4.502	4.344	4.236	4.323	.851	.702	.593	.510
1.377	.834	.670	.556	.648	4.621	4.457	4.343	4.435	.914	.762	.648	.560
1.366	.883	.714	.594	.691	4.745	4.575	4.455	4.552	.972	.819	.701	.609
1.355	.934	.759	.634	.735	4.875	4.699	4.574	4.675	1.029	.874	.753	.657
1.345	.988	.807	.676	.782	5.011	4.830	4.699	4.805	1.083	.928	.804	.705
1.334	1.043	.857	.721	.831	5.154	4.968	4.832	4.942	1.136	.981	.855	.753
1.323	1.101	.910	.768	.883	5.306	5.115	4.973	5.088	1.189	1.034	.906	.802
1.312	1.163	.966	.819	.939	5.466	5.270	5.123	5.242	1.242	1.087	.958	.851
1.302	1.228	1.027	.874	.998	5.637	5.436	5.283	5.407	1.295	1.140	1.010	.901
1.291	1.296	1.091	.933	1.062	5.818	5.613	5.455	5.584	1.348	1.195	1.063	.952
1.280	1.370	1.160	.997	1.130	6.013	5.803	5.639	5.773	1.403	1.250	1.118	1.005
1.269	1.448	1.235	1.066	1.204	6.221	6.008	5.839	5.977	1.459	1.307	1.174	1.059
1.258	1.533	1.316	1.142	1.284	6.447	6.229	6.055	6.198	1.517	1.366	1.232	1.116
1.248	1.625	1.404	1.225	1.372	6.691	6.470	6.291	6.438	1.577	1.426	1.293	1.175
1.237	1.724	1.502	1.317	1.468	6.957	6.734	6.550	6.701	1.639	1.490	1.356	1.237
1.226	1.834	1.609	1.420	1.575	7.248	7.024	6.835	6.990	1.705	1.556	1.422	1.302
1.215	1.955	1.729	1.536	1.694	7.571	7.345	7.152	7.310	1.774	1.626	1.492	1.371
1.205	2.089	1.863	1.667	1.828	7.929	7.703	7.507	7.669	1.847	1.700	1.566	1.444
1.194	2.241	2.016	1.818	1.981	8.333	8.108	7.909	8.073	1.925	1.779	1.644	1.521
1.183	2.415	2.192	1.993	2.157	8.791	8.569	8.369	8.534	2.008	1.863	1.729	1.605
1.172	2.616	2.398	2.200	2.364	9.320	9.102	8.904	9.068	2.098	1.954	1.819	1.695
1.162	2.854	2.645	2.451	2.612	9.940	9.731	9.537	9.698	2.195	2.052	1.918	1.793
1.151	3.143	2.948	2.764	2.917	10.685	10.490	10.306	10.459	2.302	2.160	2.025	1.899
1.140	1.365	1.298	1.234	1.287	4.517	4.450	4.385	4.439	2.419	2.278	2.144	2.017
1.129	.728	.704	.681	.701	2.328	2.305	2.281	2.301	2.549	2.409	2.275	2.148
1.118	.356	.356	.356	.356	.712	.712	.712	.712	2.696	2.556	2.423	2.295
1.108	.365	.365	.365	.365	.730	.730	.730	.730	2.863	2.724	2.590	2.462
1.097	.374	.374	.374	.374	.749	.749	.749	.749	3.055	2.917	2.784	2.655
1.086	.385	.385	.385	.385	.769	.769	.769	.769	3.280	3.143	3.010	2.882
1.075	.396	.396	.396	.396	.792	.792	.792	.792	3.551	3.415	3.282	3.153
1.065	.408	.408	.408	.408	.816	.816	.816	.816	3.885	3.749	3.617	3.487
1.054	.422	.422	.422	.422	.844	.844	.844	.844	4.312	4.177	4.045	3.915
1.043	.437	.437	.437	.437	.875	.875	.875	.875	4.887	4.753	4.621	4.491
1.032	.455	.455	.455	.455	.911	.911	.911	.911	5.726	5.593	5.461	5.331
1.022	.477	.477	.477	.477	.954	.954	.954	.954	7.128	6.995	6.864	6.733

N= .6500 CUTOFF1=1.5385 CUTOFF2=1.3000 CUTOFF3=1.3378

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI	RHO= 0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.528	.212	.160	.128	.154	3.789	3.737	3.705	3.730	0	0	0	0
1.517	.309	.234	.188	.225	3.946	3.871	3.825	3.862	0	0	0	0
1.506	.390	.297	.239	.286	4.090	3.997	3.939	3.985	0	0	0	0
1.495	.464	.356	.288	.342	4.230	4.121	4.053	4.108	0	0	0	0
1.485	.535	.413	.335	.397	4.370	4.248	4.170	4.232	0	0	0	0
1.474	.606	.470	.383	.453	4.513	4.378	4.290	4.361	0	0	0	0
1.463	.676	.529	.432	.510	4.660	4.513	4.416	4.494	0	0	0	0
1.452	.749	.589	.483	.569	4.813	4.654	4.548	4.634	0	0	0	0
1.442	.823	.653	.538	.631	4.973	4.803	4.688	4.781	0	0	0	0
1.431	.901	.721	.596	.697	5.142	4.961	4.837	4.937	0	0	0	0
1.420	.983	.793	.660	.768	5.319	5.129	4.996	5.104	0	0	0	0
1.409	1.070	.871	.729	.844	5.508	5.310	5.167	5.283	0	0	0	0
1.398	1.163	.957	.805	.928	5.711	5.504	5.353	5.476	0	0	0	0
1.388	1.263	1.051	.891	1.021	5.928	5.716	5.556	5.686	0	0	0	0
1.377	1.373	1.155	.987	1.124	6.164	5.946	5.779	5.915	0	0	0	0
1.366	1.493	1.272	1.098	1.240	6.421	6.201	6.026	6.169	0	0	0	0
1.355	1.627	1.407	1.227	1.374	6.705	6.484	6.304	6.451	0	0	0	0
1.345	1.568	1.377	1.216	1.348	6.186	5.995	5.834	5.966	0	0	0	0
1.334	1.213	1.084	.973	1.065	4.574	4.445	4.334	4.426	.288	.218	.175	.146
1.323	.978	.893	.817	.880	3.516	3.431	3.354	3.418	.544	.421	.342	.288
1.312	.801	.752	.704	.743	2.725	2.675	2.628	2.667	.704	.556	.457	.387
1.302	.628	.615	.602	.613	1.962	1.949	1.936	1.947	.830	.667	.553	.471
1.291	.661	.661	.661	.661	1.322	1.322	1.322	1.322	.938	.765	.641	.549
1.280	.671	.671	.671	.671	1.343	1.343	1.343	1.343	1.034	.855	.722	.622
1.269	.682	.682	.682	.682	1.363	1.363	1.363	1.363	1.124	.941	.801	.694
1.258	.693	.693	.693	.693	1.385	1.385	1.385	1.385	1.209	1.024	.879	.766
1.248	.704	.704	.704	.704	1.408	1.408	1.408	1.408	1.293	1.105	.956	.837
1.237	.716	.716	.716	.716	1.431	1.431	1.431	1.431	1.375	1.187	1.034	.910
1.226	.728	.728	.728	.728	1.456	1.456	1.456	1.456	1.458	1.269	1.113	.985
1.215	.741	.741	.741	.741	1.481	1.481	1.481	1.481	1.541	1.353	1.194	1.063
1.205	.754	.754	.754	.754	1.508	1.508	1.508	1.508	1.628	1.439	1.279	1.144
1.194	.768	.768	.768	.768	1.536	1.536	1.536	1.536	1.717	1.529	1.367	1.229
1.183	.783	.783	.783	.783	1.565	1.565	1.565	1.565	1.811	1.624	1.460	1.319
1.172	.798	.798	.798	.798	1.596	1.596	1.596	1.596	1.910	1.724	1.559	1.415
1.162	.814	.814	.814	.814	1.629	1.629	1.629	1.629	2.015	1.830	1.665	1.518
1.151	.832	.832	.832	.832	1.663	1.663	1.663	1.663	2.129	1.945	1.779	1.630
1.140	.850	.850	.850	.850	1.700	1.700	1.700	1.700	2.254	2.071	1.903	1.752
1.129	.869	.869	.869	.869	1.738	1.738	1.738	1.738	2.390	2.209	2.041	1.888
1.118	.890	.890	.890	.890	1.780	1.780	1.780	1.780	2.543	2.362	2.194	2.039
1.108	.912	.912	.912	.912	1.824	1.824	1.824	1.824	2.715	2.535	2.367	2.210
1.097	.936	.936	.936	.936	1.871	1.871	1.871	1.871	2.912	2.733	2.565	2.407
1.086	.961	.961	.961	.961	1.923	1.923	1.923	1.923	3.142	2.965	2.796	2.636
1.075	.989	.989	.989	.989	1.979	1.979	1.979	1.979	3.417	3.241	3.072	2.911
1.065	1.020	1.020	1.020	1.020	2.041	2.041	2.041	2.041	3.754	3.580	3.411	3.248
1.054	1.055	1.055	1.055	1.055	2.109	2.109	2.109	2.109	4.185	4.011	3.842	3.679
1.043	1.093	1.093	1.093	1.093	2.187	2.187	2.187	2.187	4.764	4.591	4.423	4.258
1.032	1.138	1.138	1.138	1.138	2.277	2.277	2.277	2.277	5.606	5.435	5.266	5.101
1.022	1.193	1.193	1.193	1.193	2.385	2.385	2.385	2.385	7.011	6.840	6.672	6.505

N= .7000 CUTOFF1=1.4286 CUTOFF2=1.0200 CUTOFF3=1.4144

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI	RHO= 0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.420	.181	.136	.109	.131	3.360	3.315	3.288	3.310	0	0	0	0
1.411	.259	.196	.158	.189	3.478	3.415	3.376	3.407	.215	.163	.130	.109
1.403	.322	.245	.197	.235	3.581	3.504	3.456	3.494	.415	.319	.258	.217
1.394	.376	.288	.232	.277	3.677	3.589	3.533	3.578	.539	.420	.343	.289
1.386	.426	.327	.265	.315	3.771	3.672	3.609	3.659	.634	.502	.413	.349
1.377	.474	.365	.296	.352	3.863	3.755	3.686	3.741	.715	.573	.474	.403
1.369	.519	.402	.327	.387	3.955	3.838	3.763	3.823	.785	.636	.531	.453
1.360	.563	.438	.357	.422	4.046	3.922	3.841	3.906	.849	.695	.583	.500
1.351	.606	.474	.387	.457	4.139	4.007	3.921	3.991	.908	.750	.634	.546
1.343	.648	.510	.417	.492	4.234	4.095	4.003	4.077	.963	.803	.682	.590
1.334	.691	.545	.448	.526	4.330	4.184	4.087	4.166	1.015	.854	.730	.633
1.326	.733	.582	.479	.562	4.428	4.277	4.174	4.257	1.066	.903	.776	.676
1.317	.776	.618	.511	.598	4.529	4.371	4.264	4.351	1.116	.952	.822	.719
1.309	.819	.656	.543	.634	4.632	4.469	4.357	4.448	1.164	1.000	.868	.762
1.300	.863	.694	.576	.672	4.739	4.571	4.453	4.548	1.212	1.048	.914	.806
1.291	.907	.733	.611	.710	4.850	4.676	4.553	4.653	1.260	1.096	.960	.849
1.283	.953	.774	.646	.750	4.964	4.785	4.658	4.761	1.308	1.144	1.007	.894
1.274	.999	.816	.683	.791	5.083	4.899	4.767	4.874	1.356	1.192	1.054	.939
1.266	1.047	.859	.722	.833	5.206	5.018	4.881	4.992	1.405	1.242	1.102	.985
1.257	1.097	.904	.762	.877	5.335	5.143	5.001	5.116	1.455	1.292	1.152	1.033
1.249	1.148	.951	.804	.923	5.470	5.273	5.127	5.246	1.506	1.343	1.202	1.082
1.240	1.201	1.000	.848	.971	5.612	5.410	5.259	5.382	1.558	1.396	1.254	1.132
1.231	1.256	1.051	.895	1.022	5.760	5.555	5.399	5.526	1.611	1.450	1.308	1.185
1.223	1.314	1.105	.944	1.075	5.917	5.707	5.547	5.678	1.667	1.506	1.364	1.239
1.214	1.375	1.162	.996	1.131	6.082	5.869	5.703	5.838	1.724	1.565	1.422	1.296
1.206	1.438	1.222	1.051	1.190	6.257	6.040	5.870	6.009	1.785	1.626	1.483	1.355
1.197	1.506	1.285	1.110	1.253	6.443	6.222	6.048	6.190	1.847	1.689	1.546	1.418
1.189	1.577	1.353	1.174	1.320	6.641	6.417	6.238	6.384	1.914	1.756	1.613	1.483
1.180	1.653	1.426	1.241	1.392	6.853	6.626	6.442	6.593	1.983	1.827	1.683	1.553
1.171	1.734	1.503	1.314	1.469	7.081	6.851	6.662	6.816	2.057	1.902	1.758	1.626
1.163	1.821	1.587	1.394	1.552	7.327	7.093	6.900	7.058	2.136	1.981	1.837	1.705
1.154	1.915	1.678	1.480	1.642	7.593	7.357	7.158	7.321	2.220	2.066	1.922	1.789
1.146	2.017	1.777	1.574	1.741	7.884	7.644	7.441	7.608	2.311	2.158	2.014	1.880
1.137	2.128	1.885	1.678	1.848	8.201	7.959	7.752	7.922	2.409	2.257	2.113	1.978
1.129	2.250	2.005	1.793	1.967	8.552	8.307	8.095	8.270	2.516	2.364	2.220	2.085
1.120	2.385	2.138	1.922	2.100	8.942	8.695	8.478	8.656	2.633	2.482	2.338	2.202
1.111	2.537	2.287	2.067	2.248	9.379	9.129	8.909	9.091	2.762	2.612	2.468	2.332
1.103	2.708	2.456	2.232	2.417	9.873	9.622	9.398	9.583	2.906	2.757	2.613	2.476
1.094	2.903	2.650	2.422	2.611	10.441	10.188	9.959	10.148	3.068	2.920	2.776	2.639
1.086	3.130	2.876	2.644	2.836	11.100	10.846	10.614	10.806	3.253	3.105	2.962	2.824
1.077	3.399	3.145	2.909	3.104	11.881	11.627	11.392	11.586	3.467	3.319	3.176	3.038
1.069	3.724	3.470	3.232	3.429	12.826	12.573	12.335	12.532	3.717	3.571	3.428	3.289
1.060	4.129	3.877	3.638	3.836	14.006	13.754	13.515	13.713	4.019	3.873	3.730	3.591
1.051	4.655	4.407	4.169	4.367	15.536	15.288	15.050	15.247	4.391	4.246	4.103	3.963
1.043	5.381	5.140	4.907	5.101	17.641	17.401	17.168	17.361	4.867	4.723	4.580	4.440
1.034	6.480	6.256	6.036	6.219	20.818	20.594	20.374	20.557	5.510	5.366	5.224	5.084
1.026	2.547	2.493	2.439	2.484	7.968	7.914	7.861	7.905	6.448	6.305	6.163	6.023
1.017	.081	.081	.081	.081	.162	.162	.162	.162	8.016	7.874	7.732	7.591

N= .7000 CUTOFF1=1.4286 CUTOFF2=1.0400 CUTOFF3=1.4006

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI	RHO= 0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.420	.185	.140	.112	.134	3.428	3.383	3.355	3.377	0	0	0	0
1.411	.265	.201	.161	.193	3.550	3.485	3.446	3.477	0	0	0	0
1.403	.329	.251	.202	.241	3.656	3.577	3.529	3.568	0	0	0	0
1.394	.386	.295	.238	.284	3.756	3.665	3.609	3.654	.317	.241	.194	.162
1.386	.437	.336	.272	.323	3.853	3.752	3.688	3.739	.479	.371	.301	.253
1.377	.486	.375	.304	.361	3.949	3.838	3.767	3.824	.593	.465	.381	.322
1.369	.533	.413	.336	.398	4.044	3.925	3.847	3.909	.684	.544	.449	.381
1.360	.579	.451	.367	.434	4.140	4.012	3.929	3.996	.763	.614	.510	.435
1.351	.623	.488	.399	.470	4.238	4.102	4.013	4.085	.832	.678	.567	.485
1.343	.668	.525	.430	.507	4.336	4.194	4.099	4.175	.896	.737	.621	.533
1.334	.712	.563	.462	.543	4.437	4.288	4.187	4.268	.956	.793	.672	.580
1.326	.757	.601	.495	.580	4.540	4.384	4.279	4.364	1.012	.847	.722	.626
1.317	.801	.639	.528	.618	4.646	4.484	4.373	4.463	1.066	.900	.771	.671
1.309	.847	.679	.563	.657	4.756	4.588	4.471	4.565	1.118	.951	.820	.716
1.300	.893	.719	.598	.696	4.868	4.695	4.573	4.672	1.170	1.002	.868	.761
1.291	.940	.761	.635	.737	4.985	4.807	4.680	4.782	1.220	1.052	.916	.806
1.283	.988	.804	.672	.779	5.107	4.923	4.791	4.898	1.271	1.103	.965	.852
1.274	1.038	.849	.712	.823	5.233	5.044	4.907	5.018	1.321	1.153	1.013	.898
1.266	1.089	.895	.753	.868	5.365	5.171	5.029	5.144	1.372	1.204	1.063	.946
1.257	1.142	.944	.797	.916	5.503	5.304	5.157	5.277	1.424	1.256	1.114	.994
1.249	1.197	.994	.842	.966	5.647	5.444	5.292	5.416	1.476	1.309	1.166	1.044
1.240	1.254	1.047	.890	1.018	5.799	5.592	5.435	5.562	1.529	1.363	1.219	1.096
1.231	1.314	1.103	.941	1.073	5.959	5.747	5.586	5.717	1.584	1.418	1.274	1.149
1.223	1.377	1.162	.995	1.131	6.128	5.913	5.746	5.882	1.641	1.476	1.330	1.204
1.214	1.443	1.224	1.052	1.192	6.307	6.088	5.916	6.056	1.700	1.535	1.389	1.261
1.206	1.513	1.290	1.114	1.258	6.498	6.275	6.098	6.242	1.761	1.597	1.451	1.321
1.197	1.587	1.360	1.179	1.327	6.701	6.474	6.293	6.441	1.825	1.662	1.515	1.384
1.189	1.666	1.436	1.250	1.402	6.919	6.689	6.503	6.655	1.891	1.729	1.582	1.450
1.180	1.750	1.517	1.326	1.483	7.153	6.920	6.729	6.885	1.962	1.801	1.653	1.520
1.171	1.841	1.605	1.409	1.570	7.405	7.169	6.974	7.134	2.037	1.876	1.729	1.595
1.163	1.939	1.700	1.500	1.664	7.680	7.441	7.240	7.405	2.116	1.956	1.809	1.674
1.154	2.046	1.804	1.599	1.768	7.979	7.737	7.532	7.701	2.201	2.042	1.894	1.759
1.146	2.162	1.918	1.709	1.881	8.307	8.063	7.854	8.026	2.292	2.134	1.986	1.850
1.137	2.291	2.045	1.832	2.007	8.670	8.424	8.211	8.386	2.391	2.234	2.086	1.948
1.129	2.433	2.186	1.969	2.148	9.074	8.827	8.609	8.788	2.498	2.342	2.194	2.056
1.120	2.594	2.345	2.124	2.307	9.528	9.280	9.059	9.241	2.616	2.460	2.312	2.173
1.111	2.775	2.527	2.303	2.487	10.044	9.795	9.572	9.756	2.745	2.590	2.443	2.303
1.103	2.984	2.736	2.509	2.697	10.638	10.390	10.163	10.351	2.890	2.736	2.588	2.448
1.094	3.229	2.982	2.754	2.942	11.333	11.086	10.858	11.047	3.052	2.899	2.751	2.611
1.086	3.521	3.276	3.048	3.237	12.161	11.917	11.689	11.878	3.237	3.085	2.937	2.796
1.077	3.878	3.638	3.412	3.600	13.174	12.935	12.708	12.896	3.451	3.299	3.152	3.010
1.069	4.331	4.100	3.879	4.062	14.454	14.223	14.002	14.186	3.702	3.551	3.404	3.262
1.060	4.936	4.719	4.509	4.684	16.153	15.936	15.727	15.901	4.004	3.854	3.707	3.564
1.051	3.949	3.822	3.696	3.800	12.630	12.502	12.377	12.481	4.376	4.227	4.080	3.937
1.043	.424	.418	.411	.417	1.313	1.306	1.299	1.305	4.853	4.704	4.558	4.414
1.034	.151	.151	.151	.151	.301	.301	.301	.301	5.496	5.348	5.202	5.057
1.026	.156	.156	.156	.156	.312	.312	.312	.312	6.435	6.287	6.141	5.996
1.017	.162	.162	.162	.162	.325	.325	.325	.325	8.003	7.856	7.710	7.565

N= .7000 CUTOFF1=1.4286 CUTOFF2=1.0600 CUTOFF3=1.3870

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.420	.190	.143	.115	.137	3.499	3.452	3.424	3.447	0	0	0	0
1.411	.272	.206	.165	.198	3.624	3.558	3.518	3.550	0	0	0	0
1.403	.338	.257	.207	.247	3.735	3.654	3.604	3.644	0	0	0	0
1.394	.396	.303	.244	.291	3.838	3.745	3.687	3.734	0	0	0	0
1.386	.449	.345	.279	.332	3.939	3.835	3.769	3.822	.147	.110	.088	.074
1.377	.500	.386	.313	.372	4.039	3.925	3.852	3.911	.404	.309	.250	.210
1.369	.549	.426	.346	.410	4.139	4.016	3.936	4.000	.544	.423	.345	.291
1.360	.596	.465	.379	.448	4.239	4.107	4.022	4.091	.650	.513	.422	.357
1.351	.643	.504	.412	.486	4.341	4.201	4.109	4.183	.738	.590	.489	.415
1.343	.689	.543	.445	.524	4.444	4.297	4.200	4.279	.815	.660	.550	.469
1.334	.736	.582	.479	.562	4.550	4.396	4.293	4.376	.884	.723	.607	.521
1.326	.783	.622	.513	.601	4.659	4.498	4.389	4.477	.948	.784	.662	.570
1.317	.830	.663	.548	.641	4.771	4.604	4.489	4.582	1.008	.841	.715	.618
1.309	.878	.705	.585	.682	4.886	4.713	4.593	4.690	1.066	.897	.767	.666
1.300	.927	.748	.622	.724	5.006	4.827	4.702	4.803	1.121	.951	.817	.713
1.291	.977	.793	.661	.768	5.130	4.946	4.815	4.921	1.176	1.004	.868	.760
1.283	1.028	.839	.702	.813	5.259	5.070	4.933	5.044	1.229	1.057	.919	.807
1.274	1.082	.887	.745	.860	5.394	5.199	5.058	5.173	1.283	1.110	.970	.855
1.266	1.137	.937	.790	.909	5.535	5.335	5.188	5.308	1.336	1.163	1.021	.904
1.257	1.194	.989	.837	.960	5.683	5.478	5.326	5.450	1.389	1.217	1.073	.954
1.249	1.253	1.044	.886	1.014	5.839	5.629	5.472	5.600	1.443	1.272	1.126	1.005
1.240	1.315	1.102	.939	1.071	6.002	5.789	5.626	5.759	1.499	1.327	1.181	1.057
1.231	1.380	1.163	.995	1.132	6.176	5.958	5.790	5.927	1.555	1.384	1.237	1.111
1.223	1.449	1.227	1.054	1.196	6.359	6.138	5.965	6.106	1.613	1.443	1.295	1.167
1.214	1.522	1.296	1.118	1.264	6.555	6.329	6.151	6.297	1.673	1.504	1.355	1.225
1.206	1.599	1.370	1.187	1.336	6.764	6.535	6.352	6.501	1.735	1.566	1.417	1.286
1.197	1.681	1.449	1.261	1.415	6.987	6.755	6.567	6.721	1.800	1.632	1.482	1.349
1.189	1.770	1.534	1.341	1.499	7.228	6.993	6.800	6.958	1.868	1.701	1.550	1.416
1.180	1.865	1.626	1.429	1.591	7.489	7.250	7.053	7.215	1.939	1.773	1.622	1.487
1.171	1.967	1.727	1.525	1.690	7.772	7.531	7.329	7.495	2.015	1.849	1.698	1.562
1.163	2.079	1.837	1.630	1.800	8.081	7.838	7.632	7.801	2.095	1.930	1.779	1.641
1.154	2.202	1.958	1.747	1.920	8.421	8.177	7.966	8.139	2.181	2.017	1.865	1.726
1.146	2.338	2.093	1.879	2.055	8.798	8.552	8.338	8.515	2.272	2.109	1.958	1.818
1.137	2.490	2.244	2.027	2.206	9.219	8.973	8.756	8.935	2.372	2.209	2.058	1.917
1.129	2.661	2.415	2.195	2.377	9.694	9.449	9.229	9.410	2.480	2.318	2.166	2.025
1.120	2.857	2.612	2.390	2.574	10.237	9.992	9.771	9.954	2.598	2.437	2.285	2.143
1.111	3.083	2.841	2.619	2.803	10.865	10.623	10.401	10.585	2.728	2.568	2.416	2.273
1.103	3.350	3.114	2.893	3.076	11.605	11.368	11.147	11.330	2.873	2.714	2.562	2.418
1.094	3.674	3.445	3.228	3.408	12.496	12.267	12.051	12.230	3.036	2.877	2.726	2.581
1.086	4.078	3.861	3.654	3.826	13.604	13.387	13.179	13.352	3.221	3.064	2.912	2.767
1.077	4.607	4.411	4.221	4.379	15.039	14.843	14.652	14.811	3.435	3.279	3.127	2.981
1.069	.818	.794	.771	.790	2.601	2.577	2.553	2.573	3.687	3.531	3.380	3.233
1.051	.213	.213	.213	.213	.425	.425	.425	.425	4.362	4.207	4.056	3.909
1.043	.219	.219	.219	.219	.438	.438	.438	.438	4.839	4.685	4.534	4.386
1.034	.226	.226	.226	.226	.452	.452	.452	.452	5.482	5.329	5.178	5.030
1.026	.234	.234	.234	.234	.468	.468	.468	.468	6.421	6.269	6.118	5.969
1.017	.244	.244	.244	.244	.487	.487	.487	.487	7.989	7.838	7.688	7.538

N= .7000 CUTOFF1=1.4286 CUTOFF2=1.0800 CUTOFF3=1.3736

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI	RHO= 0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.420	.195	.147	.118	.141	3.572	3.524	3.495	3.519	0	0	0	0
1.411	.279	.212	.170	.203	3.702	3.634	3.593	3.626	0	0	0	0
1.403	.348	.264	.213	.254	3.816	3.733	3.682	3.723	0	0	0	0
1.394	.408	.312	.252	.300	3.924	3.828	3.768	3.817	0	0	0	0
1.386	.463	.356	.288	.342	4.029	3.922	3.854	3.909	0	0	0	0
1.377	.516	.398	.323	.383	4.133	4.016	3.941	4.001	0	0	0	0
1.369	.566	.439	.358	.423	4.238	4.111	4.029	4.095	.301	.228	.183	.153
1.360	.616	.480	.392	.463	4.343	4.207	4.119	4.190	.485	.374	.304	.255
1.351	.665	.521	.426	.503	4.450	4.306	4.211	4.287	.610	.478	.391	.330
1.343	.714	.562	.461	.543	4.559	4.407	4.306	4.388	.710	.564	.465	.395
1.334	.763	.604	.497	.583	4.670	4.512	4.405	4.491	.795	.640	.532	.453
1.326	.812	.646	.533	.625	4.785	4.620	4.506	4.598	.870	.709	.593	.508
1.317	.862	.690	.571	.667	4.904	4.731	4.612	4.709	.940	.773	.651	.560
1.309	.913	.735	.610	.711	5.026	4.848	4.723	4.824	1.004	.835	.707	.611
1.300	.965	.781	.650	.756	5.153	4.969	4.838	4.944	1.066	.893	.762	.661
1.291	1.019	.828	.692	.803	5.286	5.095	4.959	5.070	1.125	.951	.816	.710
1.283	1.074	.878	.736	.851	5.424	5.228	5.086	5.201	1.182	1.007	.869	.760
1.274	1.131	.930	.783	.902	5.568	5.367	5.220	5.339	1.239	1.063	.922	.809
1.266	1.190	.984	.831	.956	5.720	5.514	5.361	5.485	1.295	1.119	.976	.860
1.257	1.252	1.041	.883	1.012	5.879	5.668	5.510	5.638	1.351	1.175	1.030	.911
1.249	1.317	1.101	.938	1.071	6.047	5.832	5.668	5.801	1.408	1.232	1.085	.963
1.240	1.385	1.165	.996	1.134	6.225	6.005	5.836	5.974	1.465	1.289	1.140	1.016
1.231	1.457	1.233	1.058	1.200	6.414	6.190	6.015	6.157	1.523	1.348	1.198	1.071
1.223	1.533	1.305	1.125	1.272	6.615	6.387	6.207	6.354	1.583	1.408	1.257	1.128
1.214	1.613	1.382	1.197	1.348	6.830	6.598	6.413	6.564	1.644	1.470	1.318	1.187
1.206	1.700	1.465	1.275	1.430	7.060	6.826	6.636	6.791	1.708	1.534	1.381	1.249
1.197	1.792	1.555	1.360	1.519	7.309	7.071	6.876	7.036	1.774	1.601	1.447	1.313
1.189	1.892	1.652	1.453	1.616	7.578	7.338	7.138	7.302	1.843	1.670	1.516	1.381
1.180	2.001	1.759	1.555	1.722	7.871	7.629	7.425	7.592	1.915	1.744	1.589	1.452
1.171	2.119	1.876	1.668	1.839	8.192	7.949	7.741	7.912	1.992	1.821	1.666	1.527
1.163	2.250	2.005	1.794	1.968	8.546	8.302	8.090	8.264	2.073	1.903	1.747	1.607
1.154	2.395	2.151	1.936	2.113	8.940	8.695	8.481	8.658	2.159	1.990	1.834	1.693
1.146	2.558	2.314	2.098	2.276	9.381	9.138	8.921	9.100	2.252	2.083	1.928	1.785
1.137	2.742	2.501	2.284	2.464	9.882	9.641	9.423	9.603	2.351	2.184	2.028	1.885
1.129	2.955	2.718	2.501	2.681	10.457	10.220	10.003	10.183	2.460	2.293	2.137	1.993
1.120	3.205	2.974	2.760	2.938	11.129	10.899	10.684	10.862	2.578	2.413	2.257	2.111
1.111	3.504	3.284	3.076	3.248	11.929	11.709	11.502	11.674	2.709	2.544	2.388	2.242
1.103	3.874	3.670	3.475	3.637	12.911	12.707	12.512	12.674	2.855	2.691	2.535	2.387
1.094	1.235	1.185	1.136	1.177	4.018	3.967	3.918	3.959	3.018	2.855	2.699	2.551
1.086	.584	.570	.555	.567	1.841	1.827	1.812	1.824	3.204	3.042	2.886	2.737
1.077	.263	.263	.263	.263	.525	.525	.525	.525	3.419	3.257	3.101	2.952
1.069	.269	.269	.269	.269	.538	.538	.538	.538	3.671	3.510	3.354	3.204
1.060	.276	.276	.276	.276	.552	.552	.552	.552	3.973	3.813	3.657	3.506
1.051	.283	.283	.283	.283	.567	.567	.567	.567	4.346	4.187	4.031	3.880
1.043	.292	.292	.292	.292	.584	.584	.584	.584	4.824	4.665	4.510	4.358
1.034	.301	.301	.301	.301	.602	.602	.602	.602	5.467	5.310	5.154	5.002
1.026	.312	.312	.312	.312	.624	.624	.624	.624	6.406	6.249	6.094	5.941
1.017	.325	.325	.325	.325	.650	.650	.650	.650	7.975	7.819	7.664	7.510

N= .7000 CUTOFF1=1.4286 CUTOFF2=1.1000 CUTOFF3=1.3605

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI	RHO= 0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.420	.200	.151	.121	.145	3.649	3.599	3.569	3.593	0	0	0	0
1.411	.288	.218	.175	.209	3.783	3.713	3.670	3.705	0	0	0	0
1.403	.358	.273	.220	.262	3.902	3.816	3.763	3.806	0	0	0	0
1.394	.421	.322	.260	.309	4.014	3.915	3.853	3.903	0	0	0	0
1.386	.478	.368	.298	.354	4.124	4.013	3.943	4.000	0	0	0	0
1.377	.533	.412	.334	.397	4.233	4.112	4.034	4.096	0	0	0	0
1.369	.586	.455	.370	.439	4.342	4.211	4.127	4.195	0	0	0	0
1.360	.638	.498	.407	.480	4.453	4.313	4.221	4.295	.102	.077	.062	.051
1.351	.690	.541	.443	.522	4.565	4.417	4.318	4.397	.411	.315	.254	.213
1.343	.741	.585	.480	.564	4.680	4.524	4.419	4.503	.564	.439	.358	.301
1.334	.793	.629	.518	.607	4.798	4.634	4.523	4.613	.678	.536	.440	.372
1.326	.845	.674	.557	.651	4.920	4.749	4.631	4.726	.773	.619	.512	.436
1.317	.899	.720	.597	.697	5.046	4.868	4.744	4.844	.856	.694	.579	.494
1.309	.953	.768	.639	.744	5.176	4.992	4.862	4.967	.931	.763	.641	.550
1.300	1.009	.818	.682	.792	5.312	5.121	4.986	5.095	1.000	.828	.700	.603
1.291	1.066	.870	.728	.843	5.454	5.257	5.115	5.230	1.066	.891	.758	.656
1.283	1.126	.924	.776	.896	5.602	5.399	5.252	5.372	1.129	.951	.814	.708
1.274	1.188	.980	.827	.951	5.757	5.549	5.396	5.521	1.190	1.011	.871	.760
1.266	1.252	1.040	.881	1.010	5.921	5.708	5.549	5.678	1.250	1.070	.926	.812
1.257	1.320	1.102	.938	1.072	6.094	5.876	5.711	5.845	1.309	1.129	.983	.865
1.249	1.391	1.169	.999	1.137	6.277	6.054	5.884	6.023	1.368	1.188	1.040	.918
1.240	1.466	1.240	1.064	1.207	6.471	6.244	6.068	6.212	1.428	1.247	1.097	.973
1.231	1.546	1.316	1.134	1.282	6.678	6.448	6.266	6.414	1.488	1.308	1.156	1.029
1.223	1.631	1.397	1.210	1.363	6.900	6.666	6.479	6.632	1.550	1.370	1.217	1.087
1.214	1.721	1.485	1.293	1.450	7.138	6.901	6.709	6.866	1.613	1.433	1.279	1.147
1.206	1.819	1.580	1.383	1.544	7.395	7.156	6.959	7.120	1.678	1.499	1.344	1.210
1.197	1.925	1.683	1.482	1.647	7.674	7.433	7.232	7.397	1.746	1.567	1.411	1.275
1.189	2.040	1.797	1.592	1.760	7.979	7.736	7.531	7.700	1.816	1.638	1.481	1.343
1.180	2.166	1.923	1.714	1.886	8.314	8.071	7.862	8.034	1.889	1.712	1.554	1.415
1.171	2.306	2.063	1.852	2.026	8.685	8.442	8.230	8.404	1.967	1.791	1.632	1.491
1.163	2.463	2.221	2.008	2.184	9.098	8.857	8.643	8.819	2.049	1.873	1.714	1.572
1.154	2.639	2.401	2.187	2.364	9.565	9.327	9.113	9.289	2.136	1.962	1.802	1.658
1.146	2.842	2.609	2.397	2.572	10.097	9.865	9.652	9.828	2.229	2.056	1.896	1.751
1.137	3.078	2.854	2.645	2.818	10.715	10.490	10.282	10.455	2.330	2.157	1.997	1.851
1.129	3.360	3.148	2.949	3.114	11.445	11.234	11.034	11.200	2.439	2.267	2.107	1.959
1.120	1.679	1.592	1.509	1.578	5.586	5.499	5.416	5.485	2.558	2.388	2.227	2.078
1.111	.847	.814	.783	.809	2.739	2.707	2.675	2.701	2.690	2.520	2.359	2.209
1.103	.486	.477	.468	.476	1.512	1.503	1.494	1.501	2.836	2.667	2.506	2.355
1.094	.314	.314	.314	.314	.628	.628	.628	.628	3.000	2.831	2.671	2.519
1.086	.321	.321	.321	.321	.642	.642	.642	.642	3.186	3.019	2.858	2.706
1.077	.328	.328	.328	.328	.656	.656	.656	.656	3.401	3.235	3.074	2.921
1.069	.336	.336	.336	.336	.672	.672	.672	.672	3.654	3.488	3.328	3.173
1.060	.345	.345	.345	.345	.690	.690	.690	.690	3.957	3.792	3.631	3.476
1.051	.354	.354	.354	.354	.709	.709	.709	.709	4.330	4.166	4.006	3.850
1.043	.365	.365	.365	.365	.730	.730	.730	.730	4.808	4.644	4.484	4.328
1.034	.377	.377	.377	.377	.753	.753	.753	.753	5.452	5.289	5.129	4.972
1.026	.390	.390	.390	.390	.780	.780	.780	.780	6.391	6.230	6.070	5.912
1.017	.406	.406	.406	.406	.812	.812	.812	.812	7.960	7.800	7.640	7.482

N= .7000 CUTOFF1=1.4286 CUTOFF2=1.1200 CUTOFF3=1.3477

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI	RHO= 0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.420	.207	.156	.125	.150	3.728	3.677	3.646	3.671	0	0	0	0
1.411	.297	.225	.181	.216	3.867	3.795	3.751	3.786	0	0	0	0
1.403	.370	.282	.227	.271	3.991	3.903	3.848	3.892	0	0	0	0
1.394	.435	.333	.269	.320	4.109	4.007	3.943	3.994	0	0	0	0
1.386	.495	.381	.309	.367	4.224	4.109	4.037	4.095	0	0	0	0
1.377	.553	.427	.347	.412	4.338	4.212	4.132	4.197	0	0	0	0
1.369	.608	.473	.385	.456	4.453	4.317	4.229	4.300	0	0	0	0
1.360	.663	.518	.423	.500	4.569	4.424	4.329	4.406	0	0	0	0
1.351	.718	.564	.462	.544	4.688	4.534	4.432	4.514	0	0	0	0
1.343	.772	.610	.501	.589	4.809	4.648	4.539	4.626	.311	.236	.190	.159
1.334	.827	.657	.542	.635	4.935	4.765	4.649	4.743	.509	.393	.319	.268
1.326	.883	.706	.584	.682	5.064	4.887	4.765	4.863	.642	.504	.413	.348
1.317	.940	.756	.627	.731	5.198	5.014	4.885	4.989	.749	.596	.492	.417
1.309	.999	.807	.672	.782	5.338	5.147	5.012	5.121	.840	.678	.563	.480
1.300	1.059	.861	.720	.834	5.484	5.286	5.145	5.259	.922	.752	.630	.539
1.291	1.121	.918	.770	.890	5.636	5.432	5.285	5.404	.996	.822	.693	.596
1.283	1.186	.977	.823	.948	5.796	5.587	5.433	5.558	1.066	.888	.754	.652
1.274	1.254	1.039	.879	1.009	5.964	5.750	5.590	5.720	1.133	.952	.814	.706
1.266	1.324	1.105	.939	1.074	6.142	5.922	5.756	5.891	1.198	1.015	.873	.761
1.257	1.399	1.175	1.003	1.143	6.331	6.106	5.934	6.074	1.262	1.078	.932	.816
1.249	1.478	1.249	1.072	1.216	6.531	6.302	6.125	6.270	1.324	1.140	.991	.871
1.240	1.562	1.329	1.146	1.296	6.745	6.513	6.329	6.479	1.387	1.202	1.051	.927
1.231	1.651	1.415	1.227	1.381	6.975	6.739	6.550	6.704	1.450	1.265	1.111	.985
1.223	1.747	1.509	1.315	1.474	7.222	6.983	6.789	6.948	1.514	1.329	1.174	1.044
1.214	1.851	1.610	1.412	1.574	7.489	7.248	7.050	7.212	1.579	1.394	1.237	1.105
1.206	1.964	1.722	1.519	1.685	7.780	7.538	7.335	7.501	1.646	1.462	1.303	1.169
1.197	2.087	1.844	1.638	1.808	8.098	7.856	7.649	7.819	1.715	1.531	1.372	1.235
1.189	2.223	1.981	1.772	1.944	8.449	8.207	7.998	8.170	1.787	1.604	1.443	1.304
1.180	2.375	2.135	1.924	2.098	8.840	8.600	8.389	8.563	1.862	1.679	1.518	1.377
1.171	2.545	2.310	2.099	2.273	9.278	9.042	8.831	9.005	1.940	1.759	1.597	1.454
1.163	2.740	2.511	2.302	2.475	9.776	9.547	9.338	9.511	2.023	1.843	1.680	1.535
1.154	2.967	2.748	2.545	2.713	10.350	10.131	9.928	10.096	2.112	1.932	1.768	1.622
1.146	2.154	2.018	1.890	1.996	7.336	7.201	7.072	7.179	2.206	2.027	1.863	1.715
1.137	1.115	1.058	1.004	1.049	3.697	3.641	3.587	3.632	2.307	2.129	1.965	1.816
1.129	.696	.672	.648	.668	2.236	2.212	2.188	2.208	2.417	2.240	2.076	1.925
1.111	.362	.362	.362	.362	.723	.723	.723	.723	2.669	2.494	2.329	2.176
1.103	.369	.369	.369	.369	.738	.738	.738	.738	2.816	2.641	2.476	2.322
1.094	.377	.377	.377	.377	.753	.753	.753	.753	2.980	2.807	2.642	2.486
1.086	.385	.385	.385	.385	.770	.770	.770	.770	3.167	2.995	2.830	2.673
1.077	.394	.394	.394	.394	.788	.788	.788	.788	3.383	3.211	3.046	2.889
1.069	.403	.403	.403	.403	.807	.807	.807	.807	3.636	3.465	3.300	3.141
1.060	.414	.414	.414	.414	.828	.828	.828	.828	3.939	3.769	3.604	3.445
1.051	.425	.425	.425	.425	.850	.850	.850	.850	4.313	4.144	3.979	3.819
1.043	.438	.438	.438	.438	.875	.875	.875	.875	4.791	4.623	4.458	4.297
1.034	.452	.452	.452	.452	.904	.904	.904	.904	5.436	5.268	5.103	4.942
1.026	.468	.468	.468	.468	.936	.936	.936	.936	6.375	6.209	6.044	5.882
1.017	.487	.487	.487	.487	.975	.975	.975	.975	7.945	7.779	7.615	7.452

N= .7000 CUTOFF1=1.4286 CUTOFF2=1.3000 CUTOFF3=1.2422

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.420	.332	.251	.202	.241	4.668	4.587	4.538	4.578	0	0	0	0
1.411	.486	.371	.299	.357	4.903	4.788	4.716	4.774	0	0	0	0
1.403	.617	.475	.385	.458	5.119	4.978	4.888	4.960	0	0	0	0
1.394	.739	.576	.469	.555	5.332	5.168	5.061	5.147	0	0	0	0
1.386	.860	.676	.555	.653	5.547	5.364	5.242	5.340	0	0	0	0
1.377	.981	.781	.645	.755	5.770	5.570	5.433	5.544	0	0	0	0
1.369	1.107	.892	.742	.864	6.003	5.789	5.639	5.760	0	0	0	0
1.360	1.239	1.013	.850	.982	6.251	6.025	5.861	5.994	0	0	0	0
1.351	1.380	1.146	.971	1.113	6.516	6.282	6.106	6.249	0	0	0	0
1.343	1.272	1.074	.921	1.046	5.639	5.441	5.287	5.412	0	0	0	0
1.334	1.072	.923	.802	.901	4.474	4.324	4.204	4.302	0	0	0	0
1.326	.927	.815	.721	.798	3.641	3.529	3.435	3.512	0	0	0	0
1.317	.811	.732	.662	.720	2.994	2.915	2.845	2.903	0	0	0	0
1.309	.710	.662	.617	.654	2.441	2.393	2.349	2.386	0	0	0	0
1.300	.653	.653	.653	.653	1.306	1.306	1.306	1.306	0	0	0	0
1.291	.661	.661	.661	.661	1.321	1.321	1.321	1.321	0	0	0	0
1.283	.669	.669	.669	.669	1.337	1.337	1.337	1.337	0	0	0	0
1.274	.677	.677	.677	.677	1.354	1.354	1.354	1.354	0	0	0	0
1.266	.685	.685	.685	.685	1.370	1.370	1.370	1.370	0	0	0	0
1.257	.694	.694	.694	.694	1.388	1.388	1.388	1.388	0	0	0	0
1.249	.703	.703	.703	.703	1.406	1.406	1.406	1.406	0	0	0	0
1.240	.712	.712	.712	.712	1.424	1.424	1.424	1.424	.283	.213	.171	.143
1.231	.722	.722	.722	.722	1.444	1.444	1.444	1.444	.613	.473	.383	.322
1.223	.732	.732	.732	.732	1.463	1.463	1.463	1.463	.812	.638	.523	.442
1.214	.742	.742	.742	.742	1.484	1.484	1.484	1.484	.968	.775	.641	.545
1.206	.753	.753	.753	.753	1.505	1.505	1.505	1.505	1.103	.896	.748	.639
1.197	.764	.764	.764	.764	1.527	1.527	1.527	1.527	1.226	1.009	.850	.731
1.189	.775	.775	.775	.775	1.550	1.550	1.550	1.550	1.340	1.117	.949	.820
1.180	.787	.787	.787	.787	1.574	1.574	1.574	1.574	1.451	1.223	1.047	.911
1.171	.799	.799	.799	.799	1.599	1.599	1.599	1.599	1.560	1.329	1.147	1.003
1.163	.812	.812	.812	.812	1.625	1.625	1.625	1.625	1.668	1.436	1.248	1.097
1.154	.826	.826	.826	.826	1.652	1.652	1.652	1.652	1.779	1.545	1.353	1.196
1.146	.840	.840	.840	.840	1.680	1.680	1.680	1.680	1.893	1.658	1.462	1.299
1.137	.855	.855	.855	.855	1.710	1.710	1.710	1.710	2.011	1.777	1.577	1.409
1.129	.870	.870	.870	.870	1.741	1.741	1.741	1.741	2.137	1.902	1.700	1.527
1.120	.887	.887	.887	.887	1.774	1.774	1.774	1.774	2.270	2.036	1.831	1.654
1.111	.904	.904	.904	.904	1.808	1.808	1.808	1.808	2.415	2.181	1.974	1.793
1.103	.922	.922	.922	.922	1.845	1.845	1.845	1.845	2.573	2.340	2.131	1.945
1.094	.942	.942	.942	.942	1.884	1.884	1.884	1.884	2.747	2.516	2.305	2.116
1.086	.963	.963	.963	.963	1.925	1.925	1.925	1.925	2.943	2.713	2.501	2.308
1.077	.985	.985	.985	.985	1.969	1.969.	1.969	1.969	3.168	2.938	2.725	2.529
1.069	1.009	1.009	1.009	1.009	2.017	2.017	2.017	2.017	3.428	3.200	2.986	2.787
1.060	1.035	1.035	1.035	1.035	2.069	2.069	2.069	2.069	3.739	3.511	3.296	3.094
1.051	1.063	1.063	1.063	1.063	2.126	2.126	2.126	2.126	4.119	3.893	3.677	3.473
1.043	1.094	1.094	1.094	1.094	2.189	2.189	2.189	2.189	4.604	4.379	4.162	3.955
1.034	1.130	1.130	1.130	1.130	2.259	2.259	2.259	2.259	5.254	5.030	4.813	4.603
1.026	1.170	1.170	1.170	1.170	2.340	2.340	2.340	2.340	6.199	5.977	5.759	5.547
1.017	1.219	1.219	1.219	1.219	2.437	2.437	2.437	2.437	7.773	7.552	7.334	7.120

N= .7500 CUTOFF1=1.3333 CUTOFF2=1.0200 CUTOFF3=1.3201

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI	RHO= 0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.327	.223	.168	.135	.162	3.912	3.857	3.824	3.850	0	0	0	0
1.320	.319	.242	.194	.232	4.052	3.975	3.928	3.966	.055	.041	.033	.028
1.313	.395	.301	.243	.289	4.175	4.081	4.022	4.069	.391	.298	.240	.201
1.307	.462	.354	.286	.340	4.289	4.181	4.113	4.167	.544	.420	.341	.287
1.300	.522	.402	.326	.387	4.399	4.279	4.202	4.264	.658	.515	.421	.355
1.293	.579	.448	.364	.432	4.507	4.376	4.292	4.359	.753	.597	.491	.416
1.287	.634	.493	.401	.475	4.614	4.473	4.382	4.455	.835	.669	.554	.471
1.280	.686	.536	.438	.517	4.721	4.572	4.473	4.552	.910	.736	.614	.524
1.273	.738	.580	.475	.559	4.830	4.672	4.567	4.651	.979	.799	.670	.574
1.267	.788	.623	.511	.601	4.939	4.773	4.662	4.752	1.043	.859	.724	.623
1.260	.839	.666	.548	.643	5.051	4.878	4.760	4.855	1.104	.917	.778	.671
1.253	.889	.709	.586	.686	5.165	4.985	4.861	4.961	1.164	.974	.830	.719
1.247	.940	.753	.624	.729	5.281	5.095	4.966	5.070	1.221	1.029	.882	.766
1.240	.991	.798	.663	.772	5.401	5.209	5.074	5.183	1.277	1.084	.933	.814
1.233	1.042	.844	.704	.817	5.525	5.327	5.186	5.300	1.333	1.139	.985	.862
1.227	1.095	.891	.745	.863	5.653	5.449	5.303	5.421	1.388	1.193	1.037	.911
1.220	1.148	.939	.788	.910	5.785	5.576	5.425	5.547	1.443	1.248	1.089	.960
1.213	1.203	.989	.832	.959	5.922	5.708	5.551	5.678	1.499	1.304	1.142	1.011
1.207	1.259	1.040	.878	1.010	6.065	5.846	5.684	5.816	1.555	1.360	1.197	1.062
1.200	1.317	1.094	.927	1.062	6.214	5.990	5.823	5.959	1.612	1.417	1.252	1.115
1.193	1.377	1.149	.977	1.117	6.369	6.142	5.970	6.110	1.671	1.475	1.309	1.170
1.187	1.439	1.207	1.030	1.174	6.533	6.301	6.124	6.268	1.730	1.535	1.368	1.226
1.180	1.504	1.268	1.086	1.234	6.704	6.468	6.286	6.435	1.792	1.597	1.429	1.285
1.173	1.571	1.332	1.144	1.297	6.885	6.645	6.458	6.611	1.855	1.661	1.492	1.346
1.167	1.642	1.399	1.207	1.363	7.076	6.833	6.640	6.797	1.921	1.728	1.557	1.409
1.160	1.717	1.470	1.273	1.434	7.279	7.032	6.835	6.996	1.990	1.797	1.626	1.476
1.153	1.795	1.545	1.343	1.508	7.494	7.244	7.042	7.207	2.062	1.869	1.697	1.546
1.147	1.879	1.625	1.418	1.588	7.724	7.470	7.264	7.433	2.137	1.945	1.773	1.619
1.140	1.968	1.711	1.499	1.673	7.970	7.713	7.502	7.675	2.216	2.025	1.852	1.697
1.133	2.063	1.803	1.587	1.764	8.235	7.975	7.759	7.936	2.301	2.110	1.936	1.780
1.127	2.164	1.902	1.681	1.863	8.521	8.258	8.038	8.219	2.390	2.200	2.026	1.868
1.120	2.275	2.010	1.784	1.969	8.831	8.566	8.341	8.526	2.486	2.297	2.122	1.963
1.113	2.394	2.127	1.897	2.086	9.170	8.903	8.673	8.862	2.589	2.401	2.226	2.065
1.107	2.525	2.256	2.022	2.214	9.542	9.273	9.038	9.231	2.700	2.513	2.337	2.176
1.100	2.669	2.398	2.160	2.356	9.953	9.682	9.444	9.640	2.821	2.634	2.459	2.296
1.093	2.830	2.557	2.315	2.514	10.412	10.139	9.897	10.096	2.954	2.768	2.592	2.428
1.087	3.009	2.735	2.489	2.692	10.927	10.654	10.408	10.611	3.100	2.915	2.739	2.574
1.080	3.213	2.938	2.689	2.895	11.514	11.239	10.990	11.196	3.264	3.079	2.903	2.737
1.073	3.448	3.172	2.920	3.129	12.190	11.915	11.663	11.871	3.447	3.263	3.087	2.920
1.067	3.721	3.447	3.192	3.403	12.981	12.706	12.452	12.662	3.656	3.473	3.297	3.129
1.060	4.048	3.775	3.519	3.731	13.925	13.651	13.395	13.607	3.898	3.716	3.540	3.371
1.053	4.447	4.177	3.921	4.133	15.079	14.809	14.553	14.765	4.182	4.001	3.825	3.655
1.047	4.953	4.687	4.433	4.644	16.540	16.274	16.020	16.231	4.523	4.343	4.166	3.996
1.040	5.623	5.367	5.118	5.325	18.473	18.217	17.968	18.174	4.945	4.765	4.588	4.417
1.033	6.579	6.339	6.104	6.299	21.219	20.978	20.743	20.939	5.484	5.305	5.129	4.956
1.027	8.124	7.920	7.718	7.886	25.616	25.411	25.209	25.377	6.212	6.034	5.857	5.684
1.013	.083	.083	.083	.083	.166	.166	.166	.166	9.051	8.874	8.698	8.524

N= .7500 CUTOFF1=1.3333 CUTOFF2=1.0400 CUTOFF3=1.3072

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI	RHO= 0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.327	.231	.174	.140	.167	4.008	3.951	3.917	3.944	0	0	0	0
1.320	.330	.250	.201	.241	4.154	4.075	4.026	4.065	0	0	0	0
1.313	.409	.312	.251	.300	4.282	4.185	4.124	4.173	0	0	0	0
1.307	.479	.367	.296	.353	4.402	4.290	4.220	4.276	.114	.085	.068	.087
1.300	.542	.417	.338	.402	4.518	4.393	4.314	4.377	.415	.317	.255	.214
1.293	.602	.466	.379	.449	4.631	4.495	4.408	4.478	.569	.441	.358	.301
1.287	.659	.513	.418	.494	4.744	4.598	4.503	4.580	.686	.538	.440	.372
1.280	.714	.559	.457	.539	4.858	4.702	4.600	4.683	.784	.622	.512	.434
1.273	.768	.605	.495	.583	4.972	4.808	4.699	4.787	.869	.697	.578	.492
1.267	.822	.650	.534	.628	5.089	4.917	4.801	4.894	.946	.767	.640	.547
1.260	.876	.696	.574	.673	5.207	5.028	4.906	5.004	1.018	.833	.699	.599
1.253	.929	.743	.614	.718	5.329	5.142	5.014	5.118	1.085	.896	.756	.651
1.247	.983	.790	.655	.764	5.454	5.260	5.126	5.235	1.149	.956	.812	.701
1.240	1.038	.838	.697	.811	5.582	5.383	5.242	5.356	1.211	1.016	.867	.752
1.233	1.093	.887	.741	.860	5.715	5.509	5.363	5.482	1.271	1.074	.921	.802
1.227	1.150	.938	.786	.909	5.852	5.641	5.489	5.612	1.331	1.132	.976	.853
1.220	1.207	.991	.833	.961	5.995	5.779	5.621	5.749	1.390	1.190	1.031	.904
1.213	1.267	1.045	.881	1.014	6.144	5.922	5.759	5.891	1.449	1.248	1.087	.956
1.207	1.328	1.101	.932	1.070	6.299	6.072	5.903	6.041	1.508	1.307	1.143	1.009
1.200	1.391	1.160	.986	1.128	6.461	6.230	6.056	6.197	1.567	1.367	1.200	1.063
1.193	1.457	1.222	1.042	1.188	6.632	6.396	6.216	6.363	1.628	1.427	1.259	1.119
1.187	1.526	1.286	1.101	1.252	6.811	6.571	6.386	6.537	1.690	1.489	1.319	1.177
1.180	1.598	1.354	1.163	1.319	7.000	6.756	6.566	6.721	1.753	1.553	1.381	1.236
1.173	1.673	1.425	1.230	1.390	7.200	6.953	6.757	6.917	1.818	1.618	1.445	1.298
1.167	1.752	1.501	1.301	1.465	7.413	7.162	6.961	7.125	1.886	1.686	1.512	1.362
1.160	1.836	1.582	1.376	1.545	7.639	7.385	7.179	7.347	1.956	1.756	1.581	1.430
1.153	1.926	1.668	1.458	1.630	7.881	7.624	7.413	7.586	2.029	1.830	1.654	1.500
1.147	2.021	1.761	1.545	1.722	8.141	7.881	7.666	7.842	2.105	1.907	1.730	1.575
1.140	2.123	1.860	1.640	1.821	8.421	8.158	7.939	8.119	2.186	1.988	1.811	1.653
1.133	2.233	1.968	1.744	1.928	8.725	8.460	8.236	8.420	2.271	2.074	1.896	1.737
1.127	2.353	2.086	1.857	2.045	9.055	8.788	8.560	8.748	2.362	2.165	1.987	1.826
1.120	2.483	2.215	1.982	2.173	9.417	9.149	8.917	9.108	2.458	2.263	2.084	1.921
1.113	2.626	2.357	2.121	2.315	9.817	9.548	9.312	9.506	2.562	2.367	2.188	2.024
1.107	2.785	2.515	2.276	2.473	10.261	9.991	9.752	9.949	2.674	2.480	2.300	2.135
1.100	2.963	2.693	2.451	2.651	10.759	10.489	10.247	10.447	2.796	2.603	2.422	2.255
1.093	3.164	2.896	2.652	2.853	11.324	11.055	10.811	11.012	2.929	2.737	2.556	2.388
1.087	3.395	3.128	2.883	3.086	11.971	11.705	11.459	11.662	3.077	2.885	2.704	2.534
1.080	3.664	3.401	3.156	3.359	12.726	12.463	12.218	12.421	3.240	3.050	2.868	2.698
1.073	3.984	3.726	3.483	3.684	13.622	13.364	13.122	13.323	3.425	3.235	3.053	2.881
1.067	4.374	4.124	3.887	4.084	14.713	14.463	14.225	14.423	3.634	3.445	3.263	3.091
1.060	4.867	4.630	4.402	4.592	16.084	15.847	15.619	15.809	3.877	3.688	3.506	3.332
1.053	5.522	5.307	5.097	5.272	17.891	17.676	17.467	17.641	4.161	3.973	3.792	3.617
1.047	.800	.778	.757	.775	2.529	2.508	2.487	2.504	4.503	4.316	4.134	3.958
1.040	.147	.147	.147	.147	.295	.295	.295	.295	4.924	4.738	4.556	4.379
1.033	.151	.151	.151	.151	.302	.302	.302	.302	5.464	5.279	5.097	4.919
1.027	.155	.155	.155	.155	.311	.311	.311	.311	6.193	6.008	5.826	5.648
1.020	.160	.160	.160	.160	.320	.320	.320	.320	7.256	7.072	6.890	6.711
1.013	.166	.166	.166	.166	.332	.332	.332	.332	9.033	8.850	8.668	8.488

N= .7500 CUTOFF1=1.3333 CUTOFF2=1.0600 CUTOFF3=1.2945

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI	RHO= 0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.327	.239	.181	.145	.173	4.109	4.050	4.014	4.043	0	0	0	0
1.320	.343	.260	.209	.250	4.262	4.179	4.128	4.169	0	0	0	0
1.313	.425	.324	.262	.312	4.396	4.295	4.232	4.283	0	0	0	0
1.307	.498	.382	.309	.367	4.522	4.406	4.333	4.391	0	0	0	0
1.300	.564	.435	.353	.419	4.644	4.514	4.432	4.498	0	0	0	0
1.293	.627	.486	.395	.468	4.764	4.623	4.532	4.605	.175	.132	.105	.088
1.287	.687	.536	.437	.516	4.883	4.732	4.633	4.712	.447	.342	.276	.231
1.280	.746	.585	.478	.564	5.004	4.842	4.736	4.822	.602	.467	.380	.319
1.273	.804	.633	.519	.611	5.126	4.955	4.841	4.933	.720	.566	.464	.392
1.267	.861	.682	.561	.659	5.250	5.071	4.950	5.048	.820	.652	.538	.456
1.260	.918	.731	.604	.707	5.376	5.190	5.062	5.165	.908	.730	.606	.516
1.253	.975	.781	.647	.755	5.507	5.313	5.179	5.287	.988	.803	.670	.573
1.247	1.033	.832	.692	.805	5.641	5.440	5.299	5.413	1.062	.871	.732	.628
1.240	1.092	.884	.737	.856	5.779	5.572	5.425	5.544	1.132	.937	.792	.682
1.233	1.152	.938	.785	.909	5.922	5.709	5.556	5.680	1.199	1.001	.851	.736
1.227	1.213	.994	.834	.964	6.071	5.852	5.693	5.822	1.265	1.063	.909	.789
1.220	1.276	1.051	.886	1.020	6.226	6.002	5.836	5.970	1.328	1.125	.967	.843
1.213	1.341	1.111	.940	1.079	6.388	6.158	5.987	6.126	1.391	1.187	1.025	.897
1.207	1.409	1.174	.997	1.141	6.558	6.323	6.146	6.290	1.454	1.249	1.084	.952
1.200	1.479	1.239	1.056	1.205	6.736	6.497	6.314	6.463	1.517	1.311	1.143	1.008
1.193	1.552	1.308	1.120	1.273	6.924	6.680	6.492	6.646	1.580	1.374	1.204	1.065
1.187	1.628	1.380	1.187	1.345	7.123	6.875	6.681	6.839	1.645	1.438	1.266	1.124
1.180	1.709	1.457	1.258	1.421	7.333	7.082	6.882	7.045	1.710	1.504	1.330	1.184
1.173	1.794	1.539	1.335	1.502	7.557	7.302	7.098	7.265	1.778	1.571	1.395	1.247
1.167	1.884	1.626	1.417	1.588	7.796	7.538	7.329	7.500	1.847	1.641	1.463	1.313
1.160	1.980	1.720	1.505	1.681	8.052	7.791	7.577	7.752	1.919	1.713	1.534	1.381
1.153	2.083	1.820	1.601	1.781	8.328	8.065	7.846	8.025	1.993	1.788	1.608	1.452
1.147	2.194	1.929	1.706	1.889	8.626	8.361	8.138	8.321	2.071	1.866	1.686	1.528
1.140	2.314	2.048	1.821	2.007	8.950	8.684	8.457	8.643	2.153	1.949	1.767	1.607
1.133	2.445	2.178	1.947	2.137	9.305	9.038	8.807	8.997	2.240	2.036	1.853	1.691
1.127	2.589	2.322	2.088	2.280	9.695	9.428	9.194	9.387	2.331	2.128	1.945	1.781
1.120	2.748	2.482	2.245	2.440	10.129	9.862	9.625	9.820	2.429	2.227	2.042	1.877
1.113	2.926	2.661	2.423	2.620	10.613	10.348	10.110	10.307	2.534	2.332	2.147	1.980
1.107	3.128	2.866	2.627	2.824	11.162	10.900	10.661	10.859	2.647	2.446	2.261	2.091
1.100	3.358	3.101	2.864	3.060	11.790	11.533	11.295	11.492	2.769	2.569	2.384	2.213
1.093	3.628	3.377	3.143	3.337	12.521	12.270	12.036	12.230	2.903	2.704	2.518	2.346
1.087	3.948	3.708	3.480	3.669	13.387	13.147	12.919	13.108	3.051	2.853	2.666	2.493
1.080	4.341	4.116	3.900	4.079	14.442	14.217	14.001	14.180	3.216	3.018	2.831	2.656
1.073	1.631	1.563	1.497	1.552	5.312	5.244	5.178	5.233	3.401	3.204	3.017	2.840
1.067	.654	.636	.617	.633	2.076	2.058	2.039	2.055	3.611	3.415	3.228	3.050
1.053	.211	.211	.211	.211	.423	.423	.423	.423	4.139	3.945	3.757	3.577
1.047	.216	.216	.216	.216	.432	.432	.432	.432	4.481	4.288	4.100	3.919
1.040	.221	.221	.221	.221	.442	.442	.442	.442	4.903	4.711	4.523	4.340
1.033	.227	.227	.227	.227	.453	.453	.453	.453	5.444	5.252	5.064	4.881
1.027	.233	.233	.233	.233	.466	.466	.466	.466	6.173	5.982	5.794	5.609
1.020	.240	.240	.240	.240	.481	.481	.481	.481	7.236	7.046	6.858	6.673
1.013	.249	.249	.249	.249	.498	.498	.498	.498	9.014	8.824	8.636	8.450

N= .7500 CUTOFF1=1.3333 CUTOFF2=1.0800 CUTOFF3=1.2821

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI	RHO= 0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.327	.249	.188	.151	.181	4.215	4.154	4.116	4.146	0	0	0	0
1.320	.357	.271	.218	.260	4.376	4.289	4.236	4.279	0	0	0	0
1.313	.444	.339	.273	.326	4.517	4.411	4.346	4.399	0	0	0	0
1.307	.520	.399	.323	.384	4.649	4.528	4.452	4.513	0	0	0	0
1.300	.590	.455	.369	.438	4.778	4.643	4.557	4.627	0	0	0	0
1.293	.656	.509	.414	.491	4.905	4.758	4.664	4.740	0	0	0	0
1.287	.720	.562	.459	.542	5.033	4.875	4.771	4.854	0	0	0	0
1.280	.782	.614	.503	.593	5.161	4.993	4.881	4.971	.240	.181	.145	.121
1.273	.844	.666	.547	.643	5.291	5.114	4.994	5.090	.488	.374	.302	.253
1.267	.905	.719	.592	.694	5.424	5.238	5.111	5.213	.641	.498	.406	.342
1.260	.967	.772	.638	.746	5.560	5.366	5.232	5.340	.761	.600	.492	.416
1.253	1.028	.826	.686	.799	5.700	5.498	5.358	5.471	.863	.688	.568	.482
1.247	1.091	.882	.734	.854	5.845	5.636	5.488	5.608	.953	.769	.639	.545
1.240	1.155	.939	.785	.910	5.995	5.779	5.625	5.750	1.036	.844	.706	.604
1.233	1.220	.998	.837	.968	6.151	5.928	5.768	5.898	1.113	.915	.771	.662
1.227	1.288	1.060	.892	1.028	6.313	6.085	5.918	6.053	1.186	.984	.834	.719
1.220	1.357	1.123	.950	1.091	6.483	6.249	6.076	6.217	1.256	1.051	.896	.776
1.213	1.429	1.190	1.011	1.157	6.661	6.422	6.242	6.388	1.325	1.118	.957	.832
1.207	1.504	1.260	1.075	1.226	6.848	6.604	6.419	6.570	1.393	1.183	1.019	.890
1.200	1.582	1.334	1.143	1.299	7.045	6.798	6.606	6.762	1.460	1.249	1.081	.948
1.193	1.664	1.413	1.215	1.376	7.255	7.003	6.805	6.966	1.527	1.315	1.144	1.007
1.187	1.751	1.496	1.293	1.459	7.477	7.221	7.018	7.184	1.594	1.382	1.209	1.067
1.180	1.843	1.584	1.376	1.546	7.713	7.455	7.247	7.417	1.663	1.450	1.274	1.129
1.173	1.941	1.679	1.466	1.641	7.967	7.706	7.493	7.667	1.733	1.520	1.342	1.193
1.167	2.045	1.782	1.564	1.743	8.240	7.976	7.758	7.937	1.804	1.592	1.411	1.260
1.160	2.158	1.893	1.671	1.853	8.534	8.269	8.047	8.229	1.878	1.666	1.484	1.329
1.153	2.279	2.014	1.788	1.973	8.854	8.588	8.362	8.548	1.954	1.742	1.559	1.402
1.147	2.412	2.146	1.917	2.105	9.203	8.937	8.708	8.896	2.034	1.822	1.638	1.478
1.140	2.557	2.292	2.061	2.252	9.587	9.322	9.090	9.281	2.118	1.906	1.720	1.558
1.133	2.719	2.456	2.222	2.415	10.013	9.750	9.516	9.709	2.205	1.995	1.808	1.643
1.127	2.899	2.639	2.406	2.599	10.489	10.229	9.996	10.189	2.298	2.088	1.900	1.733
1.120	3.103	2.849	2.617	2.809	11.027	10.773	10.541	10.733	2.397	2.188	1.999	1.830
1.113	3.338	3.091	2.863	3.052	11.644	11.397	11.169	11.358	2.503	2.295	2.105	1.934
1.107	3.613	3.378	3.156	3.340	12.362	12.126	11.905	12.089	2.617	2.409	2.219	2.046
1.100	2.806	2.651	2.502	2.625	9.406	9.250	9.102	9.225	2.741	2.534	2.343	2.168
1.093	1.103	1.054	1.006	1.046	3.612	3.563	3.516	3.555	2.876	2.670	2.478	2.301
1.087	.624	.605	.586	.601	1.987	1.968	1.949	1.964	3.024	2.819	2.627	2.449
1.080	.261	.261	.261	.261	.521	.521	.521	.521	3.190	2.985	2.793	2.613
1.073	.265	.265	.265	.265	.531	.531	.531	.531	3.375	3.172	2.979	2.798
1.067	.270	.270	.270	.270	.541	.541	.541	.541	3.586	3.384	3.190	3.008
1.060	.276	.276	.276	.276	.552	.552	.552	.552	3.830	3.628	3.434	3.250
1.053	.282	.282	.282	.282	.563	.563	.563	.563	4.116	3.915	3.721	3.535
1.047	.288	.288	.288	.288	.576	.576	.576	.576	4.458	4.258	4.064	3.877
1.040	.295	.295	.295	.295	.590	.590	.590	.590	4.881	4.682	4.488	4.300
1.033	.302	.302	.302	.302	.605	.605	.605	.605	5.422	5.224	5.029	4.840
1.027	.311	.311	.311	.311	.621	.621	.621	.621	6.151	5.954	5.759	5.569
1.020	.320	.320	.320	.320	.641	.641	.641	.641	7.215	7.018	6.824	6.633
1.013	.332	.332	.332	.332	.664	.664	.664	.664	8.993	8.797	8.603	8.410

N= .7500 CUTOFF1=1.3333 CUTOFF2=1.1000 CUTOFF3=1.2698

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI	RHO= 0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.327	.261	.197	.158	.189	4.327	4.263	4.224	4.255	0	0	0	0
1.320	.374	.284	.228	.273	4.496	4.406	4.351	4.395	0	0	0	0
1.313	.465	.355	.286	.341	4.645	4.535	4.467	4.522	0	0	0	0
1.307	.545	.419	.339	.403	4.786	4.659	4.580	4.644	0	0	0	0
1.300	.620	.479	.389	.461	4.923	4.782	4.692	4.764	0	0	0	0
1.293	.690	.536	.437	.517	5.058	4.904	4.805	4.885	0	0	0	0
1.287	.758	.593	.484	.572	5.194	5.029	4.920	5.008	0	0	0	0
1.280	.825	.649	.532	.626	5.331	5.155	5.038	5.133	0	0	0	0
1.273	.891	.705	.580	.681	5.471	5.286	5.160	5.261	0	0	0	0
1.267	.957	.762	.629	.737	5.614	5.420	5.286	5.394	.308	.233	.187	.156
1.260	1.023	.820	.680	.793	5.761	5.558	5.417	5.531	.536	.412	.334	.280
1.253	1.091	.880	.732	.851	5.913	5.702	5.554	5.674	.687	.536	.437	.369
1.247	1.159	.941	.786	.911	6.070	5.852	5.697	5.823	.808	.639	.525	.444
1.240	1.229	1.004	.842	.973	6.234	6.009	5.846	5.978	.912	.729	.604	.513
1.233	1.301	1.070	.901	1.038	6.404	6.173	6.004	6.141	1.005	.813	.677	.578
1.227	1.376	1.139	.963	1.106	6.583	6.346	6.170	6.313	1.090	.891	.747	.640
1.220	1.453	1.211	1.028	1.177	6.770	6.528	6.345	6.494	1.170	.966	.815	.701
1.213	1.534	1.287	1.098	1.251	6.968	6.720	6.531	6.685	1.247	1.038	.881	.761
1.207	1.619	1.367	1.172	1.331	7.176	6.925	6.729	6.888	1.321	1.109	.947	.822
1.200	1.708	1.452	1.251	1.415	7.398	7.142	6.941	7.105	1.393	1.179	1.013	.882
1.193	1.802	1.543	1.336	1.505	7.633	7.374	7.168	7.337	1.465	1.249	1.079	.943
1.187	1.902	1.640	1.428	1.601	7.885	7.624	7.412	7.585	1.537	1.320	1.146	1.006
1.180	2.009	1.745	1.528	1.706	8.156	7.892	7.676	7.853	1.609	1.391	1.214	1.070
1.173	2.123	1.859	1.637	1.819	8.448	8.183	7.962	8.144	1.682	1.464	1.283	1.136
1.167	2.248	1.983	1.758	1.942	8.765	8.500	8.275	8.460	1.756	1.538	1.355	1.204
1.160	2.383	2.119	1.891	2.078	9.111	8.847	8.619	8.807	1.833	1.614	1.429	1.274
1.153	2.532	2.270	2.040	2.229	9.492	9.230	9.000	9.189	1.912	1.693	1.506	1.348
1.147	2.697	2.438	2.208	2.398	9.914	9.655	9.425	9.614	1.993	1.775	1.586	1.425
1.140	2.882	2.629	2.401	2.589	10.385	10.132	9.904	10.092	2.079	1.860	1.670	1.506
1.133	3.093	2.848	2.623	2.809	10.919	10.674	10.450	10.636	2.168	1.950	1.759	1.592
1.127	3.336	3.103	2.886	3.066	11.532	11.300	11.082	11.262	2.263	2.046	1.853	1.683
1.120	1.641	1.544	1.451	1.528	5.548	5.451	5.358	5.435	2.363	2.146	1.953	1.781
1.113	.947	.902	.858	.895	3.122	3.077	3.034	3.070	2.470	2.254	2.059	1.885
1.107	.618	.598	.578	.595	1.979	1.958	1.939	1.955	2.585	2.370	2.174	1.998
1.100	.310	.310	.310	.310	.619	.619	.619	.619	2.710	2.496	2.299	2.121
1.093	.315	.315	.315	.315	.629	.629	.629	.629	2.846	2.633	2.435	2.255
1.087	.320	.320	.320	.320	.640	.640	.640	.640	2.996	2.783	2.585	2.403
1.080	.326	.326	.326	.326	.651	.651	.651	.651	3.162	2.950	2.752	2.568
1.073	.332	.332	.332	.332	.663	.663	.663	.663	3.348	3.138	2.939	2.753
1.067	.338	.338	.338	.338	.676	.676	.676	.676	3.560	3.350	3.151	2.963
1.060	.345	.345	.345	.345	.690	.690	.690	.690	3.805	3.595	3.396	3.206
1.053	.352	.352	.352	.352	.704	.704	.704	.704	4.091	3.883	3.683	3.492
1.047	.360	.360	.360	.360	.720	.720	.720	.720	4.434	4.227	4.027	3.834
1.040	.369	.369	.369	.369	.737	.737	.737	.737	4.858	4.651	4.451	4.257
1.033	.378	.378	.378	.378	.756	.756	.756	.756	5.399	5.194	4.993	4.798
1.027	.388	.388	.388	.388	.777	.777	.777	.777	6.129	5.924	5.723	5.527
1.020	.400	.400	.400	.400	.801	.801	.801	.801	7.194	6.990	6.789	6.591
1.013	.415	.415	.415	.415	.830	.830	.830	.830	8.972	8.769	8.568	8.369

N= .7500 CUTOFF1=1.3333 CUTOFF2=1.1200 CUTOFF3=1.2579

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.327	.274	.207	.166	.198	4.447	4.379	4.339	4.371	0	0	0	0
1.320	.393	.299	.240	.287	4.625	4.531	4.473	4.519	0	0	0	0
1.313	.490	.374	.302	.360	4.783	4.668	4.596	4.654	0	0	0	0
1.307	.575	.442	.358	.426	4.933	4.800	4.716	4.784	0	0	0	0
1.300	.654	.506	.411	.488	5.079	4.931	4.836	4.912	0	0	0	0
1.293	.730	.568	.463	.548	5.224	5.063	4.958	5.042	0	0	0	0
1.287	.803	.629	.515	.607	5.370	5.196	5.082	5.174	0	0	0	0
1.280	.875	.690	.567	.666	5.518	5.333	5.210	5.309	0	0	0	0
1.273	.946	.752	.619	.726	5.669	5.474	5.342	5.448	0	0	0	0
1.267	1.018	.814	.674	.787	5.824	5.620	5.479	5.593	0	0	0	0
1.260	1.091	.878	.729	.850	5.984	5.771	5.622	5.742	0	0	0	0
1.253	1.165	.944	.787	.914	6.149	5.929	5.772	5.899	.381	.289	.233	.194
1.247	1.241	1.012	.848	.981	6.322	6.094	5.929	6.063	.592	.457	.370	.311
1.240	1.318	1.084	.912	1.051	6.502	6.267	6.095	6.234	.741	.580	.474	.400
1.233	1.399	1.158	.979	1.124	6.690	6.449	6.270	6.416	.863	.684	.563	.477
1.227	1.483	1.236	1.050	1.201	6.888	6.642	6.456	6.607	.968	.777	.645	.549
1.220	1.570	1.319	1.126	1.283	7.098	6.846	6.653	6.810	1.063	.863	.721	.616
1.213	1.662	1.407	1.208	1.370	7.319	7.063	6.864	7.027	1.152	.945	.794	.682
1.207	1.760	1.500	1.295	1.463	7.555	7.296	7.091	7.258	1.235	1.023	.866	.746
1.200	1.863	1.601	1.390	1.562	7.807	7.545	7.334	7.506	1.316	1.100	.936	.810
1.193	1.973	1.709	1.493	1.670	8.077	7.813	7.597	7.774	1.394	1.175	1.006	.874
1.187	2.091	1.827	1.607	1.787	8.369	8.104	7.884	8.064	1.471	1.250	1.076	.939
1.180	2.220	1.955	1.732	1.915	8.685	8.420	8.197	8.380	1.548	1.325	1.147	1.006
1.173	2.360	2.097	1.871	2.057	9.030	8.767	8.541	8.727	1.625	1.401	1.220	1.073
1.167	2.514	2.254	2.027	2.214	9.410	9.151	8.924	9.111	1.703	1.478	1.294	1.143
1.160	2.685	2.431	2.205	2.392	9.831	9.577	9.351	9.538	1.782	1.557	1.370	1.215
1.153	2.878	2.633	2.410	2.594	10.303	10.058	9.836	10.020	1.864	1.639	1.449	1.290
1.147	2.303	2.130	1.970	2.103	8.057	7.884	7.724	7.856	1.948	1.723	1.531	1.369
1.140	1.306	1.223	1.144	1.209	4.457	4.374	4.295	4.360	2.036	1.811	1.617	1.451
1.133	.876	.832	.789	.824	2.911	2.866	2.823	2.859	2.127	1.902	1.707	1.538
1.127	.622	.600	.579	.596	1.999	1.977	1.956	1.973	2.224	1.999	1.802	1.630
1.113	.360	.360	.360	.360	.720	.720	.720	.720	2.434	2.211	2.011	1.834
1.107	.366	.366	.366	.366	.731	.731	.731	.731	2.551	2.328	2.127	1.948
1.100	.371	.371	.371	.371	.743	.743	.743	.743	2.677	2.455	2.253	2.071
1.093	.378	.378	.378	.378	.755	.755	.755	.755	2.814	2.593	2.390	2.206
1.087	.384	.384	.384	.384	.768	.768	.768	.768	2.965	2.745	2.541	2.354
1.080	.391	.391	.391	.391	.782	.782	.782	.782	3.132	2.913	2.708	2.520
1.073	.398	.398	.398	.398	.796	.796	.796	.796	3.320	3.101	2.896	2.705
1.067	.406	.406	.406	.406	.811	.811	.811	.811	3.532	3.315	3.109	2.916
1.060	.414	.414	.414	.414	.828	.828	.828	.828	3.778	3.561	3.355	3.160
1.053	.423	.423	.423	.423	.845	.845	.845	.845	4.065	3.849	3.642	3.446
1.047	.432	.432	.432	.432	.864	.864	.864	.864	4.409	4.194	3.987	3.789
1.040	.442	.442	.442	.442	.884	.884	.884	.884	4.833	4.619	4.412	4.212
1.033	.453	.453	.453	.453	.907	.907	.907	.907	5.375	5.162	4.955	4.753
1.027	.466	.466	.466	.466	.932	.932	.932	.932	6.106	5.894	5.686	5.483
1.020	.481	.481	.481	.481	.961	.961	.961	.961	7.171	6.960	6.751	6.547
1.013	.498	.498	.498	.498	.996	.996	.996	.996	8.949	8.739	8.531	8.325

N= .7500 CUTOFF1=1.3333 CUTOFF2=1.3000 CUTOFF3=1.1594

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI	RHO= 0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.327	.399	.308	.250	.297	3.180	3.089	3.031	3.078	0	0	0	0
1.320	.500	.400	.331	.386	2.847	2.747	2.678	2.734	0	0	0	0
1.313	.547	.457	.389	.444	2.524	2.434	2.366	2.421	0	0	0	0
1.307	.569	.503	.447	.493	2.202	2.137	2.081	2.127	0	0	0	0
1.300	.653	.653	.653	.653	1.306	1.306	1.306	1.306	0	0	0	0
1.293	.659	.659	.659	.659	1.318	1.318	1.318	1.318	0	0	0	0
1.287	.665	.665	.665	.665	1.330	1.330	1.330	1.330	0	0	0	0
1.280	.671	.671	.671	.671	1.343	1.343	1.343	1.343	0	0	0	0
1.273	.678	.678	.678	.678	1.355	1.355	1.355	1.355	0	0	0	0
1.267	.684	.684	.684	.684	1.369	1.369	1.369	1.369	0	0	0	0
1.260	.691	.691	.691	.691	1.382	1.382	1.382	1.382	0	0	0	0
1.253	.698	.698	.698	.698	1.396	1.396	1.396	1.396	0	0	0	0
1.247	.705	.705	.705	.705	1.410	1.410	1.410	1.410	0	0	0	0
1.240	.712	.712	.712	.712	1.424	1.424	1.424	1.424	0	0	0	0
1.233	.720	.720	.720	.720	1.439	1.439	1.439	1.439	0	0	0	0
1.227	.727	.727	.727	.727	1.455	1.455	1.455	1.455	0	0	0	0
1.220	.735	.735	.735	.735	1.470	1.470	1.470	1.470	0	0	0	0
1.213	.743	.743	.743	.743	1.486	1.486	1.486	1.486	0	0	0	0
1.207	.751	.751	.751	.751	1.503	1.503	1.503	1.503	0	0	0	0
1.200	.760	.760	.760	.760	1.520	1.520	1.520	1.520	0	0	0	0
1.193	.769	.769	.769	.769	1.537	1.537	1.537	1.537	0	0	0	0
1.187	.778	.778	.778	.778	1.555	1.555	1.555	1.555	0	0	0	0
1.180	.787	.787	.787	.787	1.574	1.574	1.574	1.574	0	0	0	0
1.173	.797	.797	.797	.797	1.593	1.593	1.593	1.593	0	0	0	0
1.167	.807	.807	.807	.807	1.613	1.613	1.613	1.613	0	0	0	0
1.160	.817	.817	.817	.817	1.634	1.634	1.634	1.634	0	0	0	0
1.153	.827	.827	.827	.827	1.655	1.655	1.655	1.655	.661	.506	.409	.343
1.147	.838	.838	.838	.838	1.677	1.677	1.677	1.677	.951	.743	.607	.512
1.140	.850	.850	.850	.850	1.700	1.700	1.700	1.700	1.171	.932	.769	.652
1.133	.862	.862	.862	.862	1.723	1.723	1.723	1.723	1.360	1.100	.916	.782
1.127	.874	.874	.874	.874	1.748	1.748	1.748	1.748	1.531	1.257	1.057	.908
1.120	.887	.887	.887	.887	1.774	1.774	1.774	1.774	1.694	1.410	1.196	1.033
1.113	.900	.900	.900	.900	1.800	1.800	1.800	1.800	1.853	1.561	1.337	1.162
1.107	.914	.914	.914	.914	1.828	1.828	1.828	1.828	2.012	1.715	1.481	1.295
1.100	.929	.929	.929	.929	1.857	1.857	1.857	1.857	2.174	1.874	1.631	1.435
1.093	.944	.944	.944	.944	1.888	1.888	1.888	1.888	2.343	2.040	1.790	1.585
1.087	.960	.960	.960	.960	1.920	1.920	1.920	1.920	2.521	2.217	1.961	1.747
1.080	.977	.977	.977	.977	1.954	1.954	1.954	1.954	2.713	2.408	2.146	1.924
1.073	.995	.995	.995	.995	1.990	1.990	1.990	1.990	2.922	2.617	2.350	2.120
1.067	1.014	1.014	1.014	1.014	2.028	2.028	2.028	2.028	3.154	2.849	2.578	2.341
1.060	1.035	1.035	1.035	1.035	2.069	2.069	2.069	2.069	3.417	3.112	2.838	2.593
1.053	1.056	1.056	1.056	1.056	2.113	2.113	2.113	2.113	3.720	3.416	3.138	2.887
1.047	1.080	1.080	1.080	1.080	2.160	2.160	2.160	2.160	4.079	3.775	3.494	3.237
1.040	1.106	1.106	1.106	1.106	2.211	2.211	2.211	2.211	4.516	4.214	3.930	3.667
1.033	1.134	1.134	1.134	1.134	2.267	2.267	2.267	2.267	5.070	4.769	4.483	4.215
1.027	1.165	1.165	1.165	1.165	2.331	2.331	2.331	2.331	5.812	5.512	5.224	4.950
1.020	1.201	1.201	1.201	1.201	2.403	2.403	2.403	2.403	6.887	6.589	6.299	6.020
1.013	1.244	1.244	1.244	1.244	2.489	2.489	2.489	2.489	8.676	8.379	8.087	7.803

N= .8000 CUTOFF1=1.2500 CUTOFF2=1.0200 CUTOFF3=1.2376

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI	RHO= 0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.245	.280	.211	.169	.203	4.639	4.570	4.528	4.562	0	0	0	0
1.240	.400	.303	.244	.291	4.810	4.714	4.655	4.702	0	0	0	0
1.235	.494	.377	.304	.363	4.959	4.842	4.769	4.827	.311	.235	.189	.157
1.230	.576	.443	.358	.426	5.096	4.962	4.878	4.946	.525	.402	.325	.272
1.225	.651	.503	.408	.484	5.229	5.080	4.985	5.062	.671	.520	.423	.356
1.220	.721	.560	.456	.540	5.358	5.197	5.092	5.176	.788	.618	.505	.426
1.215	.788	.615	.502	.593	5.486	5.313	5.200	5.291	.889	.704	.579	.491
1.210	.852	.669	.548	.645	5.614	5.431	5.310	5.407	.979	.783	.648	.550
1.205	.915	.722	.593	.697	5.743	5.550	5.421	5.525	1.062	.857	.713	.608
1.200	.977	.775	.639	.749	5.873	5.672	5.535	5.646	1.139	.927	.775	.663
1.195	1.038	.828	.684	.800	6.006	5.796	5.652	5.769	1.212	.995	.836	.718
1.190	1.099	.881	.731	.853	6.141	5.924	5.773	5.895	1.282	1.061	.896	.772
1.185	1.160	.935	.778	.905	6.279	6.055	5.898	6.025	1.351	1.125	.955	.826
1.180	1.221	.990	.826	.959	6.421	6.191	6.027	6.160	1.417	1.189	1.014	.880
1.175	1.283	1.046	.876	1.014	6.568	6.331	6.161	6.299	1.483	1.252	1.073	.934
1.170	1.346	1.103	.927	1.070	6.719	6.476	6.300	6.443	1.548	1.316	1.133	.989
1.165	1.411	1.162	.980	1.128	6.876	6.627	6.445	6.593	1.613	1.379	1.193	1.045
1.160	1.476	1.223	1.034	1.187	7.038	6.785	6.596	6.749	1.679	1.444	1.254	1.102
1.155	1.544	1.285	1.091	1.249	7.208	6.949	6.755	6.913	1.745	1.509	1.317	1.161
1.150	1.613	1.350	1.150	1.313	7.384	7.121	6.921	7.084	1.812	1.575	1.380	1.221
1.145	1.685	1.418	1.212	1.380	7.569	7.301	7.096	7.263	1.880	1.643	1.446	1.283
1.140	1.760	1.488	1.277	1.450	7.763	7.491	7.280	7.452	1.950	1.713	1.513	1.347
1.135	1.838	1.562	1.346	1.522	7.966	7.691	7.474	7.651	2.022	1.784	1.583	1.413
1.130	1.919	1.640	1.418	1.599	8.181	7.902	7.680	7.862	2.096	1.858	1.655	1.482
1.125	2.004	1.721	1.495	1.680	8.409	8.126	7.899	8.085	2.173	1.935	1.730	1.555
1.120	2.094	1.808	1.576	1.766	8.650	8.364	8.132	8.322	2.252	2.015	1.809	1.630
1.115	2.188	1.900	1.663	1.857	8.907	8.618	8.381	8.576	2.336	2.099	1.891	1.710
1.110	2.289	1.997	1.755	1.954	9.182	8.890	8.649	8.847	2.423	2.187	1.977	1.794
1.105	2.396	2.102	1.855	2.058	9.477	9.183	8.936	9.138	2.516	2.279	2.069	1.883
1.100	2.511	2.214	1.963	2.169	9.795	9.498	9.247	9.453	2.613	2.378	2.166	1.978
1.095	2.634	2.336	2.080	2.290	10.139	9.840	9.584	9.795	2.717	2.482	2.269	2.079
1.090	2.768	2.468	2.208	2.422	10.513	10.213	9.953	10.167	2.828	2.593	2.379	2.187
1.085	2.914	2.612	2.348	2.566	10.923	10.621	10.357	10.575	2.947	2.713	2.498	2.304
1.080	3.074	2.771	2.503	2.724	11.375	11.072	10.804	11.025	3.076	2.842	2.627	2.430
1.075	3.251	2.947	2.676	2.900	11.877	11.573	11.302	11.526	3.216	2.983	2.767	2.568
1.070	3.449	3.145	2.870	3.097	12.439	12.135	11.861	12.087	3.369	3.137	2.920	2.720
1.065	3.672	3.368	3.091	3.320	13.076	12.772	12.494	12.723	3.538	3.307	3.089	2.887
1.060	3.928	3.624	3.345	3.576	13.804	13.501	13.222	13.453	3.726	3.496	3.278	3.074
1.055	4.224	3.922	3.642	3.874	14.651	14.350	14.069	14.301	3.938	3.709	3.490	3.284
1.050	4.573	4.275	3.995	4.227	15.652	15.354	15.074	15.306	4.180	3.951	3.732	3.524
1.045	4.996	4.703	4.424	4.655	16.864	16.571	16.292	16.523	4.459	4.230	4.011	3.802
1.040	5.524	5.238	4.964	5.192	18.374	18.088	17.814	18.042	4.786	4.559	4.339	4.128
1.035	6.210	5.937	5.672	5.892	20.333	20.060	19.795	20.015	5.180	4.953	4.733	4.521
1.030	7.161	6.909	6.662	6.867	23.033	22.781	22.534	22.739	5.666	5.440	5.219	5.006
1.025	1.304	1.273	1.242	1.268	4.105	4.074	4.042	4.068	6.288	6.063	5.842	5.627
1.015	.082	.082	.082	.082	.164	.164	.164	.164	8.354	8.130	7.909	7.691
1.010	.085	.085	.085	.085	.169	.169	.169	.169	10.404	10.181	9.959	9.740

N= .8000 CUTOFF1=1.2500 CUTOFF2=1.0400 CUTOFF3=1.2255

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI	RHO= 0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.245	.295	.222	.178	.214	4.783	4.711	4.667	4.702	0	0	0	0
1.240	.421	.320	.257	.307	4.966	4.864	4.802	4.852	0	0	0	0
1.235	.521	.398	.321	.383	5.123	5.000	4.924	4.985	0	0	0	0
1.230	.609	.468	.379	.450	5.271	5.130	5.041	5.112	0	0	0	0
1.225	.688	.532	.432	.513	5.412	5.256	5.156	5.236	.141	.106	.085	.071
1.220	.763	.593	.483	.572	5.551	5.381	5.271	5.360	.467	.356	.287	.240
1.215	.834	.653	.533	.630	5.689	5.507	5.388	5.484	.641	.495	.401	.337
1.210	.904	.711	.583	.686	5.827	5.635	5.506	5.610	.774	.604	.493	.416
1.205	.971	.769	.632	.742	5.966	5.764	5.628	5.738	.886	.700	.575	.486
1.200	1.038	.826	.682	.799	6.108	5.896	5.752	5.869	.985	.786	.649	.551
1.195	1.104	.884	.732	.855	6.252	6.032	5.880	6.003	1.075	.866	.719	.613
1.190	1.171	.943	.784	.912	6.400	6.172	6.012	6.141	1.159	.942	.787	.673
1.185	1.238	1.003	.836	.971	6.551	6.316	6.150	6.284	1.238	1.015	.853	.732
1.180	1.305	1.063	.890	1.030	6.707	6.466	6.292	6.433	1.314	1.086	.917	.790
1.175	1.374	1.125	.945	1.091	6.869	6.621	6.440	6.587	1.388	1.155	.981	.847
1.170	1.444	1.190	1.003	1.154	7.036	6.782	6.595	6.747	1.460	1.224	1.044	.905
1.165	1.515	1.256	1.062	1.219	7.210	6.951	6.757	6.914	1.531	1.293	1.108	.964
1.160	1.589	1.324	1.125	1.287	7.392	7.127	6.927	7.090	1.601	1.361	1.172	1.023
1.155	1.665	1.395	1.190	1.357	7.581	7.312	7.106	7.273	1.672	1.430	1.237	1.084
1.150	1.744	1.470	1.258	1.430	7.780	7.506	7.294	7.467	1.743	1.500	1.304	1.146
1.145	1.825	1.547	1.330	1.507	7.989	7.711	7.493	7.671	1.815	1.571	1.372	1.210
1.140	1.911	1.629	1.406	1.588	8.209	7.927	7.704	7.886	1.888	1.643	1.441	1.275
1.135	2.001	1.715	1.487	1.674	8.442	8.157	7.929	8.115	1.963	1.717	1.513	1.343
1.130	2.095	1.806	1.573	1.764	8.690	8.401	8.168	8.359	2.039	1.794	1.587	1.414
1.125	2.194	1.903	1.665	1.860	8.953	8.662	8.423	8.619	2.119	1.873	1.664	1.487
1.120	2.300	2.007	1.763	1.963	9.235	8.941	8.698	8.897	2.201	1.955	1.744	1.564
1.115	2.413	2.117	1.869	2.073	9.537	9.242	8.993	9.197	2.286	2.041	1.828	1.645
1.110	2.534	2.237	1.984	2.192	9.863	9.566	9.314	9.521	2.376	2.130	1.916	1.730
1.105	2.665	2.366	2.110	2.321	10.217	9.918	9.662	9.873	2.470	2.225	2.008	1.820
1.100	2.806	2.507	2.247	2.461	10.602	10.303	10.043	10.257	2.569	2.324	2.106	1.915
1.095	2.961	2.662	2.399	2.615	11.025	10.725	10.462	10.679	2.674	2.430	2.211	2.017
1.090	3.131	2.832	2.567	2.786	11.491	11.193	10.927	11.146	2.786	2.543	2.323	2.126
1.085	3.320	3.023	2.755	2.976	12.010	11.713	11.446	11.667	2.907	2.664	2.442	2.243
1.080	3.532	3.237	2.969	3.191	12.594	12.299	12.031	12.253	3.037	2.794	2.572	2.371
1.075	3.772	3.482	3.214	3.435	13.257	12.966	12.698	12.920	3.178	2.936	2.713	2.509
1.070	4.050	3.764	3.498	3.718	14.020	13.735	13.469	13.689	3.332	3.091	2.867	2.661
1.065	4.374	4.097	3.835	4.052	14.913	14.636	14.374	14.591	3.502	3.262	3.037	2.829
1.060	4.763	4.497	4.243	4.454	15.980	15.714	15.460	15.671	3.692	3.452	3.226	3.016
1.055	5.244	4.995	4.754	4.954	17.291	17.042	16.802	17.002	3.905	3.666	3.439	3.227
1.050	1.869	1.798	1.728	1.786	6.044	5.973	5.904	5.962	4.147	3.909	3.682	3.468
1.045	.589	.574	.558	.571	1.861	1.845	1.830	1.843	4.427	4.189	3.962	3.746
1.040	.147	.147	.147	.147	.295	.295	.295	.295	4.755	4.518	4.291	4.073
1.035	.150	.150	.150	.150	.300	.300	.300	.300	5.149	4.913	4.685	4.466
1.030	.153	.153	.153	.153	.306	.306	.306	.306	5.636	5.401	5.172	4.951
1.025	.157	.157	.157	.157	.313	.313	.313	.313	6.259	6.025	5.795	5.573
1.020	.160	.160	.160	.160	.320	.320	.320	.320	7.099	6.866	6.636	6.412
1.015	.164	.164	.164	.164	.329	.329	.329	.329	8.326	8.093	7.863	7.637
1.010	.169	.169	.169	.169	.339	.339	.339	.339	10.376	10.145	9.915	9.687

N= .8000 CUTOFF1=1.2500 CUTOFF2=1.0600 CUTOFF3=1.2136

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI	RHO= 0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.245	.312	.236	.189	.226	4.939	4.863	4.816	4.853	0	0	0	0
1.240	.446	.339	.273	.326	5.134	5.026	4.960	5.013	0	0	0	0
1.235	.553	.423	.342	.407	5.303	5.172	5.091	5.156	0	0	0	0
1.230	.647	.498	.403	.479	5.460	5.312	5.217	5.293	0	0	0	0
1.225	.732	.567	.461	.546	5.613	5.448	5.342	5.427	0	0	0	0
1.220	.813	.633	.517	.611	5.763	5.584	5.467	5.561	0	0	0	0
1.215	.890	.698	.571	.673	5.912	5.720	5.594	5.696	0	0	0	0
1.210	.965	.762	.625	.735	6.062	5.859	5.723	5.833	.397	.301	.242	.202
1.205	1.038	.825	.680	.797	6.214	6.001	5.856	5.973	.609	.468	.379	.318
1.200	1.111	.888	.735	.859	6.369	6.146	5.993	6.117	.761	.592	.482	.406
1.195	1.184	.953	.791	.922	6.527	6.296	6.134	6.265	.886	.697	.572	.483
1.190	1.257	1.018	.848	.985	6.690	6.450	6.280	6.418	.994	.791	.653	.554
1.185	1.331	1.084	.907	1.051	6.857	6.610	6.433	6.577	1.093	.878	.729	.621
1.180	1.407	1.153	.968	1.118	7.031	6.777	6.592	6.742	1.183	.961	.802	.685
1.175	1.483	1.223	1.031	1.187	7.211	6.950	6.759	6.914	1.269	1.039	.873	.749
1.170	1.562	1.296	1.097	1.259	7.398	7.132	6.933	7.095	1.351	1.116	.942	.811
1.165	1.643	1.371	1.166	1.333	7.593	7.322	7.117	7.284	1.431	1.191	1.011	.873
1.160	1.727	1.450	1.239	1.411	7.798	7.522	7.310	7.483	1.509	1.265	1.080	.936
1.155	1.814	1.533	1.315	1.493	8.014	7.733	7.515	7.693	1.586	1.340	1.149	1.000
1.150	1.905	1.620	1.396	1.579	8.241	7.956	7.732	7.915	1.662	1.414	1.218	1.064
1.145	2.000	1.712	1.482	1.670	8.481	8.193	7.963	8.151	1.739	1.489	1.289	1.130
1.140	2.100	1.809	1.574	1.766	8.736	8.445	8.210	8.402	1.816	1.565	1.362	1.198
1.135	2.206	1.912	1.672	1.869	9.007	8.714	8.474	8.670	1.895	1.642	1.436	1.267
1.130	2.318	2.023	1.778	1.979	9.298	9.003	8.758	8.959	1.975	1.722	1.512	1.340
1.125	2.438	2.142	1.892	2.097	9.610	9.314	9.065	9.269	2.058	1.804	1.591	1.415
1.120	2.567	2.270	2.017	2.225	9.948	9.651	9.397	9.605	2.143	1.888	1.673	1.493
1.115	2.707	2.410	2.153	2.364	10.314	10.017	9.761	9.971	2.231	1.976	1.759	1.575
1.110	2.859	2.563	2.304	2.517	10.714	10.418	10.159	10.372	2.322	2.068	1.848	1.661
1.105	3.025	2.731	2.471	2.686	11.154	10.860	10.599	10.814	2.418	2.164	1.943	1.752
1.100	3.210	2.919	2.658	2.873	11.641	11.351	11.089	11.305	2.520	2.266	2.042	1.848
1.095	3.415	3.130	2.869	3.084	12.186	11.901	11.640	11.855	2.627	2.373	2.148	1.951
1.090	3.648	3.369	3.112	3.325	12.802	12.523	12.266	12.479	2.741	2.488	2.261	2.061
1.085	3.916	3.646	3.394	3.603	13.508	13.239	12.987	13.195	2.863	2.610	2.382	2.179
1.080	4.229	3.972	3.730	3.931	14.329	14.073	13.831	14.032	2.994	2.742	2.513	2.307
1.075	2.323	2.203	2.089	2.184	7.724	7.604	7.489	7.585	3.137	2.885	2.655	2.446
1.070	.951	.912	.874	.906	3.097	3.058	3.020	3.052	3.292	3.042	2.810	2.599
1.065	.543	.527	.512	.525	1.722	1.706	1.691	1.704	3.464	3.214	2.981	2.768
1.055	.210	.210	.210	.210	.420	.420	.420	.420	3.868	3.620	3.385	3.167
1.050	.214	.214	.214	.214	.427	.427	.427	.427	4.112	3.864	3.629	3.408
1.045	.217	.217	.217	.217	.434	.434	.434	.434	4.392	4.145	3.909	3.687
1.040	.221	.221	.221	.221	.442	.442	.442	.442	4.721	4.475	4.239	4.014
1.035	.225	.225	.225	.225	.451	.451	.451	.451	5.117	4.871	4.634	4.407
1.030	.230	.230	.230	.230	.460	.460	.460	.460	5.604	5.359	5.122	4.893
1.025	.235	.235	.235	.235	.470	.470	.470	.470	6.228	5.984	5.746	5.515
1.020	.240	.240	.240	.240	.481	.481	.481	.481	7.069	6.826	6.587	6.355
1.015	.247	.247	.247	.247	.493	.493	.493	.493	8.296	8.054	7.815	7.581
1.010	.254	.254	.254	.254	.508	.508	.508	.508	10.347	10.106	9.867	9.631

N= .8000 CUTOFF1=1.2500 CUTOFF2=1.0800 CUTOFF3=1.2019

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.245	.333	.251	.202	.242	5.108	5.026	4.977	5.017	0	0	0	0
1.240	.477	.363	.292	.349	5.317	5.203	5.132	5.189	0	0	0	0
1.235	.592	.453	.366	.436	5.499	5.360	5.273	5.343	0	0	0	0
1.230	.692	.534	.433	.514	5.670	5.511	5.410	5.491	0	0	0	0
1.225	.785	.609	.496	.587	5.835	5.659	5.546	5.637	0	0	0	0
1.220	.872	.682	.557	.658	5.998	5.808	5.683	5.783	0	0	0	0
1.215	.957	.753	.617	.727	6.161	5.958	5.822	5.931	0	0	0	0
1.210	1.039	.823	.678	.795	6.326	6.110	5.965	6.082	0	0	0	0
1.205	1.120	.894	.738	.864	6.493	6.267	6.112	6.237	0	0	0	0
1.200	1.201	.965	.800	.933	6.664	6.428	6.263	6.396	.305	.230	.185	.154
1.195	1.282	1.037	.864	1.004	6.839	6.594	6.421	6.561	.574	.440	.355	.298
1.190	1.364	1.110	.929	1.076	7.020	6.767	6.586	6.733	.749	.581	.473	.398
1.185	1.447	1.186	.997	1.150	7.208	6.947	6.758	6.911	.888	.697	.571	.482
1.180	1.532	1.265	1.067	1.228	7.402	7.135	6.938	7.098	1.007	.800	.660	.559
1.175	1.619	1.346	1.141	1.308	7.605	7.332	7.127	7.294	1.115	.895	.742	.632
1.170	1.709	1.431	1.219	1.391	7.818	7.539	7.327	7.500	1.213	.984	.821	.701
1.165	1.803	1.519	1.301	1.479	8.041	7.758	7.539	7.717	1.306	1.069	.897	.770
1.160	1.900	1.613	1.388	1.571	8.276	7.989	7.764	7.948	1.395	1.152	.972	.837
1.155	2.002	1.712	1.481	1.669	8.525	8.235	8.004	8.192	1.481	1.233	1.047	.905
1.150	2.110	1.816	1.580	1.773	8.790	8.497	8.260	8.453	1.566	1.314	1.121	.973
1.145	2.223	1.928	1.687	1.885	9.072	8.777	8.535	8.733	1.649	1.394	1.196	1.042
1.140	2.345	2.048	1.802	2.004	9.374	9.078	8.832	9.034	1.733	1.475	1.272	1.112
1.135	2.474	2.178	1.928	2.133	9.700	9.403	9.153	9.358	1.816	1.557	1.350	1.184
1.130	2.614	2.318	2.065	2.273	10.052	9.756	9.503	9.711	1.901	1.641	1.429	1.258
1.125	2.766	2.472	2.217	2.427	10.435	10.142	9.887	10.097	1.988	1.726	1.511	1.335
1.120	2.932	2.642	2.386	2.597	10.856	10.566	10.310	10.521	2.076	1.814	1.595	1.415
1.115	3.115	2.830	2.575	2.786	11.320	11.036	10.780	10.991	2.168	1.905	1.683	1.499
1.110	3.319	3.042	2.790	2.999	11.838	11.561	11.309	11.517	2.262	1.999	1.775	1.586
1.105	3.551	3.284	3.038	3.242	12.422	12.156	11.909	12.113	2.361	2.098	1.871	1.678
1.100	2.717	2.537	2.369	2.508	9.317	9.137	8.968	9.108	2.465	2.201	1.973	1.776
1.095	1.281	1.209	1.141	1.198	4.302	4.230	4.161	4.218	2.574	2.311	2.080	1.880
1.090	.798	.762	.727	.756	2.617	2.581	2.546	2.575	2.690	2.427	2.194	1.991
1.085	.540	.524	.507	.521	1.723	1.706	1.690	1.703	2.814	2.552	2.317	2.110
1.080	.261	.261	.261	.261	.521	.521	.521	.521	2.948	2.685	2.449	2.239
1.075	.264	.264	.264	.264	.528	.528	.528	.528	3.092	2.830	2.592	2.379
1.070	.268	.268	.268	.268	.536	.536	.536	.536	3.249	2.988	2.749	2.532
1.065	.272	.272	.272	.272	.544	.544	.544	.544	3.422	3.161	2.921	2.702
1.060	.276	.276	.276	.276	.552	.552	.552	.552	3.614	3.354	3.112	2.890
1.055	.280	.280	.280	.280	.560	.560	.560	.560	3.829	3.570	3.327	3.103
1.050	.285	.285	.285	.285	.570	.570	.570	.570	4.073	3.815	3.572	3.344
1.045	.290	.290	.290	.290	.579	.579	.579	.579	4.355	4.098	3.853	3.623
1.040	.295	.295	.295	.295	.590	.590	.590	.590	4.685	4.429	4.184	3.951
1.035	.300	.300	.300	.300	.601	.601	.601	.601	5.081	4.826	4.580	4.345
1.030	.306	.306	.306	.306	.613	.613	.613	.613	5.570	5.315	5.068	4.831
1.025	.313	.313	.313	.313	.626	.626	.626	.626	6.194	5.940	5.693	5.454
1.020	.320	.320	.320	.320	.641	.641	.641	.641	7.036	6.783	6.535	6.294
1.015	.329	.329	.329	.329	.657	.657	.657	.657	8.264	8.012	7.764	7.520
1.010	.339	.339	.339	.339	.677	.677	.677	.677	10.316	10.065	9.816	9.571

N= .8000 CUTOFF1=1.2500 CUTOFF2=1.1000 CUTOFF3=1.1905

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.245	.358	.271	.217	.260	5.292	5.205	5.151	5.194	0	0	0	0
1.240	.514	.391	.315	.376	5.518	5.396	5.320	5.381	0	0	0	0
1.235	.638	.490	.396	.471	5.716	5.568	5.474	5.549	0	0	0	0
1.230	.748	.578	.470	.557	5.902	5.733	5.624	5.711	0	0	0	0
1.225	.850	.662	.539	.638	6.083	5.896	5.773	5.872	0	0	0	0
1.220	.946	.742	.608	.716	6.263	6.059	5.925	6.033	0	0	0	0
1.215	1.039	.821	.675	.793	6.443	6.225	6.079	6.197	0	0	0	0
1.210	1.130	.900	.743	.870	6.625	6.395	6.238	6.365	0	0	0	0
1.205	1.221	.980	.813	.948	6.811	6.570	6.403	6.538	0	0	0	0
1.200	1.312	1.061	.884	1.027	7.002	6.751	6.574	6.717	0	0	0	0
1.195	1.403	1.144	.957	1.108	7.199	6.939	6.753	6.904	0	0	0	0
1.190	1.497	1.229	1.034	1.192	7.403	7.136	6.940	7.099	.160	.120	.096	.080
1.185	1.592	1.318	1.114	1.279	7.616	7.341	7.138	7.303	.538	.410	.331	.277
1.180	1.690	1.410	1.198	1.370	7.838	7.557	7.346	7.518	.739	.572	.465	.390
1.175	1.792	1.506	1.287	1.466	8.071	7.786	7.566	7.745	.894	.701	.573	.484
1.170	1.898	1.608	1.382	1.567	8.317	8.027	7.801	7.986	1.025	.813	.670	.568
1.165	2.009	1.716	1.484	1.674	8.578	8.285	8.052	8.242	1.142	.916	.760	.646
1.160	2.126	1.831	1.593	1.788	8.854	8.559	8.321	8.516	1.250	1.013	.845	.722
1.155	2.250	1.954	1.711	1.910	9.150	8.854	8.610	8.810	1.351	1.105	.928	.795
1.150	2.383	2.087	1.839	2.042	9.468	9.171	8.924	9.127	1.447	1.195	1.009	.869
1.145	2.525	2.231	1.980	2.186	9.810	9.516	9.265	9.471	1.540	1.283	1.090	.942
1.140	2.680	2.388	2.136	2.343	10.183	9.891	9.639	9.847	1.632	1.371	1.171	1.016
1.135	2.848	2.562	2.310	2.518	10.590	10.304	10.052	10.259	1.723	1.459	1.253	1.091
1.130	3.034	2.756	2.506	2.712	11.039	10.761	10.511	10.717	1.814	1.547	1.336	1.169
1.125	3.059	2.806	2.576	2.766	10.885	10.633	10.402	10.593	1.906	1.637	1.421	1.248
1.120	1.576	1.461	1.355	1.443	5.483	5.368	5.262	5.350	2.000	1.729	1.509	1.330
1.115	1.032	.969	.908	.958	3.506	3.443	3.383	3.432	2.095	1.824	1.600	1.416
1.110	.741	.705	.670	.699	2.453	2.416	2.381	2.410	2.194	1.922	1.694	1.505
1.105	.548	.529	.511	.526	1.757	1.739	1.721	1.736	2.296	2.023	1.792	1.599
1.100	.310	.310	.310	.310	.619	.619	.619	.619	2.403	2.130	1.896	1.698
1.095	.313	.313	.313	.313	.627	.627	.627	.627	2.515	2.242	2.006	1.803
1.090	.317	.317	.317	.317	.635	.635	.635	.635	2.634	2.361	2.122	1.915
1.085	.321	.321	.321	.321	.643	.643	.643	.643	2.760	2.487	2.246	2.036
1.080	.326	.326	.326	.326	.651	.651	.651	.651	2.896	2.623	2.380	2.166
1.075	.330	.330	.330	.330	.660	.660	.660	.660	3.042	2.770	2.525	2.307
1.070	.335	.335	.335	.335	.670	.670	.670	.670	3.201	2.929	2.682	2.461
1.065	.340	.340	.340	.340	.679	.679	.679	.679	3.376	3.104	2.856	2.631
1.060	.345	.345	.345	.345	.690	.690	.690	.690	3.569	3.299	3.049	2.821
1.055	.350	.350	.350	.350	.701	.701	.701	.701	3.786	3.516	3.265	3.034
1.050	.356	.356	.356	.356	.712	.712	.712	.712	4.032	3.763	3.510	3.276
1.045	.362	.362	.362	.362	.724	.724	.724	.724	4.315	4.046	3.793	3.556
1.040	.369	.369	.369	.369	.737	.737	.737	.737	4.646	4.379	4.124	3.884
1.035	.375	.375	.375	.375	.751	.751	.751	.751	5.043	4.777	4.521	4.279
1.030	.383	.383	.383	.383	.766	.766	.766	.766	5.533	5.267	5.011	4.765
1.025	.391	.391	.391	.391	.783	.783	.783	.783	6.158	5.894	5.637	5.388
1.020	.400	.400	.400	.400	.801	.801	.801	.801	7.001	6.737	6.480	6.229
1.015	.411	.411	.411	.411	.822	.822	.822	.822	8.230	7.967	7.709	7.456
1.010	.423	.423	.423	.423	.847	.847	.847	.847	10.283	10.021	9.762	9.507

N= .8000 CUTOFF1=1.2500 CUTOFF2=1.1200 CUTOFF3=1.1792

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.245	.390	.295	.237	.283	5.496	5.401	5.343	5.390	0	0	0	0
1.240	.560	.427	.344	.411	5.743	5.610	5.528	5.594	0	0	0	0
1.235	.697	.536	.434	.516	5.960	5.800	5.698	5.780	0	0	0	0
1.230	.818	.635	.516	.611	6.166	5.982	5.864	5.959	0	0	0	0
1.225	.931	.728	.595	.702	6.366	6.163	6.030	6.137	0	0	0	0
1.220	1.038	.819	.672	.791	6.566	6.346	6.200	6.318	0	0	0	0
1.215	1.143	.909	.750	.879	6.767	6.533	6.374	6.502	0	0	0	0
1.210	1.247	1.000	.829	.968	6.972	6.725	6.554	6.692	0	0	0	0
1.205	1.350	1.093	.911	1.058	7.182	6.924	6.742	6.890	0	0	0	0
1.200	1.454	1.187	.995	1.151	7.398	7.131	6.939	7.095	0	0	0	0
1.195	1.561	1.285	1.083	1.247	7.624	7.348	7.146	7.310	0	0	0	0
1.190	1.670	1.387	1.176	1.348	7.859	7.576	7.365	7.537	0	0	0	0
1.185	1.782	1.494	1.275	1.453	8.105	7.817	7.597	7.776	0	0	0	0
1.180	1.900	1.607	1.380	1.565	8.365	8.072	7.845	8.030	0	0	0	0
1.175	2.023	1.727	1.493	1.684	8.640	8.345	8.110	8.302	.500	.380	.306	.256
1.170	2.152	1.856	1.615	1.812	8.933	8.636	8.396	8.592	.733	.566	.459	.385
1.165	2.290	1.994	1.749	1.950	9.247	8.950	8.705	8.906	.905	.708	.579	.488
1.160	2.439	2.144	1.896	2.100	9.585	9.290	9.042	9.246	1.050	.832	.684	.580
1.155	2.599	2.309	2.060	2.265	9.951	9.661	9.412	9.617	1.177	.944	.782	.665
1.150	2.774	2.491	2.243	2.448	10.352	10.069	9.821	10.026	1.294	1.049	.875	.747
1.145	1.827	1.660	1.509	1.633	6.644	6.477	6.327	6.451	1.403	1.149	.964	.827
1.140	1.239	1.140	1.048	1.124	4.391	4.291	4.199	4.275	1.508	1.247	1.053	.907
1.135	.920	.857	.798	.847	3.172	3.109	3.051	3.099	1.610	1.343	1.141	.987
1.130	.713	.674	.637	.668	2.386	2.347	2.310	2.341	1.710	1.438	1.230	1.068
1.125	.558	.537	.517	.533	1.801	1.780	1.760	1.777	1.810	1.535	1.320	1.151
1.115	.359	.359	.359	.359	.717	.717	.717	.717	2.011	1.732	1.506	1.324
1.110	.363	.363	.363	.363	.726	.726	.726	.726	2.115	1.834	1.603	1.416
1.105	.367	.367	.367	.367	.734	.734	.734	.734	2.222	1.939	1.705	1.512
1.100	.371	.371	.371	.371	.743	.743	.743	.743	2.333	2.050	1.811	1.613
1.095	.376	.376	.376	.376	.752	.752	.752	.752	2.449	2.165	1.923	1.720
1.090	.381	.381	.381	.381	.762	.762	.762	.762	2.571	2.287	2.042	1.833
1.085	.386	.386	.386	.386	.771	.771	.771	.771	2.700	2.416	2.168	1.955
1.080	.391	.391	.391	.391	.782	.782	.782	.782	2.838	2.554	2.304	2.086
1.075	.396	.396	.396	.396	.792	.792	.792	.792	2.987	2.703	2.451	2.229
1.070	.402	.402	.402	.402	.804	.804	.804	.804	3.148	2.865	2.610	2.384
1.065	.408	.408	.408	.408	.815	.815	.815	.815	3.325	3.042	2.785	2.555
1.060	.414	.414	.414	.414	.828	.828	.828	.828	3.520	3.238	2.980	2.746
1.055	.420	.420	.420	.420	.841	.841	.841	.841	3.739	3.457	3.197	2.959
1.050	.427	.427	.427	.427	.854	.854	.854	.854	3.986	3.705	3.444	3.202
1.045	.434	.434	.434	.434	.869	.869	.869	.869	4.271	3.991	3.728	3.483
1.040	.442	.442	.442	.442	.884	.884	.884	.884	4.604	4.325	4.060	3.812
1.035	.451	.451	.451	.451	.901	.901	.901	.901	5.002	4.724	4.459	4.207
1.030	.460	.460	.460	.460	.919	.919	.919	.919	5.493	5.216	4.949	4.695
1.025	.470	.470	.470	.470	.939	.939	.939	.939	6.120	5.843	5.576	5.318
1.020	.481	.481	.481	.481	.961	.961	.961	.961	6.964	6.688	6.420	6.159
1.015	.493	.493	.493	.493	.986	.986	.986	.986	8.194	7.919	7.650	7.387
1.010	.508	.508	.508	.508	1.016	1.016	1.016	1.016	10.248	9.974	9.704	9.438

N= .8500 CUTOFF1=1.1765 CUTOFF2=1.0200 CUTOFF3=1.1648

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.173	.364	.275	.221	.264	5.685	5.596	5.541	5.585	0	0	0	0
1.169	.519	.394	.318	.379	5.903	5.778	5.701	5.763	0	0	0	0
1.166	.641	.490	.396	.472	6.089	5.939	5.845	5.920	0	0	0	0
1.162	.747	.575	.466	.553	6.262	6.091	5.982	6.069	.411	.311	.250	.209
1.159	.842	.653	.531	.629	6.428	6.238	6.116	6.214	.637	.488	.394	.330
1.155	.931	.726	.592	.700	6.589	6.384	6.250	6.358	.800	.619	.503	.423
1.152	1.016	.797	.652	.769	6.748	6.529	6.385	6.501	.934	.730	.596	.503
1.148	1.098	.866	.711	.836	6.908	6.676	6.521	6.646	1.051	.829	.681	.576
1.145	1.177	.935	.770	.903	7.067	6.825	6.660	6.793	1.156	.921	.760	.645
1.141	1.255	1.003	.829	.969	7.229	6.976	6.803	6.943	1.254	1.007	.836	.711
1.138	1.332	1.070	.888	1.035	7.393	7.131	6.949	7.096	1.346	1.090	.909	.776
1.134	1.409	1.139	.948	1.102	7.561	7.290	7.100	7.254	1.434	1.170	.980	.840
1.131	1.486	1.208	1.009	1.170	7.732	7.454	7.255	7.416	1.519	1.249	1.051	.903
1.127	1.563	1.278	1.071	1.238	7.908	7.623	7.416	7.584	1.601	1.326	1.121	.966
1.124	1.641	1.349	1.135	1.309	8.090	7.797	7.584	7.757	1.682	1.402	1.191	1.030
1.120	1.721	1.422	1.201	1.380	8.277	7.979	7.758	7.937	1.762	1.479	1.262	1.094
1.116	1.801	1.497	1.269	1.454	8.471	8.167	7.939	8.124	1.842	1.555	1.333	1.160
1.113	1.884	1.574	1.340	1.531	8.673	8.364	8.129	8.320	1.922	1.633	1.406	1.227
1.109	1.969	1.654	1.413	1.610	8.883	8.569	8.328	8.524	2.003	1.711	1.479	1.295
1.106	2.056	1.737	1.490	1.692	9.103	8.784	8.536	8.738	2.084	1.791	1.555	1.366
1.102	2.147	1.824	1.570	1.777	9.333	9.010	8.756	8.963	2.167	1.872	1.632	1.438
1.099	2.241	1.914	1.654	1.866	9.575	9.248	8.988	9.200	2.251	1.955	1.712	1.513
1.095	2.339	2.008	1.743	1.960	9.830	9.499	9.234	9.451	2.338	2.041	1.794	1.591
1.092	2.442	2.108	1.837	2.059	10.100	9.765	9.494	9.716	2.427	2.130	1.880	1.672
1.088	2.550	2.213	1.936	2.163	10.385	10.048	9.772	9.998	2.520	2.222	1.969	1.757
1.085	2.664	2.324	2.042	2.273	10.689	10.350	10.068	10.299	2.616	2.317	2.062	1.846
1.081	2.784	2.442	2.156	2.391	11.014	10.672	10.385	10.621	2.716	2.417	2.159	1.939
1.078	2.913	2.569	2.278	2.517	11.362	11.018	10.727	10.966	2.821	2.522	2.262	2.038
1.074	3.050	2.705	2.409	2.652	11.737	11.392	11.096	11.339	2.932	2.633	2.370	2.142
1.071	3.198	2.851	2.551	2.798	12.143	11.796	11.496	11.743	3.049	2.750	2.485	2.254
1.067	3.358	3.011	2.706	2.957	12.585	12.237	11.933	12.183	3.173	2.874	2.607	2.373
1.064	3.532	3.184	2.877	3.130	13.068	12.720	12.412	12.666	3.305	3.007	2.738	2.500
1.060	3.723	3.376	3.065	3.321	13.600	13.252	12.942	13.198	3.447	3.149	2.879	2.638
1.056	3.935	3.588	3.274	3.533	14.191	13.844	13.530	13.789	3.601	3.303	3.032	2.787
1.053	4.170	3.825	3.510	3.770	14.852	14.507	14.191	14.452	3.768	3.471	3.197	2.950
1.049	4.436	4.093	3.777	4.038	15.600	15.257	14.941	15.202	3.951	3.654	3.379	3.128
1.046	4.740	4.401	4.084	4.346	16.457	16.117	15.801	16.063	4.152	3.856	3.580	3.326
1.042	5.093	4.758	4.444	4.704	17.452	17.117	16.802	17.063	4.377	4.081	3.804	3.547
1.039	5.510	5.182	4.871	5.129	18.628	18.301	17.990	18.248	4.629	4.334	4.056	3.796
1.035	6.015	5.698	5.393	5.646	20.052	19.735	19.430	19.683	4.917	4.622	4.342	4.080
1.032	6.647	6.344	6.051	6.295	21.829	21.526	21.234	21.477	5.248	4.954	4.674	4.408
1.028	7.474	7.195	6.922	7.149	24.143	23.864	23.591	23.818	5.638	5.345	5.063	4.795
1.025	1.067	1.037	1.008	1.033	3.379	3.350	3.321	3.345	6.106	5.814	5.531	5.261
1.021	.278	.274	.270	.273	.855	.851	.847	.851	6.684	6.392	6.109	5.836
1.018	.081	.081	.081	.081	.162	.162	.162	.162	7.424	7.133	6.849	6.573
1.014	.083	.083	.083	.083	.165	.165	.165	.165	8.423	8.133	7.848	7.570
1.011	.084	.084	.084	.084	.169	.169	.169	.169	9.881	9.592	9.306	9.026
1.007	.086	.086	.086	.086	.173	.173	.173	.173	12.320	12.031	11.745	11.462

N= .8500 CUTOFF1=1.1765 CUTOFF2=1.0400 CUTOFF3=1.1534

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI	RHO= 0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.173	.396	.299	.240	.288	5.931	5.834	5.775	5.822	0	0	0	0
1.169	.565	.430	.346	.413	6.170	6.035	5.951	6.018	0	0	0	0
1.166	.699	.535	.433	.515	6.375	6.212	6.109	6.192	0	0	0	0
1.162	.815	.629	.510	.605	6.566	6.380	6.261	6.357	0	0	0	0
1.159	.920	.715	.582	.689	6.749	6.544	6.411	6.518	0	0	0	0
1.155	1.019	.797	.652	.769	6.928	6.707	6.561	6.678	0	0	0	0
1.152	1.113	.877	.719	.846	7.106	6.870	6.713	6.840	.357	.269	.216	.180
1.148	1.204	.955	.786	.922	7.284	7.035	6.867	7.003	.630	.482	.389	.325
1.145	1.293	1.032	.853	.998	7.464	7.203	7.024	7.169	.815	.630	.511	.429
1.141	1.381	1.110	.921	1.074	7.647	7.375	7.187	7.339	.964	.753	.615	.518
1.138	1.468	1.188	.989	1.150	7.833	7.552	7.354	7.514	1.092	.862	.708	.599
1.134	1.556	1.266	1.059	1.227	8.023	7.734	7.527	7.695	1.208	.963	.795	.674
1.131	1.643	1.346	1.131	1.306	8.220	7.923	7.707	7.882	1.316	1.058	.878	.747
1.127	1.732	1.428	1.204	1.386	8.422	8.118	7.894	8.076	1.416	1.148	.958	.818
1.124	1.823	1.512	1.281	1.469	8.632	8.321	8.090	8.278	1.513	1.236	1.037	.889
1.120	1.916	1.599	1.360	1.555	8.850	8.534	8.294	8.489	1.606	1.323	1.115	.959
1.116	2.011	1.689	1.442	1.643	9.077	8.756	8.509	8.710	1.697	1.408	1.193	1.029
1.113	2.108	1.782	1.529	1.735	9.315	8.989	8.735	8.942	1.786	1.493	1.271	1.100
1.109	2.210	1.880	1.620	1.832	9.564	9.234	8.974	9.186	1.875	1.578	1.349	1.172
1.106	2.315	1.981	1.715	1.933	9.827	9.493	9.227	9.444	1.964	1.664	1.429	1.246
1.102	2.426	2.089	1.817	2.039	10.104	9.767	9.495	9.718	2.054	1.750	1.511	1.321
1.099	2.541	2.202	1.924	2.151	10.398	10.058	9.781	10.008	2.144	1.839	1.594	1.399
1.095	2.663	2.322	2.039	2.271	10.711	10.369	10.086	10.318	2.236	1.929	1.680	1.479
1.092	2.792	2.450	2.162	2.398	11.044	10.702	10.414	10.650	2.331	2.022	1.769	1.562
1.088	2.930	2.586	2.295	2.534	11.402	11.059	10.767	11.007	2.428	2.118	1.861	1.649
1.085	3.077	2.734	2.438	2.681	11.788	11.445	11.149	11.392	2.528	2.217	1.956	1.740
1.081	3.236	2.893	2.594	2.840	12.206	11.863	11.565	11.810	2.632	2.320	2.056	1.835
1.078	3.408	3.066	2.766	3.014	12.662	12.320	12.019	12.267	2.740	2.428	2.161	1.935
1.074	3.596	3.257	2.955	3.204	13.161	12.822	12.520	12.769	2.854	2.541	2.272	2.041
1.071	3.803	3.467	3.165	3.415	13.712	13.377	13.074	13.324	2.974	2.661	2.389	2.154
1.067	4.032	3.702	3.401	3.650	14.326	13.996	13.694	13.944	3.101	2.788	2.513	2.274
1.064	4.291	3.968	3.669	3.916	15.016	14.693	14.395	14.642	3.236	2.923	2.646	2.402
1.060	4.585	4.271	3.978	4.221	15.802	15.489	15.195	15.438	3.380	3.068	2.788	2.541
1.056	4.925	4.625	4.340	4.576	16.710	16.409	16.124	16.360	3.536	3.224	2.942	2.691
1.053	5.328	5.044	4.773	4.998	17.777	17.493	17.222	17.447	3.705	3.393	3.110	2.855
1.049	1.495	1.428	1.364	1.418	4.899	4.833	4.768	4.822	3.890	3.578	3.293	3.034
1.046	.673	.650	.627	.646	2.162	2.139	2.116	2.135	4.093	3.782	3.495	3.233
1.042	.384	.376	.368	.374	1.200	1.191	1.183	1.190	4.319	4.009	3.720	3.455
1.039	.148	.148	.148	.148	.296	.296	.296	.296	4.573	4.263	3.973	3.704
1.035	.150	.150	.150	.150	.300	.300	.300	.300	4.862	4.553	4.261	3.989
1.032	.152	.152	.152	.152	.304	.304	.304	.304	5.195	4.887	4.594	4.318
1.028	.154	.154	.154	.154	.309	.309	.309	.309	5.587	5.279	4.985	4.706
1.025	.157	.157	.157	.157	.313	.313	.313	.313	6.056	5.749	5.454	5.172
1.021	.159	.159	.159	.159	.319	.319	.319	.319	6.635	6.329	6.032	5.748
1.018	.162	.162	.162	.162	.324	.324	.324	.324	7.377	7.071	6.773	6.486
1.014	.165	.165	.165	.165	.330	.330	.330	.330	8.376	8.072	7.773	7.482
1.011	.169	.169	.169	.169	.337	.337	.337	.337	9.836	9.532	9.232	8.939
1.007	.173	.173	.173	.173	.346	.346	.346	.346	12.276	11.972	11.672	11.376

N= .8500 CUTOFF1=1.1765 CUTOFF2=1.0600 CUTOFF3=1.1427

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.173	.437	.330	.265	.317	6.208	6.102	6.037	6.089	0	0	0	0
1.169	.624	.476	.383	.457	6.473	6.325	6.233	6.306	0	0	0	0
1.166	.772	.593	.480	.571	6.702	6.523	6.410	6.501	0	0	0	0
1.162	.902	.698	.568	.673	6.915	6.712	6.581	6.686	0	0	0	0
1.159	1.020	.796	.650	.768	7.121	6.897	6.751	6.869	0	0	0	0
1.155	1.131	.890	.729	.859	7.323	7.082	6.921	7.051	0	0	0	0
1.152	1.238	.981	.807	.947	7.525	7.268	7.094	7.234	0	0	0	0
1.148	1.341	1.071	.885	1.035	7.727	7.457	7.272	7.422	0	0	0	0
1.145	1.443	1.161	.964	1.123	7.933	7.651	7.454	7.613	0	0	0	0
1.141	1.544	1.252	1.044	1.212	8.143	7.850	7.643	7.811	.302	.228	.182	.152
1.138	1.645	1.344	1.126	1.302	8.358	8.056	7.838	8.015	.633	.483	.390	.326
1.134	1.747	1.437	1.210	1.395	8.579	8.269	8.042	8.227	.841	.649	.527	.443
1.131	1.851	1.534	1.297	1.489	8.809	8.492	8.256	8.447	1.005	.786	.641	.541
1.127	1.956	1.633	1.388	1.587	9.047	8.724	8.479	8.678	1.147	.906	.744	.629
1.124	2.065	1.736	1.483	1.689	9.296	8.967	8.715	8.920	1.274	1.017	.840	.713
1.120	2.176	1.843	1.583	1.795	9.557	9.223	8.963	9.175	1.392	1.121	.931	.793
1.116	2.292	1.955	1.688	1.906	9.830	9.493	9.226	9.444	1.503	1.221	1.020	.872
1.113	2.413	2.073	1.800	2.023	10.119	9.779	9.506	9.730	1.609	1.318	1.107	.950
1.109	2.540	2.198	1.919	2.147	10.426	10.084	9.805	10.033	1.712	1.414	1.194	1.028
1.106	2.673	2.330	2.046	2.279	10.751	10.408	10.125	10.357	1.813	1.509	1.281	1.107
1.102	2.814	2.472	2.184	2.420	11.099	10.757	10.469	10.705	1.912	1.604	1.368	1.187
1.099	2.965	2.624	2.332	2.572	11.473	11.132	10.840	11.080	2.012	1.700	1.457	1.268
1.095	3.127	2.788	2.494	2.736	11.877	11.538	11.244	11.486	2.112	1.796	1.548	1.352
1.092	3.302	2.967	2.672	2.915	12.316	11.980	11.685	11.928	2.214	1.895	1.641	1.438
1.088	3.493	3.163	2.868	3.111	12.795	12.465	12.170	12.413	2.317	1.996	1.737	1.528
1.085	3.703	3.380	3.088	3.329	13.323	13.000	12.708	12.949	2.423	2.100	1.836	1.621
1.081	3.936	3.623	3.336	3.574	13.910	13.597	13.310	13.547	2.532	2.208	1.939	1.718
1.078	4.199	3.899	3.620	3.851	14.570	14.270	13.991	14.222	2.645	2.320	2.047	1.821
1.074	1.806	1.693	1.586	1.675	6.150	6.037	5.930	6.019	2.763	2.437	2.160	1.928
1.071	.997	.944	.893	.935	3.326	3.273	3.222	3.265	2.887	2.560	2.280	2.043
1.067	.657	.629	.602	.625	2.145	2.117	2.090	2.112	3.017	2.690	2.407	2.164
1.064	.459	.445	.432	.443	1.457	1.444	1.431	1.442	3.155	2.828	2.542	2.295
1.056	.209	.209	.209	.209	.418	.418	.418	.418	3.462	3.134	2.843	2.586
1.053	.212	.212	.212	.212	.423	.423	.423	.423	3.634	3.306	3.012	2.751
1.049	.214	.214	.214	.214	.428	.428	.428	.428	3.821	3.494	3.197	2.931
1.046	.217	.217	.217	.217	.433	.433	.433	.433	4.026	3.700	3.401	3.131
1.042	.219	.219	.219	.219	.438	.438	.438	.438	4.255	3.929	3.628	3.354
1.039	.222	.222	.222	.222	.444	.444	.444	.444	4.511	4.185	3.882	3.604
1.035	.225	.225	.225	.225	.450	.450	.450	.450	4.801	4.476	4.172	3.890
1.032	.228	.228	.228	.228	.456	.456	.456	.456	5.136	4.812	4.506	4.220
1.028	.231	.231	.231	.231	.463	.463	.463	.463	5.529	5.206	4.898	4.608
1.025	.235	.235	.235	.235	.470	.470	.470	.470	6.000	5.677	5.368	5.075
1.021	.239	.239	.239	.239	.478	.478	.478	.478	6.581	6.259	5.948	5.651
1.018	.243	.243	.243	.243	.486	.486	.486	.486	7.324	7.002	6.690	6.390
1.014	.248	.248	.248	.248	.496	.496	.496	.496	8.325	8.004	7.691	7.387
1.011	.253	.253	.253	.253	.506	.506	.506	.506	9.786	9.466	9.152	8.844
1.007	.259	.259	.259	.259	.519	.519	.519	.519	12.227	11.908	11.592	11.281

N= .8500 CUTOFF1=1.1765 CUTOFF2=1.0800 CUTOFF3=1.1317

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.173	.491	.371	.298	.357	6.526	6.407	6.334	6.393	0	0	0	0
1.169	.702	.536	.433	.516	6.825	6.660	6.556	6.639	0	0	0	0
1.166	.870	.671	.544	.646	7.085	6.886	6.759	6.861	0	0	0	0
1.162	1.017	.792	.645	.763	7.328	7.102	6.956	7.073	0	0	0	0
1.159	1.153	.905	.742	.874	7.563	7.315	7.152	7.284	0	0	0	0
1.155	1.281	1.015	.836	.980	7.795	7.529	7.350	7.495	0	0	0	0
1.152	1.405	1.123	.929	1.086	8.028	7.747	7.553	7.709	0	0	0	0
1.148	1.526	1.231	1.024	1.191	8.264	7.969	7.762	7.929	0	0	0	0
1.145	1.646	1.339	1.120	1.298	8.505	8.198	7.979	8.156	0	0	0	0
1.141	1.766	1.450	1.219	1.406	8.752	8.435	8.205	8.392	0	0	0	0
1.138	1.887	1.563	1.322	1.518	9.007	8.683	8.442	8.638	0	0	0	0
1.134	2.011	1.680	1.429	1.633	9.273	8.941	8.691	8.895	0	0	0	0
1.131	2.138	1.801	1.542	1.753	9.550	9.213	8.954	9.165	.255	.192	.154	.128
1.127	2.269	1.928	1.661	1.879	9.841	9.500	9.233	9.451	.650	.496	.400	.335
1.124	2.405	2.062	1.788	2.012	10.147	9.804	9.530	9.754	.881	.681	.553	.464
1.120	2.548	2.204	1.924	2.153	10.472	10.128	9.848	10.077	1.063	.831	.679	.573
1.116	2.698	2.355	2.070	2.303	10.818	10.474	10.189	10.423	1.218	.964	.792	.670
1.113	2.858	2.517	2.229	2.465	11.188	10.847	10.559	10.795	1.358	1.086	.898	.763
1.109	3.029	2.692	2.402	2.641	11.587	11.250	10.960	11.199	1.487	1.201	.999	.852
1.106	3.214	2.883	2.594	2.832	12.019	11.689	11.400	11.638	1.610	1.312	1.098	.940
1.102	3.415	3.094	2.807	3.044	12.492	12.171	11.884	12.121	1.727	1.420	1.195	1.027
1.099	2.029	1.857	1.701	1.830	7.260	7.087	6.931	7.060	1.842	1.527	1.293	1.115
1.095	1.252	1.158	1.071	1.143	4.381	4.287	4.200	4.272	1.954	1.634	1.391	1.204
1.092	.887	.829	.776	.820	3.030	2.972	2.919	2.963	2.067	1.741	1.490	1.295
1.088	.668	.633	.599	.627	2.226	2.191	2.157	2.185	2.180	1.850	1.592	1.389
1.085	.515	.495	.476	.492	1.667	1.647	1.628	1.644	2.294	1.961	1.696	1.485
1.081	.384	.377	.370	.376	1.194	1.187	1.180	1.186	2.411	2.075	1.804	1.586
1.078	.262	.262	.262	.262	.524	.524	.524	.524	2.530	2.192	1.916	1.691
1.074	.265	.265	.265	.265	.530	.530	.530	.530	2.654	2.315	2.033	1.802
1.071	.267	.267	.267	.267	.535	.535	.535	.535	2.783	2.442	2.156	1.918
1.067	.270	.270	.270	.270	.540	.540	.540	.540	2.919	2.577	2.286	2.042
1.064	.273	.273	.273	.273	.546	.546	.546	.546	3.062	2.719	2.424	2.174
1.060	.276	.276	.276	.276	.552	.552	.552	.552	3.214	2.870	2.572	2.316
1.056	.279	.279	.279	.279	.558	.558	.558	.558	3.376	3.032	2.731	2.469
1.053	.282	.282	.282	.282	.564	.564	.564	.564	3.551	3.207	2.902	2.635
1.049	.285	.285	.285	.285	.571	.571	.571	.571	3.741	3.398	3.090	2.817
1.046	.289	.289	.289	.289	.577	.577	.577	.577	3.950	3.607	3.296	3.018
1.042	.292	.292	.292	.292	.585	.585	.585	.585	4.181	3.838	3.525	3.242
1.039	.296	.296	.296	.296	.592	.592	.592	.592	4.440	4.097	3.781	3.494
1.035	.300	.300	.300	.300	.600	.600	.600	.600	4.733	4.391	4.072	3.780
1.032	.304	.304	.304	.304	.608	.608	.608	.608	5.070	4.728	4.408	4.111
1.028	.309	.309	.309	.309	.617	.617	.617	.617	5.465	5.124	4.802	4.500
1.025	.313	.313	.313	.313	.627	.627	.627	.627	5.938	5.598	5.274	4.968
1.021	.319	.319	.319	.319	.637	.637	.637	.637	6.521	6.181	5.855	5.545
1.018	.324	.324	.324	.324	.648	.648	.648	.648	7.265	6.926	6.599	6.284
1.014	.330	.330	.330	.330	.661	.661	.661	.661	8.268	7.930	7.601	7.282
1.011	.337	.337	.337	.337	.675	.675	.675	.675	9.730	9.393	9.063	8.740
1.007	.346	.346	.346	.346	.691	.691	.691	.691	12.173	11.836	11.505	11.178

N= .8500 CUTOFF1=1.1765 CUTOFF2=1.1000 CUTOFF3=1.1204

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI	RHO= 0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.173	.566	.429	.345	.412	6.901	6.765	6.681	6.748	0	0	0	0
1.169	.810	.622	.503	.598	7.247	7.058	6.939	7.034	0	0	0	0
1.166	1.007	.781	.635	.752	7.548	7.322	7.177	7.294	0	0	0	0
1.162	1.180	.926	.757	.893	7.831	7.577	7.409	7.544	0	0	0	0
1.159	1.340	1.063	.875	1.027	8.108	7.831	7.643	7.794	0	0	0	0
1.155	1.494	1.198	.992	1.158	8.383	8.087	7.882	8.048	0	0	0	0
1.152	1.643	1.332	1.111	1.290	8.661	8.350	8.129	8.307	0	0	0	0
1.148	1.791	1.467	1.233	1.423	8.944	8.621	8.386	8.577	0	0	0	0
1.145	1.939	1.606	1.359	1.560	9.236	8.904	8.656	8.857	0	0	0	0
1.141	2.090	1.750	1.492	1.702	9.540	9.200	8.942	9.152	0	0	0	0
1.138	2.244	1.900	1.632	1.851	9.857	9.513	9.245	9.463	0	0	0	0
1.134	2.404	2.058	1.782	2.008	10.191	9.845	9.569	9.794	0	0	0	0
1.131	2.572	2.226	1.945	2.175	10.544	10.199	9.917	10.148	0	0	0	0
1.127	2.749	2.407	2.121	2.356	10.922	10.580	10.295	10.529	0	0	0	0
1.124	2.137	1.894	1.685	1.857	8.242	7.998	7.790	7.961	0	0	0	0
1.120	1.423	1.276	1.147	1.253	5.330	5.183	5.054	5.160	.232	.174	.139	.116
1.116	1.058	.961	.874	.946	3.852	3.755	3.667	3.739	.687	.524	.422	.354
1.113	.833	.767	.706	.756	2.945	2.879	2.818	2.868	.941	.728	.591	.497
1.109	.676	.631	.589	.624	2.319	2.274	2.232	2.267	1.140	.893	.730	.616
1.106	.555	.527	.500	.522	1.843	1.814	1.787	1.810	1.311	1.039	.855	.724
1.102	.449	.435	.421	.433	1.431	1.417	1.404	1.415	1.464	1.174	.972	.827
1.099	.310	.310	.310	.310	.621	.621	.621	.621	1.607	1.302	1.085	.927
1.095	.313	.313	.313	.313	.626	.626	.626	.626	1.743	1.426	1.196	1.026
1.092	.316	.316	.316	.316	.632	.632	.632	.632	1.874	1.547	1.306	1.125
1.088	.319	.319	.319	.319	.638	.638	.638	.638	2.002	1.668	1.417	1.225
1.085	.322	.322	.322	.322	.643	.643	.643	.643	2.130	1.790	1.529	1.327
1.081	.325	.325	.325	.325	.649	.649	.649	.649	2.258	1.913	1.644	1.433
1.078	.328	.328	.328	.328	.656	.656	.656	.656	2.388	2.039	1.762	1.542
1.074	.331	.331	.331	.331	.662	.662	.662	.662	2.521	2.169	1.885	1.656
1.071	.334	.334	.334	.334	.669	.669	.669	.669	2.658	2.303	2.013	1.776
1.067	.338	.338	.338	.338	.675	.675	.675	.675	2.801	2.443	2.147	1.903
1.064	.341	.341	.341	.341	.682	.682	.682	.682	2.950	2.591	2.289	2.038
1.060	.345	.345	.345	.345	.690	.690	.690	.690	3.107	2.747	2.441	2.182
1.056	.349	.349	.349	.349	.697	.697	.697	.697	3.275	2.914	2.603	2.337
1.053	.353	.353	.353	.353	.705	.705	.705	.705	3.455	3.093	2.778	2.506
1.049	.357	.357	.357	.357	.713	.713	.713	.713	3.649	3.288	2.968	2.690
1.046	.361	.361	.361	.361	.722	.722	.722	.722	3.862	3.500	3.177	2.892
1.042	.365	.365	.365	.365	.731	.731	.731	.731	4.097	3.735	3.408	3.117
1.039	.370	.370	.370	.370	.740	.740	.740	.740	4.359	3.997	3.667	3.370
1.035	.375	.375	.375	.375	.750	.750	.750	.750	4.655	4.293	3.961	3.658
1.032	.380	.380	.380	.380	.761	.761	.761	.761	4.995	4.634	4.299	3.991
1.028	.386	.386	.386	.386	.772	.772	.772	.772	5.393	5.032	4.694	4.381
1.025	.392	.392	.392	.392	.784	.784	.784	.784	5.868	5.509	5.168	4.849
1.021	.398	.398	.398	.398	.796	.796	.796	.796	6.453	6.094	5.751	5.427
1.018	.405	.405	.405	.405	.810	.810	.810	.810	7.200	6.842	6.497	6.168
1.014	.413	.413	.413	.413	.826	.826	.826	.826	8.204	7.847	7.501	7.166
1.011	.422	.422	.422	.422	.844	.844	.844	.844	9.669	9.312	8.964	8.625
1.007	.432	.432	.432	.432	.864	.864	.864	.864	12.113	11.757	11.407	11.063

N= .8500 CUTOFF1=1.1765 CUTOFF2=1.1200 CUTOFF3=1.1099

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI	RHO= 0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.173	.679	.517	.417	.497	7.362	7.200	7.100	7.180	0	0	0	0
1.169	.976	.754	.612	.726	7.776	7.554	7.412	7.526	0	0	0	0
1.166	1.215	.953	.779	.919	8.140	7.877	7.703	7.843	0	0	0	0
1.162	1.430	1.137	.938	1.098	8.484	8.192	7.992	8.153	0	0	0	0
1.159	1.631	1.316	1.094	1.273	8.824	8.509	8.287	8.466	0	0	0	0
1.155	1.825	1.494	1.254	1.449	9.165	8.834	8.594	8.789	0	0	0	0
1.152	2.019	1.677	1.421	1.629	9.515	9.173	8.917	9.125	0	0	0	0
1.148	2.019	1.702	1.457	1.657	9.007	8.690	8.445	8.645	0	0	0	0
1.145	1.442	1.233	1.068	1.203	6.121	5.913	5.748	5.883	0	0	0	0
1.141	1.126	.978	.857	.956	4.572	4.424	4.303	4.402	0	0	0	0
1.138	.923	.815	.723	.799	3.594	3.486	3.394	3.470	0	0	0	0
1.134	.779	.699	.629	.687	2.912	2.832	2.762	2.820	0	0	0	0
1.131	.668	.610	.558	.601	2.399	2.341	2.289	2.332	0	0	0	0
1.127	.576	.537	.500	.530	1.986	1.946	1.909	1.940	0	0	0	0
1.124	.493	.470	.448	.466	1.622	1.599	1.577	1.595	0	0	0	0
1.116	.358	.358	.358	.358	.715	.715	.715	.715	0	0	0	0
1.113	.360	.360	.360	.360	.721	.721	.721	.721	0	0	0	0
1.109	.363	.363	.363	.363	.727	.727	.727	.727	.256	.193	.154	.129
1.106	.366	.366	.366	.366	.733	.733	.733	.733	.748	.571	.461	.386
1.102	.369	.369	.369	.369	.739	.739	.739	.739	1.024	.794	.645	.543
1.099	.373	.373	.373	.373	.745	.745	.745	.745	1.242	.975	.799	.675
1.095	.376	.376	.376	.376	.752	.752	.752	.752	1.429	1.137	.938	.795
1.092	.379	.379	.379	.379	.758	.758	.758	.758	1.599	1.287	1.069	.911
1.088	.383	.383	.383	.383	.765	.765	.765	.765	1.758	1.430	1.196	1.023
1.085	.386	.386	.386	.386	.772	.772	.772	.772	1.909	1.570	1.322	1.136
1.081	.390	.390	.390	.390	.779	.779	.779	.779	2.058	1.709	1.448	1.250
1.078	.393	.393	.393	.393	.787	.787	.787	.787	2.204	1.848	1.576	1.366
1.074	.397	.397	.397	.397	.794	.794	.794	.794	2.351	1.989	1.707	1.487
1.071	.401	.401	.401	.401	.802	.802	.802	.802	2.501	2.133	1.842	1.612
1.067	.405	.405	.405	.405	.810	.810	.810	.810	2.654	2.282	1.983	1.743
1.064	.409	.409	.409	.409	.819	.819	.819	.819	2.812	2.438	2.131	1.882
1.060	.414	.414	.414	.414	.828	.828	.828	.828	2.978	2.601	2.288	2.029
1.056	.418	.418	.418	.418	.837	.837	.837	.837	3.153	2.774	2.455	2.188
1.053	.423	.423	.423	.423	.846	.846	.846	.846	3.339	2.959	2.634	2.359
1.049	.428	.428	.428	.428	.856	.856	.856	.856	3.540	3.159	2.828	2.545
1.046	.433	.433	.433	.433	.866	.866	.866	.866	3.758	3.376	3.041	2.750
1.042	.438	.438	.438	.438	.877	.877	.877	.877	3.997	3.615	3.276	2.977
1.039	.444	.444	.444	.444	.888	.888	.888	.888	4.264	3.882	3.538	3.232
1.035	.450	.450	.450	.450	.900	.900	.900	.900	4.564	4.182	3.834	3.522
1.032	.456	.456	.456	.456	.913	.913	.913	.913	4.908	4.526	4.175	3.855
1.028	.463	.463	.463	.463	.926	.926	.926	.926	5.309	4.928	4.573	4.247
1.025	.470	.470	.470	.470	.940	.940	.940	.940	5.788	5.407	5.049	4.717
1.021	.478	.478	.478	.478	.956	.956	.956	.956	6.376	5.996	5.635	5.296
1.018	.486	.486	.486	.486	.972	.972	.972	.972	7.125	6.746	6.382	6.037
1.014	.496	.496	.496	.496	.991	.991	.991	.991	8.133	7.754	7.388	7.037
1.011	.506	.506	.506	.506	1.012	1.012	1.012	1.012	9.599	9.222	8.853	8.496
1.007	.519	.519	.519	.519	1.037	1.037	1.037	1.037	12.045	11.669	11.299	10.936

N= .9000 CUTOFF1=1.1111 CUTOFF2=1.0200 CUTOFF3=1.1001

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI RHO=	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.109	.515	.389	.312	.374	7.448	7.323	7.246	7.307	0	0	0	0
1.107	.732	.558	.450	.536	7.749	7.574	7.466	7.553	0	0	0	0
1.104	.903	.693	.561	.667	8.005	7.796	7.663	7.769	0	0	0	0
1.102	1.050	.812	.659	.782	8.242	8.004	7.851	7.974	0	0	0	0
1.100	1.183	.921	.751	.888	8.467	8.205	8.035	8.172	.136	.102	.081	.068
1.098	1.307	1.025	.839	.989	8.686	8.405	8.218	8.368	.623	.473	.380	.318
1.096	1.424	1.125	.924	1.086	8.903	8.604	8.403	8.565	.869	.666	.539	.452
1.093	1.537	1.222	1.008	1.181	9.119	8.804	8.590	8.763	1.059	.820	.667	.560
1.091	1.646	1.318	1.091	1.275	9.336	9.008	8.781	8.964	1.221	.954	.779	.657
1.089	1.754	1.413	1.175	1.368	9.555	9.215	8.976	9.169	1.365	1.076	.883	.747
1.087	1.860	1.509	1.259	1.461	9.779	9.427	9.177	9.380	1.497	1.190	.982	.833
1.084	1.966	1.605	1.345	1.556	10.006	9.645	9.385	9.596	1.621	1.299	1.076	.916
1.082	2.072	1.702	1.432	1.651	10.240	9.870	9.599	9.819	1.738	1.404	1.169	.997
1.080	2.179	1.801	1.521	1.748	10.480	10.102	9.822	10.049	1.851	1.507	1.260	1.078
1.078	2.287	1.902	1.613	1.848	10.728	10.343	10.054	10.289	1.961	1.608	1.351	1.159
1.076	2.397	2.005	1.708	1.950	10.985	10.593	10.296	10.538	2.069	1.708	1.441	1.241
1.073	2.509	2.112	1.806	2.055	11.251	10.854	10.548	10.798	2.175	1.808	1.533	1.323
1.071	2.624	2.222	1.908	2.164	11.529	11.127	10.814	11.069	2.282	1.908	1.625	1.407
1.069	2.743	2.336	2.015	2.277	11.820	11.413	11.092	11.354	2.388	2.010	1.719	1.493
1.067	2.865	2.455	2.126	2.395	12.125	11.714	11.386	11.654	2.495	2.112	1.814	1.581
1.064	2.993	2.579	2.244	2.518	12.445	12.031	11.696	11.970	2.603	2.217	1.912	1.671
1.062	3.126	2.709	2.368	2.647	12.784	12.367	12.025	12.305	2.713	2.324	2.013	1.765
1.060	3.265	2.846	2.499	2.783	13.142	12.723	12.375	12.660	2.826	2.434	2.117	1.862
1.058	3.412	2.991	2.638	2.927	13.523	13.102	12.749	13.038	2.941	2.547	2.225	1.963
1.056	3.567	3.145	2.787	3.081	13.929	13.506	13.149	13.442	3.061	2.664	2.337	2.069
1.053	3.732	3.309	2.947	3.244	14.364	13.941	13.579	13.876	3.184	2.786	2.454	2.179
1.051	3.908	3.485	3.119	3.420	14.832	14.409	14.043	14.344	3.313	2.914	2.577	2.296
1.049	4.097	3.675	3.305	3.609	15.338	14.916	14.546	14.850	3.447	3.047	2.706	2.419
1.047	4.302	3.880	3.508	3.815	15.888	15.467	15.095	15.402	3.589	3.187	2.842	2.549
1.044	4.524	4.105	3.730	4.040	16.490	16.071	15.696	16.006	3.738	3.335	2.987	2.688
1.042	4.768	4.352	3.976	4.287	17.152	16.737	16.361	16.671	3.896	3.493	3.141	2.836
1.040	5.037	4.626	4.250	4.561	17.887	17.476	17.100	17.411	4.064	3.661	3.305	2.995
1.038	5.338	4.933	4.558	4.868	18.710	18.304	17.930	18.240	4.245	3.842	3.482	3.167
1.036	5.678	5.280	4.909	5.217	19.641	19.243	18.872	19.179	4.440	4.036	3.674	3.353
1.033	6.067	5.679	5.314	5.617	20.707	20.319	19.953	20.256	4.652	4.248	3.882	3.556
1.031	6.520	6.145	5.789	6.085	21.947	21.572	21.216	21.512	4.883	4.479	4.111	3.779
1.029	7.058	6.702	6.359	6.644	23.418	23.061	22.719	23.003	5.138	4.734	4.363	4.027
1.027	7.717	7.386	7.064	7.331	25.208	24.877	24.555	24.823	5.421	5.018	4.645	4.303
1.024	.901	.871	.840	.865	2.894	2.863	2.833	2.858	5.740	5.337	4.961	4.615
1.022	.380	.371	.362	.370	1.194	1.185	1.177	1.184	6.103	5.700	5.322	4.971
1.018	.081	.081	.081	.081	.162	.162	.162	.162	7.013	6.611	6.229	5.868
1.016	.082	.082	.082	.082	.164	.164	.164	.164	7.603	7.202	6.818	6.452
1.013	.083	.083	.083	.083	.166	.166	.166	.166	8.332	7.931	7.544	7.174
1.011	.084	.084	.084	.084	.168	.168	.168	.168	9.264	8.864	8.476	8.101
1.009	.085	.085	.085	.085	.171	.171	.171	.171	10.523	10.123	9.733	9.354
1.007	.087	.087	.087	.087	.173	.173	.173	.173	12.360	11.961	11.569	11.186
1.004	.088	.088	.088	.088	.177	.177	.177	.177	15.432	15.034	14.641	14.253

N= .9000 CUTOFF1=1.1111 CUTOFF2=1.0400 CUTOFF3=1.0893

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI	RHO= 0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.109	.605	.458	.368	.440	7.982	7.835	7.745	7.817	0	0	0	0
1.107	.861	.658	.531	.633	8.337	8.134	8.007	8.109	0	0	0	0
1.104	1.063	.820	.665	.789	8.641	8.398	8.243	8.368	0	0	0	0
1.102	1.238	.963	.785	.929	8.923	8.648	8.470	8.614	0	0	0	0
1.100	1.397	1.097	.898	1.058	9.193	8.893	8.694	8.854	0	0	0	0
1.098	1.545	1.224	1.007	1.182	9.457	9.136	8.919	9.094	0	0	0	0
1.096	1.687	1.347	1.114	1.302	9.720	9.380	9.147	9.335	0	0	0	0
1.093	1.824	1.469	1.220	1.422	9.984	9.628	9.380	9.581	0	0	0	0
1.091	1.959	1.590	1.328	1.540	10.250	9.882	9.619	9.832	0	0	0	0
1.089	2.092	1.712	1.437	1.660	10.522	10.142	9.867	10.090	.300	.225	.180	.150
1.087	2.225	1.835	1.548	1.781	10.801	10.411	10.124	10.357	.738	.562	.452	.378
1.084	2.359	1.960	1.662	1.905	11.088	10.690	10.392	10.634	.999	.769	.623	.523
1.082	2.494	2.089	1.780	2.032	11.385	10.980	10.672	10.923	1.206	.938	.764	.643
1.080	2.632	2.221	1.903	2.163	11.694	11.283	10.965	11.224	1.383	1.087	.890	.751
1.078	2.774	2.358	2.032	2.298	12.016	11.601	11.275	11.541	1.543	1.224	1.007	.853
1.076	2.920	2.501	2.167	2.440	12.354	11.936	11.601	11.874	1.691	1.353	1.120	.952
1.073	3.071	2.651	2.309	2.588	12.710	12.289	11.948	12.227	1.830	1.477	1.229	1.048
1.071	3.229	2.808	2.460	2.745	13.085	12.664	12.316	12.601	1.964	1.598	1.336	1.143
1.069	3.395	2.974	2.621	2.910	13.484	13.062	12.710	12.999	2.094	1.717	1.443	1.239
1.067	3.570	3.150	2.794	3.086	13.909	13.489	13.133	13.425	2.221	1.835	1.550	1.335
1.064	3.756	3.339	2.980	3.275	14.364	13.947	13.588	13.883	2.347	1.954	1.658	1.433
1.062	3.955	3.542	3.182	3.478	14.855	14.442	14.081	14.378	2.473	2.073	1.768	1.533
1.060	4.169	3.762	3.402	3.699	15.386	14.979	14.619	14.916	2.599	2.194	1.880	1.636
1.058	4.401	4.003	3.645	3.940	15.966	15.567	15.209	15.504	2.727	2.317	1.996	1.742
1.056	4.656	4.268	3.914	4.207	16.602	16.214	15.860	16.152	2.858	2.444	2.115	1.852
1.053	4.938	4.563	4.217	4.504	17.308	16.933	16.587	16.873	2.991	2.574	2.238	1.967
1.051	2.882	2.686	2.502	2.654	9.925	9.729	9.545	9.697	3.129	2.709	2.366	2.087
1.049	1.221	1.148	1.079	1.136	4.131	4.058	3.989	4.046	3.272	2.850	2.500	2.214
1.047	.746	.708	.672	.702	2.476	2.438	2.401	2.432	3.421	2.997	2.642	2.347
1.044	.514	.493	.473	.490	1.671	1.650	1.630	1.646	3.577	3.151	2.791	2.489
1.042	.368	.358	.348	.356	1.166	1.156	1.146	1.154	3.742	3.314	2.949	2.639
1.040	.147	.147	.147	.147	.295	.295	.295	.295	3.917	3.488	3.117	2.801
1.038	.149	.149	.149	.149	.297	.297	.297	.297	4.103	3.673	3.298	2.975
1.036	.150	.150	.150	.150	.300	.300	.300	.300	4.303	3.873	3.493	3.163
1.033	.151	.151	.151	.151	.302	.302	.302	.302	4.520	4.089	3.705	3.348
1.031	.153	.153	.153	.153	.305	.305	.305	.305	4.755	4.324	3.937	3.593
1.029	.154	.154	.154	.154	.308	.308	.308	.308	5.015	4.583	4.192	3.842
1.027	.155	.155	.155	.155	.311	.311	.311	.311	5.302	4.871	4.476	4.120
1.024	.157	.157	.157	.157	.314	.314	.314	.314	5.625	5.194	4.796	4.433
1.022	.158	.158	.158	.158	.317	.317	.317	.317	5.991	5.560	5.159	4.790
1.020	.160	.160	.160	.160	.320	.320	.320	.320	6.413	5.982	5.578	5.204
1.018	.162	.162	.162	.162	.324	.324	.324	.324	6.908	6.477	6.071	5.690
1.016	.164	.164	.164	.164	.328	.328	.328	.328	7.501	7.071	6.662	6.275
1.013	.166	.166	.166	.166	.332	.332	.332	.332	8.232	7.803	7.391	6.999
1.011	.168	.168	.168	.168	.336	.336	.336	.336	9.167	8.739	8.324	7.926
1.009	.171	.171	.171	.171	.341	.341	.341	.341	10.428	10.000	9.583	9.180
1.007	.173	.173	.173	.173	.347	.347	.347	.347	12.268	11.840	11.421	11.013
1.004	.177	.177	.177	.177	.353	.353	.353	.353	15.342	14.916	14.495	14.080

N= .9000 CUTOFF1=1.1111 CUTOFF2=1.0600 CUTOFF3=1.0787

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI	RHO= 0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.109	.746	.567	.456	.545	8.660	8.481	8.370	8.459	0	0	0	0
1.107	1.064	.818	.663	.788	9.098	8.853	8.697	8.822	0	0	0	0
1.104	1.315	1.024	.834	.987	9.476	9.184	8.995	9.147	0	0	0	0
1.102	1.534	1.208	.991	1.166	9.827	9.501	9.284	9.459	0	0	0	0
1.100	1.735	1.382	1.141	1.336	10.167	9.814	9.573	9.768	0	0	0	0
1.098	1.924	1.550	1.288	1.500	10.502	10.128	9.866	10.078	0	0	0	0
1.096	2.107	1.716	1.436	1.663	10.838	10.448	10.167	10.394	0	0	0	0
1.093	2.286	1.883	1.586	1.827	11.180	10.776	10.479	10.720	0	0	0	0
1.091	2.465	2.051	1.740	1.993	11.529	11.116	10.805	11.058	0	0	0	0
1.089	2.644	2.223	1.900	2.164	11.890	11.470	11.147	11.410	0	0	0	0
1.087	2.826	2.402	2.068	2.340	12.265	11.841	11.507	11.779	0	0	0	0
1.084	3.013	2.587	2.245	2.525	12.658	12.232	11.890	12.170	0	0	0	0
1.082	3.207	2.782	2.434	2.719	13.072	12.647	12.299	12.584	0	0	0	0
1.080	3.409	2.988	2.636	2.925	13.510	13.089	12.737	13.026	0	0	0	0
1.078	3.623	3.209	2.855	3.146	13.978	13.564	13.210	13.501	.502	.379	.304	.254
1.076	2.299	2.058	1.848	2.021	8.645	8.404	8.194	8.367	.909	.695	.561	.470
1.073	1.380	1.248	1.132	1.228	5.060	4.929	4.812	4.909	1.184	.916	.744	.626
1.071	.975	.892	.817	.879	3.491	3.408	3.332	3.395	1.409	1.102	.901	.760
1.069	.744	.689	.638	.680	2.599	2.544	2.492	2.535	1.605	1.270	1.044	.884
1.067	.591	.554	.519	.548	2.014	1.977	1.941	1.971	1.784	1.426	1.179	1.002
1.064	.479	.455	.432	.451	1.587	1.563	1.540	1.559	1.952	1.575	1.310	1.117
1.062	.387	.374	.361	.371	1.241	1.227	1.215	1.225	2.112	1.720	1.439	1.231
1.058	.208	.208	.208	.208	.417	.417	.417	.417	2.421	2.005	1.696	1.462
1.056	.210	.210	.210	.210	.420	.420	.420	.420	2.573	2.148	1.827	1.581
1.053	.211	.211	.211	.211	.423	.423	.423	.423	2.725	2.294	1.962	1.704
1.051	.213	.213	.213	.213	.426	.426	.426	.426	2.879	2.442	2.100	1.831
1.049	.214	.214	.214	.214	.429	.429	.429	.429	3.037	2.594	2.243	1.963
1.047	.216	.216	.216	.216	.432	.432	.432	.432	3.199	2.752	2.392	2.102
1.044	.218	.218	.218	.218	.435	.435	.435	.435	3.367	2.916	2.548	2.248
1.042	.219	.219	.219	.219	.439	.439	.439	.439	3.542	3.088	2.713	2.403
1.040	.221	.221	.221	.221	.442	.442	.442	.442	3.726	3.270	2.887	2.569
1.038	.223	.223	.223	.223	.446	.446	.446	.446	3.922	3.463	3.074	2.746
1.036	.225	.225	.225	.225	.450	.450	.450	.450	4.130	3.670	3.274	2.938
1.033	.227	.227	.227	.227	.453	.453	.453	.453	4.354	3.892	3.491	3.146
1.031	.229	.229	.229	.229	.458	.458	.458	.458	4.596	4.134	3.727	3.373
1.029	.231	.231	.231	.231	.462	.462	.462	.462	4.862	4.399	3.987	3.625
1.027	.233	.233	.233	.233	.466	.466	.466	.466	5.156	4.692	4.275	3.905
1.024	.235	.235	.235	.235	.471	.471	.471	.471	5.484	5.020	4.598	4.220
1.022	.238	.238	.238	.238	.475	.475	.475	.475	5.855	5.391	4.965	4.579
1.020	.240	.240	.240	.240	.481	.481	.481	.481	6.281	5.818	5.388	4.994
1.018	.243	.243	.243	.243	.486	.486	.486	.486	6.781	6.317	5.883	5.482
1.016	.246	.246	.246	.246	.492	.492	.492	.492	7.378	6.915	6.477	6.069
1.013	.249	.249	.249	.249	.498	.498	.498	.498	8.113	7.650	7.209	6.793
1.011	.252	.252	.252	.252	.504	.504	.504	.504	9.052	8.590	8.146	7.722
1.009	.256	.256	.256	.256	.512	.512	.512	.512	10.316	9.855	9.408	8.977
1.007	.260	.260	.260	.260	.520	.520	.520	.520	12.159	11.698	11.248	10.811
1.004	.265	.265	.265	.265	.530	.530	.530	.530	15.237	14.777	14.324	13.879

N= .9000 CUTOFF1=1.1111 CUTOFF2=1.0800 CUTOFF3=1.0684

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI	RHO= 0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.109	1.012	.774	.626	.745	9.606	9.368	9.219	9.338	0	0	0	0
1.107	1.445	1.127	.919	1.086	10.194	9.876	9.668	9.835	0	0	0	0
1.104	1.790	1.422	1.172	1.374	10.703	10.335	10.085	10.287	0	0	0	0
1.102	2.095	1.695	1.412	1.641	11.183	10.782	10.499	10.728	0	0	0	0
1.100	1.694	1.394	1.174	1.353	8.293	7.994	7.774	7.952	0	0	0	0
1.098	1.231	1.031	.879	1.003	5.624	5.423	5.271	5.395	0	0	0	0
1.096	.977	.832	.718	.811	4.207	4.063	3.948	4.042	0	0	0	0
1.093	.812	.703	.615	.687	3.321	3.213	3.124	3.197	0	0	0	0
1.091	.693	.611	.541	.599	2.707	2.625	2.555	2.612	0	0	0	0
1.089	.601	.540	.485	.530	2.250	2.188	2.134	2.179	0	0	0	0
1.087	.526	.481	.440	.474	1.889	1.844	1.803	1.837	0	0	0	0
1.084	.461	.430	.401	.425	1.588	1.557	1.527	1.552	0	0	0	0
1.082	.400	.382	.364	.379	1.314	1.296	1.278	1.293	0	0	0	0
1.080	.261	.261	.261	.261	.521	.521	.521	.521	0	0	0	0
1.078	.262	.262	.262	.262	.524	.524	.524	.524	0	0	0	0
1.076	.264	.264	.264	.264	.527	.527	.527	.527	0	0	0	0
1.073	.265	.265	.265	.265	.531	.531	.531	.531	0	0	0	0
1.071	.267	.267	.267	.267	.534	.534	.534	.534	0	0	0	0
1.069	.269	.269	.269	.269	.537	.537	.537	.537	0	0	0	0
1.067	.270	.270	.270	.270	.541	.541	.541	.541	.760	.577	.464	.388
1.064	.272	.272	.272	.272	.544	.544	.544	.544	1.153	.887	.718	.603
1.062	.274	.274	.274	.274	.548	.548	.548	.548	1.445	1.126	.919	.774
1.060	.276	.276	.276	.276	.552	.552	.552	.552	1.691	1.335	1.096	.927
1.058	.278	.278	.278	.278	.556	.556	.556	.556	1.912	1.527	1.263	1.072
1.056	.280	.280	.280	.280	.559	.559	.559	.559	2.118	1.710	1.423	1.214
1.053	.282	.282	.282	.282	.563	.563	.563	.563	2.314	1.888	1.581	1.354
1.051	.284	.284	.284	.284	.567	.567	.567	.567	2.504	2.063	1.739	1.496
1.049	.286	.286	.286	.286	.572	.572	.572	.572	2.692	2.239	1.899	1.640
1.047	.288	.288	.288	.288	.576	.576	.576	.576	2.880	2.417	2.063	1.790
1.044	.290	.290	.290	.290	.580	.580	.580	.580	3.070	2.599	2.232	1.945
1.042	.292	.292	.292	.292	.585	.585	.585	.585	3.265	2.787	2.409	2.108
1.040	.295	.295	.295	.295	.590	.590	.590	.590	3.467	2.983	2.594	2.280
1.038	.297	.297	.297	.297	.594	.594	.594	.594	3.677	3.189	2.790	2.464
1.036	.300	.300	.300	.300	.599	.599	.599	.599	3.899	3.408	2.999	2.661
1.033	.302	.302	.302	.302	.605	.605	.605	.605	4.135	3.641	3.223	2.874
1.031	.305	.305	.305	.305	.610	.610	.610	.610	4.389	3.892	3.467	3.106
1.029	.308	.308	.308	.308	.616	.616	.616	.616	4.665	4.166	3.733	3.361
1.027	.311	.311	.311	.311	.621	.621	.621	.621	4.968	4.468	4.027	3.645
1.024	.314	.314	.314	.314	.628	.628	.628	.628	5.304	4.803	4.356	3.963
1.022	.317	.317	.317	.317	.634	.634	.634	.634	5.683	5.181	4.728	4.325
1.020	.320	.320	.320	.320	.641	.641	.641	.641	6.117	5.615	5.156	4.742
1.018	.324	.324	.324	.324	.648	.648	.648	.648	6.623	6.121	5.656	5.233
1.016	.328	.328	.328	.328	.655	.655	.655	.655	7.227	6.724	6.255	5.821
1.013	.332	.332	.332	.332	.664	.664	.664	.664	7.967	7.465	6.991	6.548
1.011	.336	.336	.336	.336	.673	.673	.673	.673	8.912	8.410	7.931	7.479
1.009	.341	.341	.341	.341	.682	.682	.682	.682	10.181	9.680	9.197	8.735
1.007	.347	.347	.347	.347	.694	.694	.694	.694	12.028	11.528	11.041	10.570
1.004	.353	.353	.353	.353	.707	.707	.707	.707	15.110	14.611	14.120	13.640

N= .9000 CUTOFF1=1.1111 CUTOFF2=1.1000 CUTOFF3=1.0582

	LAYER WITH VELOCITY GRADIENT								HOMOGENEOUS LAYER			
	FUNDAMENTAL MODE				1ST HIGHER MODE				FUNDAMENTAL MODE			
PSI	RHO= 0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2	0.6	0.8	1.0	1.2
1.109	.303	.239	.196	.231	1.888	1.824	1.781	1.816	0	0	0	0
1.107	.364	.302	.255	.293	1.724	1.662	1.616	1.653	0	0	0	0
1.104	.382	.332	.291	.325	1.543	1.493	1.452	1.486	0	0	0	0
1.102	.377	.345	.316	.340	1.348	1.316	1.287	1.311	0	0	0	0
1.100	.310	.310	.310	.310	.619	.619	.619	.619	0	0	0	0
1.098	.311	.311	.311	.311	.623	.623	.623	.623	0	0	0	0
1.096	.313	.313	.313	.313	.626	.626	.626	.626	0	0	0	0
1.093	.315	.315	.315	.315	.629	.629	.629	.629	0	0	0	0
1.091	.316	.316	.316	.316	.633	.633	.633	.633	0	0	0	0
1.089	.318	.318	.318	.318	.636	.636	.636	.636	0	0	0	0
1.087	.320	.320	.320	.320	.640	.640	.640	.640	0	0	0	0
1.084	.322	.322	.322	.322	.644	.644	.644	.644	0	0	0	0
1.082	.324	.324	.324	.324	.648	.648	.648	.648	0	0	0	0
1.080	.326	.326	.326	.326	.651	.651	.651	.651	0	0	0	0
1.078	.328	.328	.328	.328	.655	.655	.655	.655	0	0	0	0
1.076	.330	.330	.330	.330	.659	.659	.659	.659	0	0	0	0
1.073	.332	.332	.332	.332	.663	.663	.663	.663	0	0	0	0
1.071	.334	.334	.334	.334	.668	.668	.668	.668	0	0	0	0
1.069	.336	.336	.336	.336	.672	.672	.672	.672	0	0	0	0
1.067	.338	.338	.338	.338	.676	.676	.676	.676	0	0	0	0
1.064	.340	.340	.340	.340	.681	.681	.681	.681	0	0	0	0
1.062	.343	.343	.343	.343	.685	.685	.685	.685	0	0	0	0
1.060	.345	.345	.345	.345	.690	.690	.690	.690	0	0	0	0
1.058	.347	.347	.347	.347	.694	.694	.694	.694	.441	.332	.266	.222
1.056	.350	.350	.350	.350	.699	.699	.699	.699	1.101	.843	.681	.570
1.053	.352	.352	.352	.352	.704	.704	.704	.704	1.497	1.163	.947	.797
1.051	.355	.355	.355	.355	.709	.709	.709	.709	1.815	1.431	1.174	.993
1.049	.357	.357	.357	.357	.715	.715	.715	.715	2.094	1.673	1.384	1.176
1.047	.360	.360	.360	.360	.720	.720	.720	.720	2.352	1.903	1.586	1.354
1.044	.363	.363	.363	.363	.725	.725	.725	.725	2.597	2.127	1.786	1.532
1.042	.366	.366	.366	.366	.731	.731	.731	.731	2.837	2.350	1.987	1.713
1.040	.369	.369	.369	.369	.737	.737	.737	.737	3.076	2.575	2.194	1.900
1.038	.372	.372	.372	.372	.743	.743	.743	.743	3.318	2.806	2.408	2.096
1.036	.375	.375	.375	.375	.749	.749	.749	.749	3.567	3.046	2.633	2.304
1.033	.378	.378	.378	.378	.756	.756	.756	.756	3.827	3.299	2.871	2.526
1.031	.381	.381	.381	.381	.763	.763	.763	.763	4.102	3.567	3.127	2.767
1.029	.385	.385	.385	.385	.770	.770	.770	.770	4.395	3.857	3.405	3.029
1.027	.388	.388	.388	.388	.777	.777	.777	.777	4.714	4.172	3.710	3.319
1.024	.392	.392	.392	.392	.784	.784	.784	.784	5.065	4.520	4.048	3.642
1.022	.396	.396	.396	.396	.792	.792	.792	.792	5.457	4.910	4.428	4.009
1.020	.400	.400	.400	.400	.801	.801	.801	.801	5.903	5.354	4.864	4.431
1.018	.405	.405	.405	.405	.810	.810	.810	.810	6.419	5.870	5.372	4.925
1.016	.410	.410	.410	.410	.819	.819	.819	.819	7.032	6.482	5.977	5.517
1.013	.415	.415	.415	.415	.830	.830	.830	.830	7.782	7.232	6.719	6.247
1.011	.420	.420	.420	.420	.841	.841	.841	.841	8.734	8.184	7.665	7.180
1.009	.427	.427	.427	.427	.853	.853	.853	.853	10.011	9.462	8.936	8.439
1.007	.433	.433	.433	.433	.867	.867	.867	.867	11.866	11.317	10.786	10.276
1.004	.442	.442	.442	.442	.883	.883	.883	.883	14.954	14.406	13.869	13.347