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THE VENTED LOUDSPEAKER: A RESTATEMENT

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THE VENTED LOUDSPEAKER CABINET: A RESTATEMENT

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Additional information on the use and application of A. N. Thiele's alignments $\int 1$, $\int for the vented Joudspeaker cabinet$ is presented. A rewritten alignment table which has all thefrequency terms normalized to the speaker resonance frequencyis included. Computer run frequency responses for all thealignments are displayed along with a new fourth orderChebyshev alignment beyond No. 9. Sensitivity functions forthe cabinet output with respect to various system parameters(fb, fg, Qt, Vb) are derived and plotted. Methods of auxiliaryfilter synthesis are discussed including an equalization methodto compensate for incorrect speaker Qt using a single secondorder peak-dip filter. A simple cabinet tuning procedure usingcomputer printed tables is also presented. A possible new setof small box low frequency alignments requiring comparativelyhigh amounts of auxiliary filter boost at the box resonancefrequency are suggested.

1. REWRITTEN ALIGNMENT TABLE

To facilitate identification of this papers computer run alignment frequency responses and to simplify design procedures, A. N. Thiele's alignment table [1] p. 388 is reproduced here in somewhat different form (table I). All the frequency terms have been normalized to the speakers free-air resonance frequency instead of the alignments (-3 db) cutoff frequency. The Thiele column giving the ratio C_{as}/C_{ab} has been changed to the reciprocal value $C_{ab}/C_{as} = v_b/v_{as}$ to make the value proportional to the box volume. The constant listed for the auxiliary filter (λ) is the reciprocal of the required filter Q (X = $1/Q = V_2 + y$). Also included in the new table is a listing for the frequencies f_1 and f_h the impedance peak frequencies for the driving point impedance of the speaker mounted in the vented cabinet.

The author has found this rewritten alignment table to be much more useful for design purposes because of the loudspeaker free-air resonance frequency normalization. Usually a designer starts with a particular speaker that has a specific free air resonance frequency and then determines the box parameters to place it in a particular alignment. The tabulated values of f1 and $f_{\rm h}$ help the designer to check the completed system tuning.

2. ALIGNMENT RESPONSES

To ease the computer programming of the Thiele vented cabinet responses, Thiele's equation (19) [1] p. 386 (the operational form of the transfer relationship between the speakers input voltage and the sound pressure output of the speaker mounted in it's cabinet) was rewritten to conform to the standard text book form for transfer functions. After appropriate substitutions and manipulations this equation appears as:

$$E(5) = \frac{S^{4}}{S^{4} + \frac{\omega_{5}}{Q_{4}}S^{3} + \left[\omega_{\ell}^{2} + \omega_{s}^{2}(1 + \frac{Cas}{C_{a\ell}})\right]S^{2} + \frac{\omega_{\ell}^{*}\omega_{s}}{Q_{4}}S + \omega_{s}^{*}\omega_{\ell}^{2}}$$

fundamental resonance frequency of loudspeakers in rad/sec cabinet resonance frequency in rad/sec ratio of the loudspeaker suspension compliance to the box compliance (or alternately, the ratio of loudspeaker compliance equivalent volume to the box volume) effective Q of the speaker connected to the amplifier.¹

To derive the response function which is normalized to the speakers resonance frequency a substitution of $W_{\rm bs}$ = $W_{\rm b}/W_{\rm s}$ and $W_{\rm s}$ = 1 is made in (1) yielding.

$$E(S) = \frac{S^{4}}{S^{4} + \frac{1}{Q_{4}}S^{3} + (\omega_{kS}^{2} + 1 + \frac{C_{aS}}{C_{aS}})S^{2} + \frac{\omega_{kS}^{2}}{Q_{4}}S + \omega_{kS}^{2}}$$
⁽²⁾

where $W_{bs} = \frac{W_b}{W_s} = \frac{f_b}{f_s}$ normalized frequency variable which is the ratio

In like manner, the normalized transfer functions for the auxiliary filters are derived.

First Order Alignments 10 to 14

$$H_{1}(s) = \frac{5}{s + \omega_{as}}$$
(3)

-2-

$$W_{as} = \frac{f_{aux}}{f_s} = \frac{f_3}{f_s} \frac{f_{aux}}{f_3} = \frac{W_{aux}}{W_s}$$

 $W_{aux} = 2 \pi f_{aux}$ corner frequency of filter in rad/sec

 $W_3 = 2 \pi f_3$ corner frequency of overall response (speaker plus filter) in rad/sec.

Second Order - Alignments 15 to 27

$$|| (s) = \frac{s^2}{s}$$

$$H_{2}(s) = \frac{1}{5^{2} + \chi \omega_{as} S + \omega_{as}}$$
(4)

where

 $W_{as} = \frac{f_{aux}}{f_s}$ corner frequency of filter in rad/sec X = $1/q_{aux} = \sqrt{y+2} = a$ constant which is the reciprocal of the filter required Q.

 $\frac{Y_{aux}}{H_{3}(5)} = \frac{5 + A}{5 + \frac{A}{z}}$ (5)

Computations show that this filter is 3 db down at $W = a/\sqrt{2}$

The overall responses of the fifth and sixth order filters are just the appropriate products of (2), (3), (4) and (5) as shown below:

Fifth Order

 $E_{5th}(S) = E(S)H_1(S)$ or = E(S)H_3(S) (6)

(7)

Sixth Order

 E_{6th} (S) = E(S)H₂(S)

The complete set of computer run frequency responses are shown in figures 1 to 16. The alignments which require the use of an auxiliary filter have been shown with separate responses for the speaker, the filter, and the speaker-filter combination. Examination of the speaker only responses for alignments 12, 13, 14, and 27 (Fig. 8 and 11) clearly show why these responses were considered suspect by Thiele $[1 \ 7 \ p. 389]$.

3. NEW RIPPLE VALUES

As a result of the computer runs, it was noted that the ripple magnitude quoted by Thiele in his alignment table (for the Chebyshev alignments No. 7, 8, 9) was in excess of the ripple values as determined from the computer responses. For example, Thiele indicates a ripple value of 1.8 db for alignment No. 9, but the computer run response (see Fig. 3) shows a ripple value of about .55 db. For this paper, the author is defining the ripple as the difference between the maxima and minima in the passband in db [2] pp. 374-375. The rewritten alignment table I in this paper reflects the new ripple values.

4. NEW FOURTH ORDER ALIGNMENT

Because of the comparatively small value of ripple for alignment No. 9, the author was moved to investigate fourth order alignments with a higher value of ripple (and hence a lower cutoff frequency). Alignment 9.5 is a result of this study (see Fig. 2 and 3).² This alignment has a low frequency cutoff nearly a full octave below the speakers resonance frequency (0.52 f_s), a ripple of about 1.5 db, a required Q_t of 0.625, and requires a volume of 2.6 times the speakers compliance equivalent volume.

5. PERTURBATION OF SYSTEM PARAMETERS

To illustrate the qualitative effects of variations of the system constants on the frequency response, several responses were run with non-optimum values for the system parameters. The fourth order alignments numbered 1, 5, and 9 were chosen for this perturbation study. The parameters of the speaker system that were varied included: w_b the box resonance frequency, w_s the speaker resonance frequency, Q_t the system Q, and $V_{ab}/V_{as} = C_{ab}/C_{as}$ the ratio between the box volume and the speakers compliance equivalent volume. For a particular variation, all the system parameters were held constant (at their correct alignment values) except one, which was varied in one-sixth octave (ratio of 1.121 to 1., about 11.2%) steps above and below the optimum value. The perturbation responses for variation of f_b and Q_t are very similar to the variational responses illustrated by J. F. Novak in his excellent work [3 J pp. 9-10.

The variational responses are shown in figures 17 to 28. The writers observations concerning the parameter perturbations will be withheld until after the next section which displays the alignments parameter sensitivity functions.

6. SENSITIVITY FUNCTIONS

To show the quantitative effects of system parameter changes on the frequency response, the sensitivity functions for the magnitude of equation (1) were derived. Sensitivity is a measure of how some characteristic of a system changes when certain system parameters are perturbed.³ The sensitivity of a system function M(w) with respect to a parameter X is defined by $\int 4 J$ p. 462.

$$S_{X}^{M}(\omega) = \frac{dM(\omega)/M(\omega)}{dx/x} = \frac{X}{M(\omega)} \frac{\partial M(\omega)}{\partial x} \approx \frac{\Delta M(\omega) in \%}{\Delta X in \%}^{(8)}$$

-4-

Notice that $S_x^{\ M}$ is a normalized variable which indicates the relationships between percentage shifts in M(W) and X. The concept of sensitivity is theoretically valid only for infinitismal shifts but is accurate enough for engineering purposes for shifts up to about 15% in the independent parameter. For illustration purposes, a sensitivity value of +1 would indicate a 5% increase in S would reflect in an approximate 5% increase in M(5% is about 0.4 db).

To compute the required partial derivatives, equation (1) is first written as a magnitude function of W. $\label{eq:stars}$

....

$$E = E(\omega) = |E(\omega)| = \frac{\omega^{4}}{\left[\omega^{4} - (\omega \omega^{2} + \omega s^{2} + \omega s^{2} \frac{C_{as}}{C_{as}})\omega^{2} + \omega s^{2} \omega \omega^{2}\right]^{2} + \frac{\omega s^{2} \omega^{2}}{Q_{t}^{2}} (\omega \omega^{2} - \omega^{2})^{2}}$$

After much manipulation and pencil work the sensitivity functions appear as follows:

$$S_{Q_{\star}}^{E} = \frac{Q_{\star}}{E} \frac{\partial E}{\partial Q_{\star}} = \frac{E^{2} (\omega^{2} - \omega_{\ell}^{2})^{2}}{Q_{\star} \omega^{6}}$$
(10)

$$S_{w_{k}}^{\text{Variation of } W_{b}} = \frac{W_{k}}{E} \frac{\partial E}{\partial w_{k}} = \frac{2W_{k}^{2}E^{2}}{W^{8}} \left\{ \frac{\omega^{2}}{Q_{t}^{2}} \left(\omega^{2} W_{k}^{2} \right) - \left[\omega^{4} - \left(1 + W_{k}^{2} + \frac{Cas}{Cak} \right) w^{4} + W_{k}^{2} \right] \left(1 + W_{k}^{2} + \frac{Cas}{Cak} \right) w^{4} + W_{k}^{2} \right] \left(1 + W_{k}^{2} + \frac{Cas}{Cak} \right) w^{4} + W_{k}^{2} \right] \left(1 + W_{k}^{2} + \frac{Cas}{Cak} \right) w^{4} + W_{k}^{2} \right) \left(1 + W_{k}^{2} + \frac{Cas}{Cak} \right) w^{4} + W_{k}^{2} \right) \left(1 + W_{k}^{2} + \frac{Cas}{Cak} \right) w^{4} + W_{k}^{2} \right) \left(1 + W_{k}^{2} + \frac{Cas}{Cak} \right) w^{4} + W_{k}^{2} \right) \left(1 + W_{k}^{2} + \frac{Cas}{Cak} \right) w^{4} + W_{k}^{2} \right) \left(1 + W_{k}^{2} + \frac{Cas}{Cak} \right) w^{4} + W_{k}^{2} \right) \left(1 + W_{k}^{2} + \frac{Cas}{Cak} \right) w^{4} + W_{k}^{2} \right) \left(1 + W_{k}^{2} + \frac{Cas}{Cak} \right) w^{4} + W_{k}^{2} \right) \left(1 + W_{k}^{2} + \frac{Cas}{Cak} \right) w^{4} + W_{k}^{2} \right) \left(1 + W_{k}^{2} + \frac{Cas}{Cak} \right) w^{4} + W_{k}^{2} \right) \left(1 + W_{k}^{2} + \frac{Cas}{Cak} \right) w^{4} + W_{k}^{2} \right) \left(1 + W_{k}^{2} + \frac{Cas}{Cak} \right) w^{4} + W_{k}^{2} \right) \left(1 + W_{k}^{2} + \frac{Cas}{Cak} \right) w^{4} + W_{k}^{2} \right) \left(1 + W_{k}^{2} + \frac{Cas}{Cak} \right) w^{4} + W_{k}^{2} \right) \left(1 + W_{k}^{2} + \frac{Cas}{Cak} \right) w^{4} + W_{k}^{2} \right) \left(1 + W_{k}^{2} + \frac{Cas}{Cak} \right) w^{4} + W_{k}^{2} \right) \left(1 + W_{k}^{2} + \frac{Cas}{Cak} \right) w^{4} + W_{k}^{2} \right) \left(1 + W_{k}^{2} + \frac{Cas}{Cak} \right) w^{4} + W_{k}^{2} \right) \left(1 + W_{k}^{2} + \frac{Cas}{Cak} \right) w^{4} + W_{k}^{2} \right) \left(1 + W_{k}^{2} + \frac{Cas}{Cak} \right)$$

$$\frac{Variation of \frac{C_{aa}}{C_{ab}}}{\sum_{c_{ac}} E} = \frac{\left(\frac{C_{as}}{C_{ac}}\right)}{E} \frac{\partial E}{\partial \left(\frac{C_{as}}{C_{ac}}\right)} = \frac{\left(\frac{C_{as}}{C_{ac}}\right)E^{2}}{W^{6}} \left[W^{4} - \left(I + W_{e}^{2} + \frac{C_{as}}{C_{ac}}\right)w^{e} + W_{e}^{2}\right]$$
(12)

Variation of W_s

$$S_{\omega_{s}}^{E} = \frac{\omega_{s}}{E} \frac{\partial E}{\partial \omega_{s}} = \frac{\omega_{s}}{\omega^{e}} \left\{ 2 \left[\omega^{4} - (1 + \omega_{s}^{2} + \frac{c_{\alpha s}}{c_{\alpha k}}) \omega^{4} + \omega_{k}^{2} \right] \left[\omega^{2} (1 + \frac{c_{\alpha s}}{c_{\alpha k}}) - \omega_{k}^{2} \right] - \frac{\omega^{2}}{Q_{k}^{2}} (\omega_{k}^{2} - \omega^{2})^{2} \right\}$$

$$(13)$$

The computer was used to evaluate these functions by using equation (1) and working directly from the definition of the sensitivity function and assuming a 0.1% change in the independent parameter. The computer output for the sensitivity functions of alignments 1, 5, and 9, is shown in figures 29 to 34.

7. OBSERVATIONS AND CONCLUSIONS ON VARIATION OF SYSTEM PARAMETERS

Changes in QT

Examination of the graphical data (fig. 31) and equation (10) shows that the magnitude response is effected by variations of $Q_{\rm t}$ mostly at frequencies about an octave above and below the box resonance frequency. The maximum sensitivities occur at the frequencies f_1 and f_h (the frequencies at which the input impedance is maximum for the speaker mounted in the vented box as defined by Thiele). The sensitivity functions indicated that all the alignments are equally sensative (peaks of +1.0 in sensitivity) for all the alignments. Also shown is the independance of the response with respect to Q_t at the box resonance frequency.

Changes in Vab/Vas

Increases in box volume reflect an increased output at frequencies at or near the box resonance frequency (see Fig. 32). The single maximum of about +1.0 in sensitivity occurs at the box resonance frequency. Above f_h and below f_1 increases in box volume actually cause a slight decrease in system output. The response at the frequencies f_1 and f_h is volume independent for small shifts in volume. All the alignments are about equally sensitive to shifts in the volume ratio. The sensitivity of V_{ab}/V_{as} decays to zero for large and small frequencies (same behavior as sensitivity of Q_r).

Changes in fb

An increase in the box resonance frequency causes an increase in the output immediately above the optimum required box resonance frequency and a decrease in the output below this frequency (Fig. 29 and 30). For extremely high frequencies the sensitivity decays to zero. For very low frequencies the sensitivity approaches -2 (this behavior at low frequencies is expected because the denominator of (1) approaches $W_s^2 W_b^2$). The higher numbered alignments exhibit an extreme sensitivity to shifts of W_b at frequencies near the optimum box frequency. Alignment number 9 exhibits a sensitivity peak of nearly -5 just below the optimum box frequency.

Chauges in fs

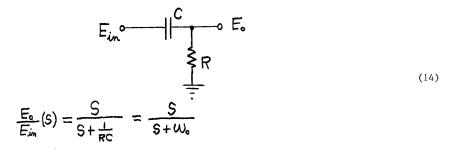
Examination of Fig. 33 and 34 shows how the response shifts if $f_{\rm S}$, the speakers free air resonance frequency, is changed. The graphs indicate a decrease in the response for positive shifts in $W_{\rm S}$. A negative peak of -2.2 in sensitivity is found approximately at the alignments box resonance frequency. A negative dip of -1.0 is observed at a frequency of about two-thirds of an octave below the speakers resonance frequency. The sensitive approaches -2 for low frequencies and 0 for high frequencies. Equal sensitivities for all the alignments are exhibited by variation of $W_{\rm s}$.

Conclusions on Cabinet Tuning Considering Sensitivity Functions

The graphs displaying sensitivity show that the speakers response is relatively insensitive to variations in $\ensuremath{\mathtt{Q}}_t$ and volume (absolute sensitivities of about 1 or less), moderately sensitive to variations in W_s the speakers resonance frequency (absolute sensitivities of about 2 or less), and quite sensitive to variations of Wb the box resonance frequency for the higher numbered alignments (absolute sensitivities of less than about 5). This data indicates that for a specific alignments cabinet design, the box should be tuned quite accurately to the computed design frequency (considering the speaker free air resonance frequency). It has been the author's experience that out of a typical batch of two to four speakers of the same make and model, a variation of 10% to 20% in free air resonance frequencies is not unusual. This means that large variations in response are to be expected if a higher number alignment cabinet is designed for a specific speaker and another of the same make and model is substituted without appropriate changes in the cabinets resonance frequency.

8. AUXILIARY FILTER SYNTHESIS

Several methods of synthesizing the high pass auxiliary filter, both active and passive, are available to the designer. In this paper only three of the most straightforward methods will be illustrated. First Order, Passive RC (Alignments No. 10 to 14)



where

 $W_o = 2\pi f_o = 1/RC = (f_{aux}/f_S)W_S$ corner frequency (-3 db) in rad/sec.

Note: The filter as shown must be driven from a source impedance of less than 0.1R for correct operation. The resistance R may be the input impedance of the following stage.

Design Procedure

Civen: f_s , $\frac{f_{aux}}{f_s}$ (from alignment table)

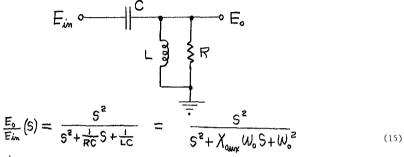
Choose: R

Calculate: $W_o = 2 \text{ Tr } f_s(\frac{f_{aux}}{f_s})$ $C = 1/(W_o R)$

The main advantage of the first order passive high pass filter is it's extreme simplicity. If the resistance R, for example, is the input impedance of a power amplifier (assumed resistive over $0.1f_s \leq f \leq 10f_s$), the amplifier input coupling capacitor would be changed to the value computed above to generate the correct auxiliary filter response.

-8-

Second Order, Passive RLC (Alignments No. 15 to 27)



where

 $W_{o} = 2 \pi f_{o} = \sqrt{\frac{1}{LC}} = \left(\frac{f_{aux}}{f_{s}}\right) W_{s}$ filter corner frequency in rad/sec $X_{aux} = \frac{1}{Q} = \frac{1}{R} \sqrt{\frac{L}{C}}$ reciprocal of filter Q

Note: This form of second order filter has been optimized for voltage transfer instead of power transfer. The voltage transfer ratio in the pass band is unity. The same assumptions on source and load impedance that apply to the first order filter also apply to this filter.

Design Procedure

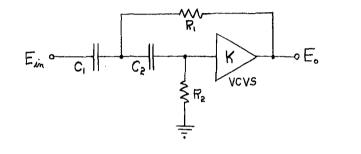
Given:
$$f_s$$
, $\frac{f_{aux}}{f_s}$, X_{aux}
Choose: R
Calculate: $W_o = 2 \pi f_s \left(\frac{f_{aux}}{f_s}\right)$
 $C = \frac{1}{X_{aux} W_0 R}$
 $L = \frac{1}{W_o Z_C}$

The disadvantage of this filter is the large values of L and C required for the low frequency alignments. For example, if a filter is designed for a speaker with $f_s = 40$ Hz for alignment No. 24 (R = 10K-A), the inductance value is 44.7 H and the capacitor value is 0.764 µF. This disadvantage leads one to consider the next synthesis method.

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Second Order, Active RC

The active RC filter considered here is one which uses a unity gain (no phase inversion) voltage-controlled voltage source VCVS (high input impedance, low output impedance) in a multiply feedback arrangement $\int 4 \int p$ 296. The VCVS is easily implemented using an operational amplifier or a high beta transistor in an emitter follower configuration.



$$\frac{E_{o}}{E_{im}}(S) = \frac{KS^{2}}{S^{2} + \left[\frac{1}{R_{2}C_{1}} + \frac{1}{R_{2}C_{2}} + \frac{1-K}{R_{1}C_{1}}\right]S + \frac{1}{R_{1}C_{1}R_{2}C_{2}}}$$

If we let K = +1, and $C_1 = C_2 = C$, we find that

$$\frac{E_{o}}{E_{in}}(S) = \frac{S^{2}}{S^{2} + \frac{2}{R_{p}C}S + \frac{1}{R_{r}R_{z}C^{2}}}$$

where

$$\omega_{o} = 2\pi f_{o} = \frac{1}{\sqrt{R_{r}R_{z}}C} = \left(\frac{\beta_{aux}}{f_{s}}\right) \omega_{s} \quad \text{filt}$$

filter corner frequency in rad/sec

(16)

$$X_{aux} = \frac{1}{Q_{aux}} = \mathcal{R} \sqrt{\frac{R_1}{R_2}}$$

reciprocal of filter Q.

-10-

Design Procedure

Given: bs, baux, Xaux Choose: C

 $\omega_{o} = 2\pi f_{s} \left(\frac{\beta aux}{\beta s} \right)$ Calculate: R, = $\frac{X_{aux}}{ZW_{o}C} = \frac{X_{aux}}{Z(2\pi faux)}$ $R_{z} = \frac{2}{\omega_{o} C \chi_{aux}} = \frac{4 R_{i}}{\chi_{aux}^{2}}$

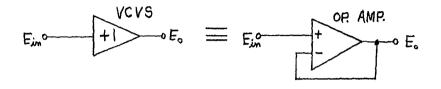
Design Example

Design an alignment No. 16 auxiliary filter for a speaker with a free air resonance frequency of 52.5 Hz.

Given:
$$\int_{S} = 52.5 H_{3}$$
.
 $\int_{B_{1}}^{B_{1}} = 0.858$
 $C = 0.420$
 $C = 0.1 \mu F$
Calculate
 $W_{0} = (6.28)(52.5)(0.858) = 283$ radius
 $R_{1} = \frac{0.42}{2(283)(1 \times 10^{-7})} = 7.42 \text{ Km}$
 $R_{2} = \frac{4(7.42 \times 10^{+3})}{(0.42)^{2}} = 168 \text{ Km}$

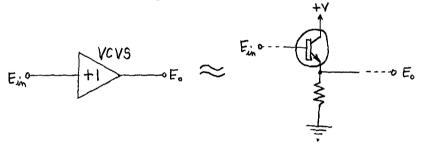
-11-

The voltage controlled voltage source can be implemented with an operational amplifier such as the 741 in the following circuit;

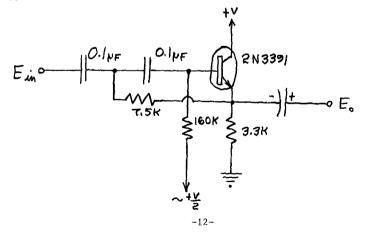


or using a super-beta transistor such as the 2N3391 in the following emitter follower configuration:

,



Choosing the latter route, a practical representative design would appear as:



The completed filter should always be checked to insure that it is generating the correct amount of boost at the peak frequency listed in the alignment table. In the example cited, the filter should boost +7.7 db at a frequency of $f_{pk} = f_s(\frac{f_{pk}}{f_s}) = 52.5(.901) = 47.2$ Hz.

9. COMPENSATION OF ALIGNMENT INCORRECT Q+

Thiele points out in his paper []] p. 475 that if a particular alignment is to be within ±1 db of the desired magnitude frequency response, the alignments Q_t must be within about ±10% of the designed value (the sensitivity functions for Q_t derived in this paper also confirm this). To achieve this somewhat close tolerance in Q_t means that either a person sticks to the particular alignments which match the measured Q_t of his speaker or use one of two forms of compensation which correct for the response deficiencies introduced by the incorrect Q_t .

The first method, variation of the power amplifiers dynamic output impedance, was covered very thoroughly in Thiele's paper [1] pp. 475-476. This method which adds to or subtracts from (via a negative output impedance) the voice coils resistance compensates very accurately for the response errors by returning the system Q_t back to the designed value. The two main disadvantages of this method are: (1) the requirement that the power amplifier must be modified to change its output impedance and (2) the possibility of amplifier instability when trying to compensate for speakers with overly high Q's placed in comparitively small boxes. The first disadvantage would cease to be a problem if a manufacturer would develop a line of amplifiers with an adjustable output impedance covering both positive and negative values. This was done to a certain extent in the fifties and early sixties with power amplifiers that contained variable damping factor controls.

The second method, equalization of the response deficiencies by the addition of filters ahead of the power amplifier, will be discussed and investigated in the next section of this paper.

Filter Equalization of Alignment Incorrect Qt

The compensation of the alignments Q_t response deviations by the addition of filters before the power amplifier will be considered in this section. The main advantage of this method is the fact that the power amplifier does not have to be internally modified because the filter will be designed to operate with a power amplifier that has flat (with respect to frequency) voltage transfer characteristics and an approximate zero output impedance (most existing power amplifiers meet these specifications). The main disadvantage of this filter method is that the response deviations will not be compensated for exactly if a simple peak-dip equalization filter is used for compensation.

To investigate the effects of variation of Q_t on a specific alignments transfer function, the computer was used to make a root locus plot of the denominator of the system transfer function for alignment No. 5. This root locus plot is shown in Figure 35 (see also Fig. 22). The plot suggests that if the system transfer function with incorrect Q_t (in factored form),

$$E_{i}(S) = \frac{S^{+}}{(S + P_{i})(S + \widetilde{P}_{i})(S + \widetilde{P}_{i})(S + P_{i})(S + \widetilde{P}_{i})}$$

where

 $P_{in} = \mathbf{X}_n + jw_n =$ complex number representing the location of the nth speaker function denominator pole with incorrect Q_t .

👡 = denotes complex conjugation

could be multiplied by another function representing the transfer characteristics of the added compensation filter (assumed to be a fourth order pole-zero filter),

$$H_{o}(s) = E_{i}(s) H_{c}(s) = E_{i}(s) \begin{bmatrix} (S+Z_{i})(S+\widetilde{Z}_{i})(S+Z_{2})(S+\widetilde{Z}_{2}) \\ (S+P_{i})(S+\widetilde{P}_{i})(S+P_{2})(S+\widetilde{P}_{2}) \end{bmatrix}^{(18)}$$

where

 $Z_n = \bigotimes_n + j w_n$ = complex number representing the location of the nth compensation filter function zero.

 $P_n = \bigotimes_n + jw_n =$ complex number representing the location of the nth compensation filter function pole.

and then letting the filter zeros approach the speakers functions poles $Z_n = P_{in}$ and the filters poles approach the correct alignments poles $P_n = P_{cn}$, the overall response would be compensated precisely.

$$H_{s}(s) = \frac{S^{t}}{(s+r)(s+\tilde{r})(s+\tilde{r})(s+r)(s+\tilde{r})(s+\tilde{r$$

(19)

(17)

In effect the added filters zeros would be cancelling the effect of the speaker functions incorrect poles and the correct poles of the filter would be substituted in their place. The disadvantage of this specific filter method is the complexity and difficulity of synthesizing this fourth order pole-zero filter.

The author's further investigation at this point was directed primarily at using a single second order peak-dip filter to compensate for incorrect response. The transfer function of the proposed compensation filter appears as:

$$H_{pd}(S) = \frac{S^2 + \frac{G_{pd}W_{pd}}{G_{pd}}S + W_{pd}^2}{S^2 + \frac{W_{pd}}{G_{pd}}S + W_{pd}^2}$$
(20)

where

 G_{pd} = gain of filter at center frequency ($W_0 = W_{pd}$, $0 \lt G_{pd} \lt \infty$)

 $W_{pd} = 2 \pi f_{pd}$ = center frequency of filter where maximum filter effect is observed.

Q_{pd} = Q of compensation filter

Figure [45] shows some of the possible responses available from this filter. The passive RLC synthesis of this type of filter is covered quite well in the book "Electronic Designers' Handbook" by Landee, Davis, and Albrecht [5] chap. 17 section 2.

Minimization of Error

To select the parameters of the second order peak-dip filter fpd, Q_{pd} , and G_{pd} a computer program was written that implemented the method of steepest descents [6] to minimize the error between the alignment's porrect response and the alignment's response with a specific value of incorrect Qt modified by the peak-dip filter.

To program the method of steepest descents for this specific case a single performance index A which is a function of the three adjustable parameters was needed. The performance index chosen was the root mean square (RMS) difference between the correct frequency response and the incorrect frequency response over a specific frequency interval,

$$A_{rume} = A_{rume} (\omega_{rod}, Q_{rod}, G_{rod}) = \left[\frac{1}{\omega_{2} - \omega_{1}} \int_{\omega_{1}}^{\omega_{2}} (M_{1} - M_{c})^{2} d\omega \right]^{\frac{1}{2}} (21)$$

-15--

where

Arms = root mean square error

 $M_{c} = M_{c}(w) = magnitude response of correct alignment$

 $M_i = M_i(w) = magnitude response of alignment with incorrect Q_t modified by the response of the peak-dip filter.$

Higher or lower order error averages such as the absolute error or the cube root mean cubed error could have been used for the performance index. The higher order averages give more weight to the extreme deviations in error. The author did not have enough time to fully investigate these other forms of error averages and their effect on the correct response. The RMS error was judged to be sufficiently sensitive to be used as a performance index for this preliminary investigation.

The method of steepest descents to minimize the error was implemented using the following steps:

(1) Starting at an arbitrary point in the three dimensional parameter space (Wpd, Qpd, $^{G}_{pd}$) with a performance index A₀, compute the partial derivatives $\underline{\partial}_{A}$, $\underline{\partial}_{A}$, $\underline{\partial}_{A}$ and form the normalized gradient vector, $\overline{\partial}_{W_{pd}}^{W}$, $\overline{\partial}_{Q_{pd}}^{Q}$, $\overline{\partial}_{P_{pd}}^{G}$

$$\overline{V_{g}} = \frac{grad A}{|grad A|} = \frac{\overline{\nabla A}}{|\nabla A|} = \frac{\partial A}{\partial W_{pd}} \vec{a}_{w} + \frac{\partial A}{\partial Q_{pd}} \vec{a}_{g} + \frac{\partial A}{\partial G_{pd}} \vec{a}_{g} \frac{1}{|\nabla A|}$$
(22)

where

 a_W , a_Q , $a_G \approx$ base unit vectors in the coordinate directions

(2) Assuming an initial vector magnitude step size of D, go to a new point in the parameter space which is a distance D away from the previous point and in the direction of minus the gradient of Λ (the direction of the minimum error) as follows:

$$\vec{P}_{I} = \vec{P}_{e} - \underline{D} \, \overline{\nabla A}_{I} = \vec{P}_{e} - D \, \vec{V}_{g}$$
⁽²³⁾

where

 P_o = vector from the origin to the starting point P_1 = vector from the origin to the new point D = magnitude of vector step

-16-

(3) Check the new point to see if the gradient has changed directions (components all change sign), if it has - half the step size D and repeat the above, if it hasn't - leave D the same and repeat the above.

(4) After each shift in parameter space check to see whether D is below a certain minimum value, if it is - the current values of W, Q, and G are the minimized values.

In the batch computer program which accomplished the previous steps the initial vector step size was 0.05 while the final comparison step size was 0.005. The RMS error was evaluated over an interval from f_b the box resonance frequency to 8 f_b with 25 steps to approximate the error integral. Each minimization was accomplished in about 12 steps and required approximately 15 seconds of the computers central prossessing unit time (CPU, IBM System 360). The peak-dip filter parameters for alignments No. 3, 5, and 9 which were computed are displayed in table II along with the compensated and uncompensated error values. Also displayed are the error values for a set of approximate peak-dip filter parameters chosen according to the following equations:

$$W_{pd} = 1.08 W_{h}$$

$$Q_{pd} = 1$$

$$G_{pd} = Q_{t}/Q_{t1}$$
(24)

where

ļ

 W_h = frequency of upper impedance peak under condition of high Q_a .

Qt = optimum alignment Q

Q_{ti} = incorrect alignment Q

Table II shows that using equations (24) the error values are not too much higher than the minimized error values. Equations (24) can be extended to compensation filters for any of the alignments. Several selected error compensation frequency responses are shown in Fig. 36 to 44 for alignments No. 3, 5, and 9. The Q_t compensation was judged to be very good for alignments No. 3 and 5 but fair to good for alignment No. 9 (especially for values of Q much lower than the optimum value). With lower than optimum system Q for the higher numbered Chebyshev alignments the response has a sharp peak at the box resonance frequency which is difficult to equalize out with just a single second order peak-dip filter.

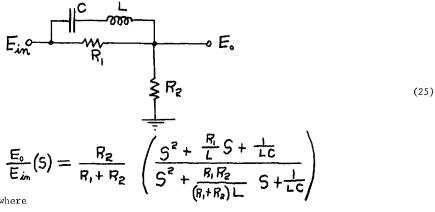
Synthesis of Qt Compensation Peak-Dip Filters

Only two synthesis schemes, one passive the other active, will be covered in any detail in this paper.

-17-

Passive RLC

Peaking Filter



where

$$W_{pd} = \frac{1}{VLC}$$

$$Q_{pd} = \frac{R_{1}+R_{2}}{R_{1}R_{2}} \sqrt{\frac{L}{C}}$$

$$G_{pd} = \frac{R_{1}+R_{2}}{R_{2}}$$

$$\frac{Dipping Filter}{E_{in}} = \frac{K_{1}+R_{2}}{R_{2}}$$

$$\frac{Dipping Filter}{E_{in}} = \frac{S^{2} + \frac{1}{CR_{1}}S + \frac{1}{LC}}{S^{2} + \frac{R_{1}+R_{2}}{R_{1}R_{2}C}S + \frac{1}{LC}}$$

$$W_{pd} = \frac{1}{VLC}$$
(26)

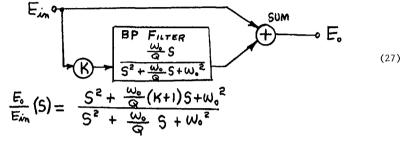
$$Q_{pd} = \frac{R_1 R_2}{R_1 + R_2} \sqrt{\frac{C}{L}}$$
$$G_{pd} = \frac{R_2}{R_1 + R_2}$$

Knowing $W_{\rm pd},\,Q_{\rm pd}$, and $G_{\rm pd}$ the previous equations can be solved for L_1 C_1 $R_1,$ and R_2

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Active

The following system block diagram illustrates a straight forward method of synthesizing the peak dip filter with an active second order band pass filter.



where

$$W_{pd} = W_{o}$$

 $Q_{pd} = Q$
 $G_{pd} = K + 1$

By proper selection of the constant K this filter will peak or dip.

The writer will not amplify on this particular active synthesis scheme. The implementation of each individual block will be left to the reader. The designer is referred to the excellent work <u>Operational Amplifiers</u> By Burr-Brown [4].

10. A PRACTICAL CABINET TUNING METHOD

For those who do not have access to a digital computing system for doing their calculations, the following enclosure tuning method which uses two sets of tables for computing respectively, the port cross-sectional area to port effective length ratio ($\mathbf{X} = \mathrm{S}_v/\mathrm{L}_v$) given the box volume and resonance frequencies, and the square port cross-section side dimension given \mathbf{X} and the actual port length, has been found quite useful by the author.

The standard form for the equation that gives the resonance frequency of a Helmholtz resonator [77] p. 193 (using Thiele's variables) is:

$$\omega_{\mathcal{R}} = C \sqrt{\frac{S_{\mathcal{N}}}{L_{\mathcal{N}} V_{\mathcal{R}}}}$$
⁽²⁸⁾

-19-

where

 $W_{\rm b} = 2\pi f_{\rm b}$ box resonance frequency in rad/sec

S_v cross-sectional area of the vent

Ly effective length of the vent

V_b volume of cabinet

C speed of sound in air

Solving for the ratio $\mathrm{S}_V/\mathrm{L}_V$ in the preceeding equation yields

$$\frac{S_{nr}}{L_{nr}} = V_{e} \left(\frac{\omega_{e}}{C}\right)^{e} = \propto$$
⁽²⁹⁾

which is recognized as the reciprocal of equation (61) in Thiele's work / 1 / p. 391. This equation was used to derive this papers "Alpha Table" which relates the variables $f_b(H_z)$, V_b (cubic inches or cubic feet), and \bigotimes (inches or inches squared per inch).

Substituting into (29) the expression for the effective length ($L_V = L + 1.46$ R, where L = the actual vent length, R = the effective radius of the vent, and assuming one end flanged and one end free standing) and solving for L gives,

$$L = \frac{S_{n}}{\alpha} - 1.46 R \tag{30}$$

The above equation can be rewritten for the special case of the vent of square cross-section of side D and Length L yielding,

$$L = \frac{D^{2}}{x} - \frac{1.46}{x}R = \frac{D^{2}}{x} - \frac{1.46}{\sqrt{\pi}}D = \frac{D^{2}}{x} - 0.825 D \quad (31)$$

The D Table contained in this paper uses relations to relate the variables D(inches), L(inches), and \bigotimes (inches or inches squared per inch).

It has been the author's experience that no matter how carefully and accurately the vent dimensions are calculated (with respect to the vent radiation assumptions etc.) a person is doing good if the cabinet resonance frequency ends up being within $\pm 5\%$ of the designed value. The author usually adds a correction factor of between 10 and 20 percent to the computed vent length so that the vent can be experimentally shortened to make the cabinet resonance frequency correct.⁴ The following partial

-20-

derivative relating f_b and L from equation (28) has been found quite useful in experimentally changing the vent length.

$$\frac{\partial \ell e}{\partial L} = -\frac{\ell e}{2L_{\rm W}} \approx -\frac{\ell e}{2L} \tag{32}$$

Noting carefully the comments Thiele makes about the vent length and area in section VII of his paper, the following procedure can be used to choose the vent dimension. 5

Design Procedure

Given: V_b, f_b

Choose: L

Calculate: $\bigotimes = \left(\frac{W_{\rm L}}{C}\right)^2 V_{\rm b}$ (Look this up in the Alpha Table) Calculate: D from relation D² - .825 \bigotimes D - \bigotimes L = 0 (Look this up in the D table)

Design Example

Tune a cabinet of 7.8 cubic feet to a frequency of 25.0 Hz. The approximate cabinet depth is 18 inches.

Given: $V_b = 7.8 \text{ ft.}^3$

 $f_{b} = 25.0 \text{ Hz}$

Look up: \mathbf{X} = 1.92 in.²/in. (On Alpha Table No. 6)

Choose: L = 10 in.

Look up: D = 5.37 in. (On D Table No. 9)

Therefore, the final vent dimensions would be approximately 5.37 x 5.37 x 12 in. deep (allowing a 20% overage in length). The cabinet should now be tuned using the above calculated vent dimensions and the box resonance frequency measured.⁶ Assuming a measured f_b of 22 lz, the amount of vent length to remove can be calculated by applying relationship

$$\frac{\partial be}{\partial L} \approx \frac{\Delta be}{\Delta L} \approx -\frac{be}{2L} = -\frac{22}{2(12)} = -0.916 \frac{H_3}{in}.$$
 (32)

$$\therefore \Delta L = \frac{\Delta be}{-0.916} = \frac{bwanted - bmeasured}{-0.916} = \frac{25 - 22}{-0.916} = -3.25 in.$$

. .

This calculation shows that if 3.25 inches is removed from the duct length the cabinet resonance frequency should be very close to the designed value. If the sign had been positive it would indicate that length must be added to the vent because the measured box frequency was higher than desired.

11. A POSSIBLE NEW SET OF ALIGNMENTS

Thiele states that alignment Nos. 17 - 19 should be avoided because of large cone excursions and the high amount of boost requiring excessive power from the amplifier. Examination of the speaker only response figure 9 and the response of the auxiliary filter figure 14 for these alignments show the reasons for Thiele's recommendation. All three of these alignments have a comparitively low value of f_3/f_b (as stated by Thiele / 17 / p. 389) and in addition have a low value of $f_{\rm pk}/f_b$. The following table tabulates these ratios for alignments No. 15 to 25 for comparison.

Alignment No.	f ₃ /f _b	f _{pk} /f _b	Aux. Filter Peak Lift in db
15	1.000	1.070	+ 6.0
16	.868	.922	+ 7.7
17	.750	.788	+10.1
18	.698	.733	+11.6
19	.659	.685	+13.2
20	1.000		
21	.954	2.25	+ 0.2
22	.917	1.61	+ 1.1
23	.902	1.47	+ 1.9
24	.890	1.38	+ 3.0
25	.876	1.29	+ 6.0

Table III										
Some	Comparisons	for	the	Sixth	Order	Alignments				

-22-

A low value of f_{pk}/f_b implies that the auxiliary filter is boosting in a frequency range which is significantly below the box resonance frequency and down into the range where the vented box distortion rises quite rapidly because of excessive cone displacement and out of phase vent radiation. The author believes that the low value of f_{pk}/f_b is primarily the main reason to reject alignment numbers 17 to 19, not specifically because of the high value of peak lift.⁷

Figures 46 and 47 show the effect on alignment Nos. 2 and 5 of tuning the box resonance frequency to lower and lower values. The last frequency response shown in each of these graphs is the output of the closed box (with the correct closed box Q_t) with the same value of V_b/V_{as} . An examination of these responses suggests that a new set of sixth or eighth order alignments could be derived for the lower values of Vb/Vas (values of V_b/V_{as} less than 0.707, Thiele's definition of a small box) which would constrain the frequency of maximum auxiliary filter boost to frequencies no less than about 0.95 f_b . Thiele's alignment No. 15, with No. 16 as a border line case, now meets these requirements. For a particular value of V_b/V_{as} , a whole list of alignments could be generated which differ mainly in the low frequency cutoff f_3 , box resonance frequency fb, and the amount of auxiliary filter boost. The primary advantage of these new suggested small box low frequency alignments lies in the contraint that the auxiliary filter boost must occur at frequencies at or above the box resonance frequency. This constraint minimizes the system distortion because the boost is primarily effective for frequencies where the vented box loading is the greatest. An illustrative alignment meeting the suggested specifications for a V_b/V_{as} ratio the same as alignment No. 2 would have the following possible characteristics: f3/f_s = 1.00, f_b/f_s = 1.10, f_{pk}/f_s = 1.10, and a peak auxiliary filter lift of about 16 db.

If the author pursues any investigation along these lines, he will report the results in the "Project Notes and Engineering Briefs" section of the AES Journal.

SUMMARY

The sensitivity functions derived for variation of the box resonance frequency for the vented loudspeaker cabinet show the extreme sensitivity of the system output for variations of this parameter. Because of the wide variance of free air resonance frequencies in a batch of the same make and model loudspeaker, the designer must nearly individually tune the resonance frequency of each cabinet to the speaker that it will be used with to eliminate wide variations of the response in the passband of the system.

The peak-dip filter equalization method of the speaker system with incorrect Q_t was shown to be quite practical for all the alignments with incorrect system Q_t 's higher than the optimum value. For Q_t 's less than the correct value the method works best for alignments with $\mathrm{V}_b/\mathrm{V}_{as}$ ratios less than about one.

The cabinet tuning tables exhibited in this paper help the designer to rapidly tune a specific cabinet without the help of a digital computer or involved hand computations.

The additional fourth order Chebyshev derived alignment makes it possible to extend the response of a speaker nearly a full octave below the speakers free air resonance frequency without the help of auxiliary filters.

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- [8] J. R. Ashley, M. D. Swan, "Improved Measurement of Loudspeaker Parameters," AES Preprint No. 803 (E-2) for the 40th AES Convention.

FOOTNOTES

¹This Q includes all the losses due to the speaker (suspension and radiation losses, voice coil I^2R losses etc.) plus amplifier losses. In the deviation of E(S) Thiele assumes a high Q for the cabinet mesh $(Q_b > 30)$.

 2 If any reader has a better idea on how this alignment might be made, the author is open for suggestions.

 $^{3}\mathrm{A}$ good explanation of sensitivity fundamentals may be found in the appendix of [4] p. 461.

 $^{\rm 4} The sensitivity functions for f_b derived in this paper (Sections 4 to 6 and Fig. 29 and 30) show that the alignments are extremely sensitive to shifts in the box resonance frequency.$

 5 In this paper the author has made no pre-assumptions concerning what values of cabinet parameters are or are not valid for listings in the tuning tables.

 6 The phase method suggested by Ashley [8] would be an excellent way to measure the box resonance frequency.

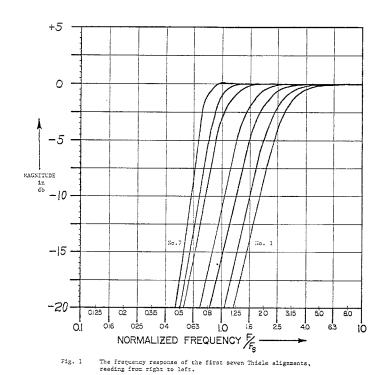
 7 Analyze a speaker system such as the Bose 901 (a closed box) which operates the speakers in a stiffness controlled mode (below the system resonance frequency) over a significant part of the low frequency range. This type of system requires a significantly high amount of bass lift to make the system flat. For normal home systems inefficiency per se does not seem to be a problem

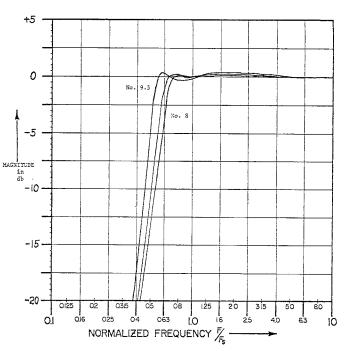
		lignme	nt Dot	aile	Box Design				Auxiliary Circuits				Impedance Peak Frequencies		
	No.	Туре		Ripple (db)	f _{3/fs}	f _b /f _s	V _b /V _{as}	Qt	f _{aux} /f _s	Xaux	Peak Lift (db)	f _{pk} /fs	f1/fs	fh/fs	fh/f1
Quasi- Third Order	1 2 3 4	QB3 QB3 QB3 QB3 QB3	 		2.68 2.28 1.77 1.45	2.000 1.730 1.420 1.230	.0954 .1337 .2242 .3390	.180 .209 .259 .303	 		 		.5127 .5161 .5282 .5406	3.901 3.346 2.681 2.273	7.61 6.48 5.075 4.205
Fourth Order	5 6 7 8 9 9.5	B ₄ C ₄ C ₄ C ₄ C ₄ C ₄	1.0 .8 .6 	 .13 .25 .55 1.52	1.000 .867 .729 .641 .600 .520	1.000 .927 .829 .757 .716 .638	.7072 .9479 1.372 1.790 2.062 2.60	.383 .415 .466 .518 .557 .625				 	.5688 .5771 .5741 .5615 .5499 .5166	1.758 1.607 1.445 1.348 1.302 1.235	3.09 2.78 2.52 2.40 2.37 2.39
Fifth Order	10 11 · 12 13 14	B5 C5 C5 C5 C5 C5	1.0 .7 .4 .355 .278	 .25 .5 1.0	1.000 .852 .724 .704 .685	1.000 .912 .814 .798 .781	1.000 1.715 3.663 4.405 5.236	.447 .545 .810 .924 1.102	1.000 1.218 1.810 2.06 2.47		 	 	.6180 .6451 .6666 .6713 .6725	1.618 1.414 1.221 1.189 1.161	2.62 2.19 1.83 1.77 1.73
Sixth Order Class I	110	^B 6 C6 C6 C6 C6 C6	1.0 .8 .6 .5 .414	 .1	1.000 .850 .698 .620 .554	1.000 .979 .931 .888 .841	.366 .429 .552 .662 .800	.299 .317 .348 .371 .399	1.000 .858 .712 .639 .576	.518 .420 .318 .265 .2215	+ 6.0 + 7.7 +10.1 +11.6 +13.2	1.070 .901 .733 .651 .576	.4710 .4864 .5032 .5094 .5123	2.123 2.013 1.850 1.743 1.642	4.51 4.14 3.68 3.42 3.20
Sixth Order Class II		^B 6 C6 C6 C6 C6 C6 C6 C6	1.0 .8 .6 .5 .414 .268	 .1 .6	1.000 .844 .677 .592 .520 .404	1.000 .885 .738 .656 .584 .461	1.000 1.385 2.000 2.415 2.832 3.623	.408 .431 .461 .484 .513 .616	1.000 .928 .819 .752 .681 .553	1.414 1.250 1.029 .895 .766 .518	$\begin{array}{r} \\ + \ 0.2 \\ + \ 1.1 \\ + \ 1.9 \\ + \ 3.0 \\ + \ 6.0 \end{array}$.6180 .6051 .5611 .5235 .4832 .4000	1.618 1.463 1.315 1.253 1.208 1.153	2.62 2.42 2.34 2.39 2.50 2.88
Sixth Order Class III	26 27	^в 6 с ₆	1.0 .268	.6	1.000 .778	1.000	1.366 9.091	.518 1.503	1.000 2.12	1.931			.6599 .7605	1.515 1.123	2.30 1.48
	27	QB3			1.952	.971	.529	.328	1.028		+ 6.0	0	.5140	1.889	3.68

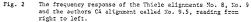
Table No. I REWRITTEN ALIGNMENT DATA

	Alignm	ent Details	,				Design m Error)			Fil (Approx	ter Design Andre Valu	
No.	Corract Qt	Incorrect Qi	Qi/Ot	fpd/fs	Qpd_	Gpd	RMS Error Unequalized (db)	RMS Error Equalized (db)	f _{pd} /f _s = 1.08f _b /f _s	Qpd	G _{pd} = fs/fpd	RMS Error Equalized (dt)
3	.259	.207 .324 .414 .518 .647 .816 1.036 1.295 1.632	.80 1.25 1.60 2.00 2.50 3.15 4.00 5.00 6.30	2.9834 2.9244 2.9170 2.8815 2.8477 2.8186 2.7924 2.7728 2.7568	1.0054 1.0031 1.0007 .9955 .9870 .9876 .9821 .9773 .9736	1.2488 .8002 .6229 .4995 .4004 .3157 .2492 .1998 .1578	$1.20 \\ 1.10 \\ 2.20 \\ 3.08 \\ 3.88 \\ 4.61 \\ 5.27 \\ 5.81 \\ 6.30 $.20 .18 .35 .48 .60 .70 .79 .86 .92	2.8951 2.3951 2.8951 2.8951 2.8951 2.8951 2.8951 2.8951 2.8951 2.8951	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.2500 .8000 .6250 .5000 .4000 .3175 .2500 .2000 .1587	.21 .18 .35 .48 .62 .76 .94 1.14 1.35
5	.383	.191 .241 .306 .479 .613 .766 .957 1.206 1.532	.50 .63 .80 1.25 1.60 2.00 2.50 3.15 2.00	2.0954 2.0590 2.0179 1.9706 1.9263 1.9004 1.8766 1.8561 1.8381	.9405 .9481 .9749 .9852 .9602 .9585 .9494 .9448 .9411	1.9771 1.5794 1.2512 .7992 .6256 .5007 .3989 .3195 .2516	4.08 2.62 1.21 1.11 2.22 3.12 3.92 4.66 5.34	.56 .38 .13 .17 .34 .43 .60 .71 .81	1.8986 1.6986 1.986 1.8986 1.8986 1.8986 1.8986 1.8986 1.8986 1.8986	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	2.000C 1.5873 1.25C0 .80C0 .6259 .5000 .4000 .3175 .25C0	.71 .46 .21 .18 .35 .49 .63 .78 .95
9	.557	.175 .223 .278 .351 .446 .696 .891 1.114 1.392	.315 .40 .50 .63 .80 1.25 1.60 2.00 2.50	1.5151 1.5013 1.4863 1.4662 1.4457 1.4111 1.3923 1.3776 1.3649	.9475 .9408 .9495 .9534 .9826 .9792 .9570 .9516 .9322	3.1589 2.4861 1.9973 1.5888 1.2547 .7971 .6201 .4943 .3963	7.34 5.63 4.11 2.64 1.22 1.12 2.25 3.16 3.98	.69 .58 .45 .31 .15 .14 .28 .39 .48	1.4052 1.4062 1.4052 1.4062 1.4062 1.4062 1.4062 1.4062 1.4062 1.4062	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	3.1746 2.5000 2.0000 1.5873 1.2500 .8000 .6250 .5000 .4000	.87 .70 .53 .34 .16 .15 .30 .43 .58

Table No. II CHARACTERISTICS OF PEAK-DIP FILTER TO COMPENSATE FOR INCORRECT Q







No. 1, 2, 3, 4 Quasi-Butterworth, Fourth Order. No. 5 Butterworth, Fourth Order. No. 6, 7 Chebychev, Fourth Order

No. 8, 9, 9.5 Chebychev, Fourth Order.

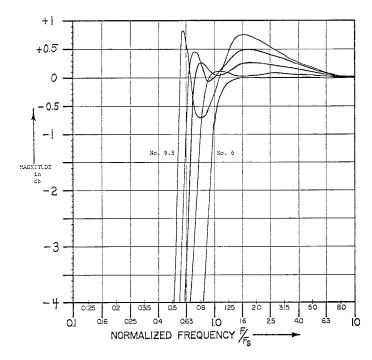


Fig. 3 The frequency response of alignments No. 6 to No. 9.5, reading from right to left, on an expanded db scale to illustrate ripple magnitude.

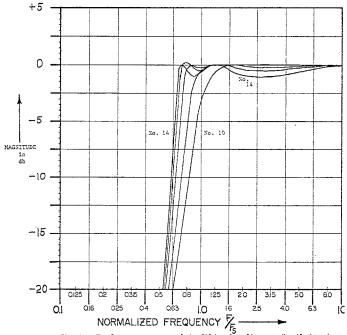
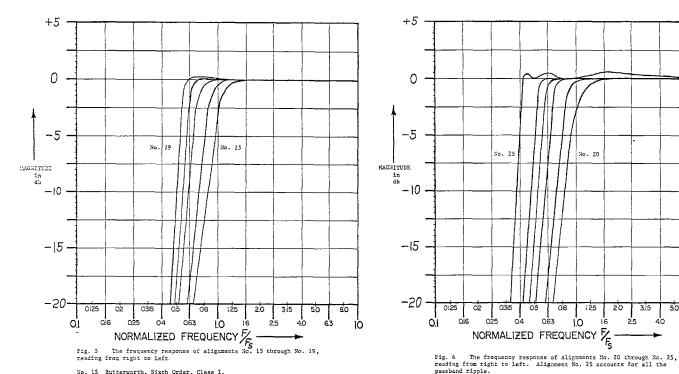


Fig. 4 The frequency response of the fifth order alignments No. 10 through No. 14, reading from right to left. The ripple magnitude increases as the alignment number gets higher.

No. 10 Butterworth, Fifth Order. No. 11 to 14 Chebychev, Fifth Order.



No. 15 Butterworth, Sixth Order, Class I.

No. 16 to 19 Chebyshev, Sixth Order, Class I.

No. 20 Butterworth, Sixth Order, Class II No. 21 to 25 Chebyshev, Sixth Order, Class II 50

63

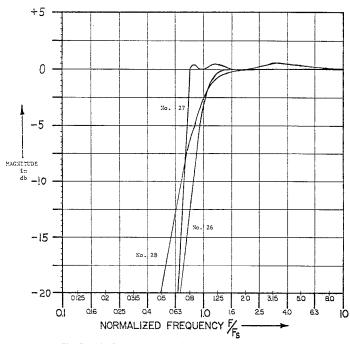
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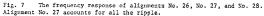
3.15

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iÒ





No. 26 Butterworth, Sixth Order, Class III.

- No. 27 Chebyshev, Sixth Order, Class III.
- No. 23 Quasi-Butterworth, Fourth Order, using first order lift auxiliary filter.

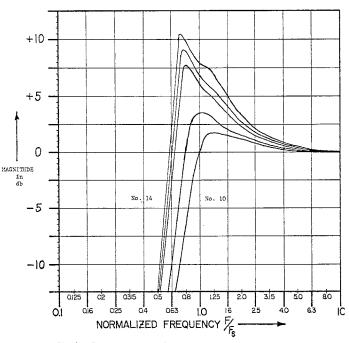


Fig. 8 Frequency response of speaker without auxiliary filter for alignments No. 10 through No. 14, reading right to left.

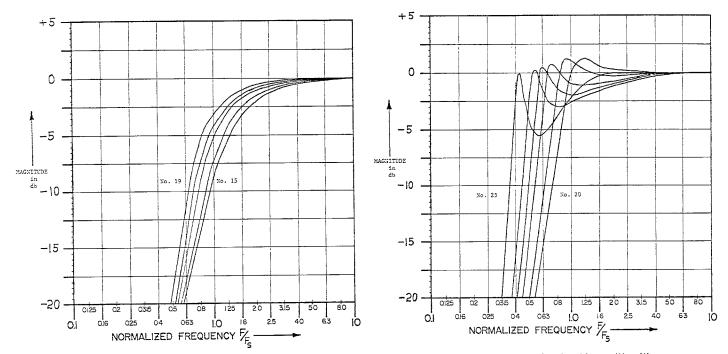


Fig. 9 Frequency response of speaker without auxiliary filter for alignments No. 15 through No. 19, reading from right to left.

Fig. 10 Frequency response of speaker without auxiliary filter for alignments No. 20 through No. 25, reading from right to left.

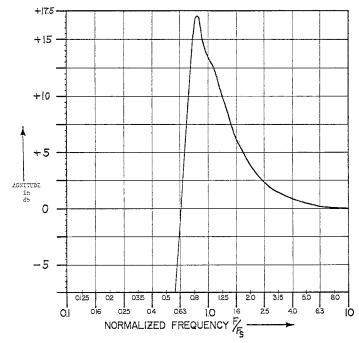


Fig. 11 Frequency response of speaker without auxiliary filter for alignment No. 27.

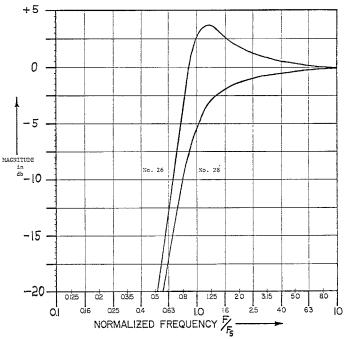
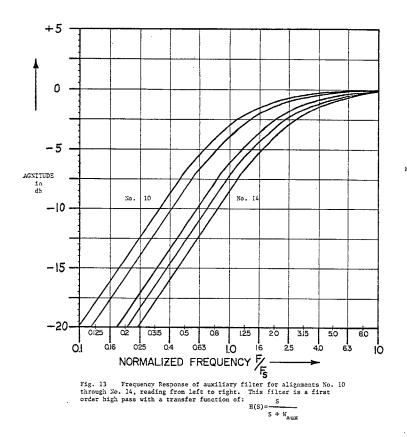
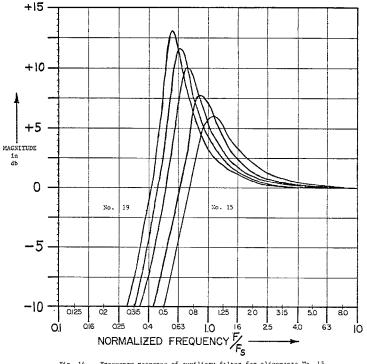
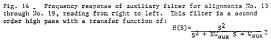


Fig. 12 Frequency response of speaker without auxiliary filter for alignments No. 26 and No. 28.







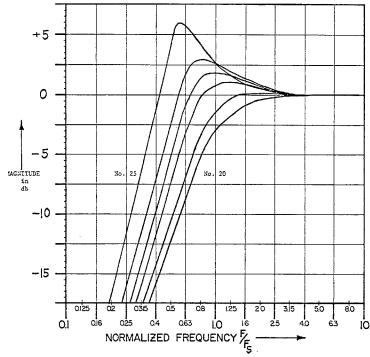
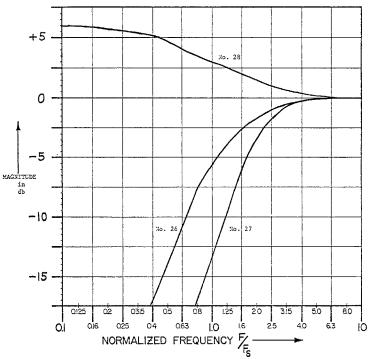
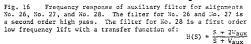


Fig. 15 Frequency response of auxiliary filter for alignments No. 20 through No. 25, reading from right to left. This filter is a second order high pass.





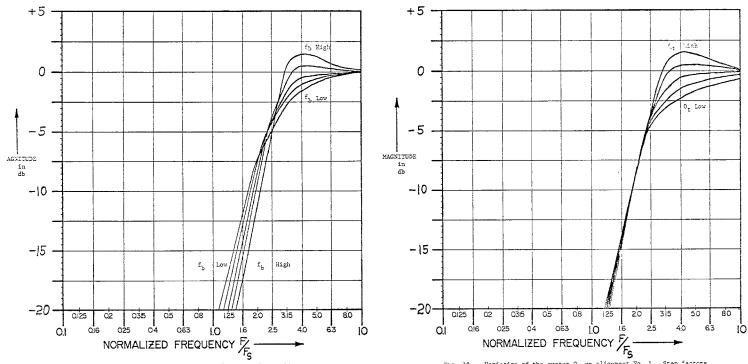
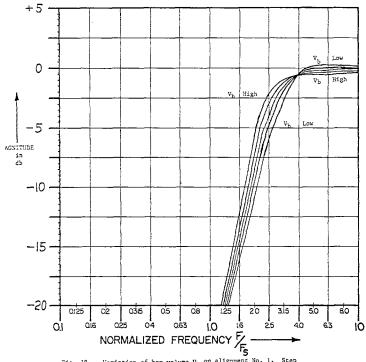
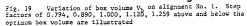


Fig. 17 Variation of the box resonance frequency $f_{\rm b}$ on alignment No. 1. Step factors of 0.794, 0.890, 1.000, 1.120, 1.259 above and below the optimum box frequency are illustrated.

Fig. 18 Variation of the system Q_1 on alignment No. 1. Step factors of 0.794, 0.890, 1.000, 1.120, 1.259 above and balow the optimum Q are illustrated. Notice the responses independance of Q at the box resonance frequency of 2D.





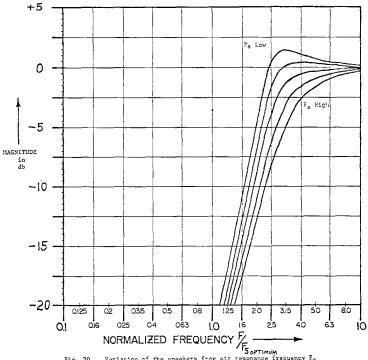
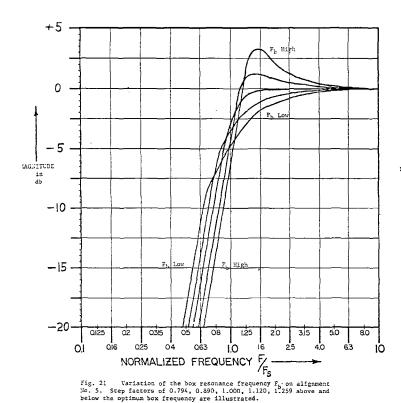


Fig. 20 Variation of the speakers free air resonance frequency F on alignment No. 1. Step factors of 0.794, 0.890, 1.000, 1.120, 1.259 above and below the optimum speaker frequency are illustrated.



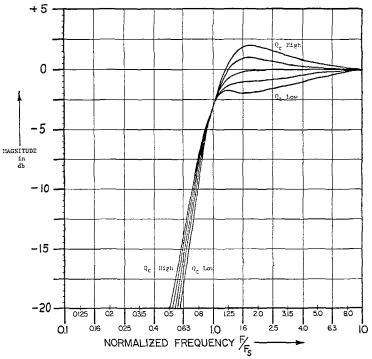
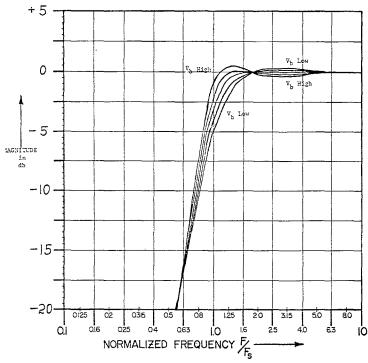
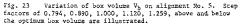


Fig. 22 Variation of the system Q_c on alignment No. 5. Srep factors of 0.794, 0.890, 1.000, 1.120, 1.259 above and below the optimum Q are illustrated. Variation of Q_c has no effect on the response at the box resonance frequency of 1.0.





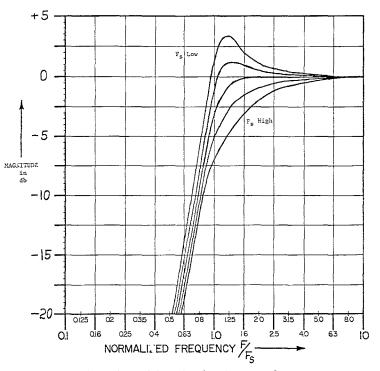
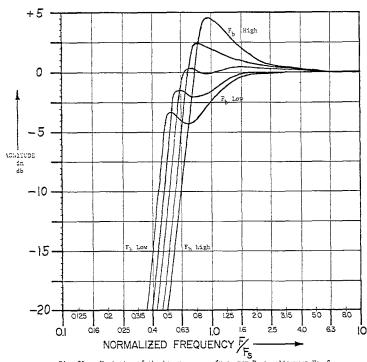
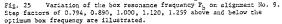


Fig. 24 Variation of the speakers free air resonance frequency $F_{\rm S}$ on alignment No. 5. Step factors of 0.794, 0.890, 1.000, 1.120, 1.259 above and below the optimum speaker frequency are illustrated.





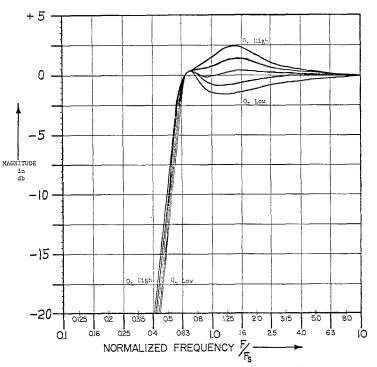
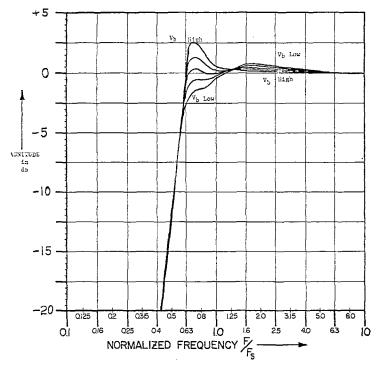
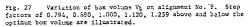


Fig. 26 Variation of the system Q₂ on alignment No. 9. Stef factors of 3.754, 0.800, 1.000, 1.120, 1.259 above and below the optimiz Q are illustrated. The box resonance frequency for this alignment is 0.715.





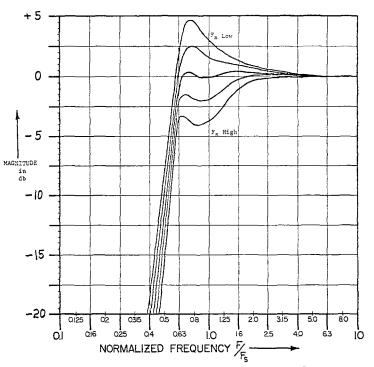
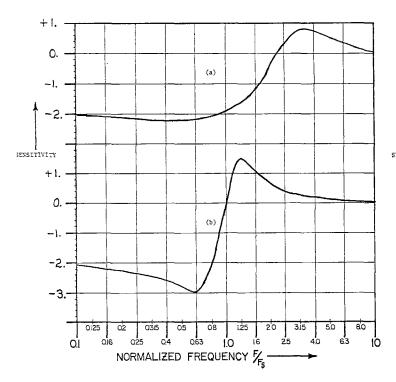


Fig. 28 Variation of the speakers free air resonance frequency $F_{\rm e}$ on alignment No. 9. Step factors of 0.794, 0.890, 1.000, 1.120, 1.259 above and below the optimum speaker resonance frequency are illustrated.



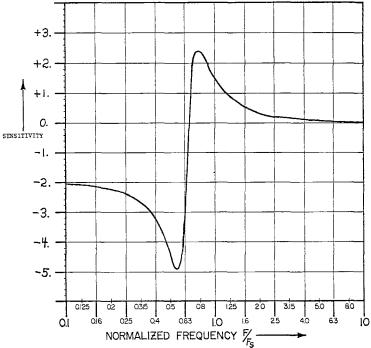


Fig. 29 Sensitivity functions for variation of $\rm F_b,$ the box resonance frequency, for alignments (a) No. 1, and (b) No. 5.

Fig. 30 Sensitivity function for variation of ${\cal F}_b$ for alignment No. 9. Note the extreme values of this function for frequencies near the alignments normal box resonance frequency.

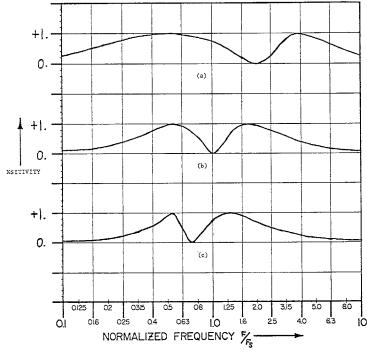
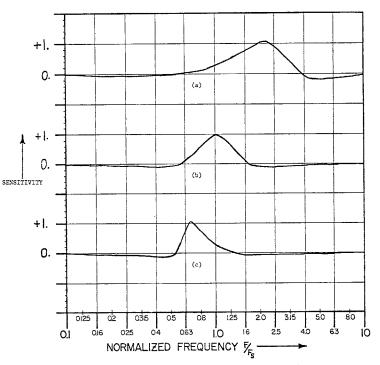
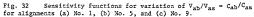


Fig. 31 Sensitivity functions for variation of Q_t for alignments (a) No. 1, (b) No. 5, and (c) No. 9.





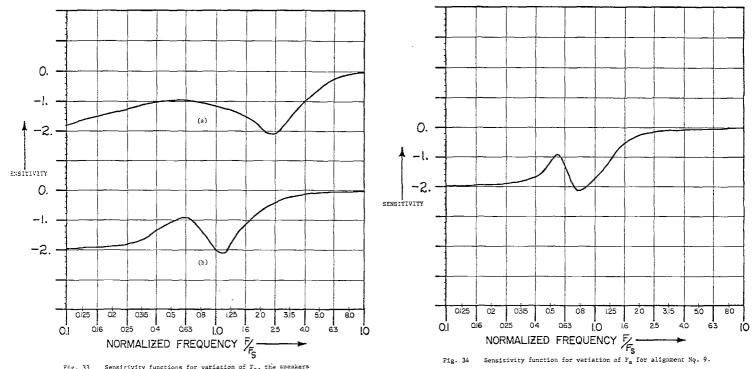


Fig. 33 Sensitivity functions for variation of $F_{\rm p}$, the speakers free air resonance frequency, for alignments (a) No. 1, and (b) No. 5.

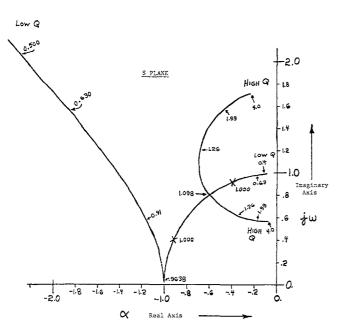


Fig. 35 Root locus plot of the poles of the denominator of alignments No. 5 transfer function as a function of the variation of the alignments Q_1 . The numbers along the plot refer to the ratio of the actual Q to the the correct Q. The X points are the pole locations for the correct Q values. The complex conjugate poles below the real axis, which execute the same variation but reflected about the real axis, are not shown.

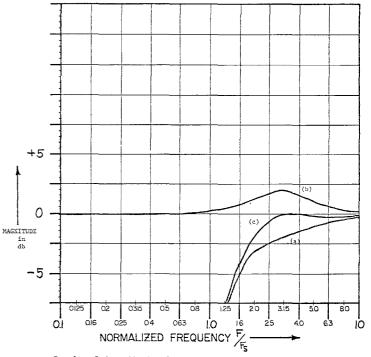


Fig. 36 Peak equalization of incorrect Q_t . These frequency responses illustrate the effect of a second order peaking filter on alignment No. 3 with a Q_t lower than the proper value by a factor of 0.8. The characteristics of the peak filter were chosen to minimize the RMS error over the interval of f_b to $8f_b$.

- (a) Response before equalization
- (b) Peak filter response
- (c) Response after equalization

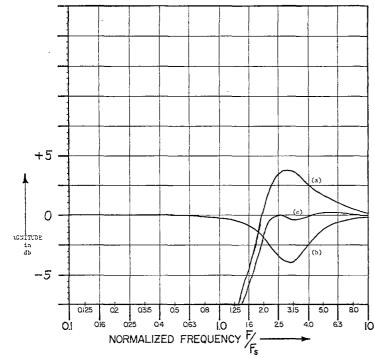


Fig. 37 Dip equalization of incorrect Q_t . These responses illustrate the effect of a dip filter on alignment No. 3 with a Q_t which is higher than the correct value by a factor of 1.6. The dip filter characteristics were chosen to minimize the RNS error over the interval of f_b to 8 fb.

- (a) Response before equalization
- (b) Dip filter response
- (c) Response after equalization

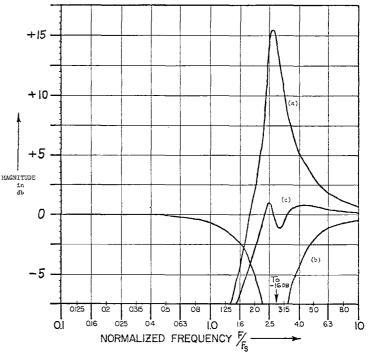


Fig. 38 Dip equalization of incorrect $Q_{\rm L}$. These responses illustrate the effect of a dip equalizer filter on alignment No. 3 with a $Q_{\rm L}$ which is higher than the optimum value by a factor of 6.3. The characteristics of the dip filter were chosen to minimize the RMS error over the interval of $f_{\rm L}$ to 8 $f_{\rm L}$.

- (a) Response before equalization
- (b) Response of dip filter
- (c) Response after equalization

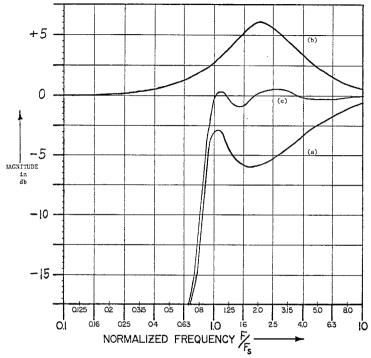


Fig. 39 Peak equalization of incorrect Q. These frequency responses illustrate the effect of a second order peaking filter on alignment No. 5 with a Q_c lower than the correct value by a factor of 0.5. The characteristics of the peak filter were chosen to minimize the RMS error over the interval from f_h to 8 f_b.

- (a) Response before equalization
- (b) Frequency response of peak filter
- (c) Response after equalization

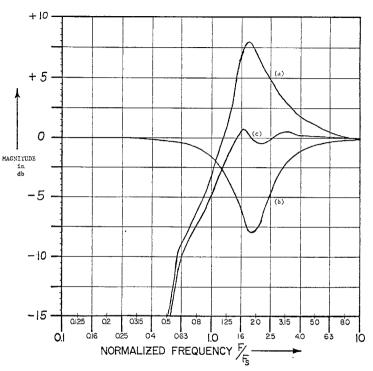


Fig. 40 Dip equalization of incorrect Q_c. These frequency responses illustrate the effect of a second order dip equalizer on alignment D₀. 5 with a Q_t higher than the optimum Q_t by a factor of 2.5. The characteristics of the auxiliary dip filter were chosen to minimize the RMS error on an interval from f_h, to 8f_h.

- (a) Response before equalization
- (b) Frequency response of dip filter
- (c) Response after equalization

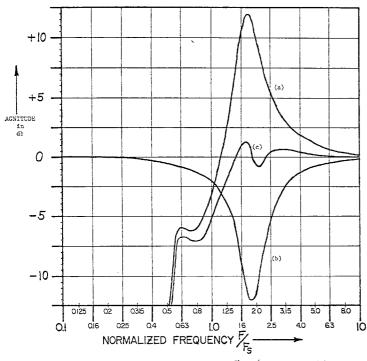


Fig. 41 Dip equalization of incorrect Q_t. These frequency responses illustrate the effect of a dip equalizer on alignment No. 5 with a Q_t higher than the correct Q_t by a factor of 4.0. The characteristics of the dip filter were chosen to minimize the RMS error over the interval from β_b to 8 β_b .

- (a) Response before equalization
- (b) Dip filter response
- (c) Response after equalization

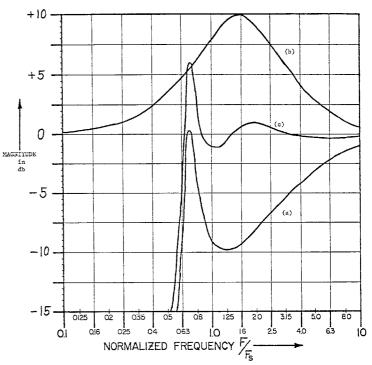


Fig. 42 Peak equalization of incorrect Q_{\pm} . These responses illustrate the effect of a dup equalizer on alignment No. 9 with a Q_{\pm} which is lower than the optimum value by a factor of 0.315. The characteristics of the equalization filter ware closen to minimize the RUS error over an interval of β_{\pm} to 85.

- (a) Response before compensation
- (b) Response of peak filter
- (c) Response after compensation

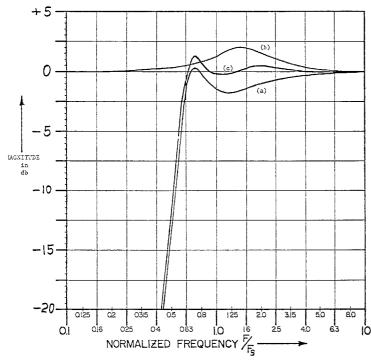


Fig. 43 Peak equalization of incorrect Q_L . These responses allustrate the effect of a second order peaking filter on alignment Xo. 9 with a_L lower than the correct value by a factor of 0.8. The filter characteristics were chosen to minimize the RMS error over the interval of f_h to δf_b .

- (a) Response before equalization
- (b) Response of correction filter
- (c) Response after equalization

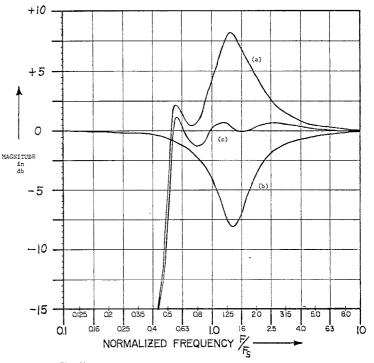


Fig. 44 Dip equalization of incorrect $C_{\rm L}$. These responses illustrate the effect of a dip equalizer filter on alignment No. 9 with a $Q_{\rm L}$ thich is higher than the correct $Q_{\rm L}$ value by a factor of 2.5. The dip filter characteristics were chosen to minimize the RMS error over the interval fb to 8f.

- (a) Response before equalization
- (b) Dip filter response
- (c) Response after equalization

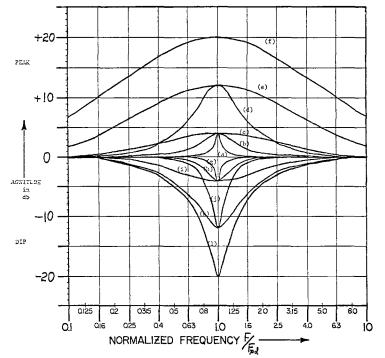


Fig. 45 Facily of possible fraquency response curves for the second order peak-dip compensation filter with the transfer function $\lim_{pd}(s) = \frac{s^2 + (G_{pd} \ W_{pd}/Q_{pd}) \ s + W_{pd}^2}{\overline{s^2 + (W_{pd}/Q_{pd})s + W_{pd}^2}}$

				DID	
	c _{pd}	Q _{pd}		Gpd	Qpd
(a) (b) (c) (d) (e) (f)	1.582 1.582 1.582 4.0 4.0 10	8.0 2.0 0.5 2.0 0.5 2.0	(g) (h) (i) (j) (k) (l)	0.63 0.63 0.25 0.25 0.10	8.0 2.0 0.5 2.0 0.5 2.0

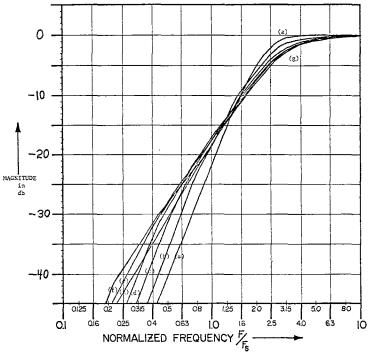


Fig. 46 The effect on alignment No. 2 of tuning the box resonance frequency to lower and lower values. Curve (a) is the optimum ventual box alignment with entry (a) is the optimum closed box alignment with the same $V_{\rm b}/V_{\rm 2B}$ ratio.

	f _b /f _s	Qt
(a)	1.73	0.209
(b)	1.37	0.213
(c)	1.09	0.217
(d)	0.865	0.220
(e)	0.688	0.224
(f)	0.546	0.228
(g)	0.000	0.234

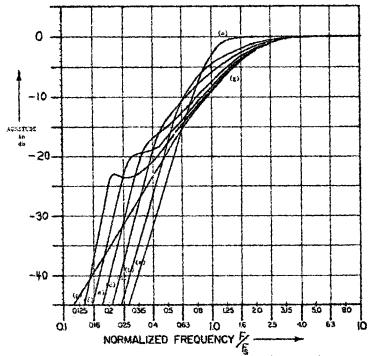


Fig. 67 The effect on alignment 36. 5 of tuning the box resumance frequency to lower and lower values. Gurve (a) is the optimum vented box alignment while curve (a) is the optimum closed low alignment with the same V₀/V₈₅ state. Note that for frequencies less than 0.51 /s the lowerad box alignments while our was have note output than either the optimum volues.

	15/1 ₈	Ű.
(a)	3.00	0.185
(2)	0.50	0.391
(e)	Ø. 6)	0.399
153	0.50	A.407
(6)	0.40	8,415
(8)	0.315	0.423
(g)	0.000	0.455

**** -BCX HZ (DUWN) 10.60 * 3.73E-04 4.19E-04 4.70E-04 5.27E-04 5.91E-04 6.63E-04 7.44E-04 8.35E-04 9.37E-04 1.05E-03 10.32 * 3.97E-04 4.45L-04 5.0CE-04 5.61E-04 6.29E-04 7.06E-04 7.92E-04 8.43E-04 9.46E-04 1.01E-03 10.64 * 4.22E-04 4.74E-04 5.32L-04 5.77E-04 6.70E-04 7.51E-04 8.43E-04 9.46E-04 1.06E-03 1.19E-03 10.98 * 4.50E-04 5.64E-04 5.64E-04 4.35E-04 7.31E-04 8.43E-04 7.99E-04 1.01E-03 1.31E-03 1.27E-03 11.33 * 4.78E-04 5.37E-04 6.76E-04 6.76E-04 7.58E-04 8.51E-04 9.55E-04 1.07E-03 1.20E-03 1.35E-03 7.58E-04 11.08 5.096-14 5.711-04 6.416-74 7.196-04 8.07E-04 9.05E-04 1.02E-03 1.14E-03 1.28E-03 1.43E-03 9.64E-C4 1.03E-03 12.05 * 5.42E-04 12.43 * 5.77E-04 6.08E-04 6.47E-04 6.82E-04 7.26E-04 7.65E-04 8.15E-04 8.59E-04 5.14E-04 1.08E-03 1.216-03 1.36E-03 1.536-03 1.15E-03 1.20E-03 1.46E-03 1.63E-03 1.63E-03 1.22E-03 1.37E-03 1.64E-03 1.63E-03 1.3CE-03 1.46E-03 1.64E-03 1.84E-03 1.156-03 1.09E-03 6.14E-04 6.898-04 7.73E-34 8.67E-04 9.73E-04 12.83 * 1.84E-1.16E-03 1.3CE-03 1.64E-03 13.23 * 6.53E-04 7.33L~-14 8.226-04 9.221-04 1.04 E-03 9.82E-04 1.10E-03 1.24E-03 1.39E-03 1.56E-03 1.75E-03 1.90F-03 1.04E-03 1.17E-03 1.32E-03 1.49F-03 1.66E-03 1.66E-03 2.08E-03 1.11E-03 1.25E-03 1.40E-03 1.57E-03 1.76E-03 1.68E-03 2.20E-03 1.18I-03 1.33E-03 1.49E-03 1.67E-03 2.36E-03 2.36E-03 1.25E-03 1.41E-03 1.59F-03 1.78F-03 2.00E-03 2.24E-03 2.51E-03 7.806-04 13.65 ★ 6.95+-04 8.758-04 * 7.40E-04 * 7.87E-04 * 8.38E-04 8.30F-04 9.316-04 14.08 8.831-04 9.911-04 1.05E-03 9.461-64 14,99 * 1.00L-03 1.128-03 8.91E~04 15.46
 1.19F-03
 1.34E-03
 1.50E-03
 1.69E-03
 1.89E-03
 2.12E-03
 2.38E-03
 2.67E-03

 1.27E-03
 1.43E-03
 1.60E-03
 1.60E-03
 2.01E-03
 2.26E-03
 2.58E-03
 2.56FE-03

 1.35E-03
 1.52E-05
 1.7CE-03
 1.91E-03
 2.14E-03
 2.41E-03
 2.70E-03
 3.03E-03

 1.44E-03
 1.62E-03
 1.93E-03
 2.22E-03
 2.56TE-03
 3.22E-03

 1.53E-03
 1.52E-03
 1.93E-03
 2.24E-03
 2.27E-03
 3.06E-03
 3.42E-03
 15.491-04 1.068-03 1.01E-03 16.45 1.13(--)3 16.97 * 1.07E-03 16.97 * 1.07E-03 17.51 * 1.14E-03 18.06 * 1.22E-03 1.218-03 1.286-03 18,06 1.37L-03 1.63C-03 1.83E-03 2.05E-03 2.30E-03 2.58E-03 2.90E-03 3.25E-03 3.65E-03 1.73E-03 1.95E-03 2.18E-03 2.45F-03 2.75E-03 3.90E-03 3.468E-03 3.88E-03 1.85E-03 2.07E-03 2.32E-03 2.61E-03 2.93E-03 3.28E-03 3.68E-03 4.13E-03 1.96E-03 2.20E-03 2.47E-03 2.18E-03 3.11E-03 3.49E-03 3.92E-03 4.40E-04 18.63 * 1.29E-03 1.45E-03 19.22 * 1.38E-03 1.55E-03 19.63 * 1.47E-03 1.65E-03 1.55E-03 1.656-33 * 1.56E-03 * 1.66E-03 2.20E-03 2.47E-03 2.78E-03 3.11E-03 3.49E-03 3.92E-03 4.40E-03 2.35E-03 2.63E-03 2.95E-03 3.31E-03 3.72E-03 4.17E-03 4.68E-03 1.75E-C3 20.46 1 + 860 = 332.091-03 21.10 2.23E-03 2.55E-03 2.86E-03 3.14E-03 3.53E-C3 3.96E-03 4.44E-03 4.98E-03 2.37E-03 2.66E-03 2.98E-03 3.35E-03 5.75E-03 4.21E-03 4.73E-03 5.30E-03 2.52E-03 2.83E-03 3.17E-03 3.56E+03 3.99E+03 4.48E+03 5.03E+03 5.64E+03 2.68E+03 3.61E+03 3.58E+03 3.79E+03 4.25E+03 4.77E+03 5.35E+03 6.00E+03 21.77 * 1.77E-J3 1.56E-03 22.46 * 1.88E-03 2.11E-03 23.17 * 2.00E-13 2.25E-03 23.90 * 2.13E-03 * 2.27E-03 2.39E-03 3.20E-C3 2.856-03 3.59F-03 4.03E-03 4.52E-03 5.08E-03 5.69E-03 6.39E-03 24.65 2.546-03 3.04E-73 3.41E-03 3.82E-03 4.29E-03 3.23E-03 3.63E-03 4.07E-03 4.57E-03 2.44E-93 3.86F-03 4.33E-03 4.86F-03 4.81E-03 5.40E-03 6.06E-03 6.89E-03 5.12E-03 5.75E-03 6.45E-03 7.24E-03 2.41(-03 2.716-03 25.43 * 26.24 * 2.57E-03 2.88E-03 27.C7 * 2.73F-03 3.C7t-C3 27.92 * 2.91E-03 3.26E-03 4.86F-03 5.45E-03 6.12E-03 6.86E-03 7.70E-03 5.17F-03 5.80E-03 6.51E-03 7.30E-03 8.20E-03 5.50E-03 6.17E-03 6.93E-03 7.77E-03 8.72E-03 3.66E-03 4.118-03 4.61F-03 * 3.C9E-03 3.471-03 2.908-03 4.376-03 4.908-03 28.80

ALPHA TABLE NC. 1 CONTINUED.

											a
29.71	*	3.29E-03	3.726-03	4.158-03	4.656-03	5.226-03	5.86E-03	6.57E-03	7.376-03	8.276-03	9.28F-03
33.65	*	3.50F-03	3.93E-03	4.41E-03	4.956-03	5.556-03	6.238-03	6.996-03	7.856-03	8.80E-03	9.88E-03
31.62	*	3.73E-03	4.19[-03	4.708-03	5.276-03	5.916-03	6.63E-03	7.44E-03	8.356-03	9.37E-03	1.05E-02
32.62	*	3.97E-03	4.456-03	5.00E-03	5.61E-03	6.29E-93	7.066-03	7.92E-03	8.895-03	9.97E-03	1.12E-02
33.65	*	4.228-03	4.741-03	5.32E-03	5.976-03	6.70E-03	7.516-03	8.43E-03	9.46E-03	1,06E-02	1.19E-02
34.72	¥	4.50E-C3	5.048→33	5.06[-03	6.356-03	7.13F~03	7,99E-03	8.97E-03	1.016-02	1.13E-02	1.27E-02
35.81	ŧ	4.78E-03	5.37F-C3	6.C2L-93	6.76E-03	7.58E-03	8.51F-03	9.551-03	1.076~02	1.206-02	1.35E-02
36.95	¥	5,096-03	5.711-03	€.41E=03	7.196-03	8.076-03	9.05E-03	1.02E-32	1.146-02	1.286-02	1.43E-02
30.11	*	5.426-03	6.088-03	6.826-03	7.65E-03	8.596-03	9.646-03	1.C8E-C2	1.216-02	1.368-02	1.536-02
39.32	*	5.771-03	6.471-03	7.265-13	8.158-03	9.14E-03	1.03F-02	1.156-32	1.298-02	1.45E-02	1.638-02
40.56	*	6.14E-03	6.191-03	1.73t-C3	8.671-33	9.73E-03	1.09E-02	1.22E-02	1.37E-02	1.54F-C2	1.736-02
41.84	*	6.53E-C3	7.33L-C3	8.22E-03	9.228-03	1.04E-02	1.16E-02	1.30E-02	1.46F-02	1.64E-02	1.84E~02
43.17	*	6,958-03	7.806-03	E.75E-73	9.828-03	1.108-02	1.24E-02	1.39E-02	1.566-02	1.756-02	1.96E-02
44.53	*	7.402-03	8.3)6-03	9.316-03	1.046-02	1.178-02	1.32E-02	1.48F-02	1.666-02	1.86E-02	2.09E-05
45.54	*	7.876-03	8.636-03	9.91E-03	1.116-02	1.251-02	1.40E-02	1.576-02	1.766-02	1.985-02	2.226-02
47.39	*	8.38E-03	9.40E-f3	1.C5t-02	1.186-02	1.336-02	1,496-02	1.671-02	1.885-02	2.10E-02	2.366-02
48.89	*	8.91E=03	1.000-02	1.126-02	1.26E-02	1.416-02	1.59F-02	1.786~^2	5.00E-05	2.24E-02	2.51E-02
56.43	¥	9.49E-03	1.166-02	1,198-02	1.34E-C2	1.50E-02	1.69E-02		2.126-02	2.38E-02	2.67E-02
52.03	¥	1.016-02	1.136-02	1.276-02	1.438-02	1.601-02	1.80E-02	2.01E-02	2.26E-02	2.54E-02	2.85E-02
53.67	*	1.076-02	1.21E-^2	1.356-02	1.525-02	1.706-02	1.916-02	2.14E∽C2	2.416-02	2.70E-02	3.038-02
55.37	¥	1.14E-J2	1.236-02	1.446-02	1.02F-02	1.815-02	2.03F→02	2.286-02	2.566-02	2.87E-02	3.226-72
57.12	*	1,226-02	1.378-02	1.53E-02	1.72E-62	1.93E-02	2.16E-02	2.436-02	2.72E-02	3.06F-05	3.43E-02
58.92	*	1.29E-02	1,45(-(2	1.636-02	1.83E-02	2.056-02	2.306-02	2.586-02	2.90E-02	3.25E-02	3.656-02
66.78	*	1.38F-02	1.558-02	1.736-02	1.956-02	2.185-02	2.456-02	2.75E-02	3.098-02	3.46E-02	3.88E-02
62.70	*	1.476-02	1.651-02	1.856-02	2.C7E-02	2.32E-02	2.61E-02	2.93E-02	3.286-02	3.68E-02	4.13E-02
64.69	*	1.568-02	1.751-52	1.966-62	2.20E-02	2.47E-02	2.781-02	3.11E-32	3.498-02	3.928-02	4.406-02
66.73	*	1.666-62	1.808-02	2.095-02	2.356-02	2.636-02	2.95E~02	3.31E-C2	3.728-02	4.17E-02	4.688-02
68.84	*	1.778-02	1.58E-02	2.236-02	2.506-02	2.80E-02	3.14E-02	3.53E-02	3.966-02	4.446-02	4.986-02
71.02	*	1.88E-12	2.116-02	2.375-02	2.006-02	2,985-02	3.356-02	3.75E-02	4.216-02	4.736-02	5.30E-02
73.26	*	2.00E-02	2.258-02	2.520-02	2.83E-02	3.176-02	3.56E-02	3.996-02	4.48E-02	5.03E~02	5.64E-02:
75.58	*	2.131-02	2.391-02	2.680-02	3.016-02	3.386-02	3.79E-02	4.256-02	4.77E-02	5.356-02	6.00E-02
77,96	٠	2.275-02	2.546-02	2.856-02	3.20E-02	3.59E-02	4.03E-02	4.52E-02	5.086-02	5.69E-02	6.39E-02
80.43	*	2.41E-02	2.716-02	3.04E-02	3.41E-C2	3.826-02	4.29E-02	4.81E-02	5.400-02	6.06E-02	6.80E-02
82.97	*	2.576-72	2.846-02	3.236-02	3.63E-02	4.078-02	4.57E-02	5.126-32	5.75E-02	6.455-02	1.248-32
85.59	*	2.736-02	3.070-02	3.440-02	3.86E-02	4.335-02	4.866-02	5.456-02	6.12E-02	6.86E-02	7.70E-02
88.30	*	2.916-02	3.26E-C2	3.66t-C2	4.110-02	4.61E-02	5.17E-02	5.806-02	6.516-02	7.306-02	8.201-02
91.09	۰	3+098-02	3.470-22	3.90E-02	4.37E-02	4.906-02	5.508-02	6.17E-32	6.93E-02	7.77E-02	8.725-32
\$3.97	*	3.296-02	3.701-02	4.15F-02	4.65E-02	5.22E-72	5.86E-32	6.57E-02	7.376-02	8.275-02	9.28E-02
96.94	*	3.50E-02	3.938-02	4.416-02	4.956-02	5,551-02	6.23E-02	6.99E-02	7.856-02	8.80E-02	9.88E-02
100.00	*	3.738-02	4.191-02	4.7/1-02	5.278-02	5.916-02	6.63E-02	7.44E-02	8.356-02	9.37E-02	1.05E-01

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1.******	***	*******	******	***** ALP	HA TABLE N	.C. 2 FOR	CABINET TU	I∿ING *****	****	****	****
		ES FROM	0.032 10	C.089 C	UBIC FEFT	OR 5.46E	01 10 1.	54E 02 CU	BIC INCHES	•	
		CROSS }			(PORT EFFE						
		3.16E-02	3.556-02	3.986-02	4.476-02	5.01E-02	5.628-02	6.31E-02	7.08E-02	7.94E-02	8.91E-02
		5.46E 01	6.130 01	£.88E 01	7.72E C1	8.66E D1	9.72E 01	1.09E 02	1.226 02	1.37E 02	1.54E 02
F-BCX											
******	****	****	******	***	*****	*****	*****	***	*****	*****	****
10.00		1.186-03	1.321-03	1.48E-03	1.676-03	1.87E-03	2.106-03	2.356-03	2.646-03	2.965-03	3.326-03
10.32	*	1.266-03	1.416-03	1.58E-03	1.776-03	1.996-03	2.23E-03	2.508-03	2.816-03	3.156-03	3.54E-03
10.64	*	1.34E-03	1.50E-03	1.686-03	1.89E-03	2.12E-03	2.38E-03	2.676-03	2.996-03	3.365-03	3.76E~03
10.98	*	1+42E-03	1.596-03	1.798-03	2.01E-03	2.256-03	2.53E-03	2.84E-03	3.186-03	3.57E-03	4.01E-03
11.33	*	1,516-03	1.70E-03	1.900-03	2.14E-03	2.40E-03	2.696-03	3.02E-03	3.395-03	3.806-03	4.26E-03
			14192 05		24140 05	2.401.00	2.092-09	3.026-03	2.295-03	3.000-33	4.202-03
11.68	*	1.416-03	1.816-03	2.036-03	2.276-03	2.558-03	2.865-03	3.216-03	3.6CE-03		4
12.05	*	1.716-03	1.926-03	2.165~03	2.426-03	2.72E-03	3.058-03			4.04E-03	4.54E-03
12.43	*	1.826-03	2,05t-03	2.30E-03	2.58E-03	2.89E-03		3.428-03	3.84E~03	4.30E-03	4.836-03
12.83	*	1.94E-03	2.186-03				3.24E-03	3.64E-03	4.08E-03	4.58E-03	5.14E-93
				2.44E-03	2.746-03	3.08E-03	3.456-03	3.87E-03	4.34E-03	4.876-03	5.47E-03
13.23	*	2.06E-03	2.326-03	2.60E-03	2.926-03	3.276-03	3.678-03	4.128-03	4.626-03	5.19E-03	5.82E-03
13.65	*	2.201-03	2.476-03	2.176-03	3.106-03	3.48E-03	3.916-03	4.386-03	4.920-03	5.52E-03	6.19E-03
14.08	×	2.346-03	2.621-03	2.94E-03	3.30E-03	3.716-03	4.16E-03	4.67E-03	5.24E-03	5.876-03	6.59E-03
14.53	*	2.498-63	2.79E-C3	3.13E-03	3.526-03	3.94E-03	4.436-03	4.978-03	5.576-03	6.25E-03	7.016-03
14.99	*	2.65E-03	2.97E-03	3.336-03	3.74E-C3	4.202-03	4.718-03	5,286-03	5.938-03	6.65F-03	7.466-03
15.46	4	2.828-03	3.166-03	3.556-03	3.986-03	4.47E-03	5.01E-03	5.626-03	6.318-03	7.08E-03	7,946-03
15.95	*	3.00E-03	3.376-03	3.785-03	4.246-03	4.756-03	5.336-03	5.996-03	6.728-03	7.53E-03	8.458-03
16.45	÷	3.19E-03	3.536-03	4.026-03	4.518-03	5.06E-03	5.688-03	6.37E-03	7.15E-03	8.026-03	9.00E-03
16.97	4	3.406-03	3.81E-03	4.28E-03	4.80E-C3	5.38E-03	6.04E-03	6.78E-03	7.61E-03	8.536-03	9.578-03
17.51	*	3.625-03	4.06E-03	4.55E-03	5.116-03	5.73E-03	6.435-03	7.218-03	8.091-03	9.08E-03	1.028-02
18.06	*	3.856~03	4.326-03	4.84E-03	5.43E-03	6.108-03	6.84E-03	7.68E-J3	8.615-03	9.666-03	1.08E-02
									0.010 05		1.000 00
18.63	¥	4.09E-03	4.576-03	5.158-03	5.786-03	6.49E-03	7.286-03	8.176-03	9.176-03	1.03F-02	1.15E-02
19,22	*	4.36E-03	4.891-03	5.496-03	6.165-03	6.91E-03	7.756-03	8.69E~73	9.766-03	1.09E-02	1.23E-02
19.83	*	4.64E-03	5.20E-03	5.84E-01	6.556-03	7.35E-03	8.25E-03	9.25E-03	1.04E-02	1.166-02	1.316-02
20.46	*	4.945-03	5.546-03	6.216-03	6.97E-03	7.82E-03	8.78E-03	9.856-93	1.10E-02	1.24E-02	1.395-02
21,10	*	5.25E-03	5.891-03	6.61E-03	7.42E-03	8.32E-03	9.346-03	1.05E-02	1.186-02	1.326-02	1.486-02
		J.L.J.L 0.J	5.072 05		1.122 05	0.522 05	J.J.HL -0 J	1. JJC-32	1.100-02	1.526-02	1.405~02
21.77	٠	5.591-03	6.21E-03	7.046-03	7.896-03	8.866-03	9.94E-03	1.126-02	1.25F-02	1 /05 00	
22.46	*	5.956-03	6.671-03	7.49E~03	8.406-03	9.436-03	1.06E-02	1.196-02		1.40E~02	1.58E-02
23.17	*	6.336-03	7.106-03	7.97E-03	8.94E-03	1.000-02	1.13E-02		1.336-02	1.49E-02	1.68E-02
23,90	*	6.74E-C3	7.50E-03	8.48E-03	9.52E-03			1.266-02	1.425-02	1.59E-02	1.78E-02
	*					1.C7E-02	1.20E-02	1.34E-02	1.516-02	1.69E-02	1.905-02
24.65	*	7.176-03	8.04E-03	9.03E-03	1.016-02	1.146-02	1.276-02	1.43E-02	1.60E-02	1.806-02	2.026-02
25.43		7 4 3 5 6 3	a 64 6 - 0 3	C / CE A3		1					
	*	7.63E-03	8.56E-03	\$.6CE-03	1.08E-02	1.21E-02	1.365-02	1.526-02	1.716-02	1.926-02	2.156-02
26.24	*	8.125-03	9.11E-73	1.02E-02	1.156-32	1.296-02	1.44E-02	1.62E-02	1.82E-02	2.04E-02	2.29F-02
27.07	*	8.64E-03	9.691-03	1.09E-02	1.22E-C2	1.37L-02	1.54E-02	1.72E-02	1.936-02	2.17E-02	2.448-02
27.92	*	9.20E-03	1.03E-02	1.166-02	1.30E-02	1.46E-02	1.64€-02	1.836-02	2.068-02	2.316-02	2.596-02
28.90	*	9.79E-03	1.10E-02	1.23E-02	1.386-02	1.55E-02	1.748-02	1.95E-J2	2.19E-02	2.46E-02	2.76E-02

ALPHA TABLE NC. 2 CONTINUED.

29.71 30.65	* *	1.04E-32 1.11E-32	1.170-02 1.246-02	1.315-02 1.406-02	1.47L-02 1.57E-02	1.65E-02 1.76E-02	1.85E-02 1.97E-02	2.08E-02 2.21E-02	2.33E-02 2.48E-02	2.62E-02 2.78E-02	2.94E-02 3.12E-02
31.62	*	1.188-02	1.32E-02	1.48t-02	1.67E-02	1.878-02	2.10E-02	2.35E-02	2.64E-02	2.96E-02	3.326-02
32.62	*	1.26E-02	1.416-02	1.585-02	1.77E-C2	1.99E-02	2.236-02	2.50E-02	2.816-02	3.15E-02	3.548-02
33.65	*	1.345-02	1,508-02	1.68E-02	1.89E-C2	2.126-02	2.38E-02	2.67E-02	2•99E-02	3.366-02	3.76E-02
34.72	*	1.426-02	1.59E-C2	1.796-02	2.01E-02	2.25E-02	2.53E-02	2.846-02	3.186-02	3.57E-02	4.016-92
35.81	¥	1.516-02	1.7CE-C2	1.908-02	2.146-02	2.40E-02	2.69E-02	3.026-02	3.39E-02	3.80E-02	4.266-02
36.95	*	1.616-02	1.81F-02	2.036-02	2.27E-02	2.558-02	2.865-02	3.21E-02	3.606-02	4.04E-02	4.546-02
18.11	*	1.711-32	1.92E-C2	2.166-02	2.42E-02	2.726-02	3.05E-02	3.426-02	3.84E-02	4.306-02	4.83E-02
19.32	*	1.828-92	2.058-02	2.3CE-02	2.585-02	2.895-02	3.246-02	3.64E-C2	4.085-02	4.588-02	5.14E-02
0.56	¥	1.946-02	2.185-02	2.446-32	2.74E-02	3.085-02	3.45E-02	3.876-02	4.346-02	4.87E-02	5.47E-02
11.84	*	2.06E-02	2.320-02	2.60E-02	2.926-02	3.276-02	3.67E-02	4.12E-02	4.62E-02	5.19E-02	5.82E-02
43.17	÷	2.20E-02	2.476-02	2.776-02	3.10E-02	3.486-02	3.91E-02	4.38E-02	4.92E-02	5.526-02	6.19E-04
44.53	*	2.34E-02	2.620-02	2.948-02	3.30E-C2	3.716-02	4.16E-02	4.676-02	5.248-02	5.87E-02	6.596-0
45.54	*	2.49F-02	2.798-02	3.136-02	3.526-02	3.94 8-02	4.43E-02	4.97E-02	5.57E-02	6.256-02	7.01E-02
47.39	*	2.656-02	2.971-02	3.33E-02	3.74E~02	4.208-02	4.718-02	5.286-02	5.938-02	6.65E-02	7.466-02
48.89	*	2.82E-02	3.16E-02	3.55E-02	3.98E-02	4.476-02	5.01E-02	5.628-02	6.31E~02	7.08E-02	7.948-02
50.43	*	3.006-02	3,378-02	3.78E-02	4.248-02	4.756-02	5.336-02	5.99E-02	6.728-02	7.536-02	8.45E-C2
52.03	*	3+19E-02	3.58E-02	4.028-02	4.516-02	5.06E-02	5.68E-02	6.376-02	7.15E-02	8.026-02	9.00E-02
53.67	¥	3.4JE-02	3.81f-02	4.28E-02	4.80E-^2	5.38E-02	6.04E-02	6.78E-02	7.616-02	8.536-02	9.57E-02
55.37	*	3.628-02	4.06F-C2	4.55E-02	5.116-02	5.73E-02	6.43E-02	7.21E-02	8.09E-02	9.08E-02	1.025-01
57.12	¥	3.855~02	4.328-02	4.84E-02	5.43E-02	6.10E-02	6.84E-02	7.68E-02	8.61E-02	9.66E-02	1.08E-01
58.92	*	4.091-02	4,59E-02	5.156-02	5.78E-02	6.49E-02	7.28E-02	8.176-02	9.176-02	1.03E-01	1.15E-01
60.78	*	4.36E-02	4.89E-02	5.49E-C2	6.16E-02	6.91E-02	7.751-02	8.69E-02	9.765-02	1.09E-01	1.23F-01
62.70	ŧ	4.641-02	5.201-02	5.846-02	6.550-02	7.35E-02	8.25E-02	9.25E-32	1.046-01	1.16E-01	1.31E-01
64.69	÷	4.941-02	5.54F-C2	6.216-02	6.57E-02	7.82E-02	8.785-02	9.85E-G2	1.10E-01	1.24E-01	1.39F~01
66.73	*	5.256-02	5.89E-02	6.61E-02	7.42E-02	8.32E-02	9.345-02	1.05E-01	1.185-01	1.320-01	1.48E-01
68.84	*	5.596-02	6.270-02	7.048-02	7.89E-02	8.86E-02	9.94E-02	1.128-01	1.251-01	1.40E-01	1.58E-01
71.02	*	5.95E-02	6.67E-02	7.49E-02	8.40E-02	9.436-02	1.06E-01	1.196-01	1.336-01	1.49E-01	1.68E-01
73.26	*	6.335~02	7.10E-02	7.971-02	8.94E-02	1.006-01	1.13E-01	1.266-01	1.42F-01	1.596-01	1.785-01
75.58	*	6.748-02	7.56=-02	£.48E-02	9.52E-C2	1.076-01	1.205-01	1.346-01	1.516-01	1.698-01	1.906-01
77.96	*	7.176-02	8.046-02	9.03E-02	1.016-01	1.146-01	1.27E-01	1,43E-01	1.608-01	1.80E-01	2.02E-01
80.43	*	7.636-02	8,56E-C2	\$.60E-02	1.08E-01	1.216-01	1.36E-01	1,526-01	1.718-01	1.926-01	2.15E-01
82.97	*	8.126-02	9.111-02	1.026-01	1.156-01	1.29E-01	1.446-01	1.62E-01	1.82E-01	2.046-01	2.29F-01
85.59	*	8.64[-02	9.696-02	1.096-01	1.226-01	1.37F-01	1.54E-C1	1.728-01	1.93F-01	2.17E-01	2.44E-01
88.30	*	5.20E-02	1.036-01	1.165-01	1.30E-01	1.46E-01	1.646-01	1.836-01	2.06E-01	2.316-01	2.596-01
91.09	٠	9.796-02	1.106-01	1.238-01	1.38E-01	1.556-01	1.74E-01	1.95E-01	2.19E-01	2.46E-01	2.76E-01
93.97	*	1.046-01	1.176-01	1.316-01	1.476-01	1.655-01	1.85E-01	2.08E-01	2.33E-01	2.628-01	2.945-01
96.94	*	1.116-01	1.24F-01	1.406-01	1.576-01	1.76E-01	1.976-01	2.21E-01	2.485-01	2.78E-01	3.12E-01
100.00	٠	1.186-01	1.326-01	1.48E-01	1.67E-01	1.878-01	2.10E-01	2.35E-01	2.646-01	2.96E-01	3.326-01

VELUM	l: (A	161351	ALP+4=(1	PORT AREA)/	/(PCRT EFFE	ECTIVE LENG	TH) IN SO	JARE INCHES	S PER INCH.	•	*****
CU. F-ECX	IN.= FZ	(DCWN)	1.54L 72	2.18E 02	2.44E 02		3.078 02	2.00E-01 3.45E 02	3,875 02	2.51E-01 4.34E 02	4.87E 02
****** 10.00 10.32 10.64 10.98 11.33	× * *	3.73[-03 3.97[-03 4.22[-03 4.50[-03 4.50[-03	********** 4.19F-05 4.45E-13 4.74E-03 5.04E-03 5.37E-03	4.70E+03 5.00E+03 5.32E+03 5.66E=03 6.02E=03 6.02E=03	** *** ****** 5 • 27E-03 5 • 61E-03 5 • 97E-03 6 • 35E-03 6 • 76E-03	** ********** 5.91E-03 6.29E-03 6.70F-03 7.13E-03 7.58E-03	6.63C-03 7.06E-03 7.51E-C3 7.99E-03 8.51E-C3	*********** 7.44E-03 7.92E-03 8.43E-03 8.43E-03 8.97E-03 9.55E-03		*** ** ** ***** 9.37E-03 9.97E-03 1.06E-02 1.13E-02 1.20E-02	1.05E-02 1.12E-02 1.19E-02 1.27E-02 1.27E-02 1.35E-02
11.68 12.05 12.43 12.83 13.23	* *	5.198-03 5.428-13 5.778-03 6.148-03 6.538-03	F. 086-03 6.471-03 6.891-03 7.335-03	(.82F-03 7.26E-03 7.73E-03 8.22t-03	7.655-03 8.155-03 8.676-03 9.225-03	8.59E-03 9.14E-03 9.73E+03 1.04E+02	9.05E-03 9.64F-03 1.03E-02 1.09E-02 1.16F-02	1.02F-52 1.08E-52 1.15E-52 1.22F-62 1.30F-02	1.14E-02 1.21E-02 1.29E~02 1.37E-02 1.46E-02	1.28F-02 1.36E-02 1.45E-02 1.54E-02 1.64E-02	1.43E-02 1.53E-02 1.63E-02 1.73E-02 1.84E-02
13.65 14.08 14.53 14.99 15.46	* * * *	L.95E-03 7.40E-03 7.87E-03 8.38E-03 8.91E-03	8.37F-03 8.83E-05 5.47E-05	£.75E-03 9.31E-03 5.91E-03 1.05E-02 1.12E-02	9.828-02 1.04E-02 1.11E-02 1.18E-02 1.26F-02	1.10E-02 1.17L-02 1.25E-02 1.33E-02 1.41E-02	1.246-02 1.32t-02 1.40E-02 1.49E-02 1.59E-02	1.39E-02 1.48E-02 1.57E-02 1.67E-02 1.78E-02	1.56E-02 1.66E-02 1.76E-02 1.88E-02 2.00E-02	1.75E-02 1.86E-02 1.98E-02 2.10E-02 2.24E-02	1.96E-02 2.08E-02 2.22E-02 2.36E-02 2.51E-02
15.95 16.45 16.97 17.51 18.06	* * * *	9.49E-33 1.01b-62 1.07E-62 1.14E-62 1.22E-02	1.136-02	1.19F-32 1.27t-02 1.35E-02 1.44F-02 1.53E-32	1.348-02 1.436-02 1.52F-02 1.62F-02 1.72E-02	1.50E-02 1.60E-02 1.70E-02 1.81E-02 1.93E-02	1.69E-02 1.80E-02 1.91E-02 2.03E-02 2.16E-02	1.89E-02 2.01E-02 2.14E-62 2.28E-02 2.43E-02	2.12E+02 2.265-02 2.41E-32 2.56E-32 2.72E-02	2.38E-02 2.54E-02 2.70E-02 2.87E-02 3.06E-02	2.67F-92 2.85E-92 3.03E-92 3.22E-92 3.43E-92
18.63 19.22 19.83 20.46 21.10	李文公会	1.291-02 1.381-32 1.471-62 1.561-62 1.661-62	1.458-02 1.551-02 1.651-02 1.751-02 1.751-02 1.861-02	1.63E-72 1.73E-32 1.85E-02 1.56E-32 2.09E-32	1.83F-02 1.95E-02 2.07F-02 2.20E-02 2.35E-02	2.05E-02 2.18E-02 2.32C-02 2.47E-02 2.63E-02	2.30E-02 2.45E-02 2.61E-02 2.78E-02 2.95E-02	2.581-02 2.755-32 2.931-02 3.115-02 3.315-02	2.90F-02 3.096-02 3.28F-02 3.49E-02 3.72E-02	3.25E-02 3.46E-02 3.68E-02 3.92E-02 4.17E-02	3.65E-02 3.88E-72 4.13E-02 4.46E-72 4.68E-32
21.77 22.46 23.17 23.90 24.65	* * * *	1.77E-02 1.08E-02 2.00E-02 2.13E-02 2.27E-02		2.23E-02 2.37E-02 2.52E-02 2.68E-02 2.85E-02 2.85E-02	2.500-02 2.660-02 2.830-02 3.010-32 3.200-02	2.80E-02 2.98E-02 3.17E-02 3.38E-02 3.59E-02	3.14E-02 3.35E-02 3.56E-02 3.79E-02 4.03E-02	3.53F+02 3.75E-02 3.99E-02 4.25E-02 4.52E-02	3.96E-02 4.21E-72 4.48E-02 4.77E-02 5.08E-02	4.44E-02 4.73E-02 5.03E-02 5.35E-02 5.69E-02	4.98E-02 5.30E-02 5.64E-02 6.00E-02 6.39E-02
25.43 26.24 27.07 27.92 28.80	* * * *	2.41E-02 2.57E-02 2.73E-02 2.91E-02 3.09E-02	2.71F-32 2.88E-02 3.77E-02 3.26E-02 3.26E-02 3.47L-92	2.64E-92 3.23E-32 3.44F-92 3.66E-02 3.9CE-02	3.41E-C2 3.63E-32 3.86E-C2 4.11E-02 4.37E-32	3.82E-02 4.07E-02 4.33E-02 4.61E-02 4.90E-02	4.29F-02 4.57E-02 4.86E-02 5.17E-02 5.50E-02	4.81E-02 5.12E-02 5.45E-02 5.80E-02 6.17E-02	5.40E-02 5.75E-02 6.12E-02 6.51E-02 6.93E-02	6.06F-02 6.45E-02 6.86E-02 7.30F-02 7.77E-02	6.80F-32 7.24E-02 7.70E-02 8.20E-02 8.72E-02
					ALPHA TAB	BLF NC. 3	CONTINUED				
29.71 39.65 31.62 32.62 33.65	* * * *	3.29E-02 3.56E-02 3.73E-02 3.97E-02 4.22E-02	1.738-02 3.931-02 4.19L-02 4.45E-02 4.746-32	4.15E-02 4.41E-02 4.7CE-02 5.00E+02 5.32E-02	4.65E-02 4.95E-02 5.27E-02 5.61E-02 5.97E-02	5.22F-02 5.55E-02 5.91E-02 6.29E-02 6.70E-02	5.86E-02 6.23E-02 6.63E-02 7.06E-02 7.51E-02	6.571-02 6.99E-02 7.94E-02 7.92E-02 8.43E-02	7.37E-02 7.85E-02 8.35E-02 8.89E-02 9.46E-32	8.27E-02 8.805-02 9.37E-02 9.97E-02 1.06E-01	9.28f-02 9.88f-02 1.05E-01 1.12E-01 1.19E-01
39.65 31.62 32.62	4 4 4	3.50E-02 3.73E-02 3.97E-02	3.931+02 4.19L-02 4.45E-02	4.41E-02 4.7CE-02 5.00E-02	4.95E-02 5.27E-02 5.61E-02	5.55E-02 5.91E-02 6.29E-02	6.23E-02 6.63E-02 7.06E-02	6.571-02 6.996-02 7.446-02 7.926-02	7.85E-02 8.35E-02 8.89E-02	8.805-02 9.37E-02 9.97E-02	9.885-02 1.05E-01 1.12E-01
30.65 31.62 32.62 33.65 34.72 35.81 36.95 38.11	女女女女 女女女女	3.56t-32 3.73t-02 3.97t-02 4.22t-02 4.56t-02 4.78t-02 5.09t-02 5.42t-02	3.931-02 4.19L-02 4.45E-02 4.45E-02 4.74t-3? 5.04E-02 5.71E-02 5.71E-02 6.08E-02	4.41E-02 4.7CE-02 5.7CE-02 5.32E-02 5.46E-02 6.72E-02 6.41E-02 6.82E-02	4.95F-32 5.27E-02 5.61E-02 5.97F-02 6.35E-02 6.76E-02 7.19E-02 7.65E-02	5.55E-02 5.91E-02 6.29E-02 6.70E-02 7.13E-02 7.58E-02 8.07E-02 8.59E-02	6.23E-02 6.63E-02 7.06E-02 7.51E-02 7.99E-02 8.51E-02 9.05E-02 9.64E-02	6.571-02 6.996-02 7.44E-02 7.926-02 8.43E-02 8.43E-02 8.97E-02 9.55E-02 1.02E-01 1.98E-01	7.85E-02 8.35E-02 8.89E-02 9.46E-02 1.61E-01 1.77E-01 1.14E-01 1.21E-01	8.805-02 9.37E-02 9.97E-02 1.06E-01 1.13E-01 1.20E-01 1.28F-01 1.36E-01	9.881-02 1.05E-01 1.12E-01 1.19E-01 1.27E-01 1.35E-01 1.43E-01 1.53E-01
30.65 31.62 32.62 33.65 34.72 35.81 36.95 36.11 39.32 40.56 41.84 42.17 44.53	专家办会 安安尔希安 安安安安	3.566-02 3.731-02 3.971-02 4.221-02 4.501-02 4.685-02 5.091-02 5.421-02 5.421-02 6.421-02 6.951-02 6.951-02 7.406-02	3.931-02 4.101-02 4.455-02 4.745-02 5.376-02 5.376-02 5.716-02 6.086-02 6.086-02 6.086-02 6.086-02 6.086-02 7.331-02 7.801-02 9.305-02	4.41E-02 4.7CF+02 5.7CE-02 5.3ZE+02 5.42E+02 6.42E+02 7.41E+02 7.26E+02 7.32E+02 7.3	4.95F-32 5.61F-32 5.61F-32 5.97F-02 6.35E-32 6.35E-32 6.76t-02 7.19E-02 8.15E-02 8.67E-02 9.22E-02 9.82E-02 9.82E-02 1.04E-31	5.55E-02 5.91E-02 6.29E-02 6.29E-02 7.13E-02 7.58E-02 8.57E-02 9.14E-02 9.73E-C2 1.04E-01 1.10E-01 1.17E-01	6.23E-02 6.63E-02 7.66E-02 7.66E-02 7.61E-02 9.05E-02 9.05E-02 9.05E-02 9.05E-02 1.03E-01 1.09E-01 1.24E-01 1.24E-01 1.49E-01 1.49E-01 1.69E-01 1.69E-01 1.69E-01	6.57[-02 6.99E-02 7.92E-02 8.43E-02 8.43E-02 8.55E-02 1.02E-01 1.98E-01 1.30E-01 1.30E-01 1.39E-01 1.39E-01	7.65E-02 8.35E-02 8.49E-02 9.46E-02 9.46E-02 1.07E-01 1.14E-01 1.21E-01 1.24E-01 1.46E-01 1.56E-01 1.66E-01 1.66E-01 1.66E-01 1.66E-01 1.88E-01 2.00E-01 2.12E-01 2.26E-01	8.805-02 9.37E-02 9.37E-02 1.06E-01 1.20E-01 1.20E-01 1.36E-01 1.36E-01 1.45E-01 1.54E-C1 1.54E-C1 1.56E-01 1.86E-01	9,881-02 1,05E-01 1,12E-01 1,19F-01 1,35E-01 1,35E-01 1,53E-01 1,53E-01 1,53E-01 1,53E-01 1,54E-01 1,96F-01 2,08E-01
3),65 31,62 32,62 33,65 34,72 35,81 36,95 36,11 39,32 40,56 41,84 42,17 44,53 45,54 47,39 48,89 50,73 52,73	水水水子 汉本女子人 与女女女女 女女公子句 女女女女	3.56E-02 3.73E-02 3.73E-02 4.97E-02 4.97E-02 4.56E-02 5.09E-02 5.42E-02 5.42E-02 5.42E-02 5.42E-02 5.42E-02 5.42E-02 8.38E-02 8.38E-02 8.38E-02 8.38E-02 8.38E-02 1.01E-01 1.42E-01 1.22E-01 1.22E-01 1.38E-01	3.934-02 4.101-02 4.45E-02 4.45E-02 4.74E-37 5.04E-02 5.37E-72 5.71E-72 6.86L-02 6.86L-02 6.47E-72 6.86L-02 7.331-02 7.840-01 7.740-000-000-000-000-000-000-000-000-000-	4.41E-02 4.7(E+02 5.7(E+02 5.2E+02 5.2E+02 6.2E+02 6.42E+02 7.73E+02 6.22E+02 7.73E+02 6.22E+02 7.73E+02 9.91E+02 9.91E+02 1.75E+01 1.12E+01 1.12E+01 1.12E+01	4.995F-02 5.27E-02 5.01E-02 5.97E-02 6.35E-02 6.35E-02 8.15E-02 8.15E-02 8.15E-02 8.15E-02 8.15E-02 8.15E-02 8.22E-02 9.22E-02 9.22E-02 9.22E-02 9.22E-02 9.22E-02 1.04E-01 1.34E-01 1.34E-01 1.32E-01 1.32E-01 1.62F-01 1.82E-01 1.82E-01	5.55E-02 5.91E-02 6.29E-02 6.70E-02 7.13E-02 7.58E-02 8.59E-02 9.14E-02 9.14E-02 9.14E-02 9.73E-02 9.14E-02 1.04E-01 1.25E-01 1.45E-01 1.60E-01 1.70E-01 1.93E-01 2.05E-01 2.18E-01	6.23E-02 6.63E-02 7.66E-02 7.66E-02 7.61E-02 9.05E-02 9.05E-02 9.05E-02 9.05E-02 1.03E-01 1.09E-01 1.24E-01 1.24E-01 1.49E-01 1.49E-01 1.69E-01 1.69E-01 1.69E-01	6.571-92 6.99E-02 7.44E-02 7.92E-02 8.43F-92 8.43F-92 8.95E-92 1.02E-01 1.30E-01 1.30E-01 1.30E-01 1.44E-01 1.57E-01 2.01E-91 2.14E-91 2.28E-01 2.43E-91 2.58E-02 2.58E-01 2.58E-01	7.65E-02 8.35E-02 8.49E-02 9.46E-02 9.46E-02 1.07E-01 1.14E-01 1.21E-01 1.24E-01 1.46E-01 1.56E-01 1.66E-01 1.66E-01 1.66E-01 1.66E-01 1.88E-01 2.00E-01 2.12E-01 2.26E-01	8.602-02 9.37E-02 9.97E-02 9.97E-02 1.06E-01 1.20E-01 1.36E-01 1.36E-01 1.45E-01 1.45E-01 1.46E-01 1.46E-01 1.98E-01 2.10E-01 2.24E-01 2.38E-01	9.885-02 1.05E-01 1.12E-01 1.19E-01 1.35E-01 1.43E-01 1.43E-01 1.53E-01 1.53E-01 1.54E-01 1.96E-01 2.08E-01 2.45E-01 2.65E-01
33.65 31.62 32.62 33.65 34.72 35.81 36.95 36.11 39.32 40.56 41.84 42.17 44.53 45.54 41.84 45.53 45.54 47.39 52.73 53.67 57.12 58.92 60.78	水水水子 汉本女子人 与女女女女 女女公子句 女女女女	3.56E-02 3.73E-02 3.73E-02 4.97E-02 4.97E-02 4.56E-02 5.09E-02 5.49E-02 5.49E-02 5.47E-02 6.35E-02 7.47E-02 8.38E-02 8.38E-02 8.38E-02 8.38E-02 1.01E-01 1.14E-01 1.22E-01 1.38E-01	3.934-02 4.101-02 4.451-02 4.451-02 4.451-02 5.0715-02 5.7115-02 5.7115-02 5.0815-02 7.831-02 7.831-02 7.831-02 7.831-02 9.3915-02 9.3915-02 1.665-61 1.13(-31) 1.24(-61) 1.24(-61) 1.451-01 1.451-01	4.41E-02 4.7(F+02 5.70E-02 5.32E-02 5.40E-02 6.42E-02 7.32E-02 7.32E-02 7.32E-02 7.32E-02 7.32E-02 7.32E-02 9.91E-02 9.91E-02 1.15E-01 1.35E-01 1.45E-	4.995F-02 5.27E-02 5.01E-02 5.97E-02 6.35E-02 6.35E-02 8.15E-02 8.15E-02 8.15E-02 8.15E-02 8.15E-02 8.15E-02 8.22E-02 9.22E-02 9.22E-02 9.22E-02 9.22E-02 9.22E-02 1.04E-01 1.34E-01 1.34E-01 1.32E-01 1.32E-01 1.62F-01 1.82E-01 1.82E-01	5.55E-02 5.91E-02 6.29E-02 6.70E-02 7.13E-02 7.58E-02 8.59E-02 9.14E-02 9.14E-02 9.14E-02 9.73E-02 9.14E-02 1.04E-01 1.25E-01 1.45E-01 1.60E-01 1.70E-01 1.93E-01 2.05E-01 2.18E-01	6.23E-02 6.63E-02 7.06E-02 7.05E-02 7.95E-02 9.05E-02 9.05E-02 9.05E-02 1.03E-01 1.03E-01 1.46E-01 1.46E-01 1.46E-01 1.46E-01 1.46E-01 1.46E-01 1.46E-01 1.46E-01 1.46E-01 1.46E-01 1.46E-01 1.46E-01 1.46E-01 1.46E-01 2.03E-01 2.03E-01 2.30E-01 2.45E-01 2.30E-01 2.30E-01 2.30E-01 2.30E-01 2.30E-01 2.30E-01 2.30E-01 2.30E-01 2.30E-01 2.30E-01 2.30E-01 2.30E-01 2.30E-01 2.30E-01 2.30E-01 2.30E-01 2.30E-01 2.30E-01 2.30E-01 2.45E-	6.571-92 6.99E-02 7.44E-02 7.92E-02 8.43F-92 8.43F-92 8.95E-92 1.02E-01 1.30E-01 1.30E-01 1.30E-01 1.44E-01 1.57E-01 2.01E-91 2.14E-91 2.28E-01 2.43E-91 2.58E-02 2.58E-01 2.58E-01	7.65E-02 8.35E-02 8.49E-02 9.46E-02 1.67E-01 1.14E-01 1.21E-01 1.21E-01 1.46E-01 1.56E-01 1.46E-01 1.46E-01 1.46E-01 1.46E-01 2.42E-01 2.42E-01 2.41E-01 2.56E-01 2.41E-01 2.56E-01 2.41E-01	8.602-02 9.37E-02 9.37E-02 9.47E-02 9.47E-02 1.06E-01 1.20E-01 1.20E-01 1.36E-01 1.36E-01 1.45E-01 1.45E-01 1.45E-01 1.46E-01 2.38E-01 2.38E-01 2.45E-01 2.87E-01 3.06E-01 3.25E-01 3.46E-01	9.88E-02 1.05E-01 1.12E-01 1.19F-01 1.35E-01 1.43E-01 1.43E-01 1.53E-01 1.63E-01 1.63E-01 1.64E-01 2.08E-01 2.36F-01 2.67F-01 2.67F-01 2.67F-01 3.68E-01 3.68E-01
33.65 31.62 32.62 33.65 34.72 35.81 36.95 36.11 39.32 40.56 41.84 42.17 44.53 45.54 47.39 48.89 52.43 53.47 55.37 55.37 57.12 57.12	专奏书书 法书书书书 化合合合法 与安全存的 电电子分子	3.56E-02 3.73E-02 3.73E-02 4.22E-02 4.56E-02 4.56E-02 5.09E-02 5.42E-02 5.42E-02 5.42E-02 5.47E-02 6.35E-02 8.38E-02 8.38E-02 8.38E-02 8.38E-02 1.07E-01 1.22E-01 1.22E-01 1.38E-01 1.50F-01 1.50F-01 1.50F-01 1.58E-	3.934-02 4.101-02 4.401-02 4.405-02 4.405-02 4.405-02 5.045-02 5.0715-02 5.0715-02 5.0715-02 6.065-02 6.065-02 6.065-02 7.331-02 7.331-02 7.331-02 9.305-02 5.401-02 1.055-01 1.455-01 1.555-01 1.555-01 1.555-01 1.555-01 1.555-01	4.41E-02 4.7CF+02 5.7CE-02 5.3ZE-02 5.46E-02 6.42E-02 7.26E-02 7.26E-02 7.26E-02 7.26E-02 7.73E-02 9.91E-02 1.15E-01 1.15E-01 1.35C-01 1.35C-01 1.44E-01 1.45E-	4.095F-02 5.27E-02 5.27E-02 5.01E-02 5.97E-02 6.35E-02 6.35E-02 8.67E-02 7.05E-02 8.67E-02 8.67E-02 9.22E-02 9.22E-02 9.22E-02 9.22E-02 1.04E-01 1.34E-01 1.34E-01 1.34E-01 1.34E-01 1.34E-01 1.34E-01 1.32E-01 2.20E-01 2.20E-01 2.20E-01 2.56E-01 2.56E-01	5.55E-02 5.91E-02 6.70E-02 6.70E-02 6.70E-02 7.13E-02 7.58E-02 8.59E-02 9.14E-02 9.14E-02 9.14E-02 9.14E-02 1.04E-01 1.17E-01 1.45E-01 1.45E-01 1.50E-01 1.60E-01 1.60E-01 2.05E-01 2.47E-01 2.63E-01 2.63E-01 2.63E-01 2.68E-01 2.98E-01	6.23E-02 6.63E-02 7.06E-02 7.06E-02 7.06E-02 7.99F-02 8.51E-02 9.05E-02 9.05E-02 9.05E-02 9.05E-02 1.03E-01 1.26E-01 1.40E-01 1.49E-01 1.49E-01 1.49E-01 1.49E-01 1.49E-01 2.03E-01 2.03E-01 2.45E-01 2.45E-01 2.45E-01 2.45E-01 3.35E-01	6.571-92 6.995-02 7.46E-92 7.92E-92 8.43F-92 8.97E-92 8.97E-92 8.97E-92 8.97E-92 8.97E-92 1.08E-91 1.30E-01 1.30E-01 1.39E-01 2.46E-91 2.46E-91 2.48E-01 2.58E-01 2.58E-01 2.58E-01 2.58E-01	7.65E-02 8.36E-02 8.46E-02 9.46E-02 9.46E-02 1.61E-01 1.14E-01 1.21E-01 1.22E-01 1.46E-01 1.46E-01 1.46E-01 1.46E-01 1.46E-01 1.46E-01 2.12E-01 2.41E-01 2.41E-01 2.46E-01 3.09E-01 3.09E-01 3.49E-01 3.49E-01 3.49E-01 3.49E-01 3.49E-01 3.49E-01 3.49E-01	8.605-02 9.37E-02 9.37E-02 9.47E-02 1.06E-01 1.20E-01 1.20E-01 1.36E-01 1.45E-01 1.45E-01 1.45E-01 1.45E-01 1.46E-01 1.46E-01 2.38E-01 2.42E-01 2.42E-01 3.25E-01 3.46E-01 3.46E-01 3.92E-01 4.47E-01 4.47E-01	$\begin{array}{c} 9.88E-02\\ 1.05E-01\\ 1.05E-01\\ 1.05E-01\\ 1.12E-01\\ 1.35E-01\\ 1.43E-01\\ 1.43E-01\\ 1.53E-01\\ 1.63E-01\\ 1.63E-01\\ 1.64E-01\\ 2.08E-01\\ 2.08E-01\\ 2.08E-01\\ 2.67E-01\\ 2.67E-01\\ 2.67E-01\\ 3.65E-01\\ 3.65E-01\\ 3.65E-01\\ 3.66E-01\\ 4.13E-01\\ 4.68E-01\\ 4.97E-01\\ 4.97E-01\\ 4.97E-01\\ 4.97E-01\\ 4.99F-01\\ 5.30E-01\\ \end{array}$

VLE1ME CU. F CU. I	4} ≭•⊺ ≈•⊺	(ROSS) 3.16E-01 5.46E 02	ALPH4={F 3.55E-01	CFT AREA)/ 3.98E-01	THA TABLE N UBIC FELT (PCRT EFFE 4.47E-01 7.72E C2	5.01E-01	TH) IN SQU 5.62E-01	JARF INCHES 6.31E-01	7.08E-01		
* * * * * *	* * *	(DOWN) *********** 1.18E-72 1.26E-02 1.34E-02 1.42E-02 1.51E-02	1.32t-0∠ 1.41[-02 1.50t-32 1.59t-62 1.70t-02		1.678-02 1.776-62			********* 2.35E-02 2.50E-12 2.67E-02 2.84E-32 3.02E-02	2.64E-02 2.81E-02 2.99E-02 3.18E-02 3.39E-02 3.39E-02	** ******** 2 •96E-02 3 •15E-02 3 •36E-02 3 •57E-02 3 •80E-02	3 • 32F-02 3 • 54E-02 3 • 54E-02 3 • 76F-02 4 • 016-02 4 • 26E-02
11.68 12.65 12.43 12.83 13.23	* * * *	1.61E-C2 1.71E-02 1.82E-02 1.94E+C2 2.06E-02	1.81E-C2 1.92E-02 2.C5E-02 2.18E-02 2.32E-02	2.03E+02 2.16E+02 2.30E+02 2.44E+02 2.60E+32	2.27E-C2 2.42E-32 2.38E-C2 2.74E-02 2.92E-C2	2.5555-02 2.725-02 2.895-02 3.085-02 3.275-02	2.86E-02 3.05E-02 3.24E-02 3.45E-02 3.67E-02	3.21E-02 3.42E-02 3.64E-02 3.87E-12 4.12E-02	3.60E-02 3.846-02 4.08E-02 4.34E-02 4.62E-02	4.04E-02 4.30E-02 4.58E-02 4.87E-02 5.19E-02	4.54F-02 4.83E-02 5.14E-02 5.47E-02 5.82F-02
13.65 14.08 14.53 14.99 15.46	本本本本	2.20E-02 2.34E-02 2.49E-02 2.65E-02 2.82E-02	2.47E~C2 2.62E-D2 2.79E-J2 2.57E-D2 3.16E-D2	2.77E-02 2.94f-72 2.13E-32 3.33E-92 3.55E+02	3.10t-62 3.37E-02 3.52E-02 3.74E-02 3.98E-02	3.48F-02 3.71E-02 3.94E-02 4.20F-02 4.47E-02	3.916-02 4.16E-02 4.43E-02 4.71E-02 5.01E-02	4.38E-02 4.67E-02 4.97F-02 5.28E-02 5.62E-02	4.92E-02 5.24E-02 5.57E-02 5.53E-02 6.31E-02	5.52E-02 5.87E-02 6.25E-02 6.65E-02 7.08F-02	6.19E+02 6.59E-02 7.01E-02 7.46E-02 7.94E-02
15.95 16.45 16.97 17.51 18.06	* * * *	3.00E-02 3.19E-02 3.40E-02 3.62E-02 3.85E-02	3.37E-J2 3.58E-02 3.81E-02 4.66E+02 4.32E-02	3.70E-02 4.02E-02 4.28E-02 4.55E-02 4.55E-02 4.84E-02	4.24F-C2 4.51E-C2 4.8)F-C2 5.11E-C2 5.43E-C2 5.43E-C2	4.75E-02 5.06E-02 5.38E-02 5.73E-02 6.10E-02	5.33E-02 5.68E-02 6.04E-02 6.43E-02 6.84E-02	5.091-02 6.37E-02 6.78E-02 7.21E-02 7.68t-02	6.720-02 7.150-02 7.61E-02 8.09E-02 8.61E-02	7.53E-02 8.02E-02 8.53E-02 9.38E-02 9.66E-02	8.455-02 9.635-02 9.576-02 1.025-01 1.085-01
18.63 19.22 19.83 20.46 21.10	* * * *	4.090-02 4.368-02 4.648-02 4.948-02 5.258-02	4.59F-12 4.89F-02 5.20E-02 5.54E-02 5.89E-02	5.15F-32 5.49E-92 5.84E-92 6.21E-92 6.61E-92	5.73E-C2 6.16E-02 6.55E-02 6.97E-02 7.42E-02	6.49E-02 6.91E-32 7.35E-02 7.82E-02 8.32E-02	7.28E-02 7.75E-02 8.25E-02 8.78E-02 9.34E-02	8.17E-02 8.69E-02 9.25E-02 9.85E-02 1.05E-01	9.17t-02 9.76E-02 1.04E-01 1.10t-01 1.18t-01	1.03E-01 1.09E-01 1.16E-01 1.24E-01 1.32E-01	1.31F-01 1.39E-71
21.77 22.46 23.17 23.90 24.65	* * * * *	5.59E-02 5.95E-02 6.33E-02 6.74E-02 7.17E-02	6.27E-02 6.67E-02 7.10E-32 7.56E-32 8.(4E-62	7.04E-02 7.498-02 7.57F-02 8.48E-02 9.33E-02	7.89E-02 8.40E-02 8.94E-C2 9.52E-02 1.01E-01	8.86±-02 9.43E~92 1.00E~01 1.37E-01 1.14E-01	9.94E-02 1.06E-01 1.13E-01 1.20E-01 1.27E-01	1.12E-F1 1.19E+01 1.26E-01 1.34E-01 1.43E-01	1.25E-01 1.33F-01 1.42E-01 1.51E-01 1.60E-01	1.40E-01 1.49E-01 1.59E-01 1.69E-01 1.80E-01	1.58E-01 1.68E-01 1.78E-01 1.90E-01 2.02E-01
25.43 26.24 27.07 27.92 28.80	* * * *	7.63E-02 8.12F-02 8.64E-02 9.20E-02 9.79E-02	8.56E-C2 9.11E-72 5.65E-C2 1.C3E+01 1.10E-01	9.60E-02 1.02E-01 1.09E-01 1.16E-01 1.23E-01	1.08E-01 1.15E-01 1.22F+01 1.30E-01 1.38E-01	1.21E-01 1.29E-01 1.37E-01 1.46E-01 1.55E-01	1.36E-01 1.44E-01 1.54E-01 1.64E-01 1.74E-01	1.52E-01 1.62E-01 1.72E-01 1.83E-01 1.95E-01	1.71F-01 1.82E-01 1.93E-01 2.06E-01 2.19E-01	1.92E-01 2.04E-01 2.17E-01 2.31E-01 2.46E-01	2.15E-01 2.29E-01 2.44E-01 2.59E-01 2.75E-01
					ALPHA TA8	LE NO. 4	CONTINUED.				
29.71											
30.65 31.62 32.62 33.65	* * * *	1.34E-01 1.11E-01 1.18E-01 1.26E-01 1.34E-01	1.17E-01 1.24E-01 1.32F-01 1.41E-01 1.50E-01	1.31E-01 1.40E-01 1.48E-01 1.58E-01 1.68E-01	1.47E-01 1.57E-01 1.67E-01 1.77E-01 1.89E-01	1.65E-01 1.76E-01 1.87E-01 1.99E-01 2.12E-01	1.850-01 1.970-01 2.100-01 2.230-01 2.380-01	2.08E-01 2.21E-01 2.35E-01 2.50E-01 2.67E-01	2.33E-01 2.48E-01 2.64E-01 2.81E-01 2.99E-01	2.62E-01 2.78L-01 2.96E-01 3.15t-01 3.36F-01	2.94E-01 3.12E-01 3.32F-01 3.54E-01 3.76E-01
31.62 32.62	* * *	1.11E-01 1.18E-01 1.26E-01	1.24E-01 1.32F-01 1.41E-01	1.40E-01 1.48E-01 1.58E-01	1.57E-01 1.67E-01 1.77E-01	1.76E-01 1.87E-01 1.99E-01	1.97E-01 2.10E-01 2.23E-01	2.21E-31 2.35E-01 2.50E-01 2.67E-01 2.84E-31	2.48E-01 2.64E-01 2.81E-01	2.78L-01 2.96E-01 3.15E-01	3.12E-01 3.32F-01 3.54E-01
21.62 32.62 33.65 34.72 35.81 36.95 38.11	东本办 女女女女	1.11E-01 1.18E-01 1.26E-01 1.34E+01 1.42E-01 1.51E-01 1.61E-01 1.71E-01	1.24E-01 1.32F-01 1.41E-01 1.50E-01 1.59E-01 1.70E-01 1.81E-01 1.92E-01	1.40E-01 1.48E-01 1.58E-01 1.68E-01 1.68E-01 1.97E-01 1.97E-01 2.03E-01 2.16E-01	1.57E-01 1.67E-01 1.77E-01 1.39E-01 2.01E-01 2.14E-01 2.42E-01 2.42E-01	1.76E-01 1.87E-01 1.99E-01 2.12E-01 2.25E-01 2.55E-01 2.55E-01 2.72E-01	1.97E-01 2.10E-01 2.23E-01 2.38E-01 2.53E-01 2.53E-01 2.69E-01 2.86E-01 3.05E-01	2.21E-11 2.35E-01 2.50E-01 2.67E-01 2.84E-71 3.02E-01 3.21E-01 3.42E-01	2.48E-01 2.64E-01 2.81E-01 2.99E-01 3.18E-01 3.39E-01 3.60E-01 3.84E-01	2.78L-01 2.96E-01 3.15E-01 3.36F-01 3.57E-01 3.80E-01 4.04E-01 4.30E-01	3.12E-01 3.327-01 3.54E-01 3.76E-01 4.01E-01 4.54E-01 4.54E-01 4.84E-01
21.62 32.62 33.65 34.72 35.81 36.95 38.11 39.32 40.56 41.84 43.17 44.53	安希太女 文参本会学 办办办公	1.11E-01 1.18E-01 1.26E-01 1.34E+01 1.42E-01 1.51E-01 1.61E-01 1.61E-01 1.62E-01 1.94E-01 2.06E+01 2.20E-0 2.34E-01	1.24E-01 1.22F-01 1.41E-01 1.56E-01 1.56E-01 1.81E-01 1.02E-01 2.05E-01 2.18E-01 2.47E-01 2.47E-01 2.42E-01	1.40E-01 1.48E-01 1.58E-01 1.68E-01 1.68E-01 1.96E-01 2.93E-01 2.16E-01 2.36E-01 2.36E-01 2.44E-01 2.66E-01 2.97E-01	1.67E-01 1.67E-01 1.77E-01 1.39E-01 2.01E-01 2.27E-01 2.42E-01 2.42E-01 2.58E-01 2.74E-01 2.92E-01 3.10E-01 3.30E-01	1.76E-01 1.87E-01 2.92E-01 2.12E-01 2.25E-01 2.55E-01 2.72E-01 2.72E-01 3.08E-01 3.08E-01 3.7E-01 3.7E-01 3.7E-01	1.97E-01 2.10E-01 2.23E-01 2.38E-01 2.53E-01 2.53E-01 2.86E-01 3.05E+01 3.24E-01 3.45E-01 3.67E-01 3.97E-01 3.97E-01 4.16E-01	2.21E-31 2.35E-01 2.50E-01 2.67E-01 3.02E-01 3.42E-01 3.42E-01 3.42E-01 3.42E-01 3.42E-01 4.12E-01 4.38E-01 4.38E-01	2.48E-01 2.64E-01 2.81E-01 2.81E-01 3.18F-01 3.40E-01 3.40E-01 4.34E-01 4.34E-01 4.92E-01 4.92E-01 5.24E-01	2.7RE-01 2.96E-01 3.15E-01 3.36F-01 3.60E-01 4.04E-01 4.30E-01 4.58E-01 4.87E-01 5.19E-01 5.52E-01 5.87E-01	$\begin{array}{c} 3,12k-01\\ 3,32k-01\\ 3,32k-01\\ 3,56k-01\\ 3,76k-01\\ 4,01k-01\\ 4,26k-01\\ 4,83k-01\\ 5,82k-01\\ 5,14k-01\\ 5,47k-01\\ 5,82k-01\\ 6,19k-01\\ 6,59k-01\\ \end{array}$
21.62 32.62 33.65 35.81 36.55 38.11 39.32 40.66 41.84 43.17 44.53 45.94 47.35 48.89 50.43 52.03	安安太太 水水水水 水农水水 水水水水	1.11E-01 1.26E-61 1.26E-61 1.34±-01 1.42E-01 1.61E-01 1.61E-01 1.62E-01 1.62E-01 2.20E-01 2.34E-01 2.45E-01 2.45E-01 2.45E-01 2.45E-01 3.00E-01 3.00E-01	1.24E-01 1.22E-C1 1.41E-01 1.56L-01 1.56L-01 1.62E-01 1.62E-01 2.05E-01 2.47E-01 2.47E-01 2.47E-01 2.47E-01 2.47E-01 3.16E-01 3.37E-01 3.35E-01	1 4 0 E - 01 1 4 0 E - 01 1 5 0 E - 01 1 6 0 E - 01 1 6 0 E - 01 1 7 0 F - 01 2 1 6 0 E - 01 2 3 0 E - 01 2 3 0 E - 01 2 4 4 E - 01 2 4 4 E - 01 2 9 4 E - 01	1.57E-01 1.67E-01 1.77E-C1 1.39E+C1 2.14E+C1 2.42E+01 2.42E+01 2.42E+01 2.58E+01 2.58E+01 3.30E+01 3.30E+01 3.30E+01 3.40E+	1.76E-01 1.69E-01 2.42E-01 2.42E-01 2.42E-01 2.52E-01 2.52E-01 2.52E-01 2.52E-01 2.52E-01 3.72E-01 3.72E-01 3.71E-01 3.94E-01 4.20E-01 4.47E-01 4.72E-01 5.06E-01	1.97E-01 2.10E-01 2.23E-01 2.38E-01 2.69E-01 2.69E-01 2.69E-01 3.05E-01 3.05E-01 3.07E-01 3.07E-01 3.07E-01 4.46E-01 4.43E-01 4.43E-01 5.31E-01 5.33E-01 5.68E-01	2.21E-31 2.35E-01 2.35E-01 2.50E-01 7.67E-01 3.32E-01 3.42E-01 3.64E-01 3.64E-01 3.64E-01 4.12E-01 4.30E-01 4.30E-01 4.37E-01 4.57E-01 5.25E-01 5.62E-01 5.62E-01 5.62E-01	2.44E-01 2.64E-01 2.81E-01 2.97F-01 3.14F-01 3.49E-01 3.49E-01 4.62E-01 4.62E-01 4.62E-01 5.24E-01 5.24E-01 5.94E-01 5.94E-01 6.31E-01 6.72E-01 7.15E-01	2.7RL-01 3.06E-01 3.15E-01 3.36F-01 3.80E-01 4.04E-01 4.30E-01 4.30E-01 4.58E-01 4.58E-01 4.58E-01 4.58F-01 6.65E-01 6.65E-01 8.53E-01 8.53E+01 9.56E-01 9.56E-01 1.03E 00	3,122-01 3,327-01 3,576-01 3,762-01 4,201-01 4,201-01 4,548-01 4,548-01 5,476-01 5,476-01 5,476-01 5,472-01 6,592-01 6,592-01 7,046-01 7,946-01 8,4562-01 9,092-01
21.62 32.62 35.61 36.55 38.11 39.32 40.56 41.84 43.17 44.53 45.94 41.84 83.45.94 47.35 48.89 53.67 53.67 55.37 55.37 55.87 55.87 55.87	衣衣衣 方发妆衣衣 水云像水云 水灰水水体 水水水水	1.11E-01 1.18E-01 1.26E-01 1.34±-01 1.42E-01 1.41E-01 1.61E-01 1.62E-01 1.62E-01 2.20E-01 2.49E-01 2.49E-01 3.00E-01 3.40E-01 3.62E-	$\begin{array}{c} 1.2245-01\\ 1.225+01\\ 1.255+01\\ 1.550+01\\ 1.550+01\\ 1.560+01\\ 1.625+01\\ 2.055+01\\ 2.055+01\\ 2.475+01\\ 2.425+01\\ 2.475+01\\ 2.475+01\\ 2.475+01\\ 3.565+01\\ 3.565+01\\ 3.585+01\\ 3.585+01\\ 3.585+01\\ 4.505+01$	1 4 6 5 - 01 1 4 6 8 - 01 1 6 8 8 - 01 1 6 8 8 - 01 1 6 8 8 - 01 1 7 9 F - 01 2 3 6 5 - 01 2 3 6 5 - 01 2 3 6 5 - 01 2 4 6 F - 01 2 5 6 F - 01 2 5 6 F - 01 2 3 5 5 - 01 4 5 5 5 - 01 4 5 5 5 - 01 4 5 5 5 - 01 5 4 9 5 - 01 5	1.57E-01 1.67E-01 1.77E-C1 1.39E-01 2.14E-C1 2.27E-01 2.42E-01 2.42E-01 2.42E-01 3.59E-01 3.59E-01 3.59E-01 3.59E-01 3.59E-01 3.59E-01 3.59E-01 3.59E-01 3.59E-01 5.51E-01 5.43E-01 5.42E-	1.76E-01 1.87E-01 2.12E-01 2.42E-01 2.45E-01 2.55E-01 2.55E-01 2.72E-01 3.28E-01 3.27E-01 3.27E-01 3.48E-01 3.27E-01 3.48E-01 4.47E-01 4.47E-01 5.38E-01 5.38E-01 5.38E-01 5.38E-01 5.38E-01 6.49E-01 6.49E-01	1.97E-01 2.10E-01 2.23E-01 2.38E-01 2.69E-01 2.69E-01 3.05E-01 3.05E-01 3.07E-01 3.07E-01 3.01E-01 4.43E-01 4.43E-01 5.33E-01 5.32E-01 5.32E-01 6.43E-01 6.43E-01 6.43E-01 7.28E-01 7.75E-01	2.21E-31 2.35E-01 2.35E-01 2.64E-71 3.02E-01 3.21E-01 3.42E-01 3.42E-01 3.42E-01 4.36E-01 4.36E-01 4.37E-01 5.26E-01 5.99E-01 5.99E-01 6.37E-01 6.37E-01 7.21E-01 7.21E-01 7.21E-01 8.17E-01	$\begin{array}{c} 2 \cdot 4 E - 0 1 \\ 2 \cdot 6 4 E - 0 1 \\ 2 \cdot 6 4 E - 0 1 \\ 2 \cdot 8 1 E - 0 1 \\ 2 \cdot 9 0 F - 0 1 \\ 3 \cdot 1 9 F - 0 1 \\ 3 \cdot 1 9 F - 0 1 \\ 3 \cdot 6 2 E - 0 1 \\ 4 \cdot 0 2 E - 0 1 \\ 4 \cdot 0 2 E - 0 1 \\ 4 \cdot 0 2 E - 0 1 \\ 4 \cdot 0 2 E - 0 1 \\ 4 \cdot 0 2 E - 0 1 \\ 5 \cdot 5 7 E - 0 1 \\ 5 \cdot 5 7 E - 0 1 \\ 5 \cdot 0 3 E - 0 1 \\ 6 \cdot 3 1 E - 0 1 \\ 7 \cdot 1 5$	2.78L-01 3.45E-01 3.45E-01 3.45E-01 3.45E-01 4.404-01 4.30E-01 4.30E-01 4.30E-01 4.30E-01 4.58E-01 4.58E-01 5.52E-	3.12t-01 3.32t-01 3.32t-01 3.76t-01 4.01t-01 4.20t-01 4.50t-01 4.50t-01 4.50t-01 5.14t-01 5.48t-01 5.48t-01 5.48t-01 5.48t-01 5.48t-01 7.46t-01 7.46t-01 7.46t-01 7.46t-01 7.46t-01 7.46t-01 1.08t-00 1.28t-00
21.62 32.62 33.65 35.81 36.55 38.11 39.32 40.56 41.84 43.17 44.53 44.84 43.17 44.53 45.94 47.35 53.67 55.37 55.37 55.37 55.37 55.37 55.37 55.37 55.37 66.78 66.73 66.73 66.73 66.82	交表水学 最为最多的 方的的名词 水云的水云 水为水水 水为水水	1.11E-01 1.26E-01 1.26E-01 1.34E-01 1.42E-01 1.41E-01 1.61E-01 1.71E-01 1.82E-01 1.94E-01 2.06E+01 2.34E-01 2.49E-01 2.49E-01 3.62E-01 3.40E-01 4.36E-01 4.36E-01 4.36E-01 4.36E-01 5.55E-01 5.55E-01 5.55E-01	$\begin{array}{c} 1.2245-01\\ 1.225+01\\ 1.325+01\\ 1.505-01\\ 1.505-01\\ 1.505-01\\ 1.625-01\\ 1.625-01\\ 2.325+01\\ 2.325+01\\ 2.325+01\\ 2.325+01\\ 2.325+01\\ 2.325+01\\ 2.425+01\\ 2.425+01\\ 2.425+01\\ 2.425+01\\ 2.425+01\\ 3.3815+01\\ 3.535+01\\ 3.555+0$	1 4 6 5 - 01 1 4 6 8 E - 01 1 4 6 8 E - 01 1 6 8 E - 01 1 7 9 F - 01 2 4 3 6 E - 01 2 4 5 6 - 01 2 4 6 - 01	1.57E-01 1.67E-01 1.77E-C1 1.77E-C1 2.01E-01 2.14E-C1 2.27E-01 2.58E-01 2.58E-01 3.30E-C1 3.30E-C1 3.30E-C1 3.30E-C1 3.30E-C1 3.30E-C1 3.30E-C1 3.30E-C1 5.41E-C1 5.43E-01 5.78E-C1 6.55E-C1 6.55E-C1 6.55E-C1 6.55E-C1 6.55E-C1 7.42E-01 7.42E-01 7.42E-01 7.42E-01 7.42E-01 7.42E-01 1.01E 00 1.08E CC	1.76E-01 1.87E-01 2.42E-01 2.42E-01 2.42E-01 2.42E-01 2.42E-01 2.52E-01 2.42E-01 2.52E-01 2.42E-01 3.68E-01 3.71E-01 3.94E-01 4.47E-01 4.47E-01 5.38E-01 5.73E-01 6.49E-01 7.32E-01 4.32E-01	1.07E-01 2.10E-01 2.38E-01 2.38E-01 2.38E-01 2.69E-01 3.05E-01 3.05E-01 3.07E-01 3.07E-01 3.07E-01 4.43E-01 4.43E-01 4.43E-01 4.445E-01 6.445E-01 6.445E-01 6.445E-01 8.78E-01 8.78E-01 8.78E-01 9.34E-01 9.34E-01	2.21E-31 2.35E-01 2.35E-01 2.67E-01 3.21E-01 3.42E-01 3.42E-01 3.42E-01 3.42E-01 3.42E-01 4.37E-01 5.25E-01 5.99F-01 6.78E-01 7.21E-	2.48E-01 2.64E-01 2.80E-01 2.90F-01 3.49E-01 3.49E-01 3.49E-01 3.49E-01 4.02E-01 4.02E-01 4.02E-01 4.02E-01 5.24E-01 5.24E-01 5.24E-01 5.24E-01 5.24E-01 8.01E-01 8.01E-01 9.17E-01 1.04E-00 1.10F 00 1.10F 00 1.33E 00	2.7RL-01 3.65E-01 3.15E-01 3.35F-01 3.80E-01 4.04L-01 4.30E-01 4.30E-01 4.30E-01 4.58E-01 4.58E-01 5.19E-01 5.52E-01 5.67E-01 5.67E-01 5.67E-01 5.67E-01 5.67E-01 5.67E-01 5.67E-01 5.67E-01 5.52E-01 5.67E-01 5.67E-01 5.52E-01 5.67E-01 5.67E-01 5.52E-01 5.67E-01 5.67E-01 5.52E-01 5.67E-01 5.67E-01 5.52E-01 5.67E-01 5.67E-01 5.52E-01 5.67E-01 5.67E-01 5.67E-01 5.52E-01 5.67E-01 5.67E-01 5.67E-01 5.52E-01 5.67E-01 5.67E-01 5.67E-01 5.52E-01 5.67E-01 5.52E-	3.12t-01 3.32t-01 3.32t-01 3.3t-21 4.01t-01 4.20t-01 4.50t-01 4.50t-01 5.45t-01 5.45t-01 5.45t-01 5.45t-01 5.45t-01 7.46t-0

	F U 3	1.128 0	0 1.26E 00 3 2.18E 03	1.41E 00	1.58F OD	1.78E 00	JARE INCEES	5 PER INCH	· 2 616 00	2 925 02
* 3.73 * 3.97 * 4.22 * 4.50	/ ****** E=02 E=02 E=02 E=02	******** 4.19E-0 4.45E-0 4.74E-0 5.04E-0	2 4.70E-02 2 5.00t-02 2 5.32E-02 2 5.461-02	*********** 5.27E-02 5.61E-02 5.57E-02 6.35E-02	************ 5.91F~02 6.29E-02 6.70E-02 7.13E-02	************ 6.63E-02 7.06E-02 7.51E-02 7.99E-02	*********	****	******	**************************************
* 5.42 * 5.77 * 6.14 * 6.53	E-92 E-02 E-92 E-92	6.08E-1 6.47E-0 6.89E-0 7.33E-0	2 6.82E-02 2 7.26E-02 2 7.73E-02 2 8.22E-02	7.65E-02 8.15E-02 8.67E-02	8.59E-02 5.14E-02 9.73E-02	9.64E-02 1.03E-01 1.09E-01	1.02E-01 1.08E-01 1.15E-01 1.22E-01 1.30E-01	1.146-01 1.216-01 1.296-01 1.376-01 1.466-01	1.28E-01 1.36E-01 1.45E-01 1.54E-01 1.64E-01	1.43E-01 1.53E-01 1.63E-01 1.73E-01 1.84E-01
* 7.40 * 7.87 * 8.38	E-02 E-02 E-02	P.30E-0 8.83E-0 9.40E-0	2 9.31E-02 2 9.91E-02 2 1.05E-01	1.64E-01 1.116-01	1.1/E-01 1.25E-01	1.32E-01 1.40E-01	1.39E-01 1.48E-01 1.57E-01 1.67E-01 1.78F-01	1.566-01 1.666-01 1.76E-01 1.88E-01 2.000-01	1.75F-01 1.86E-01 1.98E-01 2.10E-01 2.24E-01	1.96E-01 2.08F-01 2.22E-01 2.36F-01 2.51E-01
* 1.01) * 1.07) * 1.140	2-01 2-01 2-01	1.13(-0 1.21F-C 1.23E-0	1 1.270-01 1 1.356-01 1 1.44E-01	1.43E-01 1.52E-01	1.50E-01 1.60E-01 1.70E-01 1.81E-01 1.93E-01	1.69E-01 1.80E-01 1.91E-01 2.03E-01 2.16E-01	1.89E-01 2.01E-01 2.14E-01 2.28E-01 2.43E-01	2.12E-01 2.26E-01 2.41E-01 2.56E-01 2.72E-01	2.38F-01 2.54E-01 2.70E-01 2.87E-01 3.06E-01	2.67E-01 2.85E-01 3.03E-01 3.22E-01 3.43E-01
* 1.388 * 1.471 * 1.566	5-01 5-01 5-01	1.550-3 1.658-3 1.751-0	1 1.736-01 1 1.85E-01 1 1.96E-01	1.956-01	2.05E-01 2.18E-01 2.32E-01 2.47E-01 2.63E-01	2.30E-01 2.45E-01 2.61E-01 2.78E-01 2.95E-01	2.58E-01 2.75E-01 2.93E-01 3.11E-01 3.31E-01	2.90E-01 3.09E+01 3.28E-01 3.49E-01 3.72E-01	3.25E-01 3.46E-01 3.68E-01 3.92E-01 4.17E-01	3.65E-01 3.88E-01 4.13E-01 4.40E-01 4.68E-01
* 1.881 * 2.00F * 2.13F * 2.27f	-01 -01	2.11L-7 2.25E-) 2.39E-7	1 2.376+01 1 2.52E-01 1 2.68[-01	3.01E-01	2.80E-01 2.98F-01 3.17E-01 3.38E-01 3.59E-01	3.14t-01 3.35f-01 3.56E-01 3.79E-01 4.03E-01	3.53E-01 3.75E-01 3.99E-01 4.25E-01 4.52E-01	3.96E-01 4.21E-01 4.48E-01 4.77E-01 5.08E-01	4.44E-01 4.73E-01 5.03E-01 5.35E-01 5.69E-01	4.98E~01 5.30E-01 5.64E-01 6.00E-01 6.39E-01
* 2.57E * 2.73E * 2.91E	-01 -01 -31	2.28E-) 3.(7E-) 3.26E-0	1 3.23E-01 1 3.44E-01 1 3.66E-01	3.41F-01 3.63E-01 3.86E-01 4.11E-01 4.37F-01	3.82E-01 4.07E-01 4.33E-61 4.61E-01 4.90E-01	4.57E-01 4.86E-01 5.17E-01	4.91E-01 5.12E-01 5.45E-01 5.80E-01 6.17E-01	5.75E-01 6.12E-01 6.51E-01	6.45E-01 6.86E-01 7.30E-01	6.89E-01 7.24E-01 7.70E-01 8.20E-01 8.72E-01
				ALPHA TAB	4 E NO. 5	CONTINUED.				
* 3.50F * 3.73f * 3.97f	-01 -01 -01	3.93t-J 4.19F-J 4.45L-C	1 4.41E-01 1 4.70E-01 1 5.00E-01	4.95E-01 5.27E-01	5.22E-01 5.55E-01 5.91E-01 6.29E-01 6.70E-01	5.86E-01 6.23E-01 6.63E-01 7.06F-01 7.51E-01	6.996-71	7.856-01	8.27E-01 8.80E-01 9.37E-01 9.97E-01 1.06E 00	9.28E-01 9.88E-01 1.05E 00 1.12F 00 1.19E 00
* 4,781 * 5,798 * 5,428	-01 -01 -01	5.37E-0 5.71E-0 6.08E-0	1 6.02E-01 1 6.41E-01 1 6.82E-01	6.35E-C1 6.76E-C1 7.19E-C1 7.65E-C1 8.15E-C1	7.13E-01 7.58E-01 8.C7E-01 8.59E-01 5.14E-01	7.996-01 8.51E-01 9.05E-01 9.64E-01 1.03f 00	8.57E-01 9.55E-31 1.02E 00 1.38E 00 1.15F 00	1.016 00 1.076 00 1.146 00 1.216 00 1.296 00	1.13E 00 1.20E 00 1.28E 90 1.36E 00 1.45E 00	1.27E 00 1.35E 00 1.43E 00 1.53E 00 1.63E 00
* 6.53F * 6.95E * 7.40E	-01 -01 -01	7.131-0 7.800-0 8.300-0	1 8.226-01 1 8.75F-01 1 5.31E-01	8.67E-01 9.22E-01 9.82E-01 1.04E 00 1.11E CC	9.73E-C1 1.04E 00 1.10E 00 1.17E 00 1.25E 00	1.09E 00 1.16E 00 1.24F 00 1.32E 00 1.40E 00	1.22E 00 1.30E 00 1.39E 00 1.48E 00 1.37E 00	1.37E 00 1.46E 00 1.56E 00 1.66E 00 1.76E 00	1.54E 00 1.64E 00 1.75E 00 1.86E 00 1.98E 00	1.73E 00 1.84E 00 1.96E 00 2.08E 00 2.22E 00
* 8.918 * 9.498 * 1.016	-01 -01 -00	1.COE / 1.C6E / 1.13F C	0 1.12E 00 0 1.19E 00 0 1.27E 00	1.18E 00 1.26E 00 1.34E 00 1.43E 00 1.52E 00	1.33E 00 1.41E 00 1.50E 00 1.60E 00 1.70E 00	1.49E 00 1.59E 00 1.69E 00 1.80E 00 1.91E 00	1.67E 90 1.78E 00 1.89E 90 2.01E 00 2.14E 90	1.88E 00 2.00E 00 2.12E 00 2.26E 00 2.41E 00	2.10E 00 2.24E 00 2.38E 00 2.54E 00 2.70E 00	2.36E 00 2.51E 00 2.67E 00 2.85E 00 3.03E 00
* 1.226 * 1.296 * 1.386	00 00 00	1.37E 0 1.45£ C 1.55E C	0 1.53E 00 C 1.63E 00 D 1.73E 00	1.62E CC 1.72F 00 1.83E 00 1.95E 0C 2.C7E 60		2.03E 00 2.16E 00 2.30E 00 2.45E 00 2.61E 00	2.28E 00 2.43E 00 2.58E 00 2.75E 00 2.93E 00	2.56E 00 2.72E 00 2.90E 00 3.09E 00 3.28E 00	2.87E 00 3.06E 00 3.25E 00 3.46E 00 3.68E 00	3.22E 00 3.43E 00 3.65E 00 3.88E 00 4.13E 00
* 1.66E * 1.77E * 1.88E	00 00	1.86F 00 1.58E 00 2.11E 00	2.09E 00 2.23E 00 2.37E 00	2.20E CC 2.35E GC 2.50E CC 2.66E CC 2.83E CC	2.47E 0C 2.63E 00 2.80E 00 2.98E 00 3.17E CC	2.78E CO 2.95E OO 3.14E OO 3.35E OO 3.56E OO	3.11E 00 3.31E 00 3.53E 00 3.75E 00 3.99E 00	3.96E 00 4.21E 00	4.44E 00 4.73E 00	4.40E 00 4.68E 00 4.98E 00 5.30E 00 5.64E 00
* 2.27E * 2.41E * 2.57E	00	2.54E 00 2.71E 00	2.85F 9C 3.04E 00	3.01E 00 3.20E 00 3.41E 00 3.63E 00 3.86E 00	3.38E CO 3.59E OO 3.82E OO 4.C7E OO 4.33E OO	3.79E 00 4.03E 00 4.29E 00 4.57E 00 4.86E 00	4.25E 00 4.52E 00 4.81E 00 5.12E 00 5.45E 00			6.00E 00 6.39E 00 6.80E 00 7.24E 00 7.70E 00
* 2,91F	20	3.26E CO 3.47E OI	3.66E 00 3.90E 00	4.11E CC 4.37E OC	4.61E 00 4.90E 00	5.17E 00 5.50E 00	5.8CE 00 6.17E 00	6.51E 00 6.93E 00	7.30E 00 7.77E 00	8.20E 00 8.72E 00
	$ \begin{array}{c} & 3 \ .77 \\ & 3 \ .77 \\ & 3 \ .77 \\ & 4 \ .50 \\ & 4 \ .50 \\ & 4 \ .50 \\ & 4 \ .50 \\ & 4 \ .50 \\ & 4 \ .50 \\ & 5 \ .77 \\ & 4 \ .50 \\ & 5 \ .77 \\ & 5 \ .40 \\ & 5 \ .77 \\ & 5 \ .40 \\ & 5 \ .77 \\ & 5 \ .40 \\ & 5 \ .77 \\ & 6 \ .51 \\ & 5 \ .77 \\ & 6 \ .51 \\ & 5 \ .77 \\ & 6 \ .51 \\ & 5 \ .77 \\ & 6 \ .51 \\ & 5 \ .77 \\ & 6 \ .51 \\ & 6 \ .51 \\ & 7 \ .67 \\ & 7 \ .67 \\ & 7 \ .67 \\ & 1 \ .57 \ .57 \\ & 1 \ .57 \ .57 \ .57 \ .57 \ .57 \ .57 \ .57 \ .57 $	$ \begin{array}{c} 3.731-32\\ 3.971-32\\ 3.971-32\\ 3.971-32\\ 4.506-32\\ 4.506-32\\ 4.506-32\\ 4.5781-32\\ 4.5781-32\\ 4.5781-32\\ 4.5781-32\\ 5.771-02\\ 4.5781-32\\ 5.771-02\\ 4.5781-32\\ 5.771-02\\ 4.5781-32\\ 4.$	* $3.731-32$ * $3.731-32$ * $4.56-3$ * $4.56-32$ * $4.56-32$ * $4.56-32$ * $4.56-32$ * $4.56-32$ * $4.56-32$ * $4.56-32$ * $5.71E-02$ * $6.76E-32$ * $5.71E-02$ * $6.76E-32$ * $5.77E-02$ * $6.76E-32$ * $6.53E-32$ * $7.33E-72$ * $6.95E-72$ * $7.33E-72$ * $6.95E-72$ * $7.07E-02$ * $8.84E-72$ * $1.01E-71$ * $1.13E-71$ * $1.22E-71$ * $1.22E-71$ * $1.22E-71$ * $1.22E-71$ * $1.22E-71$ * $1.56E-71$ * $1.56E-71$ * $2.56E-71$ * $2.56E-7$	* $331 - 02$ 4.101-02 4.705-02 5970-02 4.565-02 5376-02 4.226-02 4.746-02 5376-02 * 4.226-02 52571F-02 5661-02 * 4.786-02 571F-02 6416-02 * 5996-02 571F-02 6416-02 * 59716-02 6747-02 6787-02 * 6946-02 7871-02 6787-02 * 69516-02 7871-02 6786-02 * 7876-02 6846-02 7736-02 * 69516-02 7871-02 6311-02 * 69516-02 7871-02 6311-02 * 7076-02 8845-02 6311-02 * 7076-01 1716-01 1051-01 * 1016-71 1131-01 1271-01 * 1016-71 1131-01 1271-01 * 1026-01 1376-01 1486-01 * 1226-01 1376-01 1486-01 * 1246-01 1051-01 1486-01 * 1466-01 1061-01 2236-01 * 1866-01 1061-01 2236-01 * 1866-01 1061-01 2236-01 * 2271-01 22540-01 2385-01 * 2271-01 25940-01 2385-01 * 2271-01 25940-01 3236-01 * 2315-01 4491-01 3236-01 * 2315-01 3704-01 4191-01 * 2271-01 33647-01 3236-01 * 2916-01 3374-01 4191-01 * 2916-01 33647-01 3236-01 * 2916-01 3471-01 3946-01 * 3906-01 3471-01 32425-01 * 3906-01 3471-01 32465-01 * 3906-01 34755 00 1555 00 * 3906-01 3255 00 * 3906 00 32555 00 * 39	 * 3.731-32 4.191-62 4.762-32 5.371-32 * 3.731-32 4.191-62 4.762-32 5.371-32 * 4.22E-32 4.741-32 5.372-32 * 4.22E-32 5.717-62 4.412-32 * 4.78E-62 5.717-62 4.412-62 * 5.99E-62 5.717-62 4.412-62 * 5.77E-62 5.4717-62 4.412-62 * 6.14E-52 5.89E-62 7.732E-72 8.15E-62 * 6.14E-52 5.89E-62 7.732E-72 9.82E-62 * 6.14E-62 6.864-62 7.732E-72 9.82E-62 * 7.87E-62 8.632-62 5.91E-32 1.64E-61 * 7.87E-72 1.721 1.121-61 1.226E-01 * 8.91E-72 1.721-11.121-61 1.226E-01 * 8.91E-72 1.721-11.121-61 1.226E-01 * 1.92E-01 1.37E-01 1.32E-01 1.72E-01 * 1.22E-01 1.37E-01 1.32E-01 2.25E-01 * 1.46E-71 1.65E-71 1.73E-01 1.32E-01 2.50E-01 * 1.46E-71 1.69E-71 2.56E-11 3.71E-01 * 2.90E-71 2.25E-71 2.26E-71 3.21E-71 * 2.90E-71 2.25E-71 2.26E-71 3.21E-71 * 2.90E-71 2.25E-71 2.26E-71 3.21E-71 * 2.90E-71 3.27E-71 2.26E-71 3.21E-71 * 2.91E-71 2.25E-71 2.26E-71 3.21E-71 * 2.91E-71 3.27E-71 3.22E-71 3.22E-71 * 2.91E-71 3.27E-71 3.22E-71 3.27E-71 * 2.91E-71 3.27E-71 3.27E-71 3.27E-71 * 2.91E-71 3.27E-71 3.27E-71 3.27E-71 * 2.91E-71 4.76E-71 5.37E-71 5.37E-71 * 2.91E-71 4.76E-71 5.37E-71 5.36E-71 5.37E-71 * 2.91E-71 4.7	 3.371-02 4.191-02 4.101-02 5.271-02 5.271-01 5.271-01<	 3. 731-02 4. 731-02 4. 752-02 5. 751-02 5. 751-01 5. 751-02 5. 751-01 5. 751-01 5. 751-01 5. 751-01 5. 751-01 5. 751-02 5. 751-01 5. 751-01	 3.731-02 4.711-02 4.711-02 5.711-02 6.721-72 5.711-02 6.721-72 6.721-72 6.721-72 6.721-72 6.721-72 6.721-72 6.721-72 6.721-72 7.7265-72 7.7267-72 7.7265-72 7.7267-72 7.7267-72 7.7267-72 7.7267-72 7.7267-72 7.7267-72 7.727-71 7.727-71<td> 3.131-02 4.191-02 4.161-02 5.212-02 5.212-01 5.212-01<</td><td>3.342-02 4.362-02 5.30-02 5.30-02 7.062-02 <th7.062-02< th=""> <th7.062-02< th=""> <th< td=""></th<></th7.062-02<></th7.062-02<></td>	 3.131-02 4.191-02 4.161-02 5.212-02 5.212-01 5.212-01<	3.342-02 4.362-02 5.30-02 5.30-02 7.062-02 <th7.062-02< th=""> <th7.062-02< th=""> <th< td=""></th<></th7.062-02<></th7.062-02<>

VOLUME CU. F CL. I F-80X	(4) T.= N.= HZ	CRCSS) 3.16E 00 5.46E 03 (DOWN)	ALPEA=(P) 3.55E 00 6.13E 03	CFT /REAJ/ 3.986 00 6.885 03	PCRT EFFE 4.47E 00 7.72E 03	CTIVE LENC 5.01E 00 8.66E 03	TH) IN SQU 5.62E 00 9.72E 03	NING ****** 54E 04 CUI ARE INCHES 6.31F 00 1.09F 04	PER INCH. 7.08E 00 1.22E 04	7.94E 00 1.37E 04	8.91E 00 1.54E 04
	*		1.32E-01 1.41E-31	1.466-01 1.986-01	1.67E-01 1.77E-01 1.89E-01			*********** 2.35F-01 2.50E-01 2.67E-01 2.84E-01 3.02E-01	2.64E-01 2.816-01	2.96E-01 3.15E-01	
11.68	* * * *	1.61t-01	1.61E-C1	2.03E-01	2.27E-C1	2.550-01	2.86E-01	3.21E-01	3.60E-01	4.04F-01	4.54E-01
12.05		1.71E-01	1.92f-C1	2.16F-01	2.42E-01	2.726-01	3.05E-01	3.42E-01	3.84F-01	4.30E-01	4.83E-01
12.43		1.82E-01	2.65E-01	2.30E-01	2.58F-01	2.896-01	3.24E-01	3.64E-01	4.08E-01	4.58E-01	5.14E-01
12.83		1.94t-01	2.18E-01	2.44E-01	2.74E-01	3.086-01	3.45E-01	3.87E-01	4.34E-01	4.87E-01	5.47E-01
13.23		2.06E-01	2.32E-01	2.60E-01	2.92F-C1	3.276-01	3.67E-01	4.12E-01	4.62E-01	5.19E-01	5.82E-01
13.65 14.08 14.53 14.99 15.46	* * * *	2.201-01 2.341-01 2.49E-01 2.65E-01 2.62E-01 2.82E-01	2.47E-01 2.62E-01 2.79E-01 2.57E-01 3.16E-01	2.77E-01 2.941-01 3.12E-01 3.33E-01 3.55E-01	3.10E-01 3.30E-01 3.52E-01 3.74E-01 3.586+01	3.48F-01 3.71E-01 3.94E-01 4.20E-01 4.47E-01	3.91E-01 4.16E-01 4.43E-01 4.71E-01 5.01E-01	4.3PE-01 4.67E-01 4.97E-01 5.28E-01 5.62E-01	4.52F-01 5.24E-01 5.57E-01 5.93E-01 6.31F-01	5.52E-01 5.87E-01 6.25E-01 6.65E-01 7.08E-01	6.19E-01 6.59E-01 7.01E-01 7.46E-01 7.94E-01
15.95	* * * *	3.00E-01	3.37E-91	2.700-01	4.24E-C1	4.75E-0J	5.33E-01	5.95E-01	6.72E-01	7.53E-01	8.45E-01
16.45		3.19E-01	3.55E-91	4.020-01	4.51E-C1	5.06E-01	5.68E-01	6.37E-01	7.15E-01	8.02E-01	9.00L-01
16.97		3.40E-01	3.81E-01	4.200-01	4.80E-C1	5.38E-01	6.04E-01	6.78E-01	7.61E-01	8.53E-01	9.57E-01
17.51		3.62E-01	4.06E-91	4.555-01	5.11E-01	5.73F-01	6.43E-01	7.21E-01	8.09E-01	9.08E-01	1.02E 00
18.06		3.85E-01	4.32E-91	4.046-01	5.43E-C1	6.10E-01	6.84E-01	7.68E-01	8.61E-01	9.66E-01	1.08E 00
19.63	* * * *	4.09E-01	4.59[-0]	5.151-01	5.78E-C1	6.49E-01	7.28E-01	8.17E-31	9.1/E-01	1.03E 00	1.15E 00
19.22		4.36E-01	9.89[-0]	5.498-01	6.10E-01	6.91E-01	7.75E-01	8.59E-31	9.76E-01	1.09E 00	1.23E 00
15.83		4.64E-01	5.20[-0]	5.848-01	6.55E-C1	7.35E-01	8.25E-01	9.25t-31	1.04E 00	1.16E 00	1.31E 00
20.46		4.94F-01	5.54[-0]	4.218-01	6.97E-01	7.82E-01	8.78E-01	9.85E-31	1.10E 00	1.24E 00	1.39E 00
21.10		5.25E-01	5.89[-0]	6.610-01	7.42E-C1	8.32E-01	9.34E-01	1.35t 80	1.18E 00	1.32E 00	1.48E 00
21.77	* * * *	5.59E-01	6.27[-01	7.040-01	7.89E-01	8-865-01	9.94E-01	1.126 00	1.25E 00	1.40F 00	1.58E 00
22.46		5.95E-01	6.67[-01	7.490-01	5.40F-01	9-436-01	1.06E 00	1.19E 00	1.33C 00	1.49F 00	1.68E 00
23.17		6.33E-01	7.10E-01	7.970-01	8.94E-01	1-006 00	1.13L 00	1.26E 00	1.42E 00	1.59E 00	1.78E 00
23.90		6.74E-01	7.56E-01	8.480-01	9.52E-01	1-078 00	1.20E 00	1.34E 00	1.51E 00	1.69E 00	1.90E 00
24.65		7.17E-01	8.04[-01	9.030-01	1.01E CC	1-148 00	1.27E 00	1.44E 00	1.67E 00	1.80E 00	2.02E 00
25.43	* * * *	7.63E-01	8.56E-C1	5.60E-01	1.08E 60	1.21E 00	1.36E 00	1.52E DD	1.71E 00	1.92E CO	2.15E 00
26.24		8.12[-01	9.11L-01	1.02₹ t0	1.15E 00	1.29E 00	1.44E 00	1.62E DO	1.82E 00	2.04E OU	2.29E 00
27.07		8.64E-01	9.69L-01	1.05E 06	1.22E 00	1.37E 00	1.54E C0	1.72E DD	1.93E 00	2.17E OU	2.44E 00
27.92		9.20E-01	1.C3E 00	1.16E 00	1.30E 00	1.46E 00	1.64L 00	1.83E DO	2.36E 00	2.31E OU	2.59E 00
28.80		9.79E-01	1.1CE 00	1.23E 00	1.38E 00	1.55E 00	1.74E 00	1.95E DO	2.19E 00	2.46E OU	2.76E 00
					ALPHA T⊅B	LENC. 6	CONTINUED.				
29.71	* * * *	1.04E 00	1.171 00	1.31E 00	1.478 CC	1.65E CC	1.85F 00	2.08E 00	2.33E 00	2.62E 00	2.945 00
30.65		1.11E 00	1.24E 30	1.40E 00	1.576 CC	1.76E CO	1.97E 00	2.21E 00	2.48E 00	2.78E 00	3.126 00
31.62		1.18E 00	1.32E 00	1.46E 00	1.678 CC	1.87E OO	2.10E 00	2.35E 00	2.64E 00	2.96E 00	3.328 00
32.62		1.26E 00	1.41E 00	1.58E 00	1.778 CC	1.99E CO	2.23E 00	2.50E 00	2.81E 00	3.15E 00	3.548 00
33.65		1.34E 00	1.53E 00	1.66E 00	1.898 CL	2.12E CO	2.38E 00	2.67E 00	2.99E 00	3.36E 00	3.768 00
34.72	* * * *	1.42F 00	1.591 CC	1.75E 30	2.018 (C	2.25£ 00	2.53E 00	2.84E 00	3.18E 00	3.57E 00	4.015 00
35.81		1.51E 00	1.7CL OC	1.90E 00	2.148 CC	2.40E 00	2.69E 00	3.028 C0	3.39E 07	3.80F 00	4.265 00
36.95		1.61E 00	1.811 OO	2.03E 00	2.278 CC	2.55E 00	2.86E 00	3.21E 00	3.60E 09	4.04E 00	4.545 00
38.11		1.71E 00	1.92E OO	2.16E 00	2.428 CC	2.72E 00	3.05E 00	3.42E 00	3.846 09	4.30E 00	4.835 00
39.32		1.82E 00	2.35L OC	2.30E 00	2.588 CC	2.89E 00	3.24E 00	3.64E 00	4.08L 00	4.58E 00	5.145 00
40.56	* * * * *	1.94E 0(2.181 00	2.441 00	2.74E 0C	3.08F 00	3.45E CO	3.87E 00	4.34E 00	4.87F 00	5.47E 00
41.84		2.06E 00	2.321 00	2.60E 01	2.92E 0C	3.27E 00	3.67E OO	4.12E 00	4.62E 00	5.19E 00	5.82E 00
43.17		2.20F 00	2.471 00	2.17E 00	3.10E 0C	3.48E 03	3.91E OO	4.38E 00	4.92E 00	5.52E 00	6.19E 00
44.53		2.34E 00	2.621 00	2.94E 00	3.30E 0C	3.71E 00	4.16E OO	4.67E 00	5.24E 00	5.87F 00	6.59E 00
45.94		2.49E 00	2.751 00	3.13E 00	3.52E CC	3.94E 00	4.43E OO	4.97E 00	5.57E 00	6.25E 00	7.61E 00
47.39	* * * *	2.65E 00	2.97E 00	3.33£ 00	3.746 00	4.20E 00	4.715 00	5.28E 30	5.93E 00	6.65F 03	7.46E 00
48.89		2.82E 00	3.16E 00	3.55F 00	3.986 00	4.47E 00	5.01E 00	5.62E 00	6.31E 00	7.08E 00	7.94E 00
50.43		3.00E 00	3.37E 00	3.78E 00	4.246 00	4.75E 00	5.33E 00	5.995 00	6.72E 00	7.53F 00	8.45E 00
52.03		3.19E 00	3.58E 00	4.02E 10	4.516 00	5.66E 00	5.68E 00	6.37E 00	7.15E 00	8.02F 00	9.00F 00
53.67		3.40E 00	3.81E 00	4.28E 00	4.806 00	5.38E 00	6.04E 00	6.78E 00	7.61E 00	8.53E 00	9.57F 00
55.37 57.12 58.92 6C.78 62.70	* * *	3.62E 00 3.85E 00 4.09E 00 4.36E 00 4.64E 00	4.06L 00 4.32E 00 4.591 00 4.89E 00 5.20L 00	4.558 00 4.848 00 5.158 00 5.498 00 5.848 00 5.848 00	5.116 0C 5.438 CC 5.788 0C 6.168 CC 6.558 0C	5.735 00 6.10E 00 6.45E 00 6.916 00 7.355 00	6.43E 00 6.846 00 7.28E 00 7.75E 00 8.25E CO	7.21E 00 7.68E 00 8.17E 00 8.69E 00 9.25E 00	8.09E 00 8.61E 00 9.17E 00 9.76E 00 1.04E 01	9.08E 00 9.66E 00 1.03E 01 1.09E 01 1.16E 01	1.02E 01 1.08E 01 1.15E 01 1.23E 01 1.31E 01
64.69 66.73 68.84 71.02 73.26	* * *	4.94E 00 5.25E 00 5.59E 00 5.95E 00 6.33E 00	5.54E 00 5.89E 00 6.27E 00 6.67E 00 7.10E 00	6.21F 00 6.61E 00 7.04E 05 7.49E 00 7.97E 00	6.576 CC 7.42F OC 7.89E CC 8.40F CO 8.94E CC	7.82E 00 8.32E 00 8.86E 00 9.43E 00 1.00E 01	8.78E 00 9.34E 00 9.94E 00 1.06E 01 1.13F 01	9.85E FC 1.05E 01 1.12E 01 1.19E 01 1.19E 01 1.26E 01	1.10E 01 1.18E 01 1.25E 01 1.33E 01 1.42E 01	1.24E 01 1.32E 01 1.40E 01 1.49E 01 1.59E 01	1.396 01 1.48E 01 1.58C 01 1.68E 01 1.78E 01
75.58 77.96 80.43 82.97 85.59	*	6.74E 00 7.17E 00 7.63E 00 8.12E 00 8.64E 90	7.56E CO 8.C4E 00 8.56E 00 9.11E 00 9.69E 00	8.48E 00 9.03E 00 9.6CE 00 1.C2E 01 1.C9E 01	9.526 CC 1.018 C1 1.008 O1 1.156 C1 1.226 61	1.07E 01 1.14E 01 1.21E 01 1.29E 01 1.37E 01	1.20E 01 1.27E 01 1.36F 01 1.44E 01 1.54E 01	1.346 01 1.436 01 1.526 01 1.626 01 1.626 01 1.726 ^1	1.51E 01 1.60E 01 1.71E 01 1.82E 01 1.93E 01	1.69E 01 1.80E 01 1.92E 01 2.04E 01 2.17F 01	1.90F 01 2.02E 01 2.15F 01 2.29E 01 2.44E 01
88.30 91.09 93.97 96.94 100.00	* * *	9.2CE 00 9.79E 00 1.04E 01 1.11E 01 1.18E 01	1.03F 01 1.1CE 01 1.17E 01 1.24E 01 1.32F 01	1.165 01 1.23E 01 1.31E 01 1.40F 01 1.48F 01	1.30E (1 1.38E C1 1.47E 01 1.57E C1 1.67E 01	1.46E 01 1.55E 01 1.65E 01 1.76E 01 1.87E 01		1.83E 01 1.95E 01 2.08E 01 2.21E 01 2.35E 01	2.06E 01 2.19E 01 2.33E 01 2.48E 01 2.64F 01	2.31E 01 2.46E 01 2.62E 01 2.78E 01 2.96F 01	2.59E 01 2.76E 01 2.94E 01 3.12E 01 3.32E 01

∜CLUME CU. F	(4) ≂•⊺ N•=	FOSSI 1.00E 01 1.73E 04	********** 19.000 TU ALPHA=(P I.12f 31 1.946 34	OF1 #REA1/ 1,26E 01	(PCRT EFFE 1.41E 01	1.58E 01	TH) IN SQU 1.78E 01	ARE INCHES 2.00E 01	PER INCH. 2.24E 01	2.51E 01	2.82E 0
****** 10.00	* * * * * * *	****	4.198-01 4.458-01 4.458-01 4.748-01 5.046-31 5.378-01		5.27E-01		6.63E-01 7.06E-01 7.51E-01 7.99E-01	7,446-01	8.35E-01 8.89E-01 9.46E-01 1.01E 00	9.37E-01 9.97E-01 1.06E 00 1.13E 00	
11.68 12.05 12.43 12.83 13.23	* * *	5.04E-01 5.42E-01 5.77E-01 6.14E-01 6.53E-01	5.712-01 6.096-01 6.476-01 6.890-01 7.336-01	6.41E-01 6.82E-01 7.26E-01 7.73E-01 8.22E-01	7.19E-C1 7.65E-01 8.15E-C1 8.67E-C1 9.22E-01	8.07E-01 8.59E-01 9.14E-01 9.73E-01 1.04E 00	9.056-01 9.64E-01 1.03E 00 1.09E 00 1.16E 00	1.02E 00 1.08E 00 1.15F 00 1.22E 00 1.30E 00	1.14E 00 1.21E 00 1.29E 00 1.37E 00 1.46E 00	1.36E 00 1.45E 00	1.43E 00 1.53E 00 1.63E 00 1.73E 00 1.84E 00
13.65 14.08 14.53 14.99 15.46	* *	6.95E-01 7.40E-01 7.87E-01 8.38E-01 8.51E-01		E.751-01 9.31E~01 5.91E~01 1.05E 00 1.12E 00	1.116 CC 1.186 CC	1.17E 00 1.25E 00 1.33E 00	1.24F 00 1.32E 00 1.40E 00 1.49E 00 1.59E 00	1.39E 00 1.48E 00 1.57F 00 1.67E 00 1.78E 00	1.56E 00 1.66E 00 1.76E 00 1.88E 00 2.00E 00	1.75E 00 1.86E 00 1.98E 00 2.10E 00 2.24E 00	1.96E 0) 2.08E 0) 2.22E 0) 2.36E 0) 2.51E 0)
15.95 16.45 16.97 17.51 18.06	* *	9.49E-01 1.01E 00 1.67E 00 1.14E 30 1.22E 00	1.068 30 1.131 30 1.217 00 1.286 00 1.376 10	1.19E 0C 1.27E 00 1.35L 0C 1.44E 00 1.53E 00	1.34E CC 1.436 NO 1.526 OC 1.626 NO 1.726 CC		1.69E 00 1.80E 00 1.91E 00 2.03E 00 2.16E 00	1.856 00 2.018 00 2.148 00 2.288 00 2.438 00	2.12E 00 2.26E 00 2.41F 00 2.56E 00 2.72E 00	2.38E 00 2.54E 00 2.70E 00 2.87E 00 3.06E 00	2.67E 00 2.85E 0. 3.03E 00 3.22E 00 3.43E 00
18.63 19.22 19.83 20.46 21.10	* * *	1.29E 00 1.38E 00 1.47E 00 1.56E 00 1.66E 00	1.45E 00 1.55E 00 1.65E 00 1.75E 00 1.86E 00	1.63E 00 1.73E 00 1.85E 00 1.96E 00 2.09E 00	1.830 CC 1.950 CC 2.670 CC 2.200 CC 2.350 CC	2.65E 00 2.18E 00 2.32E 00 2.47E 00 2.63E 00	2.30E 00 2.45E 00 2.61C 00 2.78E 00 2.95E C0	2.588 h0 2.758 00 3.118 00 3.318 00	2.90F 00 3.39E 00 3.28E 00 3.49E 03 3.72E 00	3.25E 00 3.46E 00 3.68E 00 3.92E 00 4.17E 00	3.65E 00 3.88E 00 4.13E 00 4.40E 00 4.68E 00
21.77 22.46 23.17 23.90 24.65	4 4 4	1.77E 00 1.88E 00 2.00E 00 2.13E 00 2.27E 00	1.58E 00 2.11E 00 2.25E CC 2.39E CC 2.54E 30	2.23E 00 2.37E 00 2.52E 00 2.68E 00 2.85E 00	2.568 CC 2.668 CC 2.838 CC 3.C1E CC 3.208 CC	2.80E 00 2.98E 00 3.17E 00 3.38E 00 3.59E 00	3.14E 00 3.35E 00 3.56E 00 3.79E 00 4.03E 00	3.53E 53 3.75E 30 3.99E 00 4.25E 30 4.57E 00	3.96E 00 4.21E 00 4.48E 00 4.77E 00 5.08E 00	4.44E 00 4.73E 00 5.03E 00 5.35E 00 5.69E 00	4.98E 00 5.30E 00 5.64E 00 6.00E 00 6.39E 00
	* * *	2.41E 00 2.57E 00 2.73E 00 2.91E 00 3.99E 00	2.710 00 2.886 00 3.076 00 3.266 00 3.476 00	3.04E 00 3.23E 00 3.44E 00 3.66E 00 3.96E 00	3.41E CC 3.63E OC 3.86E CC 4.11E OC 4.37E CC	3.82E 00 4.07E r 0 4.33E 00 4.61E 00 4.90E 00	4.29E 00 4.57E 03 4.86E 00 5.17E 00 5.50E 00	4.81E 00 5.12E 00 5.45E 00 5.8CE 00 6.17E 00	5.40E 00 5.75E 00 6.12E 00 6.51E 00 6.93E 00	6.06E 00 6.45E 00 6.86E 00 7.30E 00 7.77E 00	6.80F 0/ 7.24F 00 7.70E 00 8.20E 00 8.72E 00
					АЕРНА ТАР	LE NC. 7	CUNTINUED				
29.71 30.65 31.62 32.62 33.65	¢ 4	3.29E 30 3.50% 00 3.73E 00 3.97E 30 4.22E 30	3.716 UC 3.93E DO 4.148 DC 4.456 DC 4.746 DC	4.15E 00 4.41E 00 4.70E 00 5.00E 00 5.32E 00	4.65E 00 4.95E 00 5.27E 00 5.610 00 5.97E 00	5.22E OC 5.55E 00 5.91E CO 6.29E OO 6.70E OO	5.86F 00 6.23E 00 6.63F 00 7.06E 00 7.51F 00	6.57E 00 6.99E 00 7.44E 00 7.92E 07 8.43E 00	7.37E 00 7.85E 00 8.35E 00 8.89E 00 9.46E 00	8.27E C0 8.80E 00 9.37E 00 9.97E 00 1.06E 01	9.28E 0 9.88E 0 1.05E 0 1.12E 0 1.19E 0
34.72 35.81 36.95 30.11 39.32	*	4.50E 00 4.78E 00 5.09E 00 5.42E 00 5.77E 00	5.04L 00 5.37E 00 5.710 00 6.080 00 6.47L 00	5.66E 00 6.02E 00 6.41E 00 6.82E 05 7.26E 00	6.358 0C 6.768 CC 7.198 GC 7.656 CC 8.158 0C	7.13E 00 7.58E 00 8.C7E 00 8.59E 00 5.14F 00	7.99E 00 8.51E 00 9.05E 00 9.64E 00 1.03E 01	8.97E 00 9.55E 00 1.02E 01 1.03E 01 1.15E 01	1.01E 01 1.07E 01 1.14E 01 1.21E 01 1.29E 01	1.13E 01 1.20E 01 1.23E 01 1.36E 01 1.45E 01	1.276 0 1.35E 0 1.43E 0 1.536 9 1.63E 9
40.56 1.84 43.17 44.53 45.91	* * * *	6.146 90 6.536 00 6.956 00 7.408 00 7.878 00	8.345 10	7.73F 00 8.22E 00 6.75E 00 9.31± 00 9.51± 00	8.67c CC 9.22E DC 9.82E CC 1.04E C1 1.11E C1	5.73E 30 1.04E 01 1.10E 31 1.17E 01 1.25E 31	1.09E C1 1.16E 01 1.24E 01 1.32E 01 1.40E 01	1.226 01 1.306 01 1.396 01 1.486 01 1.576 01	1.376 11 1.46E 01 1.56E 01 1.66E 31 1.76E 01	1.54E 01 1.64E 01 1.75E 01 1.86E 01 1.98E 01	1.73± 0 1.84E 0 1.96E 0 2.08E 0 2.22E 0
47.39 48.89 50.43 52.03 53.67	· · · · ·	8.38E 00 8.91E 00 9.49E 00 1.01E 01 1.07E 01	1.00E-01 1.06E-01 1.13C-01	1.05f 01 1.12E 01 1.19F 01 1.27E 01 1.35E 01	1.18E 01 1.26E 01 1.34E 01 1.43E 01 1.43E 01 1.52E 03	1.33E C1 1.41E 01 1.5CE 01 1.60E 01 1.70E 01	1.49F 01 1.59E 01 1.69E 01 1.80E 01 1.91E 01	1.67E 01 1.78E 01 1.89E 01 2.01E 01 2.14E 01	1.88E 01 2.00E 01 2.12E 01 2.26E 01 2.41E 01	2,10F 01 2,24E 01 2,38E 01 2,54E 01 2,70E 01	2.51E 0 2.67E 0
55.37 57.12 56.92 60.78 62.73	计 # # #	1.14E 01 1.22E 01 1.29F 01 1.38E 01 1.47E 01	1.37E Cl 1.451 Cl	1.446 () 1.537 () 1.636 () 1.636 () 1.636 () 1.656 ()	1.628 C1 1.728 01 1.838 01 1.950 01 2.078 C1	1.81F 01 1.93E 01 2.05E 01 2.18E 01 2.32E 01	2.03E 01 2.10E 01 2.30E 01 2.45E 01 2.61E 01	2.28E C1 2.42E 01 2.58E 01 2.75E 01 2.93E 31	2.56E 01 2.72E 01 2.9CE 01 3.09E 01 3.28E 01	2.87E 01 3.06F 01 3.25E 01 3.46E 01 3.68E 01	3.22E 0 3.43E 0 3.65F 0 3.88E 0 4.13E 0
64.69 66.73 68.84 71.02 73.20	经安全费	1.56E 01 1.66C 01 1.77E 01 1.88E 01 2.00E 01	1.865 OL 1.587 OL 2.110 D1	1.900 01 2.095 01 2.235 01 2.375 01 2.528 01	2.20F 01 2.356 01 2.55C 01 2.66E 01 2.83F 01	2.808 01	2.78E 01 2.95E 01 3.14E 01 3.35E 01 3.56E 01	3.31E C1	3.49E 01 3.72E 01 3.96E 01 4.21E 01 4.48E 01	4.736 01	4.98E (
75.58 77.96 80.43 82.91 85.59	经安全代金	2.13E 01 2.27E 01 2.41E 01 2.57E 01 2.73E 01	2.54E 11 2.71E 01 2.08E 01	2.68E 01 2.85F 01 3.04E 01 3.23E 01 3.44E 01	3.916 01 3.206 01 3.416 01 3.636 01 3.866 01	3.38E 01 3.59E 01 3.82E 01 4.07E 01 4.33E 01	4.29E 31 4.57E 01	4.52E 01 4.81E 01 5.12E 01	5.756 01	5.35F 01 5.69E 01 6.06F 01 6.45E 01 6.86E 01	6.39E (6.80E (7.24E (
88.33 91.09 93.57	****	2.91E 01 3.09E 01 3.29E 01 3.50E 01	3.47[01 3.738 01	4.156 01	4.110 C1 4.378 C1 4.650 C1 4.950 D1	4.9)6 01	5,86E 01 6,23E 01	6.17E 01 6.57E 01 6.99E 01	7.375 01	7.77E 01 8.27E 01 8.80E 01	8.72E (9.28E (9.88E (

VC1.1 N 0	E (.	1220030	$\Delta i P H \Delta = f$	POST /REAN	VIDUAT FEE	εστινε ιεκ	стнэ гм сы	UARE INCEE	S PER INCH	********** S.	
F-9CX	ΗZ	(DOWN)								7.94E 01 1.37E 05	
4*4***** 10.00 10.32 10.64 10.98 11.33	¥	1.18E 00 1.26E CO	1.321 00 1.416 CC 1.50E D0 1.59E 00	1.48E 06 1.58E 00 1.68E 00 1.79E 00	1.67E 00 1.77E 00 1.89E 00	1.87E 00 1.99E 00 2.12E 00 2.25E 00	2.10E 00 2.23E 00 2.38E 00	2.35E 03 2.50E 00 2.67E 00 2.84E 00	2.64E 00 2.81E 00	3.36E 00 3.57E 00	3.326 0.7 3.54E 00
11.68 12.05 12.43 12.83 13.23	*	1.61E 00 1.71E 00 1.82E 00 1.94E 00 2.06E 00	1.92E 00 2.05E 00 2.18F 00	2.3CE 00 2.44E 00	2.42E 00 2.58E 00 2.74E 00	2.72E 00 2.89E 00 3.08F 00	3.24E 00	3.42E 00 3.64E J0 3.87E D0	4.34E 00	4.30E 00 4.58E 00 4.87E 00	4.54E 00 4.83E 00 5.14E 00 5.47E 00 5.825 00
13.65 14.08 14.53 14.99 15.46	* * * *	2.20E 00 2.34E 00 2.49E 00 2.65E 00 2.82E 00	2.62E 00 2.79E 00 2.97E 00	2.948 00 2.138 00 3.338 00	3.30E OC 3.52E OC 3.74E CC	3.94E 00	3.91E 00 4.16E 00 4.43E 00 4.71E 00 5.01E 00	4.38E 00 4.67E 00 4.97E 00 5.28E 00 5.62E 00	4.92E 00 5.24E 00 5.57E 00 5.93E 00 6.31E 00	5.87E 00 6.25E 00	6.19E 00 6.59E 00 7.01E 00 7.46E 00 7.94E 00
15.95 16.45 16.57 17.51 18.06	* *	3.00E 00 3.19E 00 3.40E 00 3.62E 00 3.85E 00	3.58E 00 3.81L 00 4.06E 00	4.02E 00 4.28E 00 4.55E 00	4.51E CC 4.80E OC 5.11E OO	5.06E 00 5.38E 00	5.68E 00 6.04E 00		7.15E CO 7.61E 00	8.02F 00 8.53E 00 9.08F 00	8.455 00 9.002 00 9.576 00 1.025 01 1.085 01
18.63 19.22 15.83 20.46 21.10	* * * *	4.39E 00 4.36E 00 4.54E 00 4.94E 00 5.25E 00	4,89E 00 5,20E 00 5,54E 00	5,84E 00 6,21E 00	6.165 00 6.55E CC	6.918 00 7.358 00	7.28E C0 7.75E 00 8.25E 00 8.78E 00 9.34F 00	8.69E 70 9.25E CO	9.176 01 9.766 07 1.046 01 1.106 01 1.186 01	1.09E 01 1.16E 01	1.15E 01 1.23E 01 1.31E 01 1.39E 01 1.48E 01
21.77 22.46 23.17 23.90 24.65	* * * *	5.59E 00 5.95E 00 6.33E 00 6.74E 00 7.17E 00	7.56E OC	7.49E 00 7.57E 00 8.48E 00	8.94E CC 9.52E CC	9.43E 00 1.00E 01 1.07E 01	1.06E 01 1.13€ 01	1.19E 01 1.26E 01 1.34E 01	1.33E 01 1.42E 01 1.51E 01	1.49E ∩1 1.59E 01 1.69E 01	
25.43 26.24 27.07 27.92 28.80	* * * *	7.63E 00 8.12F 00 8.64E 00 9.20E 00 9.79E 00	1.036 01	1.02E 01 1.09E 01 1.16E 01	1.155 01 1.22E 01 1.30E 01	1.29E 01 1.37E 01 1.46E 01	1.36F 01 1.44E 01 1.54F 01 1.64E 01 1.74E 01	1.62E 01 1.72F 01 1.83E 01	2.06E 01	2.31E 71	2.15E 01 2.29E 01 2.44E 01 2.59E 01 2.76E C1
					ALPHA TA	PLE NO. 8	CONTINUED.	•			
29.71 30.65 31.62 32.62 33.65	* * * * *	1.04E 01 1.11E 01 1.18E 01 1.26E 01 1.34E 01	1.176 01 1.246 01 1.326 01 1.416 01 1.506 01	1.21E 01 1.4CE 01 1.48E 01 1.58E 01 1.68F 01	1.47C 01 1.57E 01 1.67E 01 1.77E 01 1.89C 01	1.65E 01 1.76E 01 1.87E 01 1.99E 01 2.12E 01	1.85E 01 1.97E 01 2.10E 01 2.23E 01 2.38E 01	2.08E 01 2.21E 01 2.35E 01 2.53E 01 2.67E 01	2.33E 01 2.48E 01 2.64E 01 2.81E 01 2.99E 01	2.62F 01 2.78E 01 2.96E 01 3.15E 01 3.36E 01	2.94E 01 3.12E 01 3.32E 01 3.54E 01 3.76E 01
34.72 35.81 36.95 38.11 39.32	* * *	1.42E 01 1.51E 01 1.61E 01 1.71E 01 1.82E 01	1.55L C1 1.70E 01 1.81L 01 1.92C 01 2.05E 01	1.79E 01 1.90E 01 2.03E 01 2.16E 01 2.30E 01	2,016 01 2,146 01 2,276 01 2,426 01 2,586 01	2.25E 01 2.40E 01 2.55E 01 2.72E 01 2.89E 01	2.53E 01 2.69E 01 2.86F 01 3.05E 01 3.24E 01	2.84E 01 3.02E 01 3.21F 01 3.42E 01 3.64E 01	3.18E 01 3.39E 01 3.60E 01 3.84E 01 4.38E 01	3.57E 01 3.80E 01 4.04E 01 4.30F 01 4.58E 01	4.01: 01 4.265 01 4.545 01 4.835 01 5.145 01
40.56 41.84 43.17 44.53 45.94	* * * *	1.94E 01 2.06E 01 2.20E 01 2.34E 01 2.49E 01	2.18L C1 2.32F D1 2.47t 01 2.62E 01 2.79F D1	2.44E 31 2.6CE 01 2.77E 01 2.94E 01 3.13E 01	2.74E C1 2.92E G1 3.10E C1 3.30E G1 3.52E C1	3.08E 01 3.27E 01 3.48E 31 3.71E 01 3.94E 31	3.45E 01 3.67E 01 3.91E 01 4.16E 01 4.43E 01	3.87E 01 4.12F 01 4.38E C1 4.67E 01 4.97E 01	4.346 01 4.626 01 4.926 01 5.246 01 5.578 01	4.87E 01 5.19E 01 5.52E 01 5.87E 01 6.25E 01	5.47E 01 5.82E 01 6.19F 01 6.59E 01 7.01E 01
48.89 50.43 52.03	* * * *	2.65E 01 2.82E 01 3.00E 01 3.19F 01 3.40F 01	2.978 01 3.160 01 3.370 01 3.588 01 3.818 01	3.33E 01 3.55E 01 3.78E 01 4.62E 01 4.28E 01	3.74E C1 3.98E C1 4.24E 01 4.51E C1 4.8CE C1	4.20F 01 4.47E 01 4.75E 01 5.06E 01 5.38E 01	4.71E 01 5.01E 01 5.33E 01 5.68E 01 6.04F 01	5.28E 01 5.62E 01 5.99F 01 6.37E 01 6.78E 01	5.93E 01 6.31E 01 6.72E 01 7.15E 01 7.61E 01	6.65E 01 7.08E 01 7.53E 01 8.02F 01 8.53E 01	7.467 01 7.94E 01 8.45E 01 9.00E 01 9.57E 01
55.37 57.12 58.92 60.78 62.70	* * * *	3.62E 01 3.85E 01 4.09E 01 4.36E 01 4.64E 01	4.066 C1 4.32F 01 4.59E C1 4.89F 01 5.20E 01	4.55£ C1 4.84E 01 5.15E 01 5.49£ 01 5.84£ 01	5.11E 01 5.436 01 5.786 01 6.168 01 6.556 01	5.73£ 01 6.10F 01 6.49E 01 6.91F 01 7.35E 01	7.75E 01	7.21E 01 7.68E 01 8.17E 01 8.69E 01 9.25E 01	8.05E 01 8.61E 01 9.17E 01 9.76F 01 1.04E 02	9.088 C1 9.668 O1 1.038 O2 1.098 O2 1.168 O2	1.626 92 1.086 92 1.156 02 1.236 92 1.316 92
64.69 66.73 68.84 71.02 73.26	* * * *	4.94E 01 5.25E 01 5.59E 01 5.95E 01 5.95E 01 6.33E 01	5.54E C1 5.89E D1 6.27E D1 6.67E J1 7.10F D1	6.21E 01 6.61E 01 7.04E 01 7.49E 01 7.97E 01	6.97E 01 /.42E 01 7.89F 01 8.40E 01 8.94E 01	7.821 01 8.325 01 8.865 01 9.435 01 1.005 02	B.78E 01 9.34F 01 9.54E 01 1.06E 02 1.13E 02	9.85E 01 1.05E 02 1.12E 02 1.19E 02 1.26E 02	1.10E 02 1.18E 02 1.25E 02 1.33E 02 1.42E 02	1.24E 02 1.32E 02 1.40E 02 1.49E 02 1.49E 02 1.59E 02	1.39£ 02 1.48E 02 1.58E 02 1.68E 02 1.68E 02 1.78E 02
75.58 77.96 80.43 82.97 85.59	* * * *	6.74E 01 7.17E 01 7.63E 01 8.12E 01 8.64E 01	7.545 01 8.046 01 8.565 01 9.115 01 9.695 01	€.48E 01 9.03E 01 9.66E 01 1.02E 02 1.09E 02	9.52E 01 1.01E C2 1.08E C2 1.15E 02 1.22E C2	1.071 02 1.14E 02 1.21F 02 1.29E 02 1.37F 02	1.20E 02 1.276 02 1.36F 02 1.44E 02 1.54E 02	1.34E C2 1.43E C2 1.52F C2 1.62E C2 1.72E C2	1.51E 02 1.60E 02 1.71E 02 1.82E 02 1.93E 02	1.69E 02 1.80E 02 1.92E 02 2.04E 02 2.17E 02	1.90E 02 2.02E 02 2.15E 02 2.29E 02 2.445 02
88.3C 91.09 93.97 96.94 100.00	非不安	9.20E 01 9.79E 01 1.04E 02 1.11E 02 1.18F 02	1.03E 02 1.10E 32 1.17E 32 1.24E 92 1.32E 92	1.16E 02 1.23E 02 1.31E 02 1.40E 02 1.48E 02	1.30E 02 1.38E 02 1.47E 02 1.57E 02 1.67E 02		1.64E 02 1.74E 02 1.85F 02 1.97E 02 2.10E 02	1.831 02 1.95E 02 2.08E 02 2.21E 02 2.35E 02	2.06E 02 2.19E C2 2.33E 02 2.48E 02 2.64E 02	2.31F 02 2.46E 02 2.62E 02 2.78E 02 2.96E 02	2.59E 02 2.76E 02 2.94E 02 3.12F 02 3.32F 02

VCLUME CU. F CU. J	E (A) ≣T•- LN•=	CROSS) 1.00E 02 1.73E 05	ALPHA=(ΡΕΕΙ ΔΚΕΛΙΖ	TPERT EFFE	CIIVE LENG	THI IN SQU	UNING ****** 87E 05 CU JARE INCEES 2.00E 32 3.45E 05	PER INCH.		
10.00	* * * *	3.73E 00 3.97E 00	4.15E 00 4.45E 00 4.74E 00	4.70E 00 5.00E 00 5.32F 00 5.66E 00 6.02E 00	5.27E C(5.61E CC	5.91E 30 6.29E 00 6.70E 00 7.13E 00 7.58E 00	6.63E 00	********** 7.44E 00 7.92E 70 8.43E 00 8.97E 00 9.55E 00	8.356 00 8.896 00 9.468 00 1.018 01	9.37F 00 9.97E 00	1.05E 01
11.68 12.05 12.43 12.83 13.23	* * *	5.09E 00 5.42E 00 5.77E 00 6.14E 00 6.53E 00	5.71± 00 6.08F 00 6.88E 00 6.88E 00 7.33E 00	6.41E 00 6.82E 00 7.26E 00 7.73E 00 8.22E 00	7.19E 0C 7.65E 0C 8.15E CC 8.67E 0C 9.22E 0C	8.07E 00 8.59E 00 9.14± 00 9.73E 00 1.04E 01	9.05E 00 9.64E 00 1.03E 01 1.09E 01 1.16E 01	1.02F 01 1.08E 01 1.15E 01 1.22E 01 1.30F 31	1.21E 01 1.29E 01 1.37E 01	1.28E 01 1.36E 01 1.45E 01 1.54E 01 1.64E 01	1.43E 01 1.53E 01 1.63E 01 1.73E 01 1.84E 01
13.65 14.08 14.53 14.99 15.46	* * *	6.95E 00 7.40E 00 7.87E 00 8.38E 00 8.91E 00		E.75F CC 5.31E 00 5.51E 3C 1.C5F 01 1.12E 01	9.82E 00 1.04E 01 1.11E 01 1.18E 01 1.26E 01	1.10£ 01 1.17£ 91 1.25£ 01 1.33£ 01 1.41£ 91	1.24E 01 1.32E 01 1.40E 01 1.49E 01 1.59E 01	1.38E 01 1.48E 01 1.57E 01 1.67E 01 1.67E 01 1.78E 01	1.66E 01	1.75E 01 1.86E 01 1.98E 01 2.10E 01 2.24E 01	1.96⊢ 01 2.08E 01 2.22⊢ 01 2.36E 01 2.51E 01
15.95 16.45 16.97 17.51 18.04	Ф Ф	9.49E 0G 1.01E 01 1.07E 01 1.14E 01 1.22E 01	1.06F 01 1.13E 01 1.21E 01 1.28E 01 1.37E 01	1.19E 01 1.27E 01 1.35E 01 1.94E 01 1.53E 01	1.34F 01 1.43E 01 1.52E 01 1.62E 01 1.72E 01	1.50£ 01 1.60£ 01 1.70£ 01 1.81£ 01 1.93£ 01	1.69E 01 1.80E 01 1.91E 01 2.03E 01 2.16E 01	1.89E C1 2.01E 01 2.14E C1 2.28E 01 2.43E 01	2.12E 01 2.26F 01 2.41E 01 2.56E 01 2.72E 01	2.38E 01 2.54E 01 2.70E 01 2.87E 01 3.06E 01	2.67E 01 2.85E 01 3.03E 01 3.22E 01 3.43E 01
18.63 19.22 19.83 20.46 21.10	\$	1.29E 01 1.38E 01 1.47E 01 1.56E 01 1.66E 01	1.45E 01 1.55E 01 1.65E 01 1.75E 01 1.75E 01 1.86E J1	1.638 C1 1.738 C1 1.858 O1 1.968 O1 2.698 O1	1.83E 01 1.95E C1 2.C7E C1 2.20E C1 2.35E C1	2.05E 01 2.18E 01 2.32E 01 2.47E 01 2.63E 01		2.58E 01 2.75E 01 2.93E 01 3.11E 01 3.31E 01	3.09E 01 3.28E 01 3.49E 01	3.25E 01 3.46E 01 3.68E 01 3.92E 01 4.17E 01	3.65E 01 3.88E 01 4.13E 01 4.40E 01 4.68E 01
21.77 22.46 23.17 23.90 24.65	* * *	1.77E 01 1.88E 01 2.00E 01 2.13E 01 2.27E 01		2.23E 01 2.37E 01 2.62E 01 2.68E 01 2.85E 01	2.50E 01 2.66E 01 2.83E 01 3.01E 01 3.20E 01	2.80E 01 2.98E 31 3.17E 31 3.38E 31 3.59E 01	3.14E 01 3.35E 01 3.56E 01 3.79E 01 4.03E 01	3.53E 01 3.75E 01 3.99E 01 4.25E 01 4.52E 01	4.48E 01 4.77E 01	4.44E 01 4.73E 01 5.03E 01 5.35E 01 5.69E 01	4.98E 01 5.30E 01 5.64E 01 6.00E 01 6.39E 01
25.43 26.24 27.07 27.92 28.80	* * *	2.41E 01 2.57E 01 2.73E 01 2.91E 01 3.09E 01	2.08F 01 3.07F 01 3.26E 01	3.04E 01 3.23T 31 3.44E 01 3.(4E 01 3.90E 01	3.41E C1 3.63E 31 3.86E 31 4.11E C1 4.37E 31	3.82E 01 4.C7E 01 4.33E 01 4.61E 01 4.90E 01	4.57E 01 4.86E 01 5.17E 01	5.45E 01 5.80E 01	5.40E 01 5.75E 01 6.12E 01 6.51E 01 6.93E 01	6.45E 01 6.86E 01 7.30E 01	6.80E 61 7.24E 01 7.70E 01 8.20E 01 8.72E 01
					ALPHA TAE	LE NC. 9	CONTINUED				
29.71 30.65 31.62 32.62 33.65	• • •	3.29E 01 3.50E 01 3.73E 01 3.97E 01 4.22E 01	3.93E 01 4.19E 01 4.45& 01	4.41E 01 4.70E 01 5.00E 01	4.65E 01 4.95E 01 5.27E 01 5.61E 01 5.97E 01	5.22E 01 5.55E 01 5.91E 01 6.29E 01 6.70E 01		6.99E nl 7.44E nl 7.92E 01	7.37E 01 7.85E 01 8.35E 01 8.89E 01 9.46E 01	8.27E 01 8.80E 01 9.37E 01 9.97E 01 1.06E 02	9.28E 01 9.88E 01 1.05E 02 1.12E 02 1.19E 02
34.72 35.81 36.95 38.11 39.32	* * *	4.50E 01 4.78E 01 5.09E 01 5.42E 01 5.77E 01	5.37E 01 5.71E 01 6.08E 01	6.025 01 6.415 01 6.825 01	6.35E 01 6.76E 01 7.19E 01 7.65E 31 8.15E C1	7.135 01 7.586 01 8.076 01 8.596 01 5.146 01	7.99E 01 8.51E 01 9.05E 01 9.64E 01 1.03E 02	9.55E J1 1.02E 02 1.08E J2	1.01E 92 1.07è 92 1.14E 92 1.21E 92 1.29C 92	1.13E 92 1.20E 02 1.28E 02 1.36E 02 1.45E 02	1.27E 02 1.35E 02 1.43E 02 1.53E 02 1.63C 02
40.56 41.84 43.17 44.53 45.94	* * *	6.14E 01 6.53E 01 6.95E 01 7.40E 01 7.87E 01	7.33E 01 7.80E 01 8.30E 01	8.22E 01 8.75E 01 9.31E 01	8.67E 01 9.22E 01 9.82E 01 1.04E 02 1.11E 02	9.73E 01 1.04E 02 1.10F 02 1.17E 02 1.25E 02	1.09E 02 1.16E 02 1.24E 02 1.32E 02 1.40E 02	1.22E 02 1.30E 02 1.39E 02 1.48E 02 1.57E 02		1.54E 02 1.64E 02 1.75E 02 1.86E 02 1.98E 02	1.73E 02 1.04F 02 1.96F 02 2.08E 02 2.22E 02
47.34 48.89 50.43 52.03 53.67	* *	8.38E 01 8.91E 01 9.49E 01 1.01E 02 1.07E 02	1.COE 02 1.CAE 02 1.136 02	1.19E 02 1.27E 02	1.18E 02 1.26E 02 1.34E 02 1.43E 02 1.52E 02	1.33E 02 1.41t 02 1.50E 02 1.60E 02 1.70E 02	1.49E 02 1.59E 02 1.69E 02 1.8CE 02 1.91E 02	1.89E 02 2.01E 02	1.88F 02 2.00E 02 2.12E 02 2.26E 02 2.41E 02	2.10E 02 2.248 02 2.38E 02 2.54E 02 2.70E 02	2.367 02 2.516 02 2.67E 02 2.85E 02 3.03E 02
55.37 57.12 58.92 60.78 62.70	* * *	1.14E 02 1.22E 02 1.29E 02 1.38E 02 1.47E 02	1.37E 02 1.45E 02			1.816 02 1.936 02 2.056 02 2.186 02 2.326 02		2.43E 02 2.58E 02	2.566 02 2.728 02 2.90F 02 3.09E 02 3.28E 02	2.87€ 02 3.06E 02 3.25F 02 3.46E 02 3.68E 02	3.22E 02 3.43E 02 3.65E 02 3.88E 02 4.13E 02
64.69 66.73 68.84 71.02 73.26	* * *	1.56E 02 1.66E 32 1.77E 02 1.88E 02 2.00F 02	1.86E 02 1.98E 02 2.11E 02	1.96E 02 2.09E 02 2.23E 02 2.37E 02 2.52E 02	2.20E 02 2.35F 02 2.50E 02 2.66E 02 2.83E 02	2.47E 02 2.6JE 02 2.80E 32 2.98E 02 3.17E 02	2.78E 02 2.95E 02 3.14E 02 3.35E 02 3.56E 02	3.11E C2 3.31E O2 3.53E O2 3.75E O2 3.99E O2	3.49E 02 3.72E 02 3.96E 02 4.21E 02 4.48E 02	3.92E 02 4.17F 02 4.44E 02 4.73E 02 5.03F 02	4.40F 02 4.68E 02 4.98E 02 5.30F 02 5.64E 02
75.58 77.96 80.43 82.97 85.59	* * * *	2.13E D2 2.27E 02 2.41E 02 2.57E 02 2.73E 02	2.718 02	2.60E 02 2.85E 02 3.04E 02 3.23E 02 2.44F 02	3.016 C2 3.20E C2 3.416 C2 3.63E O2 3.86E J2	3.388 02 3.598 02 3.828 02 4.078 02 4.338 02	3.79E 02 4.03E 02 4.29E 02 4.57E 02 4.86E 02	4.25E 02 4.52E 02 4.81E 02 5.12E 02 5.45F 32	4.77E 02 5.08E 02 5.40E 02 5.75E 02 6.12E 02	5.35E 02 5.69E 02 6.06E 02 6.45E 02 6.86E 02	6.00E 02 6.39E 02 6.80E 02 7.24E 02 7.70E 02
88.3C 91.09 93.97 96.94 100.00	* * * *	2.91L 02 3.09E 02 3.29E 62 3.50E 02 3.73E 02	3.70F C2 3.93E 02	3.66E J2 3.06E J2 4.15E J2 4.41F J2 4.76F J2	4.112 C2 4.37E C2 4.65E O2 4.95E O2 5.27E C2	4.61E 02 4.90E 02 5.22E 02 5.55E 02 5.91E 02	5.17E 02 5.50E 02 5.86E 02 6.23E 02 6.63E 02	5.8CE 02 6.17E 02 6.57E 02 6.99E 02 7.44E 02	6.51F 02 6.93£ 02 7.37E 02 7.85£ 02 8.35£ 02	7.30E 02 7.77E 02 8.27E 02 8.80E 02 9.37E 02	8.20E 02 8.72F 02 9.28t 02 9.88F 02 1.05E 03

CU. F CU. F CU. T F~BCX	-1119 E (à F1,= [N,≓ HZ	4****** LS F=74 (CF(SS) 3.16 5.46F (DEWN) *44****	316.2" ALP 02 3.55 05 6.13	9HA=(9HA=(9F C2	E91. PUPT A 3.58 6.89	51 (LA) 12 25	CURIC /{PERT 4.47 7.728	5 E E T 5 F F 5 - 02 5 - 05	34 5. ECTIVE 5.210 8.666	465 LEN 202 05	05 T CTH1 I 5.628 9.729	1 1 1 5J 2 02 2 05	.54E D6 UARE IN 6.31E 1.09E	CHES 1000 1000 1000	1.226	ICHE (NCH 07 06	7.94E 1.376	02 06	8.91F 1.54E	02 36
10.00 10.32 10.64 10.68 11.33	* * *	1.138 (1.268 % 1.348 (1.426 % 1.516 %	1 1.32 1 1.41 1 1.53	E 11	1.480 1.581 1.688 1.790	11 11 11 11 11	1.679	01 51 51 51 51	1.879	01 01 01 01	2.119 2.235 2.338 2.538 2.698	01 01 01 01	2.350 2.50F 2.67F	11 21 21 21	2.64F 2.512 2.99F 3.182 3.39E	11 11 11 11	2.961 3.15E 3.36F	11 01 01 91	3.32F 3.54F 3.76E	01 01 01
11.68 12.05 12.43 12.83 13.23	ф ф ф	1.61E 6 1.71E 5 1.82E 5 1.94E 5 2.06E 5	1 1.92 1 2.05	E 01 E 01 E 01 E 01 E 01 E 01	2.108 2.308 2.448	1 1 1 01	2.271 2.528 2.588 2.749 2.928	C 1 5 31 5 01		01 01 01	2.868 3.158 3.248 3.450 3.676	01	3.42E 3.64E 3.87E	21 21 21	1.603 3.846 4.986 4.346 4.626	01 01 01	4.30E 4.58E	01 01 01	4.83E 5.14E	01 01 01
13.55 14.08 14.53 14.99 15.46	*****	2.2/E / 2.34E / 2.45E / 2.05E / 2.02E /) 2.62 1 2.79 1 2.97	E 01 E 01 E 01 E 01 E 01	7.138 3.338	91 91 91	1.101 3.33(3.521 3.741 3.481	01 01 01	3.498 3.71c 3.948 4.208 4.478	41 01 01	3.916 4.169 4.430 4.718 5.018	01 01	4.67F 4.77E	31 11 01	4.929 5.24F 5.570 5.93F 6.316	11 01 01	5.87E	01 01	6.19F 6.59b 7.01b 7.46b 7.94F	01 01 01
15.95 16.45 16.97 17.51 18.06		2.10E / 3.19E . 3.40E 1 3.62E / 3.85E /	1 3,50 1 3.81 1 4.96	E 01 E J1 E 01 E 01 E 01 E 01	4.120 4.288 4.550	- 61 - 01 - 61	4.248 4.518 4.808 5.118 5.430	01 01 01	4.756 5.768 5.386 5.736 6.176	01 01 01	5.338 5.680 6.346 6.438 6.846	01 01 01	6.37E 6.78E 7.21E	01 01 01	6.728 7.158 7.616 8.798 8.618	01 01 01	3.(2E 8.53E 9.)8≈	01 01 01	8.455 9.00F 9.57E 1.02F 1.085	01 01 02
18.63 19.22 19.83 20.46 21.10	· · · · ·	4.09E 4.36E 4.645 4.94E 5.25E	1 4.89 1 5.20 1 5.54	E 01 L 01 E JI E 31 F CI	5.34H 5.34H 6.21U	- 01 - 01 - 01	5.781 6.161 6.556 6.971 7.425	01 01 01	(.49# 6.91) 7.358 7.929 8.328)1 11 01	1.235 7.756 8.256 8.786 9.348	01 21 01	8.176 8.690 9.256 9.850 1.056)1)1 (1	9.178 9.760 1.94P 1.100 1.18E	01 02 02	1.03F 1.09F 1.16 1.245 1.325	^2 ^2 ^2	1.15F 1.23F 1.31E 1.39E 1.48E	02 02 02
21.77 22.40 23.17 23.90 24.65	*	5.59E (5.95E) 6.33E (6.74E) 7.17E)	1 6.67 1 7.10	E 01 E 01 E 01 E 01 E 01	7.491 7.971 8.485	01 01	7.895 3.409 8.945 9.527 1.016	01 01 01	8.966 5.436 1.006 1.076 1.146	01 02 02	9.94) 1.06% 1.13[1.200 1.270	02 02 02	1.26F 1.34E	20 21 22	1.250 1.330 1.428 1.516 1.608	02 02 02	1.43E 1.49E 1.59E 1.69E 1.80F	02 02 02	1.59E 1.63E 1.78E 1.90E 2.02C	02 02 02
25.43 26.24 27.07 27.92 28.80	¥	7.63E 6.12E 8.64E 9.20E 9.79E	1 9.11 1 9.69 1 1.03	E 01 E 02	1.121	12 02 52	1.040 1.156 1.227 1.340 1.381	02	1.218 1.296 1.371 1.468 1.558	02 02 02	1.36/ 1.44(1.54(1.64) 1.74F	- 72 - 72 - 72	1.62ť 1.725	. 25 25 25	1.716 1.825 1.936 2.068 2.196	17 112 112	1.928 2.048 2.176 2.318 2.468	02 02 02	2.155 2.29F 2.44t 2.59E 2.76[02 02 12
							AL PH/	T A	DLE NU.	D	CONTEN	ιUEn	•							
29.71 30.65 31.62 32.62 33.65	* * * * *	1.048 (1.116 (1.186 (1.266 (1.346 (2 1.24 2 1.32 2 1.41	E 02 E 02 E 02	1.40E 1.48E	02 02 02	1.171 1.576 1.678 1.778 1.896	02 02 02	1.65E 1.76E 1.87E 1.99E 2.12E	32 72 02	1.851 1.976 2.105 2.23E 2.38F	02 02 02		05 05 15	2.33E 2.48E 2.64E 2.81F 2.99E	02 02 02	2.626 2.78E 2.96F 3.15F 3.36F	02 02 02	2.94E 3.12E 3.32E 3.54E 3.76f	02 02 02
34.72 35.81 36.95 38.11 39.52	火车农业家	1.426 / 1.518 / 1.616 0 1.71F 0 1.82f 3	2 1.81 2 1.81 2 1.92	E 02 E 02 E 02	1.79F 1.9CE 2.C3F 2.16L 2.3 YE	02 02 02	2.016 2.146 2.276 2.426 2.586	02 02 02	2.25E 2.40E 2.55E 2.72E 2.8°E	02 02 02	2.53C 2.69E 2.86E 3.05F 3.24L	02 02 02	2.84F 3.021 3.21F 3.42F 3.64F	02 02 02	3.18E 3.39E 3.69E 3.84E 4.98E	02 02 02	3.57E 3.80F 4.04E 4.30E 4.58C	02 02 02 02	4,01F 4,26E 4,54E 4,83E 5,14E	02 02 02 02
4C.j6 41.84 43.17 44.j3 45.94	* * * * *	1.94E C 2.06E C 2.20E C 2.34E U 2.99E P	2 2.32 2 2.47 2 2.62	E 02 E 02 E 02	2.448 2.0CE 2.17L 2.94L 2.13K	02 02 02	2.745 2.925 3.10E 3.30F 1.525	02 02 02	3.09E 3.27E 3.48E 3.71E 3.94E	12 02 02	3.451 3.678 3.916 4.168 4.438	02 02 02	3.87E 4.12E 4.38F 4.67E 4.97F	02 02 02	4.342 4.62F 4.92E 5.24E 5.57E	02 12 12 12 22	4.87E 5.19E 5.52E 5.87E 0.25E	02 02 02 02	5.47E 5.82F 6.19E 6.59E 7.01F	n 2 02 02 02
47.39 48.89 50.43 52.03 53.67	* * * * *	2.65E 0 2.82E 0 3.00E 0 3.19E 0 3.40E 0	2 3.161 2 3.371 2 3.588	L 02 L 02 E 02	3.33f 3.55E 3.788 4.02E 4.22F	62 02 02	3.74E 3.98E 4.24E 4.51E 4.65E	02 02 02	4.20E 4.47E 4.75E 5.06E 5.38C	02 02 02	4,710 5,010 5,330 5,680 6,040	02 02 02	5.28E 5.62E 5.59E 6.37E 6.78F	02 22 02	5.93E 6.31E 6.72E 7.15E 7.61E	72 72 72 72	6.05E 7.08E 7.536 8.02F 8.53E	02 02 02 02	7.46F 7.94F 8.45E 9.00E 9.57E	02 02 02 02
55.37 57.12 58.92 50.78 52.70	* * * *	3.62E 0 3.85E 0 4.09E 0 4.36E 0 4.64E 0	2 4.321 2 4.551 2 4.891	02 02 02	4.558 4.24E 5.15E 5.49E 5.49E	02 02 02	5.11F 5.43E 5.78E 5.16E 5.55F	02 02 02	5,73† 6,10† 6,49† 5.91† 7,35†	02 62 62	6.63F 6.84L 7.28F 7.75E 8.25E	02 02 02	7.211 7.68E 8.17E 8.69E 9.25E	12 12 12 12	8.09E 8.61E 9.17E 9.76F 1.045	02 02 02	9.046 9.66E 1.03E 1.09E 1.16E	n2 n2 03 n3	1.02F 1.08E 1.15F 1.23F 1.31E	03 03 03 03
24.69 56.73 58.84 71.02 73.26	* *	4.948 0. 5.250 0. 5.598 0. 5.958 0. 6.338 0.	2 5.891 2 6.271 2 6.671	- 02 - J2 - 02	4.21L 6.61E 7.94E 7.99E 7.97E	-12 02 02	6.970 7.42E 7.89E 8.40E 8.40E 8.94E	02 02	7.827 8.325 8.365 9.435 1.001	02 02 02 02	8.78E 9.34E 9.04E 1.06E 1.130	US 05 05 20	9.85F 1.05E 1.12C 1.12F 1.25E	22 03 03 03	1.106 1.180 1.25E 1.330 1.426	03 03 03 03	1.24E 1.32F 1.40E 1.49E 1.59F	^3 ^3 /3 /3	1.39E 1.48E 1.58E 1.68E 1.78E	03 03 03 03
15.58 17.96 16.43 12.97 15.59	* * *	6.74E 0. 7.17E 02 7.03E 02 8.12E 02 5.64E 02	8.040 8.56E 9.118	02 02 02	7.48E 5.03E 5.00U 1.72E 1.05E	02 52 13	9.52{ 1.01E 1.08E 1.15E 1.22C	03 03 03	L.C7F 1.146 1.216 1.296 1.370	03 03 03	1.20F 1.27F 1.36E 1.44F 1.54F	93 03 03 03	1.34L 1.43F 1.52E 1.62E 1.72E	13 13 13 13	1.51F 1.60E 1.71E	13 03 03 03		.13 03 03 03	1.90E 2.02E 2.15E 2.29E 2.44E	03 03 03 03
6.3C 1.05 3.97 4.54 C.0C	* \$ *	5.20F 0: 9.79F 0: 1.64C 0: 1.11E 0: 1.18E 0:	1.10F 1.17E 1.24E	- 73 - 33 - 73	1.161 1.23F 1.31E 1.40E 1.48F	03 03 03	1.30F 1.30E 1.47E 1.57E 1.67E	23 03 03	1.46E 1.55E 1.65E 1.76E 1.67E	63 63	1 676	03	1.836 1.956 2.08F 2.21F 2.35E	23 03 03 03	2.066 2.19E 2.33E 2.48E	03 03 03 03	2.311 2.46E 7.62F 2.75F 2.96E	n3 03 03 03	2.59E 2.76E 2.94E 3.12F 3.32F	03 03 03 03

******	***	****	****	****	***	*****	****	*****	******	** ******	****
0.0	*	8.25E-05	9.26E~05	1.04E-04	1.176-04	1.316-04	1.47E-04	1.658-04	1.856-04	2.07E-04	2.33E-04
0.5	*	7.11E-03	7.548-03	7.95E-03	8.466-03	8.97E-03	9.506-03	1.01E-02	1.078-02		1.20F-02
1.0	*	1.00E-02	1.C6E-02	1.13E-02	1.196-02	1.276-02		1.42E-02	1.516-02	1.60E-02	1.69E-02
1.5	*	1.23E-02	1.30E-02	1.38E-02	1.46E-02	1.556-02	1.64E-02	1.746-02	1.84E-02	1.956-02	2.07E-02
2.0	*	1.428-02	1.50E-02	1.598-02	1.69E-02	1.798-02	1.89E-02	2.016-02	2.136-02	2.258-02	2.398-02
2.0	~	1.426-02	1.500-02	1.996-02	1.096-02	1.796-02	1.096-02	2.010-02	2.130-02	2.236-02	2.346-02
2.5	*	1.596-02	1.68E-02	1.766-02	1.856-02	2.005-02	2,126-02	2.24E-02	2.386-02	2.52E-02	2.67E-02
3.C	×	1.74E-02	1.84E-02	1.95E-02	2.06E-02	2.19E-02	2.326-02	2.45E-02	2.60E-02	2.76E-02	2.926-02
3,5	*	1.87E-02	1.99E-02	2.10E-02	2.236-02	2.36E-02	2.50E-02	2.65E-02	2.81E-02	2.98E-02	3.15E-02
4.C	*	2.00E-02	2.12E-02	2.256-02	2.38E-02	2.52E-02	2.67E-02	2.83E-02	3.00E-02	3.186-02	3.376-02
4.5	*	2.136-02	2.258-02	2.396-02	2.53E-C2	2.685-02	2.84E-02	3.00E-02	3.186-02	3.376-02	3.57E-02
	•	2.1132 02	2.231 02	L		2.000 01	LIGHL OL	5.000 02	5.100 02	3.510 02	31312 02
5.0	*	2.24E-02	2.376-02	2.516-02	2.66E-C2	2.82E-02	2.99E-02	3.178-02	3.35E-02	3.55E-02	3.77E-02
5.5	*	2.356-02	2.49E~02	2.64E-02	2.798-02	2.96E-02	3.13E-02	3.326-02	3.52E-02	3.738-02	3,95E-02
6.0	¥	2.45E-02	2.60E~C2	2.756-02	2.926-02	3.C9E-02	3.278-02	3.47E-02	3.678-02	3.89E-02	4,12E-02
6.5	*	2.55E-02	2.716-02	2.87E-C2	3.C4E-C2	3.228-02	3.416-02	3.61E-C2	3.82E-02	4.05E-02	4.29E~02
7.0	*	2.65E-02	2.81E-02	2.97E-02	3.158-02	3.34E-02	3.546-02	3.75E-02	3.97E-02	4.20E-02	4.45E-02
7.5	*	2.74E-02	2.918-02	3.C8E-02	3.26E-02	3.45E-02	3.666-02	3.888-02	4.11E-02	4.35E-02	4.616-02
8.0	*	2.83E-02	3.00E-02	3.18E-02	3.37E-C2	3.57E-02	3.78E-02	4.00E-02	4.246-02	4.498-02	4.766-02
8.5	*	2.925-02	3.C9E-02	3.28E-02	3.47E-C2	3.68E~02	3.906-02	4.13E-02	4.37E-02	4.63E-02	4.916-02
9.0	*	3.00E-02	3.18E-02	3.376-02	3.57E-02	3.78E-02	4.01E-02	4.25E-02	4.50E-02	4.776-02	5.056-02
9.5	*	3.69E-02	3.278-02	3.46E-02	3.676-02	3.895~02	4.12E-02	4.36E-02	4.62E-02	4.90E-02	5.19E-02
10.0	*	3.176-02	3.356~02	3.556-02	3.76E-C2	3.99E-02	4.22F-02	4.48E-02	4.748-02	5.02E-02	5.326-02
10.5	*	3.241-02	3.44E-02	3.64E-02	3.865-02	4.09E~02	4.33F-02	4.59E-02	4.86E-02	5.156-02	5.45E-02
11.0	*	3.326-02	3.52E-02	3.73E-02	3.956-02	4.185~02	4.435-02	4.69E-02	4.976-02	5.275-02	5,58E-02
11.5	×	3.40E-02	3.60E-02	3.818-02	4.04E-C2	4.28E~02	4.538-02	4.8CE-C2	5.08E-02	5.396-02	5.708-02
12.0	*	3.47E-02	3.678-02	3.89E-02	4.126-02	4.37E-02	4.63E-02	4.908-02	5.19E~02	5.508-02	5.836-02
12.5	*	3.546-02	3.75E-C2	3.97E-02	4.21E-02	4.46E-C2	4.72E-02	5.006-02	5.30E-02	5.616-02	5.958-02
13.0	*	3.616-02	3.82E-02	4.C5E-02	4.29E-02	4.55E-02	4.82E-02	5.10E-02	5.40E-02	5.72E-02	6.06E-02
13.5	*	3.68E-02	3.90E-02	4.13E-C2	4.37E-02	4.63E-02	4.916-02	5.206-02	5.51E~02	5.83E-02	6.18E-02
14.0	×	3.75E-02	3.97E-02	4.265-02	4.45E-C2	4.72E-02	5.00E-02	5.298-02	5.616-02	5.94E-02	6.29E-02
14.5	*	3.816-02	4.045-02	4.28E-02	4.53E-C2	4.80E~02	5.09E-02	5.396-02	5.71E-02	6.05E-02	6.40E-02
15.0	≭	3.88E~02	4.116-02	4.356-02	4.61E-02	4.88E~02	5.176-02	5.48E-02	5.80E-02	6.15E-02	6.516-02
15.5	×	3.94E-02	4.17E-02	4.42E-02	4.68E~02	4.96E-02	5.26E-02	5.57E-02	5.90E~02	6.25E-02	6.62E-02
16.0	¥	4.00E-02	4.24E-C2	4.49E-02	4.76E-02	5.C4E-02	5.34E-02	5.66E-C2	5.996-02	6.35E-02	6.73E-02
16.5	*	4.076-02	4.316-02	4.56E-02	4.83E-C2	5.12E-02	5.42E-02	5.75E-02	6.C9E-02	6.45E-02	6.83E-02
	*	4.136-02	4.37E-02	4.636-02	4.91E-C2	5.20E-02	5.51E-02	5.836-02	6.186-02	6.55E-02	6.93E-02

C TABLE NC. 1 CONTINUED.

				1 105 00	4 205 20	C 375 63	F 501 00	5 035 03	(375 03	1 115 00	7 035 03
17.5	*	4.19E-02	4.44E-02	4.7CE-02	4.98E-02	5.278-02	5.591-02	5.92E-02	6.27E-02	6.64E-02	7.03E-02
18.0	*	4.256-02	4.50E-02	4.77E-02	5.C5E-02	5.356-02	5.66E-02	6.COE-02	6.36E-02	6.73E-02	7.13E-02
18,5	*	4.31E-02	4.56E-02	4.83E-02	5.128-02	5.42E-02	5.748-02	6.C8E-02	6.448-02	6.83E-02	7.236-02
19.0	*	4.36E-02	4.62E-02	4.90E-02	5.196-02	5.496-02	5.82E-02	6.17E-02	6.53E-02	6.92E-02	7.33E-02
19.5	*	4.42E-02	4.68E-02	4.968-02	5.25E-02	5.57E-02	5.90E-02	6.25E-02	6.628-02	7.0lE-02	7.43E-02
20.0	*	4.488-02	4.74E-02	5.C2E-02	5.326-02	5.64E-02	5.97E-02	6.33E-02	6.70E-02	7.10E-02	7.526-02
20.5	*	4.538-02	4.80E-02	5.09E-02	5.396-02	5.71E-02	6.056-02	6.40E-C2	6.78E-02	7.19E-02	7.61E-02
21.0	*	4.596-02	4.866~02	5.15E-02	5.45E-02	5.78E-02	6.12E-02	6.48E-02	6.876-02	7.27E-02	7.70E-02
21.5	*	4.64E-02	4.92E-02	5.216-02	5.52E-02	5.84E-02	6.196-02	6.56E-02	6.956-02	7.36E-02	7.806-02
22.0		4.696-02	4.926-02	5.276-02	5.586-02	5.916-02	6.26E-02	6.63E-02	7.03E-02	7.44E-02	7.89E-02
22.0	*	4.095-02	4.978~62	5.276-02	3.586-02	5.916-02	0.202-02	6.036-02	1.030-02	1.446-02	1.895-02
22.5	*	4.75E-02	5.C3E~02	5.33E-02	5.646-02	5,58E-02	6.338-02	6,71E-02	7.118-02	7.53E-02	7.97E-02
23.0	۵	4.80E-02	5.08E-02	5.39E-02	5.71E-02	6.04E-02	6.40E-02	6.78E-02	7.18E-02	7.61E-02	8.066-02
23.5	*	4.85E-02	5.146-02	5.44E-02	5.776-02	6.11E-02	6.47E-02	6.86E-02	7,265-02	7.69E-02	8.156-02
24.0	*	4.90E-02	5.19E-02	5.50E-C2	5.83E-02	6.17E-02	6.548-02	6.93E-02	7.34E-02	7.77E-02	8.24E-02
24.5	*	4.958-02	5.256-02	5.56E-02	5.89E-C2	6.24E-02	6.61E-02	7.002-02	7.426-02	7.866-02	8.32E-02
25.0		5.00E-02	5.30E~02	5.62E-C2	5.95E-02	6.30E-02	6.67E-02	7.078-02	7.496-02	7.93E-02	8.41E-02
25.5	*	5.05E-02	5.358-02	5.67E-02	6.C1E-02	6.36E~02	6.748-02	7.146-02	7.56E-02	8.01E-02	8.496-02
26.0	*	5.10E-02	5.41E~02	5.73E-02	6.C7E-C2	6.43E~02	6.81E-02	7.218-02	7.64E-02	8.09E-02	8.576-02
26.5	*	5.15E-32	5.46E-02	5.788-02	6.12E-02	6.49E~02	6.876-02	7.28E-02	7.718-02	8.17E-02	8.656-02
27.0	¥	5.20E-02	5.51E-C2	5.84E-02	6.18E-C2	6.55E~C2	6.94E-02	7.358-02	7.786-02	8.256-02	8.735-02
			JUJ12 02								
27.5	¥	5.25E-02	5.56E-C2	5.896-02	6.24E-02	6.61E-02	1.00E-02	7.42E-02	7.86E-02	8.32E-02	8.82E-02
28.0	*	5.306-02	5.618-02	5.948-02	6.29E-02	6.67E-02	7.06E-02	7.48E-02	7.93E-02	8.40E-02	8.906-02
28.5	*	5.34E-C2	5.66E-02	6.CCE-02	6.356-02	€.73E~02	7.136-02	7.55E-02	8.00E-02	8.476-02	8.97E-02
29.0	*	5.396-02	5.71E-02	6.C5E-02	6.41E-02	6.79E-02	7.19E-02	7.618-02	8.076-02	8.556-02	9.05E-02
29.5	*	5.44E-02	5.76E-02	6.10E-02	6.46E-C2	6.84E-02	7.25E-02	7.68E-02	8.14E-02	8.62E-02	9.13E-02
30.0	*	5.48E-02	5.812-02	€.15E-02	6.52E-C2	6.90E-02	7.316-02	7.75E-C2	8.206-02	8.69E-02	9.216-02
30.5	¥	5.536-02	5.85E-02	£.20E-02	6.576-02	€.96E-02	7.37E-02	7.81E-02	8.27E~02	8.76E-02	9.28E-02
31.0	*	5.576-02	5.90E-02	6.256-02	6.625-02	7.C2E-02	7.436-02	7.87E-02	8.345~02	8.836-02	9.365-02
31.5	*	5.626-02	5.95E-02	6.30E-02	6.68E-C2	7.C7E-02	7.49E-02	7.94E-02	8.41E-02	8.916-02	9.43E-02
32.0	*	5.66E-02	6.00E-02	6.35E-02	6.736-02	7.13E~C2	7.55E-02	8.006-02	8.47E-02	8.985-02	9.516-02
32.5	*	5.71E-02	6.04E-02	6.4CE-02	6.78E-C2	7.18E-02	7.616-02	8.066-02	8.546~02	9.05E-02	9.58E-02
33.0	*	5.758-02	6.C9E-02	6.456-02	6.83E-02	7.24E-02	7.67E-02	8.126-02	8.60E-02	9.11E-02	9.66E-02
33.5	*	5.796-02	6.14E-C2	6.5CE-02	6.88E-02	7.29E-02	7.73E-02	8.18E-02	8.67E~02	9.18E-02	9.73E-02
34.0	*	5.84E-02	6.18E-02	6.55E-02	6.94E-02	7.356-02	7.78E-02	8.24E-02	0.73E-02	9.25E-02	9.80E-02
34.5	*	5.88E-02	6.23E-C2	6.60E-02	6.99E-02	7.40E-02	7.84E-02	8.31E-02	8.80E-02	9.32E-02	9.87E-02
35.0	*	5.926-02	6.27E-02	6.64E-02	7.046-02	7.45E-02	7.905-62	8.36E-C2	8.866-02	9.39E-02	9.946-02
35.5	*	5.96E-02	6.32E-02	6.69E-02	7.09E-02	7.51E-02	7.95E-02	8.42E-02	8.925-02	9.45E-02	1.00E-01
36.0		6.005-02	6.36E-02	6.74E-02	7.14E-C2	7.56E-02	8.01E-02	8.48E-02	8.99E-02	9.526-02	1.01E-01
36.5	*	6.058-02	6.40E-02	£.78E-02	7.196-02	7.61E-02	8.06E-02	8.54E-02	9.05E-02	9.598-02	1.026-01
37.0	*	6.C9E-02	6.45E-02	6.83E-02	7.246-02	7.66E-02	8.12E-02	8.605-02	9.11E-02	9.656-02	1.02E-01

 ALPHA VALUES FROM 3.16E-04 TO 8.91E-04
 SOUAPE FINCHES PER INCH.

 ALPHA VALUES FROM 3.16E-04 TO 8.91E-04
 SOUAPE FINCHES PER INCH.

 SQ IN/IN= 3.16E-04
 3.55E-04
 3.98E-04
 4.47E-04
 5.62E-04
 6.31E-04
 7.08E-04
 7.94E-04
 8.91E-04
 INCHES (DOWN) ****** 0.0 * 2.61E-04 2.93E-04 3.28E-04 3.68E-04 4.13E-04 4.64E-04 5.20E-04 5.84E-04 6.55E-04 7.35E-04 0.5 * 1.27E-02 1.35E-02 1.43E-02 1.51E-02 1.60E-02 1.70E-02 1.80E-02 1.91E-02 2.03E-02 2.15E-02 1.0 * 1.79E-02 1.90E-02 2.01E-02 2.13E-02 2.26E-02 2.39E-02 2.54E-02 2.69E-02 2.85E-02 3.02E-02 1.5 * 2.19E-02 2.32E-02 2.46E-02 2.61E-02 2.01E-02 2.39E-02 3.30E-02 3.28E-02 3.48E-02 3.64E-02 3.69E-02 2.0 * 2.53E-02 2.66E-02 2.64E-02 2.61E-02 2.19E-02 3.38E-02 3.58E-02 3.79E-02 4.02E-02 4.62E-02 3.56E-02 3.77E-02 4.0CE-02 3.90E-02 4.13E-02 4.38E-02 4.21E-02 4.46E-02 4.73E-02 4.50E-02 4.77E-02 5.05E-02 4.77E-02 5.05E-02 5.35E-02 2.5 * 2.82E-02 3.0 * 3.C9E-02 3.5 * 3.34E-02 2,995-02 3.17E-02 3.36E-02 4-24F-02 4.496-02 4.766-02 4.64E-02 4.916-02 3.28E-02 3.476-02 3.68E-02 5.215-02 3.97E-02 4.25E-02 4.50E-02 3.54E-02 3.78E-02 3.758-02 5.01E-02 5.35E-02 5.318-02 5.62E-02 4.01F-02 5-67E-02 4.0 ÷ 3.57E-02 6.01E-02 * 4.5 3.79E-02 4.C1E-02 4-25E-02 5.67E-02 6.01E-02 6.37E-02 5.0 3.996-02 4.23E-C2 4.48E-02 4.74E-C2 5.03E~02 5.33E-02 5.64E-02 5.985-02 6.336-02 6.71E-02 5.5 * 4.18E-02 4.43E-02 4.7CE-02 4.97E-02 5.20E-02 5.27E-02 5.58E-02 5.50E-02 5.83E-02 5.92E-02 6.27E-02 6.55E-02 6.64E-02 7-04E-02 6.18E-02 6.0 * 4.37E-02 4.638-02 4.9CE-02 7.35E-02 6.5 * 4-558-02 4.82E-02 5.10E-02 5.41E-02 5.73E-02 6.07E-02 6.438-02 6.81E-02 7.22E-02 7.651-02 5.COE-02 5.3CE-02 5.616-02 5.94E-02 6.30E-02 6.67E-C2 7.07E-02 7.49E-02 7.94E-02 7.0 * 4.72E-02 6.90E-C2 7.13E-32 7.35E-02 4.88E-02 5.17E-02 5.81E-C2 6.00E-C2 6.52E-02 6.73E-02 7.326-02 * 5.48E-02 6.15E-02 7.756~02 8.216-02 7.5 5.66E-02 6.356-02 8.48E-02 8.0 * 5.04E-02 5.34E-02 7.55E-02 8.00E-02 5.20E-02 5.518-02 5.83E-02 6.18E-02 6.55E-02 6.94E-02 7.796-02 8.25E-02 8.746-02 8.5 9.0 * 5.35E-02 5.49E-02 5.67E-02 6.00E-02 6.17E-02 6.36F-02 6.53E-02 6.74E-02 6.92E-02 7.14E-02 7.33E-02 7.54E-02 7.77E-02 8-01E-02 8.49F-02 8,995-02 5.82E-02 8.236-02 9.246-02 9.5 8.726-02 7.52E-02 7.57E-02 7.57E-02 8.17E-02 10.0 * 10.5 * 5.64E-02 5.57E-02 6.335-02 6-70E-02 7.10E-02 8.44E-02 8.94E-02 9.48E-02 6.87E-02 7.C3E-C2 7.19E-02 7.71F-02 7.89E-02 9.17E-02 5.78E-02 6.12E-02 6.48E-02 7.276-02 8.65E-02 9.71E-02 11.0 * 5.91E-02 6.26E-02 7.456-02 9.386-02 6.78E-02 9.94E-02 8.36E-02 8.85F-02 6.40E-02 8.54E-02 1.026-01 6.04E-02 7.61E-02 B.06E-02 9.05E-02 9.598-02 11.5 6.54E-C2 7.78E-02 9.25E-02 12.0 * 6.17E-02 A.93E-02 7.34E-02 8.245-02 8.735-02 9.80F+02 1.046-01 12.5 * 6.30E-02 13.0 * 6.42E-02 13.5 * 6.55E-02 6.67E-02 7.495-02 7-94E-02 8.91E-02 9.08E-02 9.44E-02 7.C7E-02 8.416-02 1.00E-01 1.066-01 8.09E-02 8.57E-02 8.25E-02 8.74E-02 6.81E-02 6.94E-02 9.62E-02 7.21E-02 7.35E-02 7.645-02 1.02E-01 1.08E-01 7.78E-02 9.25E-02 9.80E-02 1.04E-01 1.106-01 14.0 6.67E-02 6.78E-02 7.93E-02 8.07E-02 8.90E-02 9.42E-02 9.05E-02 9.59E-02 * 7.06E-02 7.48F-02 8.40E-02 9,985+02 1.06E-01 1.12E-01 1.08E-01 1.14E-01 7.19E-02 8.55E-02 7.618-02 1.02E-01 14.5 7.315-02 8.696-02 9.75E-02 15.0 6.90F-02 7.74E-02 8.205-02 9.216-02 1.035-01 1.095-01 1.166-01 7.01E-02 7.43E-02 7.55E-C2 * 7.87E-02 8.34E-02 6.835-02 9.36E-02 9.916-02 1.05E-01 15.5 1.118-01 1.186-01 9.51E-02 9.66E-02 1.13E-01 1.20E-01 1.15E-01 1.22E-01 8.0CE-02 8.98E-02 16.0 * 7.13E-02 7.24E-02 8.47E-02 1.016-01 1.076-01 7.67E-C2 8.12E-02 8.60E-02 9.116-02 1.02E-01 1.08E-01 1.15E-01 1.22E-01 1.10E-01 1.17E-01 1.23E-01 16.5 17.0 * 7.34E-02 7.78E-02 8.24E-02 8.73E-02 9.256-02 9.805-02 1.045-01

D TABLE NC. 2 CENTINUED.

17.5	*	7.45E-02	7.896-02	8.36E-02	8.865-02	5.39E-C2	9.946-02	1.056-01	1.126-01	1.186-01	1.255-01
18.0	¥	7.56E-02	8.01E-02	8.48E-02	8.98E-02	9.52E-02	1.01E-01	1.07E-01	1.136-01	1.206-01	1.276-01
18.5	*	7.66E-02	8.128-02	8.6CE-02	9.118-02	\$.65E-02	1.02E-01	1.08E-01	1.15E-01	1.225-01	1.298-01
19.0	*	7.76E-02	8.22E-02	£.71E-02	9.23E-02	9.78E-02	1.04E-01	1.106-01	1.16E-01	1.236-01	1.30E-01
19.5	*	7.87E-02	8.33E-02	8.83E-02	9.356-02	9.918-02	1.05E-01	1.11E-01	1.18E-01	1.256-01	1.326-01
20.0	*	7.97E-02	8,44E-02	6.94E-02	9.476-02	1.006-01	1.062-01	1.136-01	1.196-01	1.266-01	1.34E-01
20.5	*	8.06E-02	8.54E-02	9.056-02	9.59E-C2	1.02E-01		·1.14E-01	1.216-01	1.286-01	1.366-01
21.0	*	8.16E-02	8.656-02	9.16E-C2	9.70E-02	1.038-01	1.09E-01	1.15E-01	1.226-01	1.295-01	1.376-01
21.5	*	8.26E-02	8.756-02	9.27E-02	9.826-02	1.04E-01	1.106-01	1.17E-01	1.24E-01	1.316-01	1.396-01
22.0	*	8.35E-02	8.85E-C2	9.37E-02	9.93E-C2	1.C5E-01	1.116-01	1.18E-01	1.256-01	1.336-01	1.40E-01
22.5	*	8.45E-02	8.55E-02	5.48E-02	1.006-01	1.06E-01	1.136-01	1.19E-01	1.265-01	1.34E-01	1.426-01
23.0	*	8.54E-02	9.C5E-C2	9.58E-02	1.02E-01	1.C8E-01	1.146-01	1.21E-01	1,28E-01	1.356-01	1.445-01
23.5	*	8.63E-02	9.15E-02	S.69E-02	1.03E-01	1.09E-01	1.156-01	1.22E-C1	1.29E-01	1.376-01	1.458-01
24.0	*	8.72E-02	9.24E-02	9.79E-02	1.046-01	1.10E-01	1.166-01	1.23E-01	1.316-01	1.386-01	1.47E-01
24.5	*	8.81E-02	9.34E-C2	S.89E-02	1.056-01	1.118-01	1.185-01	1.25E-01	1.32E-01	1.40E-01	1.485-01
25.0	*	8.90E-02	0 435 03	5.998-02	1 0/5 01	1 105 01					
25.5	÷	8.99E-02	9.43E-02 9.53E-02	1.01E-01	1.C6E-01	1.12E-01	1.196-01	1.26E-01	1.33E-01	1.416-01	1.506-01
26.0		9.08E-02			1.C7E-01	1.13E-01	1.208-01	1.276-01	1.35E-01	1-43E-01	1.516-01
26.5	*		9.62E-02	1.02E-01	1.08E-01	1.14E-01	1.21E-01	1.28E-01	1.366-01	1.448-01	1.538-01
27.0	*	9.17E-02 9.25E-02	9.716-02	1.036-01	1.C9E-01	1.15E-01	1.22E-01	1.30E-01	1.376-01	1.456-01	1.54E-01
21.0	•	9.236-02	9.80E-02	1.C4E-01	1.1CE-01	1.17E-01	1.23E-01	1.316-01	1.396-01	1.47E-01	1.556-01
27.5	*	9.34E-02	9.89E-02	1.05E-01	1.116-01	1.18E-01	1.25E-01	1.32E-01	1,406-01	1.48E-01	1.570-01
28.0	*	9.42E-02	9.98E-02	1.C6E-01	1.12E-01	1.196-01	1.26E-01	1.336-01	1.416-01	1.496-01	1.586-01
28.5	*	9.51E-02	1.C1E-01	1.C7E-01	1.13E-C1	1.20E-01	1.27E-01	1.34E-01	1.428-01	1.516-01	1.60E-01
29.0	*	9.59E-02	1.02E-01	1.08E-01	1.14E-01	1.216-01	1.28E-01	1.366-01	1.44E-01	1.52E-01	1.61E-01
29.5	*	9.676-02	1.C2E-01	1.096-01	1.15E-01	1.22E-01	1.296-01	1.37E-01	1.456-01	1.53E-01	1.636-01
								100.0	11172 01	1.550 01	1.001-01
30.0	*	9.75E-02	1.C3E-01	1.09E-01	1.166-01	1.23E-01	1.30E-01	1.386-01	1.46E-01	1.55E-01	1.64E-01
30.5	*	9.83E-02	1.04E-01	1.10E-01	1.17E-01	1.246-01	1.31E-01	1.396-01	1.476-01	1.56E-01	1.65E-01
31.0	*	9.91E-02	1.05E-01	1.11E-01	1.18E-01	1.25E-01	1.32E-01	1.40E-01	1.48E-01	1.57E-01	1.67E-01
31.5	*	9.996-02	1.C6E-01	1.126-01	1.19E-01	1.26E-01	1.336-01	1.41E-C1	1.506-01	1.59E-01	1.686-01
32.0	¥	1.016-01	1.076-01	1.136-01	1.20E-C1	1.27E-01	1.346-01	1.42E-01	1.516-01	1.605-01	1.69E-01
32.5	*	1.02E-01	1.C8E-01	1.146-01	1.21E-01	1.286-01	1.35E-01	1.43E-01	1.52E-01	1.616-01	1.716-01
33.0	*	1.02E-01	1.085-01	1.15E-01	1.226-01	1.296-01	1.36E-01	1.45E-01	1.536-01	1.62E-01	1.72E-01
33.5	*	1.036-01		1.16E-01	1.23E-01	1.306-01	1.376-01	1.466-01	1.548-01	1.63E-01	1.73E-01
34.0	*	1.046-01	1.10E-01	1.17E-01	1.236-01	1.316-01	1.38E-01	1.47E-01	1.55E-01	1.65E-01	1.746-01
34.5	*	1.056-01	1.116-01	1.17E-01	1.246-01	1.326-01	1.40E-01	1.48E-01	1.576-01	1.66E-01	1.76E-01
35.0	*	1.C5E-01	1.12E-01	1.185-01	1.256-01	1 335 41		1 105 01			
35.5	÷	1.066-01	1.126-01	1.186-01		1.338-01	1.41E-01	1.49E-01	1.58E-01	1.67E-01	1.776-01
36.0	*	1.076-01			1.26E-C1	1.346-01	1.426-01	1.506-01	1.59E-01	1.686-01	1.786-01
36.5			1.13E-01	1.20E-01	1.27E-01	1.35E-01	1.43E-01	1.516-01	1.60E-01	1.69E-01	1.79E-01
37.0	*	1.08E-01	1.14E-01	1.216-01	1.28E-01	1.356-01	1.43E-01	1.52E-01	1.616-01	1.716-01	1.81E-01
51.0	*	1.08E-01	1.156-01	1.226-01	1.296-01	1.366-01	1.446-01	1.53E-01	1.62E-01	1.726-01	1.826-01

AL.	рна	VAL	******** .ues from .ross)	1.00E-03	******* D TC 2.82E- 1/ENSION OF	-03 SQUARI	E INCHES PE	ER INCH.		*****	******	, ***********
50	IN	/IN≃	1.00E-03 (DOWN)	1.12E-03	1.268-03	1.41E~03	1.58E-03	1.78E-03	2.00E-03	2.24E-03	2.51E-03	2.82E-03
***	***	**** * * *	********** 8.25E-04 2.28E-02 3.20E-02	9.26E-C4 2.42E-O2 3.40E-O2 4.15E-C2	1.04E-03	1.176-03	1.31E-03 2.88E-02 4.C5E-02 4.54E-02	1.47E-03 3.06E-02	1.65E-03 3.24E-02	1.85E-03 3.44E-02 4.82E-02 5.89E-02	2.07E-03 3.65E-02 5.12E-02	3.87E-02 5.43E-02
	2.5 3.0 3.5 4.0 4.5		5.52E-02 5.96E-02	6.31E-02 6.75E-02	5.66E-02 6.2CE-02 6.69E-02 7.15E-02 7.58E-02	6.COE-02 6.57E-02 7.C9E-02 7.58E-C2 8.03E-C2	6.36±-02 6.96E-02 7.51E-02 8.03E-02 8.51E-02	6.74E-02 7.38E-02 7.96E-02 8.51E-02 9.02E-02	7.15E-02 7.82E-02 8.44E-02 9.02E-02 9.56E-02	8.29E-02 8.94E-02 9.56E-02	8.03E-02 8.79E-02 9.48E-02 1.01E-01 1.07E-01	8.51E-02 9.31E-02 1.00E-01 1.07E-01 1.14E-01
	5.0 5.5 6.5 7.0	* * * *	7.11E-02 7.46E-02 7.79E-02 8.10E-02 8.41E-02	7.90E-02 8.25E-02 8.59E-02	7.99E-02 8.37E-02 8.74E-02 5.10E-02 5.44E-02		8.97E-02 9.40E-02 9.82E-02 1.02E-01 1.06E-01	9.96E-02 1.04E-01	1.01E-01 1.06E-01 1.10E-01 1.15E~01 1.19E-01	1.12E-01 1.17±-01	1.24E-01 1.29E-01	1.20E-01 1.26E-01 1.31E-01 1.37E-01 1.42E-01
1	7.5 3.0 3.5 3.0 3.5	* * * * *		9.52E-02 9.81E-02 1.01E-01	5.77E-02 1.C1E-C1 1.C4E-01 1.C7E-01 1.10E-01	1.04E-01 1.07E-01 1.10E-01 1.13E-01 1.16E-01	1.10E-01 1.13E-01 1.17E-01 1.20E-01 1.23E-01	1.16E-01 1.20E-01 1.24E-01 1.27E-01 1.31E-01	1.23E-01 1.27E-01 1.31E-01 1.35E-01 1.39E-01	1.39E-01 1.43E-01	1.38E-01 1.43E-01 1.47E-01 1.51E-01 1.56E+01	1.47E-01 1.51E-01 1.56E-01 1.60E-01 1.65E-01
10 11 11	0.0 0.5 1.0 1.5 2.0	* * * *	1.00E-01 1.03E-01 1.05E-01 1.08E-01 1.10E-01	1.09E-01 1.12E-01 1.14E-01	1.13E-01 1.15E-01 1.18E-01 1.21E-01 1.23E-01	1.19E-01 1.22E-01 1.25E-01 1.28E-01 1.31E-01	1.27E-01 1.30E-01 1.33E-01 1.36E-01 1.39E-01	1.34E-01 1.37E-01 1.41E-01 1.44E-01 1.44E-01 1.47E-01	1.42E-01 1.46E-01 1.49E-01 1.52E-01 1.56E-01	1.54E-01	1.60E-01 1.63E-01 1.67E-01 1.71E-01 1.75E-01	1.69E-01 1.73E-01 1.77E-01 1.81E-01 1.85E-01
13 11 14	2.5 3.0 3.5 1.0	* * * *	1.12E-01 1.14E-01 1.17E-01 1.19E-01 1.21E-01	1.21E-01 1.24E-01 1.26E-01	1.26E-01 1.28E-01 1.31E-01 1.33E-01 1.36E-01	1.33E-C1 1.36E-01 1.39E-01 1.41E-01 1.44E-01		1.50E-01 1.53E-01 1.56E-01 1.59E-01 1.61E-01	1.59E-01 1.62E-01 1.65E-01 1.68E-01 1.71E-01	1.68E-01 1.72E-01 1.75E-01 1.78E-01 1.81E-01	1.78E-01 1.82E-01 1.85E-01 1.89E-01 1.92E-01	1.89E-01 1.93E-01 1.96E-01 2.00E-01 2.03E-01
19	5.C 5.5 5.0 5.5	* * * *	1.23E-01 1.25E-01 1.27E-01 1.29E-01 1.31E-01	1.326-01	1.38E-01 1.43E-01 1.42E-01 1.45E-01 1.45E-01 1.47E-01	1.46E-C1 1.49E-01 1.51E-01 1.53E-C1 1.56E-C1		1.64E-01 1.67E-01 1.69E-01 1.72E-01 1.75E-01	1.74E-01 1.77E-01 1.79E-01 1.82E-01 1.85E-01	1.87E-01 1.90E-01 1.93E-01	1.95E-01 1.98E-01 2.02E-01 2.05E-01 2.08E-01	2.07E-01 2.10E-01 2.14E-01 2.17E-01 2.20E-01
						C TABLE	NC. 3 CCM	TINUED.				
18 18 19	.5 .0 .5	* * * *	1.33E-01 1.35E-01 1.36E-01 1.38E-01 1.40E-01	1.41E-01 1.43E-01 1.45E-01 1.46E-01 1.48E-01	1.49E-01 1.51E-01 1.53E-01 1.55E-01 1.57E-01	1.6CE-01		1.77E-01 1.80E-01 1.82E-01 1.85E-01 1.87E-01	1.88E-01 1.90E-01 1.93E-01 1.96E-01 1.98E-01	1.99E-01 2.02E-01 2.04E-01 2.07E-01 2.10E-01		
20 21 21	•0 •5 •0 •5	* * * *	1.42E-01 1.44E-01 1.45E-01 1.47E-01 1.49E-01	1.50E-01 1.52E-01 1.54E-01 1.56E-01 1.58F-01	1.59E-01 1.61E-01 1.63E-01 1.65E-01 1.67E-01		1.79E-01 1.81E-01 1.83E-01 1.85E-01 1.85E-01 1.87E-01		2.01E-01 2.03E-01 2.08E-01 2.08E-01 2.10E-01	2.13E-01 2.15E-01 2.19E-01 2.20E-01 2.23E-01	2.25E-01 2.28E-01 2.31E-01 2.33E-01 2.36E-01	2.39E-01 2.42E-01 2.44E-01 2.47E-01 2.50E-01
23 23 24	•5 •0 •5 •0	* * * *	1.50E-01 1.52E-01 1.54E-01 1.55E-01 1.57E-01	1.61t-01 1.63E-01 1.65E-01	1.69E-01 1.71E-01 1.73E-01 1.74E-01 1.76E-01			2.01E-01 2.03E-01 2.05E-01 2.07E-01 2.09E-01	2.13F-01 2.15E-01 2.17E-01 2.20E-01 2.22E-01	2 • 25E-01 2 • 28E-01 2 • 30E-01 2 • 33E-01 2 • 35E-01	2.39E-01 2.41E-01 2.44E-01 2.47E-01 2.49E-01	2.53E-01 2.56E-01 2.59E-01 2.61E-01 2.64E-01
25 26 26	•5 •0 •5	* * * *	1.59E-01 1.60E-01 1.62E-01 1.63E-01 1.65E-01	1.68E-01 1.70E-01 1.71E-01 1.73E-01 1.75E-01	1.78E-01 1.80E-01 1.81E-01 1.83E-01 1.85E-01	1.89E-C1 1.90E-01 1.92E-01 1.94E-01 1.96E-01	2.00E-01 2.02E-01 2.04E-01 2.06E-01 2.08E-01	2.12E-01 2.14E-01 2.16E-01 2.18E-01 2.20E-01		2.38£-01 2.4CE-01 2.42E-01 2.44E-01 2.47E-01	2.52E-01 2.54E-01 2.57E-01 2.59E-01 2.61E-01	2.67E-01 2.69E-01 2.72E-01 2.74E-01 2.77E-01
28 28 29	•0 •5 •C	* * * *	1.66E-01 1.68E-01 1.69E-01 1.71E-01 1.72E-01	1.78E-01 1.79E-01 1.81E-01	1.67E-01 1.88E-01 1.90E-01 1.92E-01 1.93E-01	2.03E-01		2.288-01	2.35E-01 2.37E-01 2.39E-01 2.41E-01 2.43E-01	2.49E-01 2.51E-01 2.54E-01 2.56E-01 2.58E-01	2.66E-01	2.80E-01 2.82E-01 2.85E-01 2.87E-01 2.90E-01
30 31 31	•C •5 •0 •5 •C	* * * * *	1.74E-01 1.75E-01 1.76E-01 1.78E-01 1.79E-01	1.84E-C1 1.85E-01 1.87E-01 1.88E-C1 1.90E-01	1.95E-01 1.96E-01 1.98E-01 2.00E-01 2.01E-01	2.06E-C1 2.08E-01 2.10E-01 2.12E-01 2.13E-01	2.19E-01 2.21E-01 2.22E-01 2.24E-01 2.26E-01	2.32E-01 2.34E-01 2.36E-01 2.37E-01 2.39E-01 2.39E-01	2.45E-C1 2.48E-01 2.5CE-01 2.52E-01 2.54E-C1	2.60E-01 2.62E-01 2.64E-01 2.66E-01 2.66E-01 2.69E-01	2.76E-01 2.78E-01 2.80E-01 2.82E-01 2.85E-01	2.92E-01 2.94E-01 2.97E-01 2.99E-01 3.01E-01
33		* * * *	1.81E-01 1.82E-01 1.83E-01 1.85E-01 1.86E-01	1.91E-01 1.93E-01 1.94E-01 1.96E-01 1.97E-01	2.03E-01 2.04E-01 2.06E-01 2.57E-01 2.59E-01	2.15E-C1 2.16E-C1 2.18E-01 2.20E-C1 2.21E-C1	2.28E-01 2.29E-01 2.31E-01 2.33E-01 2.34E-01	2.41E-01 2.43E-01 2.45E-01 2.47E-01 2.48E-01	2.55E-C1 2.57E-01 2.59E-01 2.61E-01 2.63E-01	2.71E-01 2.73E-01 2.75E-01 2.77E-01 2.79E-01	2.87E-01 2.89E-01 2.91E-01 2.93E-01 2.95E-01	3.04E-01 3.06E-01 3.08E-01 3.11E-01 3.13E-01
35 35 36 36 37	•0 •5	* * * *	1.87E-01 1.89E-01 1.90E-01 1.91E-01 1.93E-01	1.99E-01 2.00E-01 2.01E-01 2.03E-01 2.04E-01	2.10E-01 2.12E-01 2.13E-01 2.15E-01 2.16E-01	2.23E-C1 2.25E-C1 2.26E-C1 2.28E-C1 2.29E-C1 2.29E-C1	2.36E-01 2.38E-01 2.40E-01 2.41E-01 2.43E-01	2.50E-01 2.52E-01 2.54E-01 2.56E-01 2.57E-01	2.65E-C1 2.67E-01 2.69E-01 2.71E-01 2.73E-01	2.81E-01 2.83E-01 2.85E-01 2.87E-01 2.87E-01 2.89E-01	2.98E-01 3.00E-01 3.02E-01 3.04E-01 3.06E-01	3.15F-01 3.17E-01 3.20E-01 3.22E-01 3.22E-01 3.24E-01

****** AI PHA	V & I	**********	********* 3.16E-03	●★★★★★★ D TC 8-91+~	TABLE NC. 03 SQUARE	4 FOR CAR INCHES PE	INET TUNIN R INCH.	IG *******	********	*******	*****
ALPHA SQ IN/	(AC /1N=	ROSS)	C=SIDE DI	MENSION CF	SCUARE FC	RT CRCSS-S	ECTION IN	INCHES. 6.31E-03	7.08E-03	7,94E-03	8.91E-03
		*******						******			
	*							5.20E-03	5.846-03	6.55E-03	
0.5	*	4.11E-02 5.76E-02	4.36E-02 6.10E-02	4.63E-02 6.48E-02	4.91E-C2 6.87E-02	5.22E-02 7.29E-02	5.54E-02 7.73E-02	5.88E-C2 8.21E-02	6.25E-02 8.71E-02	6.64E-02 9.25E-02	7.05E-02 9.81E-02
1.0	¥	7,028-02	7.44E-02	7.89E-02	8.376-02	8.88E-02	9.428-02	9.99E-02		1.126-01	1.196-01
2.0	*	8.08E-02	8.57E-02	9.C9E-02	9.64E-02	1.026-01	1.08E-01	1.156-01	1.228-01	1.29E-01	1.376-01
2.5	*	5.026-02	9.57E-02	1.C1E-01	1.088-01	1.14E-01	1.216-01	1.28E-C1	1.36E-01	1.44E-01	1.536-01
3.0	÷	9.875-02	1.05E-01	1.116-01		1.25E-01	1.32E-01	1.40E-01	1.496-01	1.58E-01	1.67E-01
3.5	*	1.07E-01	1.13E-01	1.20E-01	1.27E-01	1.35E-01	1.436-01	1.51E-C1	1.60E-01	1.70E-01	1.80E-01
4.0	*	1.14E-01	1.218-01	1.28E-01	1.36E-01	1.44E-01	1.52E-01	1.616-01	1.716-01	1.82E-01	1.93E-01
4.5	*	1,216-01	1.28E-01	1.35E-01	1.44E-01	1.526-01	1.616-01	1.71E-01	1.815-01	1.92E-01	2.04E-01
5.0	*	1,278-01	1.35E-01	1.43E~01	1.518-01	1.60E-01	1 704-01	1.806-01	1 015-01	2.036-01	2 165-01
5.5	*	1.336-01	1.416-01	1.50E-01	1.59E-01	1.685-01		1.896-01		2.12E-01	
6.0	*	1.396-01	1.47E-01	1.56E-01	1.66E-C1	1.758-01	1.86E-01	1.97E-01	2.096-01	2.22E-01	2.35E-01
6.5	*	1.45E-01	1.536-01	1.63E-01	1.726-01	1.83E-01	1.946-01	2.05E-01	2.17E-01	2.31E-01	2.44E-01
7.0	*	1,506-01	1.59E-01	1.69E-01	1.79E-C1	1.89E~01	2.01E-01	2.13E-01	2.268-01	2.396-01	2.53E-01
7.5 8.0	*	1.55E-01	1.658-01	1.74E-01 1.80E-01	1.85E-01 1.91E-01	1.96E-01 2.02E-01	2.08E-01 2.14E-01	2.206-01	2.33E-01	2.47E-01	
8.5	÷	1.60E-01 1.65E-01	1.70E-01 1.75E-01	1.86E-01	1.976-01	2.C8F-01	2.216-01	2.27E-01 2.34E-01	2.41E-01 2.48E-01	2.55E-01 2.63E-01	2.71E-01 2.79E-01
9.0	÷	1.706-01	1.80E-C1	1.916-01	2.02E-01	2.146-01	2.27E-01	2.416-01	2.556-01	2.716-01	2.87E-01
9.5	*	1.756-01	1.856-01		2.08E-01			2.47E-01		2.785-01	
10.0	٠		1.90E-01	2.01E-01	2.13E-01	2.268-01	2.39E-01	2.546-01			3.02E-01
10.5	*	1.84E-01	1.94E-01	2.06E-01	2-18E-01	2.316-01	2.45E-01	2.60E-01	2.765-01	2.92E-01	3.10E-01
11.0	*	1,886-01	1.59E-01	2.118-01	2.24E-01 2.28E-01	2.37E~01 2.42E-01	2.516-01	2.66E-01	2.82E-0L	2.99E-01 3.06E-01	3.176-01
11.5	*	1.92E-01 1.96E-01	2.03E-01 2.08E-01	2.16E-01 2.20E-01	2.336-01	2.428-01	2.57E-01 2.62E-01	2.72E-01 2.78E-01	2.88E-01 2.94E-01	3.12E-01	3.24E-01 3.31E-01
12.00	•								2177E VI	STARK OI	- PAL VI
12.5	*	2.00E-01	2.120-01		2.38E-01	2.52E-01	2.67E-01	2.836-01	3.00E-01	3.18E-0L	3.37E-01
13.0	*	2.04E-01	2.16E-01	2.29E-01	2.43E-01	2.57E-01	2.73E-01	2.89E-01	3.06E-01	3.25E-01	3.44E-01
13.5	۴	2.086-01	2.206-01	2.336-01	2.47E-01	2.62E-01	2.78E-01	2.94E-01	3.128-01	3.31E-01	3.51E-01
14.0	*	2.12E-01	2.24E-01	2.38E-01	2.526-01	2.67E-01	2.83E-01	3.00E-01	3.186-01		3.57E-01
14.5	*	2.15E-01	2.286-01	2.426-01	2.56E-C1	2.725-01	2.88E-01	3.05E-C1	3.23E-01	3.43E-01	3.636-01
15.0	*	2.19E-01	2.326-01	2.46E-01	2.61E-01	2.76E-01	2.93E-01	3.10E-01	3 305-01	3.48E-01	3 605-01
15.5	*	2.236-01	2.368-01	2.5CE-01	2.65E-01	2.81E-01	2.98E-01	3.15E-01	3.34E-01	3.546-01	3.756-01
16.0	*	2.266-01	2.401-01	2.54E-01	2.69E-01	2.858-01	3.02E-01	3.206-01	3.39E-01	3.60E-01	3.815-01
16.5	*	2.301-01	2.436-01	2.58E-01	2.73E-01	2.90E-01	3.07E-01	3.25E-01	3.455-01	3.65E-01	3.87E-01
17.0	*	2.33E-01	2.47E-01	2.626-01	2.77E-01	2.94E-01	3.12E-01	3.3CE-01	3.50E-01	3.716-01	3.935-01
					C TABLE	NC. 4 CCM	TINUED.				
17.5	*	2.37E-01	3 616 .03	2	0.015.01						
18.0		2.40E-01	2.51E-01 2.54E-01	2.696-01	2.81E-01 2.85E-01	2.985-01	3,16E-01			3.76E-01	
18.5		2.43E-01	2.58E-01	2.735-01	2.895-01	3.02E-01 3.07E-01	3.20E-01 3.25E-01	3.40E-01	3.60E-01		
19.0		2.46E-01	2.61E-01	2.778-01	2.93E-01	3.116-01	3.296-01	3.44£-C1 3.49E-01	3.65E-01 3.70E-01	3.876-01	4.106-01
19.5	*	2.50E-01	2.64E-01	2.808-01	2.97E-C1	3.156-01	3.33E-01	3.53E-01	3.74E-01	3.92E-01 3.97E-01	4.15E-01 4.21E-01
	۰.										
20.0		2.538-01	2.68E-01		3.016-01	3.19E-01		3.586-01		4.028-01	
20.5 21.0		2.56E-01 2.59E-01	2.71E-01 2.74E-01	2.87E-01	3.04E-01		3.421-01	3.62E-01	3.84E-01		
21.5		2.628-01	2.78E-01	2.91E-01 2.94E-01	3.08E-01 3.12E-01	3.268-01	3.460-01	3.67E-01	3.886-01		4.36E-01
22.0	*	2.656-01	2.818~01	2.94E-01	3.15E-01	3.30E-01 3.34E-01	3.50E-01 3.54E-01	3.718-01	3.93E-01		4.41E-01
					J.170 01	3.54L 01	3.942-01	3.75E-01	3.98E-01	4.216-01	4.46E-01
22.5		2+68E+01	2.84E-01	3.C1E-01	3.19E-C1	3.386-01	3.586-01	3.79E-01	4.02E~01	4.265-01	4.518-01
23.0		2.71E-01	2.878-01	3.04E-01	3.226-01	3.426-01	3.62E-01	3.84E-01	4.06E-01	4.31E-01	
23.5		2.74E-01	2.50E-01	3.08E-01	3.26E-01	3.456-01	3.66E-01	3.08E-C1	4.116-01	4.35E-01	4.61E-01
24.0		2.77E-01	2.938-01	3.116-01		3.498-01	3.70E-01	3.92E~01	4.15E-01	4.40E-01	4.66E-01
24.5	•	2.806-01	2.96E-01	3+14E-01	3.33E-01	3.52E-01	3.73E~01	3.96E-01	4.19E-01	4.44E-01	4.716-01
25.0	*	2.826-01	2.998-01	3.17F-01	3.36E-C1	3.56E-01	3.776-01	4.005-01	4.265-01	4 405 01	6 765 01
25.5		2.85E-01	3.02E-01	3.20E-01	3.39E-01	3.60E-01	3.81E-01	4.046-01	4.24E-01 4.28E-01	4.49E-01 4.53E-01	4.76E-01 4.80E-01
26.0	٠	2.888-01	3.056-01	3.23E-01	3.43E-01	3.63E-01	3.85E-01	4.C8E-C1	4.32E-01	4.58F-01	4.856-01
26.5		2.918-01	3.08E-01	3.26E-01	3.466-01	3.66E-01	3.88E-01	4.116-01	4.368-01	4.62E-01	4.90E-01
27.0	*	2.93E-01	3.116-01	3.29E-01	3.49E-01	3.70E-01	3.92E-01	4.15E-01	4.40E-01	4.66E-01	4.94E-01
27.5	*	2,966-01	3 165 01	3 325 5.	9 695 6-						
28.0	*	2,986-01	3.14E-01 3.17E-01	3.33E-01 3.36E-01	3.52E-C1 3.55E-C1	3,73E-01	3.96E-01	4.19E-01	4.448-01		4.99E-01
28.5	*	3.02E-01	3.196-01	3.38E-01	3.59E-01	3.77E-01 3.80E-01	3.99E-01 4.03E-01	4.238-01	4.486~01	4.75E-01	5.03E-01
29.0	*	3.C4E-01	3.22E-01	3.416-01	3.628-01	3.83F-01	4.03E-01 4.06E-01	4.27E-01 4.30E-01	4.52E-01 4.56E-01	4.79E-01	5.086-01
29.5	*		3.25E-01	3.44E-01	3.65E-01	3.876-01	4.10E-01	4.34E-01	4.50E-01 4.60E-01	4.83E-01 4.87E-01	5.12E-01 5.16F-01
30.0	*	3.09E-01	3.28E-01	3.476-01	3-68E-C1			4.38E-01	4.64E-01	4.918-01	5.216-01
30.5 31.0	*	3.12E-01	3.30E-01	3.505-01	3.71E-C1	3.93E-01	4.16E-01	4.41E-01	4.68E-01	4.95E-01	5.25E-01
31.0	*	3.14E-01 3.17E-01	3.33E-01 3.36E-01	3.53E-01 3.56E-01	3.74E~01 3.77E-01	3.966-01	4.20E-01	4.45E-01	4.718-01	4.99E-01	5.296-01
32.0	*	3.196-01	3.38E-01	3.59E-01	3.80E-C1	3.99E-01 4.03E-01	4.23E-01 4.27E-01	4.48E-01 4.52E-01	4.75E-01 4.79E-01	5.03E-01 5.07E-01	5.348-01
										2:010-01	5.38E-01
32.5	٠	3.22E-01	3.41E-01	3.61E-01	3.83E-C1	4.C6E-01	4.30E-01	4.556-01	4.836-01	5.11E-01	5.426-01
33.0	*	3.24E-01	3.446-01	3.645-31	3.866-01	4.096-01	4.33E-01	4.59E-01	4.86E-01	5.15E-01	5.466-01
33.5	*	3.27E-01	3.46E-C1	3.676-01	3.89E-C1	4.12E~01	4.36E-01	4.62E-01	4.90E-01	5.19E-01	5.50E-01
34.0	*	3.296-01	3.49E-01	3.70E-01	3.926-01	4.15E-01	4.40E-01	4.66E-01	4.94E-01	5.23E~01	5.54E-01
34.5	٠	3.32E-01	3.51E-C1	3.728-01	3.94E-01	4.18E-01	4.43E-01	4.69E-CL	4.976-01	5.27E-01	5.586-01
35.0	*	3.346-01	3.54E-01	3.75E-01	3.97E-C1	4.215-01	4 445-01	4 735 01	6 015 01	6 315 65	5 ()(
	*	3.36E-01	3.56E-C1	3.78E~01	4.000-01	4.21E-01 4.24E-01	4.46E-01 4.49E-01	4.73E-01 4.76E-01	5.01E-01 5.04E-01	5.31E-01 5.34E-01	5.62E-01 5.66E-01
35.5		3.39E-01	3.596-01	3.8CE-01	4.03E-C1	4.27E-01	4.52E-01	4.79E-C1		5.34E-01	
36.0	*										
36.0 36.5		3.41F-01	3.61E-01	3.836-01	4.06E-01	4.30E-01	4.556-01	4.828-01	5.116-01	5.42E-01	5.746-01
36.0					4.06E-01 4.08E-01	4.30E-01 4.33E-01	4.55E-01 4.58E-01		5.11E-01 5.15E-01	5.42E-01 5.45E-01	5.74E-01

ልርዎሐል	(A)	¢******** LLES FROM CROSSJ ∓ 1.00E-02	C≈SIDE D	MENSION OF	F SQUARE P	5 FOR CA E INCHES P ORT CRCSS- 1.58E-02	SECTION IN	INCHES.			************* 2.92E-02
L INCH	łE\$	(DOWN)									
******* 0.0 0.5 1.0 1.5 2.0			9.26E-03 7.97E-02 1.11E-01 1.34E-01		1.17E-02 9.01E-02 1.25E-01	1.31E-02 9.58E-02 1.33E-01 1.61E-01	1.47E-02 1.02E-01 1.41E-01 1.71E-01	1.65E-02 1.08E-01 1.50E-01 1.81E-01	1.85E-02 1.15E-01 1.59E-01 1.93E-01	2.07E-02 1.23E-01 1.69E-01 2.05E-01	1.31E-01 1.80E-01 2.18E-01
2.5 3.0 3.5 4.0 4.5	* * * *	1.62E-01 1.77E-01 1.91E-01 2.04E-01 2.16E-01	1.88E-01 2.03E-01 2.17E-01	1.83E-01 2.00E-01 2.15E-01 2.30E-01 2.43E-01	1.94E-01 2.12E-01 2.28E-01 2.44E-01 2.58E-01	2.25E-01 2.42E-01 2.58E-01	2.18E-01 2.38E-01 2.57E-01 2.74E-01 2.90E-01	2.32E-01 2.53E-01 2.73E-01 2.91E-01 3.08E-01	2.46E-01 2.69E-01 2.89E-01 3.09E-01 3.27E-01	2.85E-01 3.07E-01	3.03E-01 3.26E-01 3.48E-01
5.C 5.5 6.0 6.5 7.C	* * * * *	2.28E-01 2.39E-01 2.49E-01 2.59E-01 2.69E-01	2.53E-01 2.64E-01 2.75E-01	2.56E-01 2.68E-01 2.80E-01 2.51E-01 2.51E-01 3.02E-01	2.72E-C1 2.85E-D1 2.97E-01 3.09E-01 3.20E-01	3.02E-01 3.15E-01 3.28E-01	3.20E-01 3.34E-01	3.24E-01 3.40E-01 3.54E-01 3.68E-01 3.82E-01	3.44E-01 3.60E-01 3.76E-01 3.91E-01 4.05E-01	3.82E-01 3.99E-01 4.15E-01	4.06E-01 4.23E-01 4.40E-01
7.5 8.0 8.5 9.0 9.5	****	2.78E-01 2.87E-01 2.96E-01 3.04E-01 3.12E-01	3.04E-01 3.13E-01 3.22E-01	2.13E-01 3.23E-01 3.32E-01 3.42E-01 3.51E-01	3.31E-C1 3.42E-01 3.52E-C1 3.62E-01 3.72E-C1	3.63E-01 3.74E-01	3.73E-C1 3.85E-01 3.96E-01 4.07E-01 4.18E-01	3.95E-01 4.08E-01 4.2CE-01 4.32E-01 4.44E-C1	4.19E-01 4.33E-01 4.46E-01 4.58E-01 4.70E-01	4.59E-01 4.73E-01 4.86E-01	4.87E-01 5.01E-01 5.15E-01
10.0 10.5 11.0 11.5 12.0	* * * *	3.20E-01 3.28E-01 3.36E-01 3.43E-01 3.51E-01	3.48E~01 3.56E~01 3.64E~01	3.6CE-01 3.69E-01 3.77E-01 3.86E-01 3.94E-01	3.82E-C1 3.91E-01 4.0CE-01 4.09E-01 4.16E-C1		4.40E-01 4.50E-01 4.60E-01	4.55E-01 4.66E-01 4.77E-01 4.87E-01 4.9BE-01	4.82E-01 4.94E-01 5.06E-01 5.17E-01 5.28E-01	5.24E-01 5.36E-01 5.48E-01	5.56E-01 5.69E-01 5.81E-01
12.5 13.0 13.5 14.0 14.5	****	3.58E-01 3.65E-01 3.72E-01 3.78E-01 3.85E-01	3.87E-01 3.94E-01 4.01E-01 4.08E-01	4.02E-01 4.10E-01 4.17E-01 4.25E-01 4.32E-01	4.26E-C1 4.34E-C1 4.43E-01 4.51E-01 4.58E-01	4.52E-01 4.60E-01 4.69E-01 4.78E-01 4.86E-01	4.79E-01 4.88E-01 4.97E-01 5.06E-01 5.15E-01	5.08E-01 5.18E-01 5.27F-01 5.37E-01 5.46E-01	5.38E-01 5.49E-01 5.59E-01 5.69E-01 5.79E-01	5.71E-01 5.82E-01 5.93E-01 6.03E-01 6.14E-01	6.05E-01 6.17E-01 6.29E-01 6.40E-01 6.51E-01
15.0 15.5 16.0 16.5 17.0	****	3.91E-01 3.98E-01 4.04E-01 4.10E-01 4.16E-01	4.22E-01 4.28E-01	4.40E-01 4.47E-01 4.54E-01 4.6LE-01 4.6BE+01	4.66E-01 4.74E-01 4.81E-01 4.89E-01 4.96E-01	5.028-01	5.24E-01 5.32E-01 5.41E-01 5.49E-01 5.57E-01	5.55E-01 5.64E-01 5.73E-01 5.82E-01 5.91E-01	5.89E-01 5.98E-01 6.08E-01 6.17E-01 6.26E-01	6.24E-01 6.34E-01 6.44E-01 6.54E-01 6.64E-01	6.73E-01 6.83E-01
					C TABLE	NC. 5 CC	NTINUED.				
17.5 18.0 18.5 19.0 19.5	* * * *	4.22E-01 4.28E-01 4.34E-01 4.40E-01 4.46E-01	4.54E-01 4.60E-01 4.66E-01	4.75E-01 4.81E+01 4.88E-01 4.94E-01 5.C1E-01	5.03E-C1 5.10E-01 5.17E-C1 5.24E-01 5.31E-C1	5.41E-01 5.48E-01 5.55E-01	5.73E-01 5.81E-01 5.89E-01	5.99E-01 6.08E-01 6.16E-01 6.24E-01 6.32E-01	6.35E-01 6.44E-01 6.53E-01 6.61E-01 6.70E-01	6.73E-01 6.83E-01 6.92E-01 7.01E-01 7.10E-01	7.14E-01 7.24E-01 7.34E-01 7.43E-01 7.53E-01
20.0 20.5 21.0 21.5 22.0	* * * *	4.51E-01 4.57E-01 4.62E-01 4.68E-01 4.73E-01	4.84E-01 4.90E-01	5.07E-01 5.13E-01 5.19E-01 5.25E-01 5.31E-01	5.37E-C1 5.44E-01 5.50E-01 5.57E-01 5.63E-01	5.70E-01 5.77E-01 5.83E-01 5.90E-01 5.97E-01	6.04E-01 6.11E-01 6.18E-01 6.26E-01 6.33E-01	6.40E-01 6.48E-01 6.56E-01 6.63E-01 6.71E-01	6.78E-01 6.87E-01 6.95E-01 7.03E-01 7.11E-01	7.19E-01 7.28E-01 7.37E-01 7.45E-01 7.54E-01	7.62E-01 7.72E-01 7.81E-01 7.90E-01 7.99E-01
22.5 23.0 23.5 24.0 24.5	* * * * *	4.78E-01 4.84E-01 4.89E-01 4.94E-01 4.99E-01	5.185-01	5.37E-01 5.43E-01 5.49E-01 5.55E-01 5.61E-01	5.70E-C1 5.76E-01 5.82E-C1 5.88E-01 5.94E-CL	6.04E-01 6.10E-01 6.17E-01 6.23E-01 6.30E-01	6.47E-01 6.54E-01	6.78E-01 6.86E-01 6.93E-01 7.00E-01 7.C7E-01	7.19E-01 7.27E-01 7.35E-01 7.42E-01 7.50E-01	7.62E-01 7.71E-01 7.79E-01 7.87E-01 7.95E-01	8.08E-01 8.17E-01 8.26E-01 8.34E-01 8.43E-01
25.0 25.5 26.0 26.5 27.0	****	5.04E-01 5.09E-01 5.14E-01 5.19E-01 5.24E-01	5.34E-01 5.40E-01 5.45E-01 5.50E-01 5.55E-01 5.55E-01	5.66E-01 5.72E-01 5.77E-01 5.83E-01 5.88E-01	6.00E-C1 6.06E-01 6.12E-C1 6.18E-01 6.23E-C1	6.36E-01 6.42E-01 6.48E-01 6.55E-01 6.61E-01	6.74E-01 6.81E-01 6.87E-01 6.94E-01 7.00E-01	7.15E-01 7.22E-01 7.29E-C1 7.35E-01 7.42E-01	7.57E-01 7.65E-01 7.72E-01 7.80E-01 7.87E-01	8.03E-01 8.11E-01 8.19E-01 8.26E-01 8.34E-01	8.51E-01 8.59E-01 8.68E-01 8.76E-01 8.84E-01
	****	5.29E-01 5.33E-01 5.38E-01 5.43E-01 5.47E-01	5.60E+01 5.65E+01 5.70E+01 5.75E+01 5.80E+01	5.54E-01 5.99E-01 6.04E-01 6.09E-01 6.15E-01	6.29E-01 6.35E-01 6.40E-01 6.46E-01 6.51E-01	6.67E-01 6.73E-01 6.79E-01 6.85E-01 6.90E-01	7.07E-01 7.13E-01 7.19E-01 7.25E-01 7.32E-01	7.49E-01 7.56E-01 7.62E-01 7.69E-01 7.75E-01	7.94E-01 8.01E-01 8.08E-01 8.15E-01 8.22E-01	8.42E-01 8.49E-01 8.57E-01 8.64E-01 8.71E-01	8.92E-01 9.00E-01 9.08E-01 9.16E-01 9.24E-01
30.5 31.0 31.5 32.0	* * * *	5.52E-01 5.56E-01 5.61E-01 5.65E-01 5.65E-01 5.70E-01	5.85E-01 5.90E-01 5.94E-01 5.99E-01 6.04E-01	6.20E-01 6.25E-01 6.30E-01 6.35E-01 6.40E-01	6.57E-01 6.62E-01 6.68E-01 6.73E-01 6.78E-01	6.96E-01 7.02E-01 7.08E-01 7.13E-01 7.19E-01	7.38E-01 7.44E-01 7.50E-01 7.56E-01 7.62E-01	7.82E-01 7.88E-01 7.95E-01 8.01E-01 8.C7E-01	8.29E-01 8.36E-01 8.42E-01 8.49E-01 8.56E-01	8.79E-01 8.86E-01 8.93E-01 9.00E-01 9.07E-01	9.31E-01 9.39E-01 9.46E-01 9.54E-01 9.61E-01
32.5 33.0 33.5 34.0 34.5	* * * *	5.74E-01 5.79E-01 5.83E-01 5.87E-01 5.92E-01		6.45E-01 6.50E-01 6.55E-01 6.59E-01 6.64E-01	6.83E-C1 6.89E-01 6.94E-01 6.99E-01 7.04E-01	7.24E-01 7.30E-01 7.35E-01 7.41E-01 7.46E-01	7.68E-01 7.73E-01 7.79E-01 7.85E-01 7.91E-01	8.14E-C1 8.20E-01 8.26E-01 8.32E-01 8.38E-01	8.62E-01 8.69E-01 8.75E-01 8.82E-01 8.88E-01	9.14E-01 9.21E-01 9.28E-01 9.35E-01 9.41E-01	9.69E-01 9.76E-01 9.83E-01 9.91E-01 9.98E-01
36.0	* * * *	5.96E-01 6.00E-01 6.04E-01 6.08E-01 6.12E-01	6.45E-C1	6.83E-01	7.09E-01 7.14E-01 7.19E-01 7.24E-01 7.29E-01		7.96E-01 8.02E-01 8.07E-01 8.13E-01 8.19E-01	8.44E-01 8.50E-01 8.56E-01 8.62E-01 8.67E-01	8.94E-01 9.01E-01 9.07E-01 9.13E-01 9.19E-01	9.48E-01 9.55E-01 9.61E-01 9.68E-01 9.74E-01	1.03E 00

******** • ALPHA V	***	******** IES FROM	********** 3.16E-02	****** D 10 6.91E-1	TABLE NC. D2 SQUARE	6 FOR CAE Inches Per	INET TUNIN R INCH.	G *******	****	** ** **	*****
SQ IN/I	ACF N≈	055) 3.16E-02 00WN1	C≃SICE CI 3.55E-02	3.98E-02	4.47E-02	5.01E-02	5.62E-02	6.31E-02	7.08E-02	7.94E-02	8.916-02
*******	* * *	*****	********** 2.93E-02	**********	**************************************	**************************************	*********** 4-64F-02	*********** 5.20F-02	********** 5.84F-02	********** 6.55E-02	********** 7.35E-02
0.0	*	1.39E-01	1.49E-01	1,585-01	1.696-01	1.805-01	1.926-01	2.005-01	2.205-01	2.396-01	2.516-01
	*	1.91E-01 2.31E-01	2.04E-01 2.46E-01	2.1/E-01 2.61E-01	2.316-01 2.786-01	2.45E-01 2.96E-01	2.61E-01 3.15E-01	2.79E-01 3.35E-01	2.97E-01 3.56E-01	3.16E-01 3.79E-01	3.38E-01 4.04E-01
	*	2.65E-01	2.818-01	2.99E-01	3.18E-01	3.38E-01	3.59E-01	3.82E-01	4.07E-01	4.33E-01	4.61E-01
	*		3.136-01	3.32E-01	3.538-01	3.756-01	3.99E-01	4.24E-01	4.51E-01	4.80E-01	5.10F-01
	*	2.95E-01 3.21E-01	3.416-01	3.62E-01	3.856-01	4.C9E-01	4.35E-01	4.626-01	4.91E-01	5.22E-01	5.55E-01
	*	3.46E-01	3.67E-01	3.9CE-01 4.16E-01	4.14E-01 4.42E-01	4.40E-01 4.69E-01	4.67E-01 4.98E-01	4.97E-01 5.29E-01	5.28E-01 5.62E-01	5.61E-01	5.96E-01 6.35E-01
	*	3.69E-01 3.90E-01	3.92E-01 4.14E-01	4.408-01		4.96E-01	5.27E-01	5.596-01	5.94E-01		6.71E-01
	*	4.116-01	4.36E-01	4.63E-01	4,91E-C1	5.228-01	5.542-01	5.88E-01	6.25E-01	6.648-01	7.05E-01
	*	4.30E-01	4.57E-01	4.856-01	5.146-01	5.46E-01	5.806-01	6.16E-01	6.54E-01	6.95E-01	7.38E-01
	*	4.49E-01 4.67E-01	4.76E-01 4.95E-01	5.05E-01 5.25E-01	5.36E-C1 5.58E-01	5.69E-01 5.92E-01	6.04E-01 6.28E-01	6.42E-01 6.67E-01	6.82E-01 7.08E-01	7.24E-01 7.52E-01	7.69E-01 7.99E-01
	*	4.84E-01	5.13E-01	5.45E-01	5.78E-01	6.136-01	6.51E-01	6.91E-01	7.34E-01	7.79E-C1	8.27E-01
7.5	*	5.00E-01	5.31E-01	5.63E-01	5.97E-C1	6.346-01	6.73E-01	7.14E-01	7.58E-01	8.056-01	8.55E-01
8.6	ŧ	5.16E-01	5.48E-01	5.81E-01	6.16E-01	6.54E-01	6.948-01	7.37E-01	7.82E-01 8.05E-01	8.31E-01 8.55E-01	8.82E-01 9.08E-01
	*	5.32E-01 5.47E-01	5.64E-01 5.80E-01	5.586-01 6.15E-01	6.35E-C1 6.53E-01	6.74E-01 6.93E-01	7.15E-01 7.35E-01	7.59E-C1 7.80E-01	8.28E-01	8.79E-01	9.33E-01
	*	5.61E-01	5.958-01	6.32E-01	6.7CE-C1	7.118-01	7.54E-01	8.01E-01	8.50E-01	9.02E-01	9.58E-01
10.0	*	5.76E-01	6.10E-01	6.48E-01	6.87E-01	7.298-01	7.730-01	8.21E-01	8.71E-01	9.256-01	9.816-01
10.5	*	5.89E-01	6.258-01	6.63E-01 6.78E-01	7.03E-01 7.20E-01	7.46E-01 7.63E-01	7.92E-01 8.10E-01	8.40E-01 8.59E-01	8.92E-01 9.12E-01	9.47E-01 9.68E-01	1.00E 00 1.03F 00
	*	6.03E-01 6.16E-01	6.408-01 6.548-01	6.938-01	7.35E-01	7.806-01	8.28E-01	8.785-01	9.32E-01	9.895-01	1.05E 00
	*	6.29E-01	6.67E-01	7.085-01	7.51E-C1	7.962-01	8.456-01	8.97E-01	9.51E-01	1.01E ^0	1.078 00
	*	6.42E-01	6.81E-01	7.226-01	7.66E-01	8.126-01	8.62E-01	9.14E-C1	9.70E-01	1.03E 00	1.09E 00 1.11E 00
	* *	6.54E-01 6.67E-01	6.94E-01 7.07E-01	7.36E-01 7.50E-01	7.81E-C1 7.95E-01	8.28E-01 8.43E-01	8.78E~01 8.95E-01	9.32E-01 9.49E-01	9.89E-01 1.01E 00	1.05E 00 1.07E 00	1.13E 00
14.0	٠	6.79E-01	7.20E-01	7.63E-01	8.096-01	8.59E-01	9.116-01	9.66E-01	1.03E 00 1.04E 00	1.09E 00	1.15E 0C 1.17E 00
14.5	*	6.90E-01	7.32E-01	7.765-01	8.23E-01	8.73E-01	9.265-01	9.83E-01	1.046 00	1.11E 00	
	*	7.028-01	7.44E-01	7.89E-01	8.37E-01	8.88E-01 5.02E-01	9.42E-01 9.57E-01	9.99E-01 1.02E 00	1.06E 00 1.08E 00	1.12E 00 1.14E 00	1.19E 00 1.21E 00
	*	7.13E-01 7.24E-01	7.56E-01 7.68E-01	8.02E-01 8.15E-01	8.51E-01 8.64E-01	5.16E-01	9.72E-01	1.03E CO	1.09E 00	1.16F 00	1.23E 00
	*	7.35E-01	7.80E-01	ε.27E-01 ε.39E-01	8.77E-01 8.90E-01	9.30E-01 9.44E-01	9.87E~01 1.00E 00	1.05E 00 1.06E 00	1.11E 00 1.13E 00	1.18E 00 1.20E 00	1.25E 00 1.27E 00
17.0	•	7.46E-01	7.91E-01	C.J.J.COI	0.702.01	JEARL OI	11000 00				
					C TABLE	NC. 6 CCN	TINUEC.				
17.5		7.57E-01	8.03E-01	8.518-01	9.C3E-01	\$.57E-01		1.08E 30	1.14E 00	1.21E 00	1.29E 00
	*	7.68E-01 7.78E-01	8.14E-01 8.25E-01	8.63E-01 E.75E-01	9.15E-01 9.28E-01	9.71E-01 9.84E-01	1.03E 00	1.09E 00 1.11E 00	1.16E 00 1.17E 00	1.23E 00 1.25E 00	1.30E 00 1.32E 00
19.0	*	7.88E-01	8.36E-01	8.865-01	9.406-01	5.97E-01	1.06E 00	1.12E 00	1.19E 00	1.26E 00	1.34E 00
19.5	*	7.98E-01	8.47E-01	8.986-01	9.526-01	1.018 00	1.07F 00	1.14E 00	1.20E 00	1.28E 00	1.36E 00
	*	8.08E-01 8.18E-01	8.57E-01 8.68E-01	\$.C9E-01 9.20E-01	9.64E-01 9.75E-01	1.02E 00 1.03E 00	1.08E 00 1.10E 00	1.15E 00 1.16E 00	1.22E 00 1.23E 00	1.29E 00 1.31E 00	1.37E 00 1.39E 00
	*	8.28E-01	8.78E-01	5.31E-01	9.87E-01	1.C5E 00	1.11E 00	1.18E 00	1.25E 00	1.32E 00	1.41E 00
21.5 22.0	*	8.38E-01 8.47E-01	8.88E-01 6.98E-01	5.42E-01 5.52E-01	9.99E-01 1.01E 00	1.C6E 00 1.C7E 00	1.12E 00 1.14E 00	1.19E 00 1.20E CO	1.26E 00 1.28E 00	1.34E 00 1.36E 00	1.42E 00 1.44E 00
				1							
22.5 23.0	*	8.57E-01 8.66E-01	9.08E-01 9.18E-01	S.63E-01 S.73E-01	1.02E CC 1.C3E CC	1.08E 00 1.09E 00	1.15E 00 1.16E 00	1.22E 00 1.23E 00	1.29E 00 1.31E 00	1.37E 00 1.38E 00	1.45E OC 1.47E OO
23.5	*	8.75E-01	9.28E-01	9.84E-01	1.04E 00	1.11E 00	1.17E 00	1.24E 00	1.32E 00	1.40E 00	1.48E 00
24.0 24.5	*	8.84E-01 8.93E-01	9.38E-01 9.47E-01	5.54E-01 1.0CE 00	1.05E 0C 1.06E 0C	1.12E 00 1.13E 00	1.19E 00 1.20E 00	1.26E 00 1.27E 00	1.33E 00 1.35E 00	1.41E 00 1.43E 00	1.50E 00 1.51E 00
	*	9.02E-01	9.576-01	1.01E 00	1.CBE 00	1.14E 00	1.21E 00	1.28E 00	1.36E 00	1.44F 00	1.536 00
25.5	*	9.11E-01	9.666-01	1.02E OC	1.09E OC	1.15E 00	1.22E 00	1.29E 00	1.17E 00	1.46E 00	1.54E 00
26.0	*	9.20E-01 9.29E-01	9.75E-01 9.84E-01	1.03E 00 1.04E 00	1.10E 00 1.11E 00	1.16E 00 1.17E 00	1.23E 00 1.24E 00	1.31E 00 1.32E 00	1.39E 00 1.40E 00	1.47E 00 1.48E 00	1.56E 00 1.57E 00
26.5 27.0	*	9.37E-01	9.93E-01	1.05E 00	1.12E OC	1.18E 00	1.26E 00	1.33E 00	1.41E 00	1.50E 00	1.59E 00
27.5	*	9.46E-01	1.00E 00	1.C6E 00	1.13E OC	1.196 00	1.276 00	1.34E 00	1.42E 00	1.51E 00	1.60E 00
28.0	*	9,54E-01	1.01E 00	1.C7E 00	1.14E 00	1.21E 00	1.28E 00	1.36E 00	1.44E 00	1.52E 00	1.62E 00
	*		1.02E 00 1.C3E 00	1.08E 00	1.15E OC 1.16E OO	1.22E 00 1.23E 00	1.29E 00 1.30E 00	1.37E 00 1.38E 00	1.45E 00 1.46E 00	1.54E 00 1.55E 00	1.63E 00 1.64E 00
	*		1.04E 00	1.10E 00	1.17E OC	1.24E 00	1.31E 00	1.39E 00	1.47E 00	1.56E 00	1.66E 00
30.0	*	9.87E-01	1.C5E 00	1.11E 00	1.18E CC	1.25E 00	1.32E 00	1.40E 00	1.49E 00	1.58E 00	1.67E 00
30.5 31.0	*	9.95E-01 1.00E 00	1.05E 00 1.06E 00	1.12E 00 1.13E 0C	1.19E 00 1.20E 00	1.26E 00 1.27E 00	1.33E 00 1.34E 00	1.41E 00 1.42E 00	1.50E 00 1.51E 00	1.59E 00 1.60E 00	1.69E 00 1.70E 00
31.5	*	1.01E 00	1.C7E 00	1.14E OC	1.20E CC	1.28E 00	1.35E 00	1.44E 00	1.52E 00	1.61E 00	1.71E 00
32.0	*	1.02E 00	1.C8E 00	1.15E OC	1.21E OC	1.29E 00	1.36E 00	1.45E 00	1.53E 00	1.63E 00	1.73E 00
32.5	*	1.03E 00	1.09E 00	1.15E 0C	1.22E CC	1.30E 00	1.38E 00	1.46E 00	1.55E 00	1.64E 00	1.74E 00
33.0 33.5	*	1.03E 00 1.04E 00	1.10E 00 1.10E 00	1.16E 00 1.17E 00	1.23E 00 1.24E 00	1.31E 00 1.32E 00	1.39E 00 1.40E 00	1.47E 00 1.48E 00	1.56E 00 1.57E 00	1.65E 00 1.66E 00	1.75E 00 1.76E 00
34.0	*	1.05E 00	1.11E 00 ·	1.18E 00	1.25E OC	1.33E 00	1.41E 00	1.49E 00	L.58E 00	1.68E 00	1.78E 00
34.5	*	1.06E 00	1.12E 00	1.19E 00	1.26E OC	1.34E CO	1.42E 00	1.50E 00	1.59E 00	1.69E 00	1.79E 00
35.0	*	1.07E 00	1.13E 00 1.14E 00	1.2CE OC 1.21E OO	1.27E CC 1.28E 00	1.35E 00 1.35E 00	1.43E 00 1.44E 00	1.51E 00 1.52E 00	1.6CE 00 1.61E 00	1.70E 00 1.71E 00	1.80E 00 1.82E 00
35.5 36.0	*	1.07E 00 1.08E 00	1.14E 00 1.14E 00	1.21E 00	1.29E CC	1.36E 00	1.45E 00	1.538 00	1.63E 00	1.72E 00	1.83E 00
36.5 37.0	*	1.09E 00 1.09E 00	1.15E 00 1.16E 00	1.22E 00 1.23E 00	1.30E 00 1.30E 00	1.37E 00 1.38E 00	1.46E 00 1.47E 00	1.54E 00 1.55E 00	1.64E 00 1.65E 00	1.74E 00 1.75E 00	1.84E 00 1.85E 00
21.0	-	1007E UU	**TOE 00						1.000 00	10120 00	1.000 00

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********** 11 PHA VAI	********* UES EROM	********** 1.00E-01	******* 0 TO 2.825-	TABLE NC. 01 SQUARE	7 FOR CAE INCHES PE	INET TUNIN R INCH.	G *******	* * * * * * * * * * *	*****	****
ALPFA (AC S€ IN/IN=	RCSS) 1.006-01	C=SIDE DI 1.12E-01	1.26E-01	SQUARE FC 1.41E-01	RT CRCSS-5 1.58E-01	ECTION IN 1.78E-01	INCHES. 2.00E-01	2.24E-01	2.51E-01	2.82E-01
1. INCHES	*****	*****	*******	*********	*********	********	**********	*******	*********	*********
0.5 *	2.696-01	2.886-01	3.086-01	3.30E-C1 4.39E-C1	3.54E-01 4.69E-01	3.80E-01	1.65E-01 4.09E-01	4.39E-01 5.74E-01	4.73E-01 6.15E-01	5.09E-01 6.60E-01
1.0 * 1.5 *	3.60E-01 4.31E-01	3.84E-01 4.59E-01	4.11E-01 4.9CE-01	5.228-01	5.576-01	5.95E-01	5.37E-01 6.36E-01	6.79E-01	7.26E-01	7.77E-01
2.0 *	4.90E-01	5.22E-01	5,56E-01	5.938-01	6.328-01	6.74E-01	7.19E-01	7.68E-01	8.206-01	8.762-01
2.5 * 3.0 *	5.43E-01 5.91E-01	5.78E-01 6.28E-01	€.15E~01 €.69E~01	6.55E-01 7.12E-01	6.98E-01 7.58E-01	7.44E-01 8.07E-01	7.93E~C1 8.60E-01	8.46E-01 9.17E-01	9.03E-01 9.78E-01	9.64E-01 1.04E 00
3.5 × 4.0 ×	6.34E-01 6.75E-01	6.75E-C1 7.18E-01	7.18E-01 7.63E-01	7.64E-01 8.12E-01	8.136-01 8.64E-01	8.66E~01 9.20E~01	9.22E-01 9.79E-01	9.82E-01 1.04E 00	1.05C 00 1.11E 00	1.12E 00 1.18F 00
4.5 *	7.136-01	7.58E-C1	8.C6E-01	8.586-01	S.12E-01	9.71E-01	1.03F 00	1.1CE 00	1.17E 00	1.25E 00
5.0 ×	7.508-01	7.97E-01	8.47E-01	9.C1E-C1	9.58E-01	1.02E 00	1.08E CO	1.15E 00	1.23E 00	1.31E 00
5.5 ¥ 6.0 ¥	7.84E-01 8.17E-01	8.33E-01 8.68E-01	8.86E-01 9.23E-01	9.42E-01 9.81E-01	1.00E 00 1.04E 00	1.07E 00 1.11E 00	1.13E 00 1.18E 00	1.21E 00 1.25E 00	1.28E 00 1.34E 00	1.37E 00 1.42E 00
6.5 * 7.0 *	8.49E-01 8.79E-01	9.02E-01 9.34E-01	\$.58E-01 5.92E-01	1.02E CC 1.05E CC	1.C8E 00 1.12E 00	1.15E 00 1.19E 00	1.22E 00 1.27E 00	1.30E 00 1.35E 00	1.39E 00 1.43E 00	1.47E 00 1.53E 00
7.5 *	9.085~01	9.65F-01	1.03E 00	1.C9E 00	1.16F 00	1.23E 00	1.31E 00	1.398 00	1.48E 00	1.576 00
8.0 * 8.5 *	9.37E-01 9.64E-01	9.95F-01 1.02E 00	1.06E 00 1.09E 00	1.12E CC 1.16E CC	1.19E 00 1.23E 00	1.27E 00 1.30E 00	1.35E 00 1.39E 00	1.43E 00 1.47E 00	1.52E 00 1.57E 00	1.62E 00 1.67E 00
9.0 *	9.918-01	1.05E 00	1.12E 00	1.19E CC 1.22E CC	1.26E CO 1.29E CO	1.34E 00 1.38E 00	1.42E CO 1.46E OO	1.51E 00 1.55E 00	1.61E 00 1.65E 00	1.71E 00 1.76E 00
9.5 *	1.02E 00	1.08E 00	1.15E OC		1.33E 00	1.41E 00	1.5CE 00	1.598 00	1.69E 00	1.80E 00
10.0 * 10.5 *	1.04E 00 1.07E 00	1.11E 00 1.13E 00	1.18E 00 1.20E 00	1.25E CC 1.28E OC	1.36E 00	1.44E 00	1.53F 00	1.63E 00	1.73E 00	1.84E 00
11.0 * 11.5 *	1.09E 00 1.11E 00	1.16E 00 1.18E 00	1.23E OC 1.26E DO	1,31E OC 1,33E OC	1.39E 00 1.42E 00	1.47E 00 1.51E 00	1.57E 00 1.60E 00	1.66E 00 1.70E 00	1.77E 00 1.81E 00	1.88E 90 1.92E 00
12.0 *	1.14E CO	1.21E 00	1.28E 00	1.36E OC	1.45E 00	1.54E 00	1.63E 00	1.73E 00	1.84E 00	1.96E 00
12.5 * 13.0 *	1.16E 00 1.18E 00	1.23F 00 1.25E 00	1.31E OC 1.33E OC	1.39E CC 1.41E OC	1.47E 00 1.50E 00	1.57E GO 1.60E OO	1.66E 00 1.69E 00	1.77E 00 1.80E 00	1.88E 00 1.91E 00	2.00E 00 2.03E 00
13.5 * 14.0 *	1.20E 00 1.23E 00	1.28E 00 1.30E 00	1.36E 00 1.38E 00	1.44E CC 1.47E OC	1.53F 00 1.56E 00	1.62E 00 1.65E 00	1.73E 00 1.76E 00	1.83E 00 1.87E 00	1.95£ 00 1.98E 00	2.07E 00 2.11E 00
14.5 *	1.25E 00	1.32E 00	1.40E 00	1.49E CC	1.58E 00	1.68E 00	1.79E 00	1.90E 00	2.01E 00	2.14E 00
15.0 *	1.27E 00	1.348 00	1.43E 00 1.45E 00	1.52E 00 1.54E CO	1.61E 00 1.63E 00	1.71E 00 1.74E 00	1.81F 00 1.84E CO	1.93E 00 1.96E 00	2.05E 00 2.08E 00	2.18E 00 2.21E 00
16.0 *	1.29E 00 1.31E 00	1.37E OC 1.39E CO	1.47E 00	1.56E CC	1.66E 00	1.76E 00	1.87E 00	1.998 00	2.11F 00	2.24E 00
16.5 * 17.0 *	1.33E 00 1.35E 00	1.41E 00 1.43E 00	1.49E 00 1.52E 00	1.59E CC 1.61E CC	1.68E 00 1.71E 00	1.79E 00 1.81E 00	1.90E 00 1.93E 00	2.02E 00 2.05E 00	2.14E 00 2.17E 00	2.28E 00 2.31E 00
				C TABLE	NO. 7 CCM	TINUED.				
17.5 *	1.36E 00	1.45E 00	1.54E 00	1.63E OC		1.84E 00	1.95E 00 1.98E 00	2.07E 00 2.10E 00	2.20E 00 2.23E 00	2.34E 00 2.37E 00
18.0 * 18.5 *	1.38E 00 1.40E 00	1.47E 00 1.49E 00	1.58E OC	1.65E OC 1.68E OC	1.76E 00 1.78E 0C	1.86E 00 1.89E 00	2.01E 00	2.13E 00	2.26E 00	2.40E 00 2.43E 00
19.0 * 19.5 *	1.42E 00 1.44E 00	1.51E 00 1.53E 00	1.6CE 00 1.62E 00	1.70E CC 1.72E CC	1.80E 00 1.82E 00	1.91E 00 1.94E 00	2.03E 00 2.06E 00	2.16E 00 2.18E 00	2.29E 00 2.32E 00	2.46F 00
20.0 *	1.46E 00	1.55E 00	1.64E 00	1.74E CC	1.85E CO	1.96E 00	2.08E 00	2.21E 00	2.35E 00	2.49E 00
20.5 * 21.0 *	1.47E 00 1.49E 00	1.56E 00 1.58E 00	1.66E 00 1.68E 0C	1.76E CC 1.78E CC	1.87E 00 1.89E 00	1.98E 00 2.01E 00	2.11E 00 2.13E 00	2.24E 00 2.26E 00	2.38E 00 2.40E 00	2.52E 00 2.55E 00
21.5 *	1.51E 00 1.53E 00	1.60E 00 1.62E 00	1.7CE 00 1.72E 00	1.80E OC 1.82E OC	1.91E 00 1.93E 00	2.03E 00 2.05E 00	2.16E 00 2.18E 00	2.29E 00 2.31E 00	2.43E 00 2.46E 00	2.58E 00 2.61F 00
				1.84E CC	1.95E 0C	2.07E 00	2.20E 00	2.34E 00	2.48E 00	2.64E 00
22.5 ¥ 23.0 ¥	1.54E 00 1.56E 00	1.64E 00 1.65E 00	1.74E 00 1.75E 00	1.868 CO	1.98E 00 2.0CE 00	2.10E 00 2.12E 00	2.23E 00 2.25E 00	2.36E 00 2.39E 00	2.51E 00 2.54E 00	2.66E 00 2.69E 00
23.5 * 24.0 *	1.57E 00 1.59E 00	1.67E 00 1.69E 00	1.77E 00 1.79E 00	1.68E CC 1.90E CC	2.02E 00	2.14E 00	2.27E 00 2.29E 00	2.41E 00 2.44E 00	2.56E 00 2.59E 00	2.72E 00 2.75E 00
24.5 *	1.61E 00	1.70E 00	1.818 00	1.92E OC	2.04E 00	2.16± 00				2.77E 00
25.0 * 25.5 *	1.62E 00 1.64E 00	1.72E 00 1.74E 00	1.83E 00 1.84E 00	1.94E OC 1.96E CO	2.06E 00 2.08E 00	2.18E 00 2.20E 00	2.32E 00 2.34E 00	2.46E 00 2.48E 00	2.61E 00 2.64E 00	2.80E 00 2.83E 00
20.0 * 26.5 *	1.65E 00 1.67E 00	1.75F 00 1.77E CO	1.86E 00 1.88E 00	1.98E 00 1.95E 00	2.10E 00 2.12E 00	2.22E 00 2.25E 00	2.36E 00 2.38E CO	2.51E 00 2.53E 00	2.66E 00 2.69E 00	2.85E 00
27.0 *	1.68E 00	1.79E 00	1.90E 00	2.01E CC	2.14E 00	2.27E 00	2.40E 00	2.55E 00	2.71E 00	2.88E 00
27.5 \$ 28.0 *	1.70E 00 1.72E 00	1.80E 00 1.82E 00	1.91E 00 1.93E 00	2.03E CC 2.05E OC	2.15E CC 2.17E 00	2.29E 00 2.31E 00	2.43E 00 2.45E 00	2,58F 00 2.60E 00	2.73E 00 2.76E 00	2.9CE 00 2.93E 00
28.5 *	1.73E 00	1.84E 00	1.95E 00	2.08E 00	2.19E 00 2.21E 00	2.33E 00 2.35E 00	2.47E 00 2.49E 00	2.62E 00 2.64E 00	2.78F 00 2.80E 00	2.95E 00 2.98E 00
29.C * 29.5 *	1.74E 00 1.76E 00	1.85E 00 1.87E 00	1.56E 00 1.98E 00	2.108 00	2.23E 00	2.36E 00	2.51E 00	2.66E 00	2.83E 00	3.00E 00
30.0 *	1.77E 00	1.68E 00	2.COE 00	2.12E CC	2.258 00	2.38E 00	2.53E CO 2.55E OO	2.69F 00 2.71E 00	2.85E 00 2.87E CO	3.03E 00 3.05E 00
30.5 * 31.0 *	1.79E 00 1.86E 00	1.90E 00 1.91E 00	2.01E 00 2.03E 00	2.13E OC 2.15E OC	2.26E 00 2.28E 00	2.40E 00 2.42E 00	2.57E CO	2.73E 00	2.90E 00	3.07E 00 3.10E 00
31.5 * 32.0 *	1.82E 00 1.83E 00	1.93E 00 1.94E 00	2.04E 00 2.06E 0C	2.17E OC 2.19E OC	2.30E 00 2.32E 00	2.44E 00 2.46E CU	2.59E 00 2.61E 00	2.75E 00 2.77E 00	2.92E 00 2.94E 00	3.12E 00
32.5 *	1.84E 00	1.96E 00	2.C8E 00	2.20E CC	2.34E 0C	2.48t 00	2.63E 00	2.79E 00	2.96E 00	3.146 00
33.0 ×	1.86E 00 1.87E 00	1.97E 00 1.99E 00	2.C9E 00 2.11E 00	2.22E 0C 2.23E 0C	2.35E 00 2.37E 00	2.50E 00 2.52E 00	2.65E 00 2.67E 00		2.98E 00 3.01E 00	3.17E 00 3.19E 00
34.0 *	1.89E 00	2.0CF C0 2.01F 00	2.12E 00 2.14E 00	2.25E CC 2.27E CC	2.39E 00 2.40L 00	2.53E 00 2.55E 00	2.69E 00 2.71E 00	2.85E 00 2.87E 00	3.03E 00 3.05E 00	3.21E 00 3.24E 00
34.5 *	1.90E 00			2.28E OC	2.42L 00	2.57E 00	2.73E 00	2.89E 00	3.07E 00	3.26E 00
35.0 * 35.5 *	1.91F 00 1.93E 00	2.03F 00 2.04E 00	2.15E 0C 2.17E 00 2.18E 00	2.30E 0C 2.31E 0C	2.44E 00 2.45E 0C	2.59F 00 2.60E 00	2.74E 00 2.76E 00	2.91E 00 2.93E 00	3.09E 00 3.11E 00	3.28E 00 3.30E 00
36.0 * 36.5 *	1.94E 00 1.95E 00	2.06E 00 2.07E 00	2.20E 0C	2.33E CC 2.35E CC	2.47E 00 2.49E CO	2.62E 00 2.64E 00	2.78E 00 2.80E 00	2.95E 00 2.97E 00	3.13E 00	3.33E 00 3.35E 00
37.0 *	1.97E 00	2.08E 00	2.21F 30	2.0000 00	L					

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ALPHA	VAL	UES FROM	3.16E-01	TO 8,91E-	-01 SQUARE	INCHES PE	R INCH.		****	******	*****
SC IN	IN=	FCSS) 3.16E-01 (DOWN)	C=SICE D 3.55E-C1	IMENSION OF 3.986-01	4.47E-01	5.01E-01	5.62E-01	INCFES. 6.31E-01	7.08E-01	7.94E-01	8.91E-01
(******* 0.0	* * * *	2.61E-01	2.93F-01	3.28E-01	3.68E~01	4.13E-01	4.64E-01	5.20E-01	********* 5.84E~01	*********** 6.55E-01	*********** 7.35E-01
0.5	* * * *	5.49E-01	5.92E-01	€.4CE-01	6.91E-01	7.48E-01	8.11E-01	8.79E-01	S.55E-01	1.04E CC	1.13F 00
1.0		7.08E-01	7.60E-01	8.16E-01	8.77E-C1	9.44E-01	1.02E 00	1.10E 00	1.18E 00	1.28E 00	1.38E 00
1.5		8.31E-01	8.90E-01	9.54E-01	1.02E CC	1.10E OC	1.18E 00	1.27E 00	1.36E 00	1.47E 00	1.58E 00
2.0		9.36E-01	1.00E 00	1.C7E 00	1.15E CC	1.23E 00	1.32E 00	1.41E 00	1.52E 00	1.63E 00	1.75E 00
2.5	* * * *	1.03E 00	1.10F 00	1.18E 00	1.26E CC	1.34E 00	1.44E 00	1.54E 00	1.65E 00	1.77E 00	1.90E CO
3.0		1.11E 00	1.19E 00	1.27E 00	1.36E OO	1.45E 00	1.55E 00	1.66E 00	1.78E 00	1.91E 00	2.04E NO
3.5		1.19E 00	1.27E 00	1.36E 00	1.45E CC	1.55E 00	1.65F 00	1.77E 00	1.89E 00	2.03E 00	2.17E OO
4.0		1.26E 00	1.35E 00	1.44E 00	1.53E OO	1.64F 00	1.75E 00	1.87E 00	2.00E 00	2.14E 00	2.29E OO
4.5		1.33E 00	1.42E 00	1.51E 00	1.61E OO	1.72E 00	1.84E 00	1.97E 00	2.10E 00	2.25F 00	2.40E OO
5.C	* * * *	1.39E 00	1.49E 00	1.58E 00	1.69E CC	1.80E 00	1.92E 00	2.06E 00	2.20E 00	2.35E 0C	2.51E 00
5.5		1.46E 00	1.55E 00	1.65E 00	1.76E CO	1.88E 00	2.01E 00	2.14E 00	2.29E 00	2.44E 00	2.61E 00
6.0		1.51E 00	1.61E 00	1.72E 00	1.83E CC	1.55E 00	2.08E 00	2.22E 00	2.37E 00	2.54E CO	2.71E 00
6.5		1.57E 00	1.67E 00	1.78E 00	1.90E OO	2.02E 00	2.16E 00	2.30E 00	2.46E 00	2.62E 00	2.80E 00
7.0		1.62E 00	1.73E 00	1.84E 00	1.96E CC	2.09E 00	2.23E 00	2.38E 00	2.54E 00	2.71E 00	2.89E 00
7.5	* * * *	1.68E 00	1.78E 00	1.90E 00	2.02E 00	2.16E 00	2.30E 00	2.45E 09	2.61E 00	2.79E 00	2.98F 00
8.0		1.73E 00	1.84E 00	1.96E 00	2.08E 00	2.22E 00	2.37E 00	2.52E 00	2.69E 00	2.87E 00	3.06F 00
8.5		1.78E 00	1.89E 00	2.01E 00	2.14E 00	2.28E 00	2.43E 00	2.59E 00	2.76E 00	2.95E 00	3.14E 00
9.0		1.82E 00	1.94E 00	2.06E 00	2.20E 00	2.34E 00	2.49E 00	2.66E 00	2.83E 00	3.02E 00	3.22E 00
9.5		1.87E 00	1.99E 00	2.12E 00	2.25E 00	2.40E 00	2.55E 00	2.72E 00	2.9GE 00	3.09E 00	3.30E 00
10.0	* * * *	1.91E 00	2.04E 00	2.17E 0C	2.31E CC	2.45E OC	2.61E 00	2.79E 00	2.97E 00	3.16E 00	3.38E 00
10.5		1.96E 00	2.08E 00	2.22E 00	2.36E 00	2.51F OO	2.67E 00	2.85E 00	3.03E 90	3.23E 00	3.45E 00
11.0		2.00E 00	2.13E C0	2.26E 0C	2.41E CC	2.56E OO	2.73E 00	2.91E 00	3.10E 00	3.30E 00	3.52E 00
11.5		2.04E 00	2.17E 00	2.31E 00	2.46E 00	2.62E OO	2.79E 00	2.97E 00	3.16E 00	3.37E 00	3.59E 00
12.0		2.08E 00	2.21E 00	2.36E 00	2.51E CC	2.67E OO	2.84E 00	3.02E 00	3.22E 00	3.43E 00	3.66E 00
12.5 13.0 13.5 14.0 14.5	* * * *	2.12E 00 2.16E 00 2.20E 00 2.24E 00 2.28E 00	2.26E 00 2.30E 00 2.34E 00 2.38E 00 2.42E 00	2.40E 00 2.44E 00 2.49E 00 2.53E 00 2.57E 00	2.55E 00 2.60E 00 2.65E 00 2.69E 00 2.69E 00 2.74E CC	2.72E 00 2.77E 00 2.82E 00 2.86E 00 2.91E 00	2.89E 00 2.95E 00 3.00E 00 3.05E 00 3.10E 00	3.08E 00 3.14E 00 3.19E 00 3.24E 00 3.30E 00	3.28E 00 3.34E 00 3.40E 00 3.45E 00 3.51E 00	3.50E 00 3.56E 00 3.62E 00 3.68E 00 3.74E 00	3.73E 00 3.79E 00 3.86E 00 3.92E 00 3.98E 00
15.0	* * * *	2.31E 00	2.46E 00	2.61E 00	2.78E CC	2.96E 00	3.15E 00	3.35E 00	3.56E 00	3.79E 00	4.04E 00
15.5		2.35E 00	2.50E CO	2.65E 00	2.82E CC	3.00E 00	3.19E 00	3.40E 00	3.62E 00	3.85E 00	4.10E 00
16.0		2.38E 00	2.53E 00	2.69E 00	2.86E OC	3.05E 00	3.24E 00	3.45E 00	3.67E 01	3.91E 00	4.16E 00
16.5		2.42E 00	2.57E CO	2.73E 00	2.91E OC	3.09E 00	3.29E 00	3.50E 00	3.72E 00	3.96E 00	4.22E 00
17.0		2.45E 00	2.61E 00	2.77E 00	2.95E CC	3.13E 00	3.33E 00	3.55E 00	3.77E 00	4.02E 00	4.28E 00
						C. 8 CCN					
17.5	* * * *	2.49E 00	2.64E 00	2.81E 00	2.99E OC	3.18E OC	3.38F 00	3.59E 00	3.82E 00	4.07E 00	4.33E 00
18.0		2.52E 00	2.68E 00	2.85E 00	3.03E OC	3.22E OO	3.42E 00	3.64E 00	3.87E 00	4.12E 00	4.39E 00
18.5		2.55E 00	2.71E 00	2.88E 00	3.C6E C0	3.26E OO	3.47E 00	3.69E 00	3.92E 00	4.17E 00	4.44E 00
19.0		2.58E 00	2.75E 00	2.92E 00	3.10E CC	3.30E OO	3.51E 00	3.73E 00	3.97E 00	4.23E 00	4.50E 00
19.5		2.62E 00	2.78E 00	2.96E 00	3.14E OO	3.34E OO	3.55E 00	3.78E 00	4.02E 00	4.28E 00	4.55E 00
20.0	* * * * *	2.65E 00	2.81E 00	2.99E 00	3.18E OC	3.38E 0C	3.59E 00	3.82E 00	4.07E 00	4.33E 00	4.61E 00
20.5		2.68E 00	2.85E 00	3.03E 00	3.22E OO	3.42E 00	3.63E 00	3.87E 00	4.11F 00	4.38E 00	4.66E 00
21.0		2.71E 00	2.88E 00	3.06E 00	3.25E OC	3.46E 00	3.68E 00	3.91E 00	4.16E 00	4.42E 00	4.71E 00
21.5		2.74E 00	2.91E 00	3.09E 00	3.29E CO	3.50E 00	3.72E 00	3.95E 00	4.20E 00	4.47E 00	4.76E 00
22.0		2.77E 00	2.94E 00	3.13E 00	3.32E OC	3.53E 00	3.76E 00	3.99E 00	4.25E 00	4.52E 00	4.81F 00
22.5	* * * *	2.80E 00	2.98F 00	5.16E 00	3.36E CC	3.57E 00	3.80E 00	4.04E 00	4.29E 00	4.57E 00	4.86F 07
23.0		2.83E 00	3.01E 00	3.19E 00	3.39E OC	3.61E 00	3.84E 00	4.08E 00	4.34E 00	4.61E 00	4.91E 07
23.5		2.86E 00	3.04E 00	3.23E 00	3.43E OC	3.64E 00	3.87E 00	4.12E 00	4.38E 00	4.66E 00	4.96E 03
24.0		2.89E 00	3.07E 00	3.26E 00	3.46E CC	3.68E 00	3.91E 00	4.16E 00	4.42E 00	4.71E 00	5.01E 00
24.5		2.92E 00	3.10E 00	3.29E 00	3.50E CO	3.72E 00	3.95E 00	4.20E 00	4.47E 00	4.75E 00	5.05E 00
25.0 25.5 26.0 26.5 27.0	* * * *	2.95E 00 2.97E 00 3.00E 00 3.03E 00 3.06E 00	2.13E 00 3.16E 00 3.19E 00 3.22E 00 3.24E 00	3.32E 0C 3.35E 00 3.39E 00 3.42E 00 3.45E 0C	3.53E CC 3.56E OC 3.60E OC 3.63E CC 3.66E OC	3.75E OC 3.79E OO 3.82E OO 3.86E OO 3.89E CO	3.99E 00 4.03E 00 4.06E 00 4.10E 00 4.14E 00	4.24E 00 4.23E 00 4.32E 00 4.36E 00 4.40E 00	4.51E 00 4.55E 00 4.59E 00 4.63E 00 4.63E 00 4.67E 00	4.80F 00 4.84E 00 4.88E 00 4.93E 00 4.97E 00	5.10E 00 5.15E 00 5.20E 00 5.24E 00 5.29E 00
27.5 28.0 28.5 29.0 29.5	* * * *	3.08E 00 3.11E 00 3.14E 00 3.16E 00 3.19E 00	3.27E 00 3.30E 00 3.33F 00 3.36E 00 3.38E 00	3.48E 00 3.51E 00 3.54F 00 3.57E 00 3.59E 00	3.69E OC 3.73E OC 3.76E CC 3.79E OC 3.82E OC		4.17E 00 4.21E 00 4.24E 00 4.28E 00 4.31E 00	4.43E 00 4.47E 00 4.51E 00 4.55E 00 4.58E 00	4.71E 00 4.75E 00 4.79E 00 4.83E 00 4.87E 00	5.01E 00 5.05E 00 5.10E 00 5.14E 00 5.18E 00	5.33E 00 5.38E 00 5.42E 00 5.46E 00 5.51E 00
30.0	* * * *	3.21E 00	3.41E CC	3.62E OC	3.85E 0C	4.09E 00	4.35E 00	4.62E 00	4.91E 00	5.22E 00	5.55E 00
30.5		3.24E 00	3.44E OO	3.65E OC	3.88E 0C	4.12E 00	4.38E 00	4.65E 00	4.95E 00	5.26E 00	5.59E 00
31.0		3.26E 00	3.47E OO	3.68E OC	3.91E 0C	4.15E 00	4.41E 00	4.69E 00	4.99E 00	5.30E 00	5.64E 00
31.5		3.29E 00	3.49E OO	3.71E OO	3.94E 0C	4.19E 00	4.45E 00	4.73E 00	5.02E 00	5.34E 00	5.68E 00
32.0		3.31E 00	3.52E CO	3.74E OO	3.97E 0C	4.22E 00	4.48E 00	4.76E 00	5.06E 00	5.38E 00	5.72E 00
32.5	* * * *	3.34E 00	3.55E 0;	3.76E OC	4.00E 00	4.25E 00	4.51E 00	4.8CE 00	5.10E 00	5.42E 00	5.76E 00
33.0		3.36E 00	3.57E 00	3.79E OO	4.03E 00	4.28E 00	4.55E 00	4.83E 00	5.13E 00	5.46E 00	5.80E 00
33.5		3.39E 00	3.6CE 00	3.82E OC	4.06E 00	4.31E 00	4.58E 00	4.86E 00	5.17E 00	5.50E 00	5.84E 00
34.0		3.41E 00	3.62E 00	3.85E OC	4.09E 00	4.34E 00	4.61E 00	4.90E 00	5.21E 00	5.53E 00	5.88E 00
34.5		3.44E 00	3.65F 00	3.87E OC	4.11E 00	4.37E 00	4.64E 00	4.93E 00	5.24E 00	5.57E 00	5.92E 00
35.0 35.5 36.C 36.5 37.0	* * * *	3.46E 00 3.48E 00 3.51E 00 3.53E 00 3.55E 00	3.67E 00 3.70E 00 3.72E 00 3.75E 00 3.75E 00 3.77E 00	2.90E OC 3.93E OO 3.95E OC 3.98E OO 4.01E OC	4.14E 00 4.17E 00 4.20E 00 4.23E 00 4.25E 00	4.40E 00 4.43E 00 4.46E 00 4.49E 00 4.52E 00	4.67E 00 4.71E 00 4.74E 00 4.77E 00 4.80E 00	4.97E 00 5.00E 00 5.03F 00 5.07E 00 5.10E 00	5.28E 00 5.31E 00 5.35E 00 5.38E 00 5.42E 00	5.61E 00 5.65E 00 5.68E 00 5.72E 00 5.76E 00	5.96E 00 6.00E 00 6.04E 00 6.08E 00 6.12E 00

LINCH											
******	***	*****	****	****	******	******	*******		******	********	*****
0.0	*	8.25E-01	9.26E-01	1.04E 00	1.17E 00	1.31E 00	1.47E 00	1.65E 00	1.85E 00	2.07E 00	2.33E 00
0.5	*	1.23E 00	1.34E 00	1.47E 00	1.61E 00	1.76E 00	1.93E 00	2.12E 00	2.33E 00	2+56E 00	2.82E 00
1.0	*	1.49E 00	1.62E 00	1.76E 00	1.91E 00	2.07E 00	2.26E 00	2.46E 00	2.68E 00	2.93E 00	3.206 00
1+5	*	1.70E 00	1.84E 00	1.99E 00	2.15E 00	2.33E 00	2.52E 00	2.74F 00	2.98E 00	3.24E 00	3.52F 00
2.0	*	1.89E 00	2.03E 00	2.19E 00	2.36E 00	2.55E 00	2.765 00	2.98E U0	3.23E 00	3.51E 00	3.81E 00
2.5	*	2.05E 00	2.205 00	2.37E 00	2.558 00	2.75E 00	2.97E 00	3.20E 00	3.46E 00	3.75E 00	4.065 40
3.0	*	2.19E 00	2.355 00	2.53E 00	2.72E 00	2.93E 00	3.16E 00	3.40E 00	3.67E 00	3.97E 00	4.29E 00
3.5	*	2.33E 00	2.50E 00	2.68E 00	2.88E 00	3.10E 00	3.33E 00	3.59E 00	3.87E 00	4.18E 00	4.510 00
4.0	*	2+45E 00	2.63E 00	2.82E 00	3.03E 00	3.26E 00	3.50E 00	3.77E-00	4.06E 00	4.37E 00	4.726 00
4.5	*	2.57E 00	2.76E 00	2.96E 00	3.175 00	3.40E 00	3.66E 00	3.93E 00	4.23E 00	4.55E 00	4.91: 00
403	-	2.072 00	ATOL OU	2.,00. 00	3.17. 00	34402 00	3.00L 00	31931 00	44535 00	4.556 05	41911.00
5.0	*	2+69E 00	2.88E 00	3.08E 00	3.30E 00	3.54E 00	3.80E 00	4.09E 00	4.39E 00	4.73E 0:	5.09E U0
5.5	*	2.79E 00	2.995 00	3.20E 00	3.43E 00	3.68E 00	3.95E 00	4.24E U0	4.55E 00	4.89E 00	5.27F 00
6.0	*	2.906 00	3.10E 00	3.32E 00	3.55E 00	3.818 00	4.08E 00	4.38E 00	4.70E 00	5.05E 00	5.441- 00
6.5	*	3.00F 00	3.20E 00	3.43E 00	3.67E 00	3.938 00	4.21E 00	4.52E JO	4+85E 00	5.21E 00	5.60F 00
7.0	*	3.09E 00	3.30E 00	3.53E 00	3.786 00	4.05E 00	4.34E 00	4.65E JO	4.99E 00	5.36E 00	5.756 00
	-	34092 00	3.302 00	3.332 00	5.100 00	4.031.00	41346 00	4.032 00	44992 00	34302 00	5.750 00
7.5	*	3.18E 00	3.406 00	3.64E 00	3.89E 00	4.16E 00	4+46E 00	4.78E 00	5+12E 00	5.50E 00	5.90E 00
8.0	*	3.27E 00	3.49E 00	3.74E 00	3.99E 00	4.27E 00	4.58E 00	4.90E 30	5.26E 00	5.64E 00	6.055 00
8.5	*	3.36E 00	3,59€ 00	3.83E 00	4.10E 00	4.38E 00	4.698 00	5.02E 00	5.38E 00	5.77E 00	6.198 00
9.0	*	3.44E 00	3.67E 00	3.935 00	4.20E 00	4.49E 00	4.805 00	5.14F 00	5.51E 00	5.90E 00	6.331 00
9.5	*	3.526 00	3.76E 00	4.02E 00	4.298 00	4.59E 00	4.91E 00	5.25E 00	5.63E 00	6.03E 00	6+47E 00
945		31326 00	34/6E 00	4.022.00	44296 00	44096 00	4.916 00	5.250 00	3+83E 00	B.03E 00	6+471: 00
10.0	*	3.608 00	3.84E 00	4.11E 00	4.392 00	4.69E 00	5.01E 00	5.37E 00	5.74E 00	6.15E 00	6.60: 00
10.5	*	3.68E 00	3.93E 00	4.19E 00	4.48E 00	4.79E 00	5.12E 00	5.47E 00	5.86E 00	6.28E 0.)	6.730 00
11.0	*	3.75E 00	4.01E 00	4.28E 00	4.57E 00	4.88E 00	5.22E 00	5.58E 00	5.97E 00	6.39E 00	6.85 00
11.5	÷	3.836 00	4.08E 00	4.36E 00	4.656 00	4.97E 00	5.31E 00	5+58E 00	6+08E 00	6.51E 00	6+97E 00
12.0		3.90E 00	4.16E 00	4.44E 00	4.03E 00	5.06E 00	5.41E 00	5.78E 00	6.19E 00	6.62E 00	7.09F 00
12.40	*	3190E 00	4.100 00	4.44E 00	4.746 00	5.005 00	3441E 00	54/6E UV	0.19E 00	0.025 00	1.035 00
12.5	*	3.97E 00	4.24E 00	4.52E 00	4.82E 00	5.15E 00	5.50E 00	5.68E 00	6.29E 00	6.73E 00	7.21E 00
13.0	*	4.04E 00	4.31E 00	4.60E 00	4.91E 00	5.24E 00	5.60E 00	5.98E 00	6.40E 00	6.84E 00	7.33E 00
13.5	*	4.11E 00	4.38E 00	4.67E 00	4.99E 00	5.33E 00	5.695.00	6.08E 00	6.50E 00	6.95E 00	7.44E 00
14.0	*	4.18E 00	4.450 00	4.75E 00	5.07E 00	5.41E 00	5.78F 00	6.17E 00	6.60E 00	7.06E 00	7.55E 00
14.5		4.24E 00	4.52E 00	4.82E DO	5.15E 00	5.49E 00			6.70E 00		
144.5	•	4.24E UU	4.526.00	4.02C UU	3.13C UU	2.446 00	5.86E 00	6.26E 00	BerUE QU	7.16E 00	7.66t. 00
15+0	*	4+31E 00	4.59E 00	4.90E 00	5.220 00	5.57E 00	5.95E 00	6.36E 00	6.79E 00	7.26E 00	7.77E 00
15.5	÷	4.37E 00	4.66E 00	4.97E 00	5.30E 00	5.65E 00	6.03E 00	6.44E 00	6+89E 00	7.36E 00	
16.0		4.43E 00	4.73E 00	5.04E 00	5.37E 00	5.73E 00					
16.5	*	4.43E 00	4.73E 00	5+11E 00	5+45E 00	5.81E 00	6.12E 00	6.53E 00	6.98E 00 7.07E 00	7.46E 00	7.98F 00
17.0					5+52E 00		6.20E 00	6.62E 00		7.56E 0)	8.08E 00
11.0	*	4.56E 00	4.85E 00	5.17E 00	5452E 00	5,89E 00	6.28E 00	6.70E 00	7.16E 00	7.65E UU	8.18F 00

D TABLE NO. 9 CONTINUED.

17.5	*	4.62E 00	4.92E 00	5.24E 00	5.59E 00	5.96E 00	6.36E 00	6.79E 00	7.25E 00	7.75E 00	8.28F 00
18+0	*	4.68E 00	4.986 00	5.31E 00	5.66E QU	6+03E 00	6.44E 00	6.87E 00	7.34E 00	7.84E 00	8.38E 00
18.5	*	4.73E 00	5.04E 00	5.37E 00	5.73E 00	6.11E 00	6.52E 00	6.95E UQ	7.42E 00	7.935 00	8+48E 00
19+0	*	4.79E 00	5.10E 00	5.44E 00	5.80E 00	6.18E 00	6.59E 00	7.03E 00	7.51E 00	8.02E 00	8.57F UD
19.5	*	4.85E 00	5.16E 00	5.50E 00	5.86E 00	6.25E 00	6.67E 00	7.11E 00	7.59E 00	8.11E 00	8.67E UU
20.0	*	4.90E 00	5.22E 00	5.56E 00	5.93E 00	6.35E 00	6.74E 00	7.19E 00	7.68E 00	8.20E 00	8.76F 00
20.5	*	4.96E 00	5.28E 00	5.63E 00	6.00E 00	6.39E 00	6.82E 00	7.27E 00	7.76E 00	8.295 00	8.855.00
51.0	*	5+01E 00	5.34E 00	5.69E 00	6.06E 00	6.46E 00	6.89E 00	7.35E 00	7.84E 00	8.378 00	8.94E 00
21.5	*	5.07E 00	5.40E 00	5.75E 00	6.12E 00	6.53E 00	6.96E 00	7.42E 00	7.92E 00	8.468 00	9.03E 00
22.0	*	5.12E 00	5.45E 00	5.81E 00	6.19E 00	6.59E 00	7.038 00	7.50E 00	8.00E 00	8.54E 00	9.12E 00
22.5	*	5.17E 00	5.51E 00	5.87E 00	6.250 00	6.66E 00	7.10E 00	7.57E 00	8.08E 00	8.63E 00	9.21E 00
23.0	*	5.23E 00	5.56E OC	5.93E 00	6.31E 00	6.73E 00	7.17L 00	7.65E 00	8.16E 00	8.71E 00	9.30E 00
23+5	*	5.28E 00	5.62E 00	5.98E 00	6.37E 00	6.79E 00	7.24E 00	7.72E 00	8.24E 00	8.79E 00	9.38E 00
24.0	*	5.33E 00	5.67E 00	6+04E 00	6.43E 00	6.85E 00	7+31E 00	7.79E 00	8+31E 00	8.87E 00	9.47E 00
24.5	*	5.38E 00	5.73E 00	6.10E 00	6.49E 00	6.92E 00	7.37E 00	7.86E 00	8.39E 00	8.95E 00	9.55F 00
25+0	*	5.43E 00	5.78E 00	6.15E 00	6.55E 00	6.98E 00	7.44E 00	7.93E 00	8.46E 00	9.03E 00	9.64E 00
25.5	*	5.48E JU	5.83E 00	6.21E 00	6.61E 00	7.04E 00	7.51E 00	8.00E 00	8.54E 00	9.11E 00	9.72E 00
26.0	*	5.53E 00	5.88E OC	6.26E 00	6.67E 00	7.11E 00	7.57E DO	8.07E 00	8.61E 00	9.18E 00	9.80E 00
26+5	*	5.58E 00	5.94E 00	6.32E 00	6.73E 00	7.17E 00	7.64E D0	8.14E 00	8.68E 00	9+26E 00	9.880 00
27.0	*	5.62E 00	5.995 00	6.37E 00	6.79E 00	7.23E 00	7.70E 00	8.21E 00	8.75E 00	9.34E 00	9.96E 00
					•••••						
27.5	*			6.43E 00	6.84E 00	7.29E 00	7 767 60				
		5.67E 00	6.04E 00				7.76E 00	8.28E 00	8.82E 00	9+41E 00	1.00E 01
28.0	*	5.72£ 00	6.09E 00	6.48E 00	6.90E 00	7.35E 00	7.83E 00	8.34E 00	8.89E 00	9.49E 00	1.018 01
28.5	*	5.77E 00	6.14E 00	6.53E 00	6.95E 00	7.41F 00	7.89E DO	8.41E 00	8.96E 00	9.56E 00	1.02E 01
58.0	*	5.81E 00	6.19E 00	6.58E 00	7.01E 00	7.46E 00	7.95E 00	8.47E U0	9.03E 00	9.63E 00	1.036 01
29.5	*	5+86E 00	6.23E 00	6+64E 00	7.06E 00	7.52E 00	8.012 00	8.54E 00	9.10E 00	9.71E 00	1.04E 01
				••••							
		5 045 NB		<	3 105 00	7 5 6 6 6 6		0 405 30			
30.0	*	5.91E 30	6.28E 00	6.69E 00	7.12E 00	7.58E 00	8.07E 30	8.60E 30	9.17E 00	9.78E 00	1.04E 01
30.5	*	5.95E 00	6.33E 00	6.74E 00	7.17E 00	7.64E 00	8.13E 00	8.67E 00	9.24E 00	9.858 0)	1.05E 01
31+0	*	6.00E 00	6.38E 00	6.79E 00	7.23E 00	7.69E 00					1.06E 01
						1.096 00	8.19E 00	8.73E 00	9.31E 00	9.92E 00	I OC UL
31.5	*	6.04E 00	6.43E 00	6.84E .00	7.28E 00	7.75E 00	8.25E 00	8.73E 00 8.79E 00	9.31E 00 9.37E 00	9.92E 00 9.99E 00	1.07E 01
	*		6.43E 00	6.84E 00	7.28E 00	7.75E 00	8.25E 00	8.79E 00	9.37E 00	9.99E 00	1.07E U1
32.0		6.04E 00 6.08E 00									
32.0	*	6.08E 00	6.43E 00 6.47E 00	6.84E 00 6.89E 00	7.28E 00 7.33E 00	7.75E 00 7.81E 00	8.25E 00 8.31E 00	8.79E 00 8.86E 00	9.37E 00 9.44E 00	9.99E 00 1.01E 01	1.07E 01 1.07E 01
32•0 32•5	*	6.08E 00	6.43E 00 6.47E 00 6.52E 00	6.84E 00 6.89E 00 6.94E 00	7.28E 00 7.33E 00 7.38E 00	7.75E 00 7.81E 00 7.86E 00	8.25E 00 8.31E 00 8.37E 00	8.79E 00 8.86E 00 8.92E 00	9.37E 00 9.44E 00 9.50E 00	9.99E 00 1.01E 01 1.01E 01	1.07E 01 1.07E 01 1.08E 01
32.0 32.5 33.0	* *	6.08E 00 6.13E 00 6.17E 00	6.43E 00 6.47E 00 6.52E 00 6.57E 00	6.84E 00 6.89E 00 6.94E 00 6.99E 00	7.28E 00 7.33E 00 7.38E 00 7.43E 00	7.75E 00 7.81E 00 7.86E 00 7.92E 00	8.25E 00 8.31£ 00 8.37E 00 8.43E 00	8.79E 00 8.86E 00 8.92E 00 8.98E 00	9.37E 00 9.44E 00 9.50E 00 9.57E 00	9.99E 00 1.01E 01 1.01E 01 1.02E 01	1.07E 01 1.07E 01 1.08E 01 1.09E 01
32.0 32.5 33.0 33.5	*	6.08E 00	6.43E 00 6.47E 00 6.52E 00 6.57E 00 6.61E 00	6.84E 00 6.89E 00 6.94E 00	7.28E 00 7.33E 00 7.38E 00 7.43E 00 7.49E 00	7.75E 00 7.81E 00 7.86E 00	8.25E 00 8.31E 00 8.37E 00	8.79E 00 8.86E 00 8.92E 00	9.37E 00 9.44E 00 9.50E 00	9.99E 00 1.01E 01 1.01E 01	1.07E 01 1.07E 01 1.08E 01
32.0 32.5 33.0	* *	6.08E 00 6.13E 00 6.17E 00	6.43E 00 6.47E 00 6.52E 00 6.57E 00	6.84E 00 6.89E 00 6.94E 00 6.99E 00	7.28E 00 7.33E 00 7.38E 00 7.43E 00	7.75E 00 7.81E 00 7.86E 00 7.92E 00	8.25E 00 8.31£ 00 8.37E 00 8.43E 00	8.79E 00 8.86E 00 8.92E 00 8.98E 00	9.37E 00 9.44E 00 9.50E 00 9.57E 00	9.99E 00 1.01E 01 1.01E 01 1.02E 01	1.07E 01 1.07E 01 1.08E 01 1.09E 01
32.0 32.5 33.0 33.5	* * *	6.08E 00 6.13E 00 6.17E 00 6.22E 00	6.43E 00 6.47E 00 6.52E 00 6.57E 00 6.61E 00	6.84E 00 6.89E 00 6.94E 00 6.99E 00 7.03E 00	7.28E 00 7.33E 00 7.38E 00 7.43E 00 7.49E 00	7.75E 00 7.81E 00 7.86E 00 7.92E 00 7.97E 00	8.25E 00 8.31E 00 8.37E 00 8.43E 00 8.49E 00	8.79E 00 8.86E 00 8.92E 00 8.98E 00 9.04E 00	9.37E 00 9.44E 00 9.50E 00 9.57E 00 9.63E 00	9.99E 00 1.01E 01 1.02E 01 1.02E 01 1.03E 01	1.07E 01 1.07E 01 1.08E 01 1.09E 01 1.09F 01
32.0 32.5 33.0 33.5 34.0	* * * *	6.08E 00 6.13E 00 6.17E 00 6.22E 00 6.26E 00	6.43E 00 6.47E 00 6.52E 00 6.57E 00 6.61E 00 6.66E 00	6.84E 00 6.89E 00 6.94E 00 6.99E 00 7.03E 00 7.08E 00	7.28E 00 7.33E 00 7.38E 00 7.43E 00 7.49E 00 7.54E 00	7.75E 00 7.81E 00 7.86E 00 7.92E 00 7.97E 00 8.02E 00	8.25E 00 8.31E 00 8.43E 00 8.43E 00 8.49E 00 8.54E 00	8.79E 00 8.86E 00 8.92E 00 8.98E 00 9.04E 00 9.10E 00	9.37E 00 9.44E 00 9.50E 00 9.57E 00 9.63E 00 9.70E 00	9.99E 00 1.01E 01 1.01E 01 1.02E 01 1.03E 01 1.03E 01	1.07E 01 1.07E 01 1.09E 01 1.09E 01 1.09F 01 1.10E 01
32.0 32.5 33.0 33.5 34.0 34.5	* * * * *	6.08E 00 6.13E 00 6.17E 00 6.22E 00 6.26E 00 6.30E 00	6.43E 00 6.47E 00 6.52E 00 6.57E 00 6.61E 00 6.66E 00 6.70E 00	6.84E 00 6.99E 00 6.99E 00 7.03E 00 7.03E 00 7.13E 00	7.28E 00 7.33E 00 7.38E 00 7.43E 00 7.49E 00 7.54E 00 7.59E 00	7.75E 00 7.81E 00 7.86E 00 7.92E 00 7.97E 00 8.02E 00 8.08E 00	8.25E 00 8.31E 00 8.43E 00 8.43E 00 8.49E 00 8.54E 00 8.60E 00	8.79E 00 8.86E 00 8.98E 00 9.04E 00 9.10E 00 9.16E 00	9.37E 00 9.44E 00 9.50E 00 9.57E 00 9.63E 00 9.76E 00 9.76E 00	9.99E 00 1.01E 01 1.02E 01 1.02E 01 1.03E 01 1.03E 01 1.04E 01	1.07E 01 1.07E 01 1.09E 01 1.09E 01 1.09F 01 1.10E 01 1.11E 01
32.0 32.5 33.0 33.5 34.0 34.5 35.0	* * * * * *	6.08E 00 6.13E 00 6.17E 00 6.22E 00 6.26E 00 6.30E 00 6.34E 00	6.43E 00 6.47E 00 6.52E 00 6.57E 00 6.61E 00 6.66E 00 6.70E 00 6.75E 00	6.84E 00 6.89E 00 6.94E 00 6.99E 00 7.03E 00 7.08E 00 7.13E 00 7.18E 00	7.28E 00 7.33E 00 7.43E 00 7.49E 00 7.54E 00 7.59E 00 7.64E 00	7.75E 00 7.81E 00 7.86E 00 7.92E 00 7.97E 00 8.02E 00 8.08E 00 8.13E 00	8.25E 00 8.31E 00 8.43E 00 8.43E 00 8.49E 00 8.54E 00 8.60E 00 B.66E 00	8.79E 00 8.86E 00 8.92E 00 8.98E 00 9.04E 00 9.10E 00 9.16E 00 9.22E 00	9.37E 00 9.44E 00 9.50E 00 9.57E 00 9.63E 00 9.70E 00 9.76E 00 9.82E 00	9.99E 00 1.01E 01 1.02E 01 1.02E 01 1.03E 01 1.03E 01 1.04E 01 1.05E 01	1.07E 01 1.07E 01 1.08E 01 1.09E 01 1.09F 01 1.10E 01 1.11E 01 1.12E 01
32.0 32.5 33.0 33.5 34.0 34.5 35.0 35.5	* **** **	6.08E 00 6.13E 00 6.17E 00 6.22E 00 6.26E 00 6.30E 00 6.34E 00 6.38E 00	6.43E 00 6.47E 00 6.52E 00 6.57E 00 6.61E 00 6.66E 00 6.70E 00 6.75E 00 6.79E 00	6.84E 00 6.99E 00 6.99E 00 7.03E 03 7.08E 00 7.13E 00 7.18E 00 7.22E 00	7.28E 00 7.33E 00 7.38E 00 7.43E 00 7.49E 00 7.54E 00 7.59E 00 7.64E 00 7.69E 00	7.75E 00 7.81E 00 7.86E 00 7.92E 00 7.97E 00 8.02E 00 8.08E 00 8.13E 00 8.18E 00	8.25E 00 8.31E 00 8.43E 00 8.43E 00 8.49E 00 8.54E 00 8.60E 00 8.66E 00 8.71E 00	8.79E 00 8.86E 00 8.92E 00 8.98E 00 9.04E 00 9.10E 00 9.16E 00 9.22E 00 9.28E 00	9.37E 00 9.44E 00 9.50E 00 9.57E 00 9.63E 00 9.70E 00 9.76E 00 9.82E 00 9.89E 00	9.99E 00 1.01E 01 1.02E 01 1.02E 01 1.03E 01 1.03E 01 1.04E 01 1.05E 01	1.07E 01 1.07E 01 1.09E 01 1.09E 01 1.09F 01 1.10E 01 1.11E 01 1.12E 01 1.12E 01
32.0 32.5 33.0 33.5 34.0 34.5 35.0	* * * * * *	6.08E 00 6.13E 00 6.17E 00 6.22E 00 6.26E 00 6.30E 00 6.34E 00	6.43E 00 6.47E 00 6.52E 00 6.57E 00 6.61E 00 6.66E 00 6.75E 00 6.75E 00 6.79E 00 6.84E 00	6.84E 00 6.89E 00 6.94E 00 6.99E 00 7.03E 00 7.08E 00 7.13E 00 7.18E 00 7.22E 00 7.27E 00	7.28E 00 7.33E 00 7.43E 00 7.44E 00 7.59E 00 7.59E 00 7.64E 00 7.64E 00 7.64E 00 7.74E 00	7.75E 00 7.81E 00 7.92E 00 7.97E 00 8.02E 00 8.08E 00 8.13E 00 8.18E 00 8.24E 00	8.25E 00 8.31£ 00 8.43E 00 8.43E 00 8.445E 00 8.60E 00 8.66E 00 8.71E 00 8.77E 00	8.79E 00 8.86E 00 8.92E 00 8.98E 00 9.10E 00 9.16E 00 9.16E 00 9.22E 00 9.28E 00 9.34E 00	9.37E 00 9.44E 00 9.50E 00 9.57E 00 9.63E 00 9.70E 00 9.76E 00 9.82E 00 9.89E 00 9.95E 00	9.99E 00 1.01E 01 1.02E 01 1.03E 01 1.03E 01 1.04E 01 1.05E 01 1.05E 01 1.06E 01	1.07E 01 1.07E 01 1.08E 01 1.09E 01 1.09F 01 1.10E 01 1.11E 01 1.12E 01
32.0 32.5 33.0 33.5 34.0 34.5 35.0 35.5	* **** **	6.08E 00 6.13E 00 6.17E 00 6.22E 00 6.26E 00 6.30E 00 6.34E 00 6.38E 00	6.43E 00 6.47E 00 6.52E 00 6.57E 00 6.61E 00 6.66E 00 6.70E 00 6.75E 00 6.79E 00	6.84E 00 6.99E 00 6.99E 00 7.03E 03 7.08E 00 7.13E 00 7.18E 00 7.22E 00	7.28E 00 7.33E 00 7.38E 00 7.43E 00 7.49E 00 7.54E 00 7.59E 00 7.64E 00 7.69E 00	7.75E 00 7.81E 00 7.86E 00 7.92E 00 7.97E 00 8.02E 00 8.08E 00 8.13E 00 8.18E 00	8.25E 00 8.31E 00 8.43E 00 8.43E 00 8.49E 00 8.54E 00 8.60E 00 8.66E 00 8.71E 00	8.79E 00 8.86E 00 8.92E 00 8.98E 00 9.04E 00 9.10E 00 9.16E 00 9.22E 00 9.28E 00	9.37E 00 9.44E 00 9.50E 00 9.57E 00 9.63E 00 9.70E 00 9.76E 00 9.82E 00 9.89E 00	9.99E 00 1.01E 01 1.02E 01 1.02E 01 1.03E 01 1.03E 01 1.04E 01 1.05E 01	1.07E 01 1.07E 01 1.09E 01 1.09E 01 1.09F 01 1.10E 01 1.11E 01 1.12E 01 1.12E 01
32.0 32.5 33.0 33.5 34.0 34.5 35.0 35.5 36.0	* **** ***	6.08E 00 6.13E 00 6.17E 00 6.22E 00 6.26E 00 6.30E 00 6.34E 00 6.38E 00 6.43E 00	6.43E 00 6.47E 00 6.52E 00 6.57E 00 6.61E 00 6.66E 00 6.75E 00 6.75E 00 6.79E 00 6.84E 00	6.84E 00 6.89E 00 6.94E 00 6.99E 00 7.03E 00 7.08E 00 7.13E 00 7.18E 00 7.22E 00 7.27E 00	7.28E 00 7.33E 00 7.43E 00 7.44E 00 7.59E 00 7.59E 00 7.64E 00 7.64E 00 7.64E 00 7.74E 00	7.75E 00 7.81E 00 7.92E 00 7.97E 00 8.02E 00 8.08E 00 8.13E 00 8.18E 00 8.24E 00	8.25E 00 8.31£ 00 8.43E 00 8.43E 00 8.445E 00 8.60E 00 8.66E 00 8.71E 00 8.77E 00	8.79E 00 8.86E 00 8.92E 00 8.98E 00 9.10E 00 9.16E 00 9.16E 00 9.22E 00 9.28E 00 9.34E 00	9.37E 00 9.44E 00 9.50E 00 9.57E 00 9.63E 00 9.70E 00 9.76E 00 9.82E 00 9.89E 00 9.95E 00	9.99E 00 1.01E 01 1.02E 01 1.02E 01 1.03E 01 1.03E 01 1.04E 01 1.05E 01 1.05E 01 1.05E 01 1.07E 01	1.07E 01 1.07E 01 1.09E 01 1.09E 01 1.09F 01 1.10E 01 1.11E 01 1.12E 01 1.12E 01 1.13E 01

INCHES (DOWN) ***** 6.55E 00 2.61E 00 2.93E 00 3.28E 00 3.12E 00 3.44E 00 3.81E 00 3.51E 00 3.85E 00 4.23L 00 7.35E 00 3+68E 00 4+13E 00 4+21E 00 4+67E 00 4.64E 00 5.20E 00 5.84E 00 5.18E 00 5.75E 00 6.39E 00 5.64E 00 6.32E 00 6.87E 00 0.0 0.5 7.11E 00 * 7.92E JO 4.65E 00 5.11E 00 1.0 5.64E 00 6.22E 00 6.87E 00 7.605 0.0 8-415 -àñ 4.20E 4.59E 00 5.02E 6.63E 10 7.30E 00 3.84E 00 00 00 5.50E 00 6.04E 00 8.04E 00 8.866.00 2.0 4.14F 00 4.505 00 4.91F 00 5.355 00 5.85E 00 6.40E 00 7-01E 00 7+68E 00 ٠ 8.44E 0) 9.27E 2.5 * 4.40E 00 4.78E 00 5.20F 00 5+668 00 6.17E 00 6.73E 00 7.35E 30 8.04E 00 8.81E 00 9.66E 00 4.65E 00 5.04E 00 1.00E 01 3.0 5.47E 00 5.94E 00 6.46E 00 7.04F 00 7.67F 00 8.38F 00 9.16E 00 5.28E 00 6.74E 00 7.336 00 3.5 4.88E 00 5.72E 00 6.20E 00 7.97E 00 8.69E 00 9.488 00 1.04E /1 4.0 5.09E 00 5.50F 00 5+96E 00 6+45E 00 7.00E 00 7.60E 00 8.26E 00 8.99E 00 9.80E 00 1.07E 01 4.5 5.30E 00 5.72E 00 6.18E 00 6+69E 00 7.25E 00 7.86E 00 8.53E 00 9.27E 00 1.01E 01 1.100 31 5+0 5.49E 00 5.92E 00 6.40E 00 6.91E 00 7.48E 00 6.11E 00 8.79E 00 9.55F 00 1-04F 01 1.13E 01 6.12E 00 5.5 * 5.67E 00 6.60E 00 7.13E 00 7.71E 00 8.341: 00 9.04E 00 9.81E 00 1.07E 01 1.16E 01 6.0 5.85E 00 6,30E 00 6.80E D0 7+348 00 7.93E 00 8.57E 00 9.28F 00 1.01F 01 1.09E 01 1+190 6.5 6.02E 00 6.48E 00 6.99E 00 00 7.542 8.14E 00 8.79E 00 9.51E 00 1.03E 01 1.12E 01 1+216 01 7.0 * 6-19F 00 6-66E 00 7.17E 00 7.73E 00 8.34E 00 9.01E 00 9.74E 00 1.05E 01 1.14E 01 1.245 8.54E 00 7.5 * 6.35E 00 6.830 00 7.35E 00 7.92E 00 9.22E 00 9.965 00 1.08E 01 1.17E 01 1.26E 8.0 6.50E 00 6.99E 00 7.52E 00 8.10E 00 8.73E 00 9.42E 00 1.026 01 1.10E 01 1.19E 01 1.297 01 8.5 6.65E 00 7.156 00 7.69E 00 8.27E 00 8.91E 00 9.61E 30 1.04E 01 1.12E 01 1.21E 01 1.316 01 * 9.0 6.80E 00 7.30E 00 7.85E 00 8.44F 00 9.09F 00 9.80+ 00 1.06E 01 1.14E 01 1.23E 01 1.345 9+5 6.94E 00 7.45E 00 8.01E 00 B+61E 00 9.27E 00 9.99E 00 1.08E 01 1.16E 01 1.26E 01 1.36E 01 7.60E 00 10+0 7.08E 00 8.16F 00 8.77E 00 9.44F 00 1.020 01 1.10E 01 1.18E 01 1.28E 01 1.380 0.1 7.74E 00 7.88E 00 8.31E 00 8.46E 00 9.61E 00 9.77E 00 1+11E 21 1.20E 01 10.5 * 7.21E 00 8.93E 00 1.03E 01 1.30E 01 1.40E 21 7.34E 00 11.0 9.09E 00 1.05E 01 1+13E-01 1.22E 01 1.32E 01 1.425 01 7.47E 8.02E 8.60E 00 1.07E 01 00 00 9.24E 00 9,94E 00 1.15E 01 1.24E 01 01 1.44E U1 1.34E 12.0 7.60F 00 8-15E 00 8.75F 00 9.395 00 1.01E 01 1.00F 01 1.17E 01 1+26E 01 1.36E 01 1.472 61 1.02E 01 12.5 7.73E 00 8.286 00 8.88F 00 9.54F 00 1.105 01 1.19E 01 1.28E 01 1.38E a 1 13.0 * 7.85E 00 8.41E 00 9.02E 00 9+68E 00 1.04E 01 1.12E 01 1.20E 01 1.22E 01 1.29E 01 1.31E 01 1.40E 01 1.50E 01 13.5 * 7.97E 00 8.54E 00 9.15E 00 9.828 00 1.05E 01 1.13t 01 1.41E 01 1.52 01 14.0 8.08F 00 8.66E 0.0 9.29E 00 9.965 00 1.07E 01 1.156 01 1.24E 01 1.13E 01 1-43E 0.1 L . 54P 13.1 4.5 8.20E 0.0 8.78E 00 9.41E 00 1.01E 1,08E 01 1.16E 01 1.25E 01 1.45E 01 1.35E 01 1.56: 01 15.0 0.0 8.90E 9.54E 00 1.02E 01 1.10E 01 01 1.27F 1 ALBE 11 1.36E 01 1.47E 01 1.580 01 1.19E 01 1.21E 01 15.5 8.43E 00 9.02E 00 9.67E 00 1.04E D1 1.1LE 01 1.28E 11 1.38E 01 1.48E 01 * 1.60E J1 9.79E 00 8.54E 00 9.14E 00 1.05E 01 1.13E 01 16.0 1.30E 01 1.40E 01 1.50E 01 1.628 01 8-64E 00 9.25E 00 9.91E 00 1.14E 01 1.22E 31 1.31E 01 1.41E 01 1.52E 1.630 16.5 1.06E 01 01 01 17.0 8.75E 00 9.378 00 1.00F 01 1.075 01 1.15E 01 1.24F 01 1.33E 01 1.43E 01 1.53E 01 1.65F 0.1 D TALLE NO. 10 CONTINUED. 1.34E 01 1.44E 01 1.55E 01 1.676 01 8.86E 00 9.48E 00 1.01E 01 1.09E 01 1.17E 01 1.25F 01 17.5 * * 9.59E 00 9.70E 00 1.03E 01 1.18E 01 1.26E 01 1.19E 01 1.28E 01 1.36E 01 1.37E 01 1+46E 01 1+47E 01 1.57E 01 1.69E 01 1.70E 01 18.0 8.96E 00 1.10E D1 14.5 * 9.065 00 1.04F 01 1.21E 01 1.58E 01 1-39E 9.16E 00 9.805 00 1.05E 01 1.12E 01 1.20E 01 1.29E 01 01 1.49E 01 1,60E 01 1.72E 0 19.0 1.50E 01 1.74E 19.5 * 9.26E 00 9.91E 00 1.06E 01 1.14E D1 1.22E 01 1.30E 01 1.40E 01 1.61E 01 0.1 9.365 00 1-00F 01 1.07E 01 1.15E 01 1.23E 01 1.32E 01 1.41E 01 1.52F 01 1.638 01 1.756 01 20.0 1.33E 01 1.43E 01 20.5 9.46E 00 1.01E 01 1.08E 01 1.16E 01 1.24E 01 1+53E 01 1.65E 01 1.776 οı 1.34E 01 1.36E 01 1.66E 01 21.0 1.09E 01 1.170 01 1.25E 01 1.44E 01 1.55E 01 1.780 41 9.56E 00 1.02E 01 1.45E 01 1.67E 01 1.80E 1.27E 01 1+56E 01 21.5 * 9.65E 00 1.03E 01 1.10E 01 1.18E 01 61 1.28E 01 1.37E 01 00 1.046 1.19E 01 1.47E 01 1.57F 01 1.69E 01 1.825 01 22.0 9.84E 00 1.05E 01 1.12E 01 1.20E 01 1.29E 01 1.300 01 1.48E 01 1.59E 01 1.70E 01 1.83E 01 22.5 ۰ 9.93E 00 1.30E 01 1.31E 01 1.39E 01 1.40E 01 1.60E 01 1.61E 01 1.06E 01 1.14E 01 1.218 01 1.49E 01 1.72E 01 1.85E 01 23.0 1.00E 01 1.070 01 1.15E 01 1.238 01 1.51E 01 1.73E 01 1.865 51 23.5 ٠ 1+63E 01 1.52E 01 01 1.08E 01 1.16E 01 1.24E 01 1.32E 01 1.425 01 1.756 01 1.880 01 24.0 1+01E 1.33E 01 1.43E 01 1.09E 01 1.25E 01 1.53E 01 1+64E 01 1.76E 01 1.895 24.5 * 1.02E 01 1.17E 01 25.0 1+03E 01 1.10E 01 1.18E 01 1+26E 01 1.34E 01 1.44E 01 1.54E 01 1.65E 01 1.77E 01 1.90F (1 * 1.45E 01 1.79E 01 1+11E 01 1.27E 01 1.36E 01 1.56E 01 1.67E 01 1.920 01 1.19E D1 25.5 1.048 01 1.12E 01 1.37E 01 1.38E 01 1.57E 01 1.58E 01 26.0 1.05E 01 1.19E 01 1.28E 01 1.46E 01 1.68E 01 1.80E 01 1.93E 01 1.47E 01 1.69E 01 1.81E 01 1.955 1.13E 01 1.29E 01 26.5 1.06E 01 1.20E 01 91 1.39E 01 1.49E 01 1.70E 01 1.83E 01 1.96E 01 27.0 1.06E 01 1.14E 01 1.21E 01 1.30E 01 1.59E 31 1.07E 01 1.148 01 1.22E 01 1.40E 01 1.50E 01 L.60E 31 1.72E 01 1.84E 01 1.98E 01 27.5 1.31E 01 1.08E 01 1.15E 01 1.23E 01 1.32E 01 1.41E 01 1451E 01 1.616 01 1.73E 01 1.85E 01 1.99F UL 28.0 * 1.52E 01 1.74E 01 1.87E 01 1.16E D1 1.33E 01 1.426 01 1.63E 01 2.00E J1 28.5 1.09E 01 1.24E 01 1.17E 01 1.25E 01 1.34E 01 1.43E 01 1.53E 01 1.64E 01 1.75€ 01 1.88E 01 2.02E 01 29.0 1.10E 01 1.77E 01 2.0JE 1.89E 01 1.44E 01 1.54E 01 01 29.5 * 1.11E 01 1.18E 01 1.26E 01 1.358 01 1.65E 01 1.11E 01 1-19E 01 1.27E 01 1.36E 01 1.45E 01 1.55E 01 1.66E 01 1.78E 01 1.91E 01 2.04E 01 30.0 2.065 01 1.12E 01 1.20E 01 1.28E 01 1.37E 01 1.46E OL 1.56E 01 1.67E 01 1.79E 01 1.92E 01 30.5 * 1.29E 01 1.30E 01 1.80E 01 1.13E 01 1.21E 01 1.38E 01 1.47E 01 1.57E 01 1.68E 01 1.936 01 2.07E UI 31.0 1.58E 01 1.48E 01 1.69E 1.81E 01 1.94E 01 2.08 31.5 1.14E 01 1.21E 01 1.38E 01 31 1.39E 01 1-70E 01 1.835 01 1.96E 01 2- FOF 01 1.14E 01 1.22E 01 1.30E 01 1.49E 01 1.596 01 32.0 1.15E 01 1.23E 01 1.31E 01 1.40E 01 1.50E 01 1.60E 01 1.726 01 1.84E 01 1.97E 01 2.116 υı 32.5 1.16E 01 1.32E 01 1.33E 01 1.41E 01 1.42E 01 1.51E 01 1.61E 01 1.62E 01 1.98E 01 33.0 * 1.24E 01 1.73E 01 1+85E 01 2.12E 01 1.17E 01 1.25E 01 1.74E 31 1.86E 01 1.99E 01 2.13F 01 33.5 2.15E 01 1.34E 01 2.00E 01 1.18E 01 1.25E 01 1.435 01 1.53E 01 1+63E-01 1.75F 01 1.87E 01 34.0 1.54E 01 1.64E 01 1.768 01 1.886 01 2.02E 01 2,16E 1.26E 01 1.35E 01 1.44E 01 34.5 1.18E 01 1.55E 01 1.65F 01 1.77E 01 1+89E 01 35.0 1.19E 01 1.27E 01 1.365 01 1.45F 01 1.20E 01 1.28E 01 1.36E 01 1.46E 01 1.56E 01 1.66E 01 1.78E 01 1.90E D1 2.04E 01 2+180 01 35.5 1+91E 01 36.0 1.21E 01 1.29E 01 1.29E 01 1.37E 01 1.47E 01 1.57E 01 1.57E 01 1.67E 01 1.79E 01 2.05E 01 2.200 01 1.38E 01 1.47E 01 1.68E 01 1.80E JL 1.93E 01 2.06E 01 2.211 VI 1.21E 01 36.5 37.0 1.22E 01 1.30E 01 1.39E 01 1.48E D1 1.58E 01 1.69E 01 1.81E 01 1.94F 01 2.07E 01 2.226 01

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0.0		8.25E 0			1.04E 0		+17E		1.31E		1.47E		1.65E		1.85E		2.07E		2.33E	
	*	8.82E 00			1.10E 0		•22L		1.376		1.53E		1.70E		1.91E		2+13E		2.38E	
1.0	*	9.32E 00			1.15E 0		•28E		1.42E		1.58E		1.76E		1.96E		2.19E		2.44E	
1.5	*	9.78E 00			1.20E 0		•33E		1.47E		1.638		1+81E		2.01E		2.246		2 • 49E	
2.0	*	1.02E 01	1.13	E 01	1.24E 0		•37E	01	1.52E	01	1.685	01	1.86E	51	2.06E	01	2+29E	01	2•\$5F	(• 1
					1.28E 0		•41Ē	~ .	1.56E	A 1	1.72F		1.916	.	2.11E		2.34E		2+60L	
2.5	*	1.06E 01			1.326 0		441E		1.60E		1.776		1.91E		2.16E		2+39E		2.641	
3.5	*	1.136 01			1.32E 0		.50E		1+64E		1.816		2.00E		2.20E		2.43E		2.69F	
	*	1.17E 0			1.40E 0		.53C		1.68E		1.85E		2.04E		2.25E		2.48E		2.746	
4.0		1.20E U			1.43E 0		•57E		1.726		1+89E		2.08E		2.29E		2.52E		2.78F	
4.5	*	1.200 01	1. 1.31		11436 0		•010	01	1	01	1.020		2.000	51	20291		2.026		2.0100	01
5.0	*	1.238 0	1.34	F 01	1.47E 0	1 1	.61E	01	1.76E	01	1.93E	01	2.12E	01	2+330	01	2+56E	01	2+82F	J 1
5.5	*	1.26E 0			1.50E 0		.64E		1.79E		1.96E		2.16E		2.37E		2.60E		2.87[
5.0	*	1.29E 01			1.536 0		.67E		1.83E		2.005		2+19E		2.41E		2.64E		2.916	
6.5	*	1.32E 0			1.56E 0		.70E		1.86E		2.046		2.236		2.44E		2.68E		2.950	
7.0	*	1.35E U			1.59E 0		.74L		1.896		2.07E		2.26E		2.48E		2.72E		2.991	
7.5	*	1.37E 0	1.49	E 01	1.62E 0	1 1	.77E	01	1.93E	01	2.105	0.1	2.30E	01	2.51E	01	2.76E	01	3.021	01
8.0	*	1.40E 0	1 1.52	- 01	1.65E 0	1 1	•79E	01	1.96E	01	2+13E	31	2.33E	υ1	2.55E	01	2.79L	01	3.060	e1 –
8.5	*	1.42E 0	1.54	E 01	1.6BF 0	1 1	•82E	01	1+99E	01	2.17E	01	2.365	61	2+58E	01	2.83E	01	3.100	e1 -
9.0	*	1.45E 0			1.70E 0	1 1	.85L	01	2.026	01	S.50E	01	2.40E	01	2+62E	01	2.86E	01	3+13F	01
9.5	*	1.47E 0	1.59	E 01	1.73E 0	1 1	.88£	01	2.04E	01	2.23E	01	2.43E	11	2+65E	01	3.90E	01	3.170	01
10.0	*	1.49E 0	1.62	E 01	1.76E 0	1 1	•915	01	2.07E	01	2.26E	01	2.46E)1	2.68E	01	2.93E	01	3.20F	é1 –
10.5	*	1.52E 0	1.64	£.01	1.78E 0	1 1	•93E	01	2.10E	01	5°58F		2+49E	01	2.71E	01	2•96£	01	3.24L	01
11 + D	*	1.54E 0	1.67	€ 01	1.818 0	1 1	•96E	01	2.13E	01	2.31E	21	2.52E	31	2.74E	01	2•99E	01	3.276	-)1
11.5	*	1.56E 0.	1.69	E 01	1.83E 0)1 1	.98 E	01	2.15E	01	2.34E		2.55E	51	2.77E	01	3.03E		3+31E	C 1
12.0	*	1.58E 0	1 + 71	E 01	1.85E 0)1 5	+018	01	2.18E	01	2.37E	01	2.58E	01	2.80E	01	3.06E	01	3.34E	01
12.5	¥	1.60E 0		E 01	1.88E 0		•03E		2.21E		2.40E		2.60E		2.83E		3.09E		3 . 376	
13+0	×	1.62E 0			1.90E 0		+06E		2•23E		2.42E		2+63F		2+86E		3•12E		3.40F	
13.5	*	1.65E 0		F. 01	1.92£ 0		•08E		2•26E		2.45E		2.66E		2+89F		3.15E		3•43E	
14.0	*	1.67E 0		E 01	1.94E 0		.10E		2.28E		2.47E		2.69E		2.92E		3.18E		3•46k	
14.5	*	1.691 0	1 1.82	C 01	1.97E 0	01 2	•13C	01	2.30E	01	2.501	51	2•71E	01	2+95E	01	3.21E	01	3+490	C 1
									0.175		0 605		0 71-			~ •	2	<u>.</u> .		
15.0	*	1.70E 0			1.99E 0		•15E		2+33E		2.526		2.74E		2.98E		3.24E		3.522	
15.5	*	1.72E 0			2.016 0		+170		2+356		2.555		2.76E		3.00E		3.26E		3 • 55E	
16.0	*	1.74E 0		F. 01			•19E		2.38E		2.57E		2.79E		3.03E		3.29E		3.580	
16.5	*	1.76E Q		E 01			.226		2.40E		2.600		2.82E		3.06F		3.32E		3+611	
17.0	*	1.78E 0	1 1.92	t. 01	2.078 0)i 2	.24E	01	2•42E	01	2.62E	01	2.84E	01	3.08E	01	3.35E	01	3.64L	JL

D TABLE NO. 11 CONTINUED.

17.5	*	1.60F 01	1.946 01	2.09E 01	2.26E 01	2.44E 01	2.648 31	2.86E 01	3+11E 01	3.37E 01	3.678 01
18.0	*	1.82E 01	1.96E 01	2.11E 01	2.28E 01	2.46E 01	2.67E 01	2.89E JI	3.13E 01	3+40E 01	3.70E 01
18.5	*	1.83E 01	1.98E 01	2.13E 01	2.30E 01	2.498 31	2.69E 31	2.91E 01	3.16E 01	3+43E J1	3.72E 01
19.0	*	1.85E 01	1.99E 01	2.15E 01	2.32E 01	2.51E 01	2.71E 01	2.94E 01	3.18E 01	3.458 01	3+75E 01
19.5	*	1.87E 01	2.016 01	2.17E 01	2.346 01	2.53E 01	2.73F. 01	2.96E J1	3.21E 01	3.48E 01	3.78C 01
19.5	*	1.076.01	2.010.01	2		20002 01					
			0.035.01	0.105.01	2.368 01	2.55E 01	2.76E 01	2.98E 01	3.23E 01	3.51E 01	3.816 61
50.0	*	1.89E 01	2.03F 01	2.19E 01				3.01E 01	3.26E 01	3.53E 01	3.836 01
20.5	*	1.90E U1	2.05E 01	2.21E 01	2.38E 01	2.57E 01	2.78E 01				
21.0	*	1.925 J1	2.07E 01	2.23E 01	2.40E 01	2.59E 01	2.80E 01	3.03E 01	3.28E 01	3.56E 01	3.86E 01
21.5	*	1.94E 01	2.08t 01	2.24E 01	2.42E 01	2.61E 01	2.822 01	3.05E 01	3.30E 01	3.58E 01	1.88L 01
22.0	*	1.956 01	2.10E 01	2.261 01	2.448 01	2.63E 01	2.84E J1	3.07E 01	3.33E 01	3.61E 01	3.91E 01
22.5	*	1.97E 01	2.128 01	2.28E 01	2.46E 01	2.65E 01	2.86E 01	3.10E 01	3.35E 01	3+63E 01	3,94E 01
23.0	*	1.98E 01	2.13E 01	2.30E 01	2.488 01	2.67F 01	2.88E 01	3.12E J1	3.37E 01	3.65F 01	3.96E UI
23.5	*	2.00E 01	2.15E 01	2.325 01	2.50E 01	2.698 01	2.91E 01	3.14E U1	3.40E 01	3.68£ 01	3,996 01
24.0	*	2.028 01	2.176 01	2.33E 01	2.51E 01	2.71E 01	2.936 01	3.16E 01	3.42E 01	3.70E 01	4.016 01
24.5	*	2.03E 01	2.186 01	2.35E 01	2.53E 01	2.73E 01	2.95L 01	3.18E 01	3.44E 01	3.72E 01	4.04E 01
24.5	•	2.036 01	2.100.01	2	1.000						
-				2.37E 01	2.55E 01	2.755 01	2.970 01	3.20E 01	3.46E 01	3.75E 01	4.06F JI
25.0	*	2.05E 01	2.20E 01			2.77E 01	2.996 01	3+55E)I	3.49E 01	3.77E 01	4.080 01
25.5	*	2.06E 01	2.22E 01	2.38E 01	2.57E 01					3.79E 01	4.115 01
26.0	*	2.086 01	2.23F 01	2.40E 01	2.59E 01	2.79E 01	1.01E 01	3.24E J1	3.51E 01		
26.5	*	2.09E 01	2.25C 01	2.42E 01	2.60E 01	2.80E 01	3.021 01	3.27E 01	3.53E 01	3.826.01	4.131.01
27.0	*	2.11E J1	2.26E 01	2.43E 01	2.628 01	2.826 01	3.046 01	3.29E 01	3,55E 01	3.84E 01	4.16L 01
27.5	*	2.12E 01	2.28- 01	2.45E 01	2.64E 01	2.84E 01	3.06€ 01	3.316 01	3.57E 01	3.86E 01	4.18E 01
28.0	*	2.14E 01	2.29F 01	2.47E 01	2.66E 01	2.86E 01	3.08E 01	3.33E 01	3,59F 01	3.88E 01	4.200 (1
28.5	*	2.156 01	2.31E 01	2.48E 01	2.67E 01	2.88E 01	3.106 01	3.35E 01	3.61F.01	3.91E 01	4.23E 01
29.0	*	2.16E J1	2.33E 01	2.50E 01	2.69E 01	2,906 01	3.12F 01	3+37E 01	3.63E 01	3.93E 01	4.25E UI
29.5	*	2.186 01	2.346.01	2.52E 01	2.71E 01	2.91E 01	3.14E 01	3.38E u1	3.65E 01	3.95E 01	4.27E 01
30.0	*	2.19E 01	2.357 01	2.53E 01	2.72: 01	2+935 01	3.16E 01	3.40E 01	3.67E 01	3.97F 01	4.29E J1
30.5	*	2.216.01	2.37E 01	2.55E 01	2.74E 01	2.95E 01	3.18F 01	3.42E 01	3.69E 01	3.99E 01	4.326 01
31.0	*	2.22E 01	2.385 01	2.56E 01	2.75E 01	2.96E 01	3.196 01	3.44E 01	3.72E 01	4.015 21	4.34F U1
			2.400 01	2.58E 01	2.77E 01	2.98E 01	3.216 01	3.46E 01	3.74E 01	4.03E 01	4.361 01
31.5	*	2.23E 01				3.00F 01	3,236.01	3.48F J1	3.758 01	4.05E 01	4.381 01
32.0	*	2.25E 01	2.41E 01	2.59E 01	2.79E 01	3.000 01	34236.01	34466 31	3.751. 01	44036 01	44307 01
								7 800 1	3 776 44	+ ADE 11	4 445 41
32.5	*	2.26E 01	2.43E 01	2.61E 01	2.80E 01	3.02E 01	3.25E 01	3.50E J1	3.77E 01	4.08E 01	4.40E 01
33.0	*	2.28E 01	2.446 01	2.621 01	5.85E 01	3.03E 01	3.26E 01	3.52E 01	3.79E 01	4.10E 01	4.431. 01
33.5	*	2.29E 01	2.46E 01	2.64E 01	2.83E 01	3.05E 01	3.28E 01	3.54F 01	3.81E 01	4.12E 01	4.45E 01
34.0	*	2.30E 01	2.47E 01	2.65E 01	2.85E 01	3.07E 01	3.30E 01	3.55E 01	3.63E D1	4.14E 01	4.47E 01
34.5	*	2.32E U1	2.48E 01	2.67E 01	2.87E 01	3.08E 01	3.32E 01	3.57E J1	3.85E 01	4.16£ 01	4.49 ⊢ ∪1
35.0	*	2.33E 01	2.50E 01	2.68E 01	2+88E 01	3.10E 01	3.33E 01	3.59E 11	3.87E 01	4.18E 31	4.51⊢ ∋1
35+5	*	2.34E U1	2.51E 01	2.70E 01	2.905 01	3.11E 01	3.35E 01	3.61E 01	3.89E 01	4.20E 01	4.53-01
36.0	*	2.35E 01	2.53E 01	2.71E 01	2.916 01	3.136.01	3.37E 01	3.636 01	3.91E 01	4.22E 01	4.551-01
36+5	*	2.37E 01	2.54E 01	2.72E 01	2.93E 01	3.15E 01	3.38E 01	3.64E 01	3.93E 01	4.24E 01	4.57F 01
36.5		2.386 01	2.54E 01 2.55E 01	2.74E 01	2.948 01	3.16E 01	3.40E 01	3.665.01	3.95E 01	4.26E 01	4.59: 01
37.0	*	2.306 01	7.55L VI	20140 01	L UI	311 31 01	51456 01	0.000.01	0.000 01		

0.5	*	2.67L 01	2.991-01	3.34E 31	3.74E 01	4.19E 31	4.70E 01	5.26E -)1	5.90E 01	6.61E 01	7.418 01
1.0	*	2.72E 01	3.04F 01	3.40E 01	3.805.01	4.25E 01	4.76E 01	5.32E J1	5.96E 01	6.67E 01	7.47E 01
1.5	*	2.78E 01	3.10E 01	3.468 01	3.86F 01	4.31E 01	4.810 01	5,38E VI	6.02E 01	6.73E 01	7.53E 01
2.0	*	2.83E 01	3.156 01	3.51E 01	3.91E 01	4.36E 01	4.87E 01	5,44E 01	6.07E 01		7.59E 1
2.5	*	2.88E 01	1.208 01	3.56t 01	3.97£ 01	4.42E 01	4.926 01	5.49E 01	6+13E 01	6.84E 01	7.648 01
3.0	*	2.93E 01	3.256 01	3.61F 01	4.02F 01	4.478 01	4.98t 01	5.55E V1	6.18E 01	6.90E 01	7.705 01
3.5	*	2,988 01	1.301-01	1.668 01	4.07E 01	4.52E 01	5+03E 01	5,60E 01	6.24E 01	6.95E 21	7.75E 01
4.0	*	3.03E 01	3.35E 01	3.71E 01	4.12E 01	4.57F 01	5.08t. 01	5.65E 01	6.29E 01		7.81F 01
4.5	*	3.078.01	3.40E 01	3.76E 01	4.17E 01			5.70E 01	6.34E 01		7.86 1
									01010 01		
5.0	*	3.126 01	3.44E 01	3.810 01	4.215 01	4.67E 01	5.18E 01	5.758 01	6.39E 01	7.11E 01	7.926 01
5.5	*	3.16E 01	3.491 01	3.858 01	4.26F 01	4.726 01	5.23L 01	5.80E 01	6.44E 01	7.16E 01	7.97E (1
6.0	*	3.20E 01	3.530 01	3.90E 01	4.31E 01	4.77E 01	5.28- 01	5.85E 01	6.49E 01	7.21E 01	8.020 61
6.5	*	3.24E 01	3.57F 01	3.94E 01	4.35E 01	4.816 01	5.338 01	5.90E 1	6.54E 01	7.268 01	8.071 01
7.0	*	3.28E 01	3.61F 01	3.98E 01	4.40E 01		5.376 01	5.95F 01	6.59E 01	7.31E 01	0.12F C1
									0.072 01		
7.5	*	3.32E 01	3.65F 01	4.03E 01	4.44E 01	4.90E 01	5.42E 01	5.99E 01	6.64E 01	7.36E 01	8.17E v1
8.0	*	3.36E 01	1.70F 01	4.07E 01	4.4BE 01	4.95E 01	5.46E 01	6.04E 01	6.69E 01	7.41E 01	
8.5	*	3.40E 01	1.73E 01	4.11F 01	4.526 01	4.99E 01	5.51E 01	6.09F 01	6.73E 01	7.46E 01	8.271.01
9.0	*	3.445 01	1.77E 01	4.15F 01	4.57E 01	5.03E 01	5.550 01	6.13F 01	6.78E 01	7.51E 01	8.321 01
9.5	*	3.47E 01	3.81F 01	4.19E 01	4.61L 01			6.18E 01	6.83E 01	7.55E 01	
10.0	*	3.51E 31	3.85E 01	4.23E 01	4.65E 01	5.11E 01	5.64E 01	6,228 01	6.87E 01	7.60E 01	8.411.91
10+5	*	3.55E 01	3.89E 01	4.268 01	4+69E 01	5.16L 01	5.680 01	6.26E 01	6.91E 01	7.64E 01	
11+0	*	3.58E 01	3.925 01	4.30E 01	4.726 01	5.2JE 01	5.726 01	6.31E J1	6.96E 01	7.69E 01	8.501-01
11.5	*	3.61E 01	3.960 01	4.34E 01	4.76E 01	5.246 01	5.76E 01	6.35E 01	7.00E 01	7.73E 01	8.55F 1
12.0	*	3.65E 01	3.99E 01	4.38E 01	4.80E 01	5.27E 01	5.80E 01	6.39E U1	7.05E 01	7.78E 01	8.601 01
12.5	*	3.68E J1	4.03E 01	4.41E 01	4.84E 01	5.316 01	5.84E 01	6.430 01	7.09E 01	7.82E 01	8.64E 01
13.0	*	3.728 01	4.065 01	4.458 01	4.88E 01	5.358 01	5.88E 01	6.47E V1	7.13E 01	7.87E 01	8.690 01
13,5	*	3.75E UI	4.10F 01	4.48F 01	4.918 01	5.398 01	5.926.01	6.51E 01	7.17E 01	7.918 01	8.730 61
14.0	*	3.78E 01	4+13L 01	4.528 01	4.95E 01	5+43E 01	5.96E 01	6.55E J1	7.21E 01	7.95E 01	8.77: 01
14.5	*	3.81E 01	4.16E 01	4.55F 01	4.980 01			6.59E (1	7.25E 01	7.995 01	
											000001 01
15.0	*	3.84E 01	4.20E 01	4.59E 01	5.02E 01	5.50E 01	6.04E 31	6.636 01	7.30E 01	8.04E 01	8.861. 01
	*	3.87E 01	4.23E 01	4.620 01	5.05E 01	5.54E 01	6.07E 01	6.67E 11	7.34E 01	8.08E 01	8.90F 1
16.0	*	3.90E 01	4.26F 01	4.65F 01	5.09£ 01	5.57E 01	6.115 01	6.716 01	7.38F 01	8.12E 01	8.950 01
16.5	*	3.93E 01	4.291 01	4.69E 01	5.12E 01	5.61F 01	6.15E 01	6.756 01	7.42E 01	8.16E 01	8.996 01
17.0		3,96E 01		4.728 01	5.16= 01	5.64E 01	6.18E 01	6.79E 01	7.45E 01	8.20E 01	9.03⊢ 01
	÷									Secol of	

D TABLE NO. 12 CONTINUED.

17.5	*	3.995.01	4.356 01	4.75E 01	5.19E 01	5.68E 01	6.22F. 01	6.82E ul	7.49E 01	8.24E 01	9.076 01
18.0	*	4.02E 01	4.38⊢ 01	4.78E 01	5.22E 01	5.71E 01	6.26E 01	6.86E 01	7.53E 01	8.285 01	9.115 .1
18.5	*	4.055 01	4.418.01	4.81E 01	5.26E 01	5.75E 01	6.29E 01	6.90E 01	7.57E 01	8.32E 01	9.156 01
19.0	*	4.08E 01	4.448 01	4.85E 01	5.29E 01	5.78E 01	6.33E 01	6.93E 01	7.618 01	8.36E 01	9.19E 01
19.5	*	4.11E 01	4.476 01	4.88E 01	5.32E 01	5.816 01	6.36E 01	6.97E 01	7.65E 01	8.40E 01	9.235 01
20.0	*	4.14E 01	4.500 01	4.91F 01	5.35E 01	5.856 01	6.40E 01	7.01E 01	7.688 01	8.448 01	9.27E 91
20.5	*	4.160 01	4.53r 01	4.94E 01	5.39E 01	5.88E 01	6.43F 01	7.04E 01	7.72E 01	8.47E 01	9.316 91
21.0	*	4.19E 01	4.56E 01	4.97E 01	5.42L 01	5.91E D1	6.475 01	7.08F 01	7.76E 01	8.51E 01	9.358 01
21.5	*	4.22E 01	4.59: 01	5.00E 01	5.45E 01	5.95E 01	6+50E 01	7+11E J1	7.79E 01	8.55E 01	9.396 01
22.0	*	4.256 01	4.62€ 01	5.03E 01	5.48E 01	5.98E 01					
22.00		44206 01	4.020 01	34031 01	3.40C VI	3.995 01	6.53g 01	7.15E 01	7.83E 01	8.59E D1	9.431 01
22.5	*	4 075 01		E 04 E 03							
		4.27E 01	4.658 01	5.06E 01	5.518 01	6.01E 01	6.57E 01	7.18F 61	7.87£. 01	8.62E 01	9.470 01
23.0	*	4.30E 01	4.670 01	5.08E 01	5.54E 01	6.34F J1	6.60E 01	7.22E 01	7.90E 01	8.666 01	9.518 01
23.5	*	4.33E 91	4.70E 01	5.11E 01	5.57E 01	6.070 01	6.63E 01	7.25E 01	/.94E 01	8.70E 01	9.55F J1
24.0	¥	4.35E 01	4.73t 01	5.14E 01	5.60E 01	6.10E 01	6.66E 01	7.28F 01	7.97E 01	8.73E 01	9.58€ ∪1
24.5	*	4.388 01	4.758 01	5.17E 01	5.63E 01	6.14E 01	6.70: 01	7.32E 01	8.01E 01	8.77E 01	9.62E 01
25.0	*	4.40E 01	4.78F 01	5.20E 01	5.66C OI	6.17E 01	6.73E 01	7.35E 01	8.04E 01	8.81E 01	9.66⊱ 01
25.5	*	4.43E 01	4.81h 01	5.23E 01	5.692 01	6.20E 01	6.76L 01	7.38E U1	8.08E 01	8+84E 01	0.70F 01
26.0	*	4.45E 01	4.83E 01	5.25E 01	5.72E 01	6.23E 01	6.79F 01	7.42E 01	8.11E 01	8.88E 01	9.73E 01
26.5	*	4.48E 01	4.86E 01	5.28E 01	5.75E 01	6.26E 01	6.82E 01	7.45F 01	8.148 01	8.91E 01	9.77E 01
27.0	4	4.50E 01	4.89E 01	5.31F 01	5.77E 01	6.29E 01	6.8SE 01	7.48E J1	8.18E 01	8.95E 01	9.81E 01
27.5	*	4.53E 01	4.91C 01	5.34E 01	5.80E 01	6.325.01	6.88£ 01	7.51E 01	8.21E 01	8.98E 01	9.84E 01
28.0	*	4.55E 01	4.94E 01	5.36E 01	5.83E 01	6.35E 01	6.92F 01	7.558 .1	8.246 01	0.05E 01	9.88F V1
28.5	*	4.58E 01	4.968 01	5.39E 01	5.86E 01	6,37E 01	6+958 01	7.58E J1	8.28E 01	9.05E 01	9.91E 01
29.0	*	4.60E 01	4.99E 01	5.42F 01	5.89E 01	6.40E C1	6.988 01	7.61E 31	8.31E 01	9.09E 01	9.95C U1
29.5	*	4.63E 01	5.01F 01	5.44E 01	5.91E 01	6.43E 01	7.01F 01	7.64£ 01	8.34E 01	9+12E 01	9.996 (1
30.0	¥	4.65E U1	5.04E 01	5.47E 01	5.94E 01	6.46E C1	7.048 01	7.67E)I	8.38E 01	9.16E 01	1.005 02
30.5	¥	4.67E 01	5.06E 01	5.49E 01	5.97E 01	6.49E 01	7.07E 01	7.70E 01	8.41F 01	9.196 01	1.010 12
31.0	*	4.70E 01	5.091 01	5.52E 01	5.995 01	6.52E 01	7.10E 01	7.73E 01	8.44E 01	9.22E 01	1.016 .2
31.5	*	4.72E 01	5.118 01	5.55E 01	6.02E 01	6.55E 01	7.12E 01	7.765 01	8.47E 01	9.266 01	1.015 12
32.0	*	4.74E 01	5.14E 01	5.57E 01	6.05E 01	6.57E 01	7.15E 01	7.79E 01	8.50E 01	9.29E 01	1.020 02
											TTOLL OF
32.5	*	4.77E U1	5.16E 01	5.60E 01	6.07E 01	6.60E 01	7.18E 31	7.83E 01	8.54E 01	9.32E 01	1.021 02
33.0	*	4.79E 01	5.18F 01	5.620 01	6.101 01	6.63E 01	7.211 01	7.86E J1	8.57E 01	9.356 01	1.021 02
33.5	*	4.81E 01	5.216 01	5.655 01	6.13r. 01	6.66E 01	7.24E 01	7.89E 01	8.60F 01	9.398 01	1.03F 32
34.0	¥	4.83E 01	5.236 01	5.67E 01	6.156 01	6.68E 01	7.27E 01	7.92E J1	8.63E 01	9.42E 01	1.03F 12
	*										
34.5	*	4.86E 01	5.261 01	5.70E 01	6.18E 01	6.71E 01	7.30F 01	7.94E 01	8.66E 01	9.458 01	1.03F 12
31. 0		4 995 61		E 700 **	< 0.05 A.	c 741 **	2 450	7 070			
35.0	*	4.88E 01	5.280.01	5.720 01	6.20E 01	6.745 01	7.33E 01	7.971 01	8.69E 01	9.482 01	1.040 02
35.5	*	4.90E 01	5.30E 01	5.742 01	6.23L 01	6.76E 01	7.35E 01	8.00E 31	8.726 01	9.52E 01	1.04t (2
36.0	*	4.92E 01	5.33E 01	5.776.01	6.265.01	6.79E 01	7.386 01	8.03E 01	8.758 01	9.55E 01	1.045 02
36.5	*	4.94E 01	5.35F 01	5.790 01	6.28E 01	6.82E 01	7.41E 01	8.06E 01	8.78E 01	9.58E 01	1.05E A2
37+0	*	4.97E 01	5.37E 01	5.822 01	6.31E 01	6.84E 01	7.441: 01	1C :100.8	8.81E 01	9+61E 01	1.058 02

' ALPHA	VAL.	UES FRI	OМ	1.00E 4	25	TO 2.	82E	02 50	UARE	INCHE:	S PE	R INCH	•						
ALPHA										ORT CRO									
			02	1.120	02	1 •26E	02	1.418	02	1•58E	02	1 • 78E	05	2+00F	02	2.24E 0	02	2.51E 0	2 2.
		(DOWN)																	

0.0		8.25E		9.26E				1.17E		1.31E		1+478		1.65F		1.85E (2.07E 0	
0.5	*	8.31F		9.326		1.04E		1.176		1.31E		1.470		1.65F		1.85E (2.085 0	
1.0	*	8.37E		9.38F		1.05E		1.186		1.320		1.486		1.66E		1+86E (2.08E 0	
1.5	*	8.43E 8.49E		9.44F 9.49E		1.06E 1.J6E		1.18E 1.19E		1+33E 1+33E		1+49E		1+66E 1+67E		1.86E (2.09E 0	
6.0	7	01445	51	4447	01	14000	02	1.195	02	14336	02	14496	02	1.070	92	1.87F (02	2.10E 0	2 2.
2.5	*	8.54E		9.555		1.07E		1,19E		1.34E		1.506		1+68E		1+88E (2.10E 0	
3.0	*	8.600		9.61E		1.07E		1.20%		1.34E		1.501		1+68E		1.88E		2.11E 0	
3.5	*	8.658		4.66F		1.08E		1.21E		1.35E		1.516		1+69E		1.89E (2.11E 0	
4.0		8.71E		9.726		1.096		1.21E		1+350		1.51F		1.69E		1.890 0		2.125 0	
4.5	*	8.76E	υI	9.776	01	1.09E	02	1.22E	02	1+36E	02	1.520	98	1.70E	05	1.90E 0	04	2.130 0	2 2.
5.0	*	8.82E		9.83E		1.10E		1.22E		1.37E		1.536		1.70E		1.91E (2•13£ 0	
5.5	*	8.87F		9.886		1.105		1.235		1.370		1.536		1.710		1.91E (2.14E 0	
6.0	*	8.92E		9.93F		1.110		1.236		1.385		1.548		1+72E		1.92E (2.14E 0	
6.5		8.97E		0.99F		1.110		1.242		1.J8E		1.546		1.72E		1.92E (2.15E 0	
7.0	*	9•03E	01	1.00E	02	1.12E	0.5	1.248	02	1.39E	02	1.55E	02	1.73E	02	1.93E (05	2,15E 0	2 2.
7.5	*	9.08E	31	1.016	02	1.12E		1.256		1.39E		1.555		1+73F		1.93E (2.16E 0	2 2.
8.0	*	9.13E		1.018		1+13E		1.26±		1.40E		1.56E		l•74E		1.94E 0		2.17E 0	
8.5		9.18E		1.055		1.13E		1.268		1.40E		1.565		1•74E		1.940 0		2.17E 0	
9.0	*	9.23E		1.020		1.14E		1.276		1.41E		1.570		1 • 75E		1.956 (2.18E 0	
9.5	*	9.276	01	1+03E	02	1.146	0.5	1.275	02	1.410	02	1.570	02	1 • 7 SE	02	1.968 0	15	2.18E 0	5 5.
10.0	*	9.32E		1.03C	02	1.15E	02	1.280	02	1.42E		1.580		1.76F		1.96E (9S	2.19E 0	2 2.
10.5	*	9•37E	31	1.04€	02	1.156	02	1.28E	05	1.42E	95	1,585		1+76E	02	1.97E 0	0 S	2.19E 0	s s•
11.0	*	9.428	01	1.046	02	1+16E	02	1.29E		1.43F	02	1.598	35	1.775	35	1.97E 0	15	2.20E 0	
11.5	*	9.46E		1.05F		1.16E		1.29E		1.43E		1.60E		1•78E		1.98E (2.20E 0	
12.0	*	9.51E	01	1.05E	02	1.17E	02	1.305	02	1.44E	02	1.60E	52	1.78E	02	1.98E 0	25	2.21E 0	2 2.
12.5	*	9.56E	01	1.06F	02	1.17E	02	1.300	02	1.44E	02	1.616	02	1.79F	v2	1.99E (20	2.21E G	2 2.
13.0	*	9.60E	01	1.065	02	1.188		1.318		1.456		1.618		1.79E		1.99E (2.22E 0	
13.5	*	9+65£		1.07F		1.18E		1.310		1.45E		1.62€		1.805		2.00E (5.55E 0	
14.0	¥	9+69E		1.07F		1.190		1.32E		1•46E		1.62E		1.80£		2.00E 0		5.53F 0	
14.5	×	9.74E	01	1.085	02	1.196	02	1.321	02	1•46E	95	1.63E	35	1.818	62	2.01E 0	25	2.24E 0	5 5.
15.0	*	9.78E	01	1.08E	02	1.20E	02	1.335	02	1.47E	02	1.636	02	1.81F.	02	2.01E (22	2.24E 0	2 2.
15.5	*	9.83E		1.09F		1.20E		1.13E		1 • 4 7E		1+64E		1.820		2.026 (2.25E 0	
16.0	*	9.87E		1.09E		1+21E		1.33E		1.485		1.646		1.82E		5.05E (2.25E 0	
16.5	*	9•91t.		1.09F		1.21E		1.346		1.48E		1.65E		1.83E		2.03E 0		2.26E 0	
17.0	*	9.965	01	1.105	02	1.216	02	1 • 34F	02	1.49E	02	1+65E	02	1•83E	62	2.03E 0	5)	2.26E 0	2 2.

17.5	*	1.00F 02	1.10E 02	1.22E 02	1.35E 02	1.49E 32	1.66E 02	1.84E 02	2.04E 02	2.27E 02	2.52F 02
18.0	*	1.00E 02	1.116 02	1.22E 02	1.35E 02	1.505 02	1.665.02	1.84E 02	2.04E 02	2.27E 02	2.53E 02
18.5	*	1.01E 02	1.115 02	1.23E 02	1.36E 02	1.50E 02	1.66E 32	1,85F 02	2.05E 02	2.28E U2	2.531 02
19.0	*	1.01E 02	1.12E 02	1.23E 02	1.368 02	1.516 02	1.67E 02	1.85E 02	2.05E 02	2.28E 02	2.546 02
19.5	*	1.02E 02	1.126 02	1.24E 02	1.376 02	1.516 02	1.67E 02	1+86E 02	2.065 02	2.29E 02	2.546 02
				100.00							
20.0	*	1.02E 02	1.13E 02	1.246 02	1.378. 02	1.92E 02	1.686 02	1.86E ¢2	2.06E 02	2.29E 02	2.65⊢ 02
20.5	*	1.02E 02	1.136 02	1.25E 02	1.385 02	1.52E 02	1.68E 02	1.87E 02	2.07E 02	2.30E 02	2.556 02
21.0	*	1.03E 02	1.13E 02	1.25E 02	1.38E 02	1.53E 02	1.69E 02	1.87E 02	2.07E 02	2.30E 02	2.56E 02
21.5	*	1.036 02	1.14E 02	1.25E 02	1.38E 02	1.53E 02	1.698 02	1.87E 02	2.08E 02	2.316 02	2.56F 02
22.0	*	1.04E 02	1.14E 02	1.26E 02	1.396 02	1.53E 02	1.70E 02	1.88E)2	2.08E 02	2.31E 02	2.57E 02
22.5	*	1.04E 02	1.150 02	1.26E 02	1.396 02	1.54F 02	1.70E 32	1.88E 02	2.09E 02	2.32£ 02	2.57E 02
23.0	٠	1.055 02	1.15E 02	1.27E 02	1.405.02	1.54E 02	1.71E 02	1.89E J2	2.096 02	2.32E 02	2.586.02
23.5	*	1.05E 02	1.15C 02	1.27E 02	1.40E 02	1.55E 02	1.716 02	1.89E 02	2.10E 02	2. J3E 02	2+586 02
24.0	*	1.05E 02	1.16F 02	1.285 02	1.41E 02	1.35E 02	1.728 02	1.90E 32	2.10E 02	2.33E 02	2.59E 02
24.5	¥	1.068 02	1.16F 02	1.288 02	1.41E 02	1.56E 02	1.726 02	1.90F 02	2.11E 02	2.34E 02	2.59E 02
25.0	*	1.068 02	1.17E 02	1.28E 02	1.410 02	1.56E 02	1.72E 02	1+91E 02	2.11E 02	2.34E 02	2.60E 02
25.5	*	1.06E 02	1.170 02	1.298 02	1.428 02	1.57E 02	1.73E 02	1.91F 02	2.128 02	2.35E 02	2.60F 02
26.0	*	1.075 02	1.17E 02	1.29E 02	1.42E 02	1.57E 02	1.73E 02	1+92E 02	2.12E 02	2.355 02	2.61E 02
25.5	*	1.07E 02	1.188 02	1.30E 02	1.43E 02	1.57E 02	1.74E 02	1.92E 02	2.13E 02	2.35E 02	2.61E 02
27.0	*	1.08E 02	1.18E 02	1.306 02	1.43E 02	1.58E 02	1.74E 02	1.93E 02	2.13E 02	2.36E 02	2.62F 02
27.5	*	1.086 02	1.196 02	1.30E 02	1.44E 02	1.58E 02	1.75E 02	1.93F 02	2.146 02	2.36E 02	2.625 02
28.0	*	1.08E 02	1.19E 02	1.31E 02	1.44E 02	1.59E 02	1.75E 02	1.93E 02	2.14E 02	2.37E 02	2.636 02
28.5	*	1.098 02	1.19E 02	1.31E 02	1.44E 02	1.59E 02	1.76E 02	1.94E 02	2.146 02	2.37E 02	2.63E 02
29.0	*	1.09E 02	1.20E 02	1.32E 02	1.45E 02	1.60E 02	1.76E 02	1.94E 02	2.15E 02	2.38E 02	2.64E 02
29.5	*	1.09E 02	1.202 02	1.32E 02	1.450 02	1.60E 02	1.76E 02	1.95E U2	2.15E 02	2.38E 02	2.64E U2
30.0	*	1.10E 02	1.210 05	1.32E 02	1.465 02	1.60E 02	1.77E 02	1.95E 02	2.16E 02	2.39E 02	2.641 02
30.5	*	1.10E 02	1.21E 02	1.33E 02	1.466 02	1.61E 02	1.77E 02	1.96E 02	2.16E 02	2.39E 02	2.650 02
31.0	*	1.11E 02	1.21E 02	1.33E 02	1.46E 02	1.61E 02	1.78E 02	1.96E 02	2.17E 02	2.40E 02	2.656 02
31.5	*	1.11E 02	1.22F 02	1.34E 02	1.47E 02	1.628 02	1.78E 02	1.97E 02	2.17E 02	2.40E 02	2.66E 02
32.0	*	1.11E 02	1,22E 02	1.34E 02	1.47E 02	1.62E 02	1.79E 02	1.97E 02	2.18E 02	2.41E 02	2+666 02
32.5	*	1.12E 02	1.228 02	1+34E 02	1.48E 02	1.62E 02	1.798 02	1.97E U2	2.18E 02	2.41E 02	2.67F J2
33.0	*	1.12E 02	1.23F 02	1.35E 02	1.48E 02	1.63E 02	1.79E 02	1.98E 02	2.19E 02	2.42E 02	2.67F U2
33+5	*	1.12E 02	1.23C 02	1.35E 02	1.48E 02	1.63E 02	1.80E 02	1.98E 02	2.19E 02	2.42E 02	2+68(02
34.0	*	1.13E 02	1.23E 02	1.35E 02	1.49E 02	1.64E 02	1.80E 32	1.99E 02	2.19E 02	2.426 02	2.68E 02
34.5	*	1.13E 02	1.24E 02	1.36E 02	1.49E 02	1.64E 02	1.81E 02	1.99E 02	2.20E 02	2.43E 02	2.690 02
35.0	*	1.13E 02	1.24E 02	1.36E 02	1.50E 02	1.64E 02	1.81E 02	2.00E 02	2.20E 02	2.43E 02	2.69E J2
35.5	*	1.14E 02	1.25E 02	1.37E 02	1.50E 02	1.65E 02	1.816 32	2.00E 02	2.21E 02	2.44E 02	2.701 02
36.0	*	1.14E 02	1.25F 02	1.37E 02	1.50E 02	1.658 02	1.82E 02	2.00E 12	2.21E 02	2.44E 02	2.70E 02
36.5	*	1.14E 02	1.25E 02	1.37E 02	1.51E 02	1.666 02	1.82E 02	2.01E 02	2.22E 02	2.458 02	2.71F 02
37.0	*	1.15E 02	1.26E 02	1.38E 02	1.510 02	1.66E 02	1.83E 02	2.01E J2	2.22E 02	2.45E 02	2.71E 02

******* ALPHA	***	******	***	*****	****	*****	⊧ D	TABLE	10.	14 FOR	САВ	INET D	или	G ****	****	*****	****	*****	***	*****	* * * *
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SQ INZ	IN=	3.16E	02	3.55F	05	3.98⊏	02	4.476	02	5.01E	02	5.62E	٥c	6.31E	02	7.08E	02	7.94E	0.5	8.915	.2
******	***	******	***	****	** * *	*****	** * *	*****	****	******	****	*****	****	******	****	*****	****	*****	****	*****	
•••	*	2.61E	02	2.93F 2.93E	02	3.28E 3.29E	20	3.68E 3.69E	02	4.13E 4.14E	02					5.84E 5.85F	02			7.35r	
0.5	*	2+61E 2+62E		2.93E 2.94f		3.29E 3.30E		3.69E 3.70E		4+14E 4+15E		4•64L 4•65E		5•21E 5•22E		5.85E		6.56E 6.56E		7.36C 7.36	
1.5	*	2.63E		2.951	05	3.30E	02	3.70E	02	4 • 15E	02	4.66E		5.22E	05	5.86E	02	6.57E		7.376	.2
2.0	*	2.63E	02	2.95E	02	3.31E	02	3.71E	02	4 • 165	02	4.665	02	5•23E	v5	5.86E	02	6+58E	02	7.38C	95
2.5	*	2.64E	02	2.960	02	3.31E	02	3.71+	02	4.16E	02	4.675	02	5.24E	02	5.876	02	6.58E	02	7.38E	12
3.0	*	2.645		2.96F		3.326		3.72±		4 • 17E		4 . 675		5.24F		5.88E		6.59E	02	7.39t	÷2
3.5	*	2.65E 2.66E		2+97E		3.33E 3.33E		3.73C 3.73E		4.18E 4.18E		4•68E 4•69E	02	5+25E 5+25E		5.88F 5.89E		6.59E 6.60⊦		7.395	
4.0 4.5	*	2.668		2.97E		3.33E 3.34E		3.73E		4 • 18E		4+69L 4+69E		5.20E		5+89E 5+89E		6.61E		7.40E	
5.0 5.5	*	2.67E 2.67E		2.99E 2.99E		3.34E 3.35E		3.74L 3.75E		4 • 19E 4 • 20E		4 • 70F 4 • 70E		5.26E 5.27E		5.90E		6.61t 6.62E		7.41F 7.42E	ງ2 2
6.0	*	2.68E	02	3.00E	02	3.36E		3.76E		4.21E		4.716		5+28E		5.91E	02	6.62E	52	7.42c	
6.5	*	2+69E		3.00F		3.36E		3.765		4.21E		4 • 72E		5+28E		5.92E	02	6.63E		7.43E	32
7.0	*	5•69E	02	3.01E	02	3.37E	02	3.77E	02	4.22F	02	4 • 72E	02	5.29F	35	5.92E	02	6.64E	02	7.445	02
7.5	*	2.70E		3.028		3.37E	02	3.77E		4.22E	02	4.73E		5,298		5•93E	02	6.64E		7.44	
8.0	*	2.70E		3.028		3.38F	02	3.78E		4.23E	02	4.73E	02	5.30E		5.94E	02	6.65E		7.450	
8.5	*	2.71E 2.71E	02	3.03E 3.03E	02	3.38E		3.79E		4.24E		4 • 74E		5+31F		5.94E 5.95E		6.65E		7.45F	
9.5	*	2.72E		3.04F		3.40E		3.80E		4.25E		4.751		5.32E		5.95E	02	6.67E		7.47E	
10.0 10.5	*	2.72E 2.73E		3.04F 3.05E		3.40E 3.41E		3.80E 3.81E		4.25E 4.26E		4 • 76E 4 • 76€		5.32E 5.3JE		5.96E 5.96E	02	6.67E 6.68E	02	7.47E 7.48E	
11.0	*	2.74L		3.05E	02	3.41E	02	3.81E	02	4.26E	02	4.771.	02	5.34E		5.978	02	6.686	02	7.480	32
11.5	*	2.74E		3.065		3.42E		3.82E	02	4.27E		4.77E		5.34E		5.98C		6.69E	02	7.49⊦)?
12.0	*	2.75E	02	3.076	02	3.425	02	3.82E	02	4•28E	02	4 • 7 BC	02	5.35E	02	5.98E	02	6•69E	02	7•49f	12
12.5	*	2.75E		3.070		3.43E		3.83E		4.28E		4.79E		5.35E		5.99E		6.70E		7.500	
13.0	*	2.76E		3.08E 3.08E	02	3.43E 3.448	02	3.84£ 3.84£	02	4.29E	02	4.79F 4.80E	02	5.36E 5.36E	35	5,99E 6.00E	02	6.71E		7.51L 7.51E	
14.0	*	2.775		3.08E	02	3.44C 3.45E	02	3.85E	02	4.29E	02	4.805	32	5.30E		6.016		6.71E		7,526	
14.5	*	2.77E	05	3.09E	02	3.45E	02	3.85%	02	4.30E	02	4.810	95	5+388	95	6.01F	02	6.72E	20	7.521	52
15.0	*	2.78F	02	3+10F	02	3.46E	02	3.86E	02	4.31E	02	4.810	02	5.38E	62	6.025	02	6•73E	95	7+53F	.2
15+5	*	2.78E	02	3.10E	02	3.46E	02	3.86E	02	4.31E	02	4,82f.	02	5+39E	02	6.020	02	6.74C	02	7.546	12
16+0 16+5	*	2.79E 2.80E		3.11E		3.47E 3.47E	02	3,87E 3,87E	02	4.32E 4.33E		4.83C 4.83E	02	5.39E	25	6.03E 6.03E	02	6.74E 6.75E		7.541	22
10.5	* *	2.80E		3+11E 3+12E		3.47E 3.48E		3.875		4.33E		4.83E		5.40E 5.40E	02	6.04E	02	6.75E		7.55E 7.65E	75
								D TAI	ιε	ND. 14	CON	TINUED									
17.5	*	2•81E	0.2	3.13F	0.2	3.48E	02	3.89E	0.2	4•34E		4.848		5.41E		6.04E		6.76E	0.3	7.56	
18.0	*	2.81E		3.135	02	3.49E	02	3.89E		4.34E		4.85E		5+41E		6.04E		6.76E	32	7.565	
18.5	*	2.82E	02	3.14E		3.49E	02	3.902	02	4.35E	05	4.85E		5.42E		6.06C		6.77E		7 . 576	
19.0	*	2.82E 2.83F		3.14E 3.15C		3.50E 3.51E		3.90E 3.91E		4.35E 4.36E		4.86E 4.86E		5.43E 5.43E		6.06E 6.07E		6.78E 6.78E		7.58F 7.58F	
												4.000	ν£	5.450	C R			0.705	υz	7.00	14
20.0	*	2.83E 2.84E	50	3.150		3.51E	02	3.91E	02	4.36E	02	4.872		5.44E		6.078	02	6.79E		7.59E	
20.5 21.0	*	2.846		1.16E 3.16E	02	3.52E 3.52E	02	3.92E 3.92E	02	4.37E 4.37E	02	4.88£ 4.88£	35	5.44E 5.45E	02	6.08É 6.08É	02	6+79E 6+80E	02	7.59F	
21.5	*	2.85E	02	3.17E	02	3.53E	02	3.935	02	4.38E	02	4.89E	35	5+45E)5	6.09E	02	6.80E		7.605	
22.0	*	2.85E	35	3.17E	02	3.53E	02	3.93E	02	4.39E	02	4 • 89E	02	5.46E	95	6.10E	05	6•81E	05	7.61E	05
22.5	¥	2.86E	02	3.18E	02	3.54E	02	3.945	02	4.39E	02	4.90E	32	5.46E	12	6.10E	02	6.81E	02	7 • 62f	υ2
23.0	*	2.86E		3.18E	02	3.54E		3.95E		4.40E	95	4.90E		5•47E	32	6.11E	02	6.82E	62	7.621	JS -
23.5 24.0	*	2.87E 2.87E		3.19E 3.19E		3.55E 3.55E		3.95E 3.96E		4.40E 4.41E	02	4.91E 4.91E	02	5.48E 5.48E	02	6.11E		6.83E 6.83E	02	7.63E	
24.5	*	2.88E		3.20E		3.56E		3.968		4+41E	02	4.92E		5+49E		6.12E		6.84£		7.64E	
				3 000		3.56E	• •	7 075					• •								
25.0 25.5	*	2.88E 2.89E		3.20E 3.21E		3.50E 3.57E		3.97E 3.97E		4.42E 4.42E		4.92E 4.93E	25	5.49E 5.50F	32	6.13E 6.13F		6+84E 6+85E		7+64t. 7+65t	
26.0	*	2+89E	02	3.218	02	3.57F	02	3.98E	02	4.43E	02	4.94E	32	5.50F	02	6.14E	02	6+85E	20	7.656	-12
26.5 27.0	*	2.90E 2.90E	02	3.22E		3.58E 3.58E	02	3.98E 3.99E	02	4.43E 4.44E	02	4.94E 4.95F		5.51E		6.158		6.86E		7.668	
27.00	•	7.90E	02	3466E	02	3.000	02	34995	02	4 • 4 4 (;	02	4.95F	02	5.515	02	6.15C	02	6+87E	0.2	7.67F	02
27.5	*	2.91E		3.23E		3.59E		3.99F		4.44E		4.95E	02	5.526		6.16E	02	6.876		7.67E	
28.0 28.5	*	2.91E 2.92E		3.23F 3.24E		3.59E 3.60E		4.00E		4.45E 4.46E		4.96E 4.96E	02	5.52E 5.53E		6.16E		6.88E 6.88E		7.68E	
29.0	*	2.92E	02	3.24F	02	3.60E	02	4.0UE 4.01E	02	4.46E	02	4.97E	02	5.53E		6.17E		6.88E 6.89E		7•68E 7•69E	
29.5	*	2.93E		3.25E		3.61E		4.01E		4.47E		4.97E		5.54E		6.18E	02	6.89E	02	7.69F	02
30.0	*	2.93E	02	3.25E	02	3.61E	02	4.02ĉ	02	4.47E	02	4.98E	25	5.55E	12	6.18E	02	6.90E	0,	7.705	02
30 + 5	*	2.94E	02	3.26E	02	3.62E	02	4.02E	02	4.48E	02	4.98L	35	5.55F	02	6.19E	02	6+90E	32	7.70E	
31.0 31.5	*	2.94E 2.95E	02	3.26E 3.27E	02	3.62E 3.63E	02	4.03E 4.03E	02	4.48E 4.49E	02	4.99E 4.99E		5.56E 5.56E		6.19E 6.20E	02	6.91E		7.71t	
32.0	*	2.95E		3.27E		3.63E		4.036		4.49E		4.99E 5.00E		5.50E		6.20E		6.91E 6.92E		7.72E 7.72E	
32.5 33.0	*	2.96E 2.96E		J.28E 3.28E		3.64E 3.64E		4.04E 4.05E		4.50E 4.50F		5.00E 5.01E	02	5+57E 5+58E		6.21F		6.93E 6.93E		7.73C 7.73C	
33.5	*	2.97E	02	3.295	02	3+65E	02	4.058	20	4.51E	02	5.01E	02	5.58E	52	6.22E	02	6+94E	02	7.74E	
34.0 34.5		2.97E 2.98E		3.29E 3.30E-		3.65E 3.66E		4.06E		4.51E 4.52E		5.02f. 5.02E		5.59E		6.23E	02	6.94E	02	7.74	
3443	*	7.190E	v2	3.30F	¥2	34000	νZ	++000	02	4.025	12	3•02E	52	5•59E	12	6•23E	02	6.95E	02	7.75E	95

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L INCHES (DOWN) ******** 0.0 * 8.25E 02 9.26F 02 1.04E 03 1.17E 03 1.31E 03 1.47E 03 1.65E 03 1.85C 03 2.07E 03 2.33E 03 8.266 02 9.26E 02 1.04E 03 1.17E 03 1.31E 03 1.47E 03 1.65E 03 1.85E 03 2.07E 03 2.33E 03 0.5 * 1.0 * 8.266 02 9.276 02 1.046 03 1.17E 0.3 1.31E 03 1.476 03 1.656 0.3 1.85E 03 2.07E 03 2+33E 03 1.5 * 8.27F 02 9.275 02 1.04E 03 1.17E 03 1.31E 03 1.47E 03 1.65E 03 1.85E 03 2.07E 03 2.33E 03 8.27E 02 2.33E 03 2.0 9.285 02 1.04E 03 1.17E 03 1.31E 03 1.476 03 1.65E 03 1.85E 0.3 2.07E 03 1.04E 03 1.17E 03 1.47E 03 1.65E 03 1.85E 03 2.08E 33 2.336 03 2.5 * 8.28E 02 9.29E 02 1.31F 03 * 8.29E 02 9.29E 02 1.04E 03 1.17E 03 1.31E 03 1.47E 03 1.65E 03 1.85E 0.3 2.08E 03 3.0 2.336 03 9.306 02 1.17E 03 1.31E 03 3.5 * 8.29E 02 1.04E 03 1.85E 03 2.08E 11 2.33E 03 9.30F 02 1.04E 03 1.17E 03 1.31E 03 1.4/E 03 1.65E 03 1.85E 03 2.08E 03 2.338 03 8.30E 02 4.0 4.5 * 8.306 02 9.310 02 1.04E 03 1.17E 03 1.318 03 1.47E 03 1.656 03 1.85F 03 2.08E 03 2.33E 03 1.31E 03 5.0 8.31E 02 9.32E 02 1.04E 03 1.17E 03 1.47E 03 1.65E 03 1.85E 03 2.08E 03 2.33F 03 5.5 * 8.32E 02 8.32E 02 9.32F 02 1.05E 03 1.05E 03 1.17E 03 1.17E 03 1.31E 03 1.31E 03 1.47E 03 1.47E 03 1+65F 03 1+65E 03 1.85E 03 2.08E 03 2.33E 03 1.85E 03 2.08E 03 2.33E 03 6.0 1.47E 03 * 8.33E 02 9.33E 02 1.05E 03 1.17E 03 1.32E 03 1.65E 03 1.85E 03 2.08E 01 2.336 03 8.33E 02 9.34E 02 1.05E 03 1.17E 03 1.32E 03 1.486 03 1.86E 03 2.08E 03 2.33E 03 7.0 * 1.65E 03 1.05E 03 7.5 8.34E 02 0.35F 02 1.175 03 1.326 03 1.48E 03 1.66E 03 1.865 03 2.08E 03 2.33E 03 * 1.86E 03 2.08E 03 2.33E 03 8.35E 02 9.35F 02 1.05E 03 1.17E 03 1.32E 03 1.48F 0.3 1.66E J3 1.66E J3 8+0 * * 8.35E 02 9.361 02 1.05E 03 1.18E 03 1.32E 03 1.48E 03 1.86E 03 2.08E 03 2.34E 03 8.5 1.48E 03 2+08E 03 9.0 * 8.36E 02 9.366 02 1.05E 03 1.18E 03 1.32E 03 1.66E 03 1.86E 03 2+341 03 9.37F 02 1.05E 03 1.18E 03 1.326 03 1.488 03 1.66E 03 1.86E 03 2.08E 03 2.34F 03 ¥ 9+5 8.365 02 8.37E 02 1.05E 03 1.186 03 1.32F 03 1.48E 03 1.66E 03 1.86E 03 2.08E 03 2.34L 03 10.0 9.386.02 1.66E 03 9.38E 02 1.05E 03 1.18E 03 1.32E 03 1.48E 03 1.86E 03 2:08E 03 2:34E 03 10.5 8.38t 02 11.0 * 8.38E 02 8.39E 02 9.39E 02 9.39E 02 1.05E 03 1.18E 03 1.32E 03 1.480 03 1.86E 03 2.09E 03 2.34E 03 1.05E 03 1.32E 03 1+181. 0.3 1.48E 03 1.66E 03 1.86F 03 2.09E 03 11.5 2.34F 03 12.0 * 8.39E 02 9.405 02 1.05E 03 1.18E 03 1.32E 0.3 1.48E 03 1.665 03 1.86E 03 2.09E 03 2.348 03 1.05E 03 1.18E 03 1.32E 03 1.48E 03 8.40E 02 9.41E 02 1.666 .33 1.86E 03 2.09E 03 2.34E 03 12.5 * 2.09E 03 2.34c 03 13.0 * 8.40E 02 9.41F 02 1.05E 03 1.18E 03 1.32E 03 1.48E 03 1.66E 03 1.86E 03 1.32E 03 1.48E 0.3 1.66F 03 1.86E 03 2.09F 03 2.J4F 8.41E 02 9.425 02 1.05E 03 1.18E 03 13.5 1.66E 33 1+86E 03 2+09E 03 2+34F 63 14.0 * 8.42E 02 9.42E 02 1.06E 03 1.18E 03 1.32E 03 1.48E 03 2.345 03 9.43F 02 1.32E 03 1.48E 03 1.668 03 1.86E 03 2.09E 03 14.5 * 8.42E 02 1.06E 03 1.18E 03 9.44E 02 9.44E 02 15.0 * 8.43E 02 1.06E 03 1.18E 03 1.43E 03 1.498 03 1.665 33 1.86E 03 2.09E 03 2.34E 03 1.066 03 1.18E 03 1.33E 03 1.49E 03 1.66E 03 1.87E 03 5.09E 01 2.345 03 8+43E 02 15.5 9.45E 02 9.45E 02 1.49E 03 8.44E 02 1.06E 03 1.18E 03 1.33E 03 1.67E 03 1.87E 03 2.09E 03 2.345 03 16+0 1.198 03 1.338 03 1.67E 33 1.87E 03 2.09E 01 2.34E 03 16.5 8.45E 02 1.06F 03 8.45E 02 9.46E 02 1.06E 03 1.19E 03 1.336 63 1.496 0.3 1.676 03 1.87E 03 2+0912 03 2.35 03 17.0

D TABLE NO. 15 CONTINUED.

17+5	*	8.46E 02	9.46E 02	1.06E 03	1.19E 03	1,33E 03	1.49E 03	1.67E 03	1.87E 03	2.09L 03	2+356:03
18.0	*	8.46E 02	9.47E 02		1.196 03	1.33E 03	1.49E 03	1.67E 03	1.87E 03	S+09E 03	
18.5	*	8.47E 02	9.48E 02		1+19E 03	1.330 03	1.498.33	1.67E 03	1.876 03	2.09E 03	2.35 63
19.0	*	8.47E. 02	9.486 02		1+19E 03	1.336 03	1.498 03	1.67E 03	1.87E 03	2.100 03	2.350 03
19.5	*	8.48E 02	9.49E 02		1.19E 03	1.33E 03	1.49E 03	1.676 03			2,356 03
				1.002 05	10192 05	11331 03	11496 03	1.076 03	1.87E 03	2.10E 0J	2.356 03
20.0	*	8.49E 02	9.49F 02	1.06E 03	1.19E 03	1.33E 03	1.49E 03	1.676 03	1.87E 03	2.10F 03	2.350 03
20.5	٠	8.49E 02	9.508 02	1.06E 03	1.19E 03	1.33E 03	1.495 03	1.67E 03	1.87E 03	2.10E 01	2.35F C3
21.0	*	8,50E 02	9.50E 02	1.06F 03	1.19E 03	1.33E 03	1.44E 03	1.670 03	1+87E.03	2.105 03	2.356 03
21+5	*	8.50F 02	9.516 02		1.19E 03	1.336 03	1.496 03	1+67E 03	1+87E 03	2.105 03	2.35F 03
22.0	*	8.51E 02	9.525 02	1.06E 03	1.19E 03	1.336 03	1,496 03	1.67E 03	1.87E 03		
									1.076 03	2.10E 03	2.151-03
22.5	*	8.51E 02	9.52E 02	1.07E 03	1.19E 03	1.336 03	1.496 03	1.67E J3	1.87E 03	2.101. 03	2.357 03
23.0	*	8.52E U2	9.538 02	1.07E 0J	1+19E 03	1.33F 03	1.496 03	1.67E 03	1.87E 01	2.106 23	2.356 0.3
23.5	*	8.53E 02	9.535 02	1+07E 03	1.19E 0.3	1.J4E 03	1.507 03	1.67E U3	1.888 03	2.100 01	2.15F 03
24.0	*	8,53E 02	9.548 02	1.07E 03	1.198 03	1.34E 03	1.50E 03	1.67E 03	1.88E 03	2.10E 01	2.150 03
24.5	*	8.54E 02	9.541 02	1.07E 03	1.195 03	1.34E 03	1.50E 03	1.68E 33	1.88E 03	2.100 03	2.35E 03
											2.4032 00
25.0	*	8.54E 02	9.55t 02	1.07E 0.3	1.19E 03	1.34E 03	1.50E 03	1.686 03	1.88E 03	2.106 03	2.36E 03
25.5	*	8.55E 02	9.56E 02	1.07E 03	1.20E 03	1.34E 03	1.50F 03	1.688 03	1.88E 0.3	2.106.93	2.36E J3
26.0	*	8.55E 0?	9.56F 02	1.07E 03	1.20E 03	1:34E 03	1.506.03	1.68E 03	1.886 03	2.10E 01	2.36F 03
26.5	*	8.56E 02	9.57E 02	1.07E 03	1.20E 03	1.34E 03	1.501.03	1.68E 03	1+886 03	2.10E 03	2.361.03
27.0	*	8.57E 02	9.57E 02	1.07E 03	1.202 03	1.34E 03	1.50E 03	1.68E 0.3	1.886 03	2.105 03	2.365.03
											eroun ou
27.5	*	8.57E 02	9,581 02	1.078 03	1.206 03	1.34E 03	1.50E 03	1.68E 03	1:88E 03	2.111 01	2.365 03
28.0	*	8.58£ 02	9.58E 02	1.07E 03	1.20t 03	1.34E 03	1.50E 03	1.68E 03	1.88E 03	2.11E 03	2.365 03
28.5	*	8.58E 02	9.59F 02	1.07E 03	1.20L 03	1.34E 03	1.501 03	1.68E 03	1.885 0.5	2.116 03	2.361 03
29.0	*	8.598 02	9.608 02	1.07E 03	1.20E 03	1.34E 0.3	1.506.03	1+68E 03	1.88E 03	2.11E 03	2.361 01
29.5	*	8.59E 02	3.63E 02	1.07E 03	1.20E 03	1.34F 0.3	1.50E 03	1.68F 03	1.88E 03	2.116 03	2.366 (3
30.0	*	8.60L 02	010105	1.07E 03	1.20E 03	1.34E 03	1.50E 03	1.68E 03	1.88E 33	2-11L 03	2.36L 03
30.5	*	8.60E 02	9,611 02	1.07E 03	1.20E 03	1.346 03	1.50E 03	1.68E 03	1.88E 0.3	2.11E 03	2:365 03
31.0	*	8.61F 02	9.655 05	1.07E 03	1.20E 03	1.34E 03	1.50E Q3	1.68E 03	1.88E 03	2+11E 03	2.36E C3
31.5	*	8.626 02	9.628 02	1.08E 03	1.20E 03	1.34E 03	1.50E 03	1.68E 03	1.88E 03	2.11F 33	2.36F 03
35.0	*	8.62E 02	9.63E 02	1.08E 03	1.20E 03	1.35E 03	1.50E 03	1.68E 03	1+88E 03	2.11-03	2.165 01
32.5	*	8.63E 02	9.64E 02	1.086 03	1.20± 03	1.35E 03	1.512 03	1.68E 03	1.891 03	2.116 03	2.366 03
33.0	*	8.63E 02	9+64E 02	1.08E 03	1.20E 03	1.35C 03	1.518 03	1.69E 03	1.89E 03	2.11F 03	2.36F 03
33,5	×	8.648 02	9.65F 02	1.08E 0.3	1.20E 03	1.35E 03	1.51E 03	1.69E 03	1.896 03	2.116 01	2.371. 03
34.0	*	8.64E 02	9.65E 02	1.08E 03	1.21E 03	1.35E 03	1.510 03	1.698 03	1.898 03	2.116 01	2.371. U3
34.5	*	8.65E 02	9.668 02	1.08E 03	1.21E 03	1.35F 03	1+51E 03	1+69E 03	1.89E 03	2.116 03	2.37E 93
35.0	*	8.65E 02	9.66⊢ 02	1.08E 03	1.210 03	1.358 03	1.510 03	1+69E 03	1.896 03	2.110 03	2.376 01
35.5	*	8.668 02	9.67E 02	1.08E 03	1.216 03	1+35E 03	1.511 03	1+69E 03	1+89E 03	2.111. 03	2.37. 03
36.0	*	8.67E 02	9.67E 02	1.08E 0.3	1.21E 03	1.35E 03	1.51F J3	1.69E 03	1.898 03	S*15E 03	2.375.03
36.5	*	8.67E 02	9.681 02	1.082 03	1.21E 03	1.156 03	1.51E 03	1.69E 01	1.89E 0.3	2.126 03	2.370 03
37.0	*	8.686 02	9.696 02	1.08F 03	1.216 03	1.350 03	1.518 03	1.69E 0.3	1.89E 03	2.12E 03	2.371 03
										conce of	

******	***	*****	****	*****	****	******	***	******	***	*****		******	*****	*****	*****	******	****	******		******	***
0.0	*	2.61E 0	3	2.93E	03	3.28E	03	3.686	03	4.13E	03	4.64E	6 О	5.20E	03	5.84E	03	6.556	6 B D	7.356	03
0.5	*	2.615 0	Е	2.93E	03	3+28E	03	3.69E	03	4.14E	03	4.64E	0.3	5.21E	03	5•84E	03	6.55E	63	7+35C	0.3
1.0	*	2.61E 0		2+93E		3.29E		3.69E		4 . L4E		4+64E		5,216		5.84E		6.555		7.356	
1.5	*	2.61E 0		2.93E		3.29E		3.696		4.14E		4.64E		5.21E		5.84E		6.556		7.35E	
2.0	÷	2.616 0		2.93E		3.29E		3.69E		4.14F		4.64F		5.215		9.84E		6.56L		7.352	
					0			3.075			• •	4.040	0.0				0,	0.000	0.4	, about	0.5
2.5		2.61E 0		2.93E	63	3.29E	03	3,69E	03	4.14E	FО	4.64E	03	5.21E	03	5.84E	• •	6.56E	0.1	7.36E	6.3
3.0	÷	2.61E 0		2.936		3.29E		3.69E		4.14E		4.640		5.21C		5.84E		6.56E		7.366	
3.5	÷	2.61E 0		2.93E		3.29E		3.69E		4.14E		4.64E		5,216		5+84E		6.56E		7.360	
4.0	-	2.61E 0		2.93E		3.29E		3.69E		4.140		4.641		5.210		5+84E		6+56E			
																				7.16E	
4.5	*	2.61E 0	3	2.93E	0.5	3.29E	03	3.69E	03	4.14E	0.3	4.641	0.5	5,210	03	5•89E	03	6.561	0.3	7.161	05
5.0	*	2.61E 0		2.93E	A 3	3.29E	~ 7	3.69E	0.7	4.14E	A 7	4.64E		5.21L		5+85E	• •	6.56E		1 365	
5.5	÷	2.62E 0		2.93E		3.29E		3.69E		4.14E		4.646		5.210		5+85E		6.56E		7.36E	
	*	2.62E 0		2.93E		3.29E		3.69E		4 • 14E				5.216						7.366	
6.0												4.65F				5.858		6.568		7.361	
6.5	*	2.62E 0		2.93E		3.29E		3.69E		4.10E		4.65C		5.216		5•85E		6.56E		7 . 36L	
7.0	*	2.62F 0	3	2.94E	03	3.296	03	3.69E	03	4.14	03	4.65E	03	5+21E	03	5•85E	0.3	6.56E	03	7.36E	63
			-	0.015		7 900		3 605								- 000					
7.5 8.0	*	2.62E 0		2+94E		3.29E		3.69E		4.14E		4 • 65E		5,21E				6.560		7.36F	
	*	2.62E 0		2.94E		3.29E		3.69E		4.14E		4.6SE		5,216		5.85E		6.56E		7.36F	
8.5	*	2.62E 0		2.94E		3.29E		3.70E		4.L4E		4.65E		5.22E		5.85E		6.56		7.36E	
9.0	*	2.62E 0		2.946		3.29E		3.70E		4.15E		4.658		5.22E		5.85E		6+56E		7.36F	
9.5	*	2.628 0	9.3	2.94E	03	3.305	03	3.70E	03	4.15E	03	4.65E	03	2•55F	93	5.85E	03	6.56C	LΟ	7.36C	03
			-				• •														
10.0	*	2.62E 0		2+94C		3.30E		3.70E		4.15E		4.65E		5.22F		5.85E		6.560		7.36F	
10+5	*	2.62E 0		2,94E		3.30E		3.70E		4 • 15E		4.65E		5.225		5•85E		6.57E		7.36	
11.0	*	2.62E 0		2.94E		3.30E		3.70L		4 • 15E		4.65F		5.22E		5•85E		6.57E		7.37F	
11.5	*	2.62E 0		2.94E		3.30E		3.70E		4 • t5E		4.651		2°55E		5.85E		6.57E		7.376	
12.0	*	2.62E 0	ε (2•94E	03	3.30⊨	03	3.70E	03	4.15E	0 3	4.658	03	5.22E	0 3	5.85E	03	6.57E	03	7 + 376	03
12.5	*	2.62E 0		2.94E		3.30E		3.70E		4.15E		4.65E		5.22E		5+86E		6•57E		7.370	
13.0	*	2.62E 0		2.94C		3.30E				4.15E		4.65£		5.22E		5.862		6.57E		7.37L	
13.5	*	2.62E 0		2.94F		3.30E		3.70E		4 • 15E		4.66F		5.22F		5+86E		6•57E		7.37%	
14.0	*	2.63C 0		2.94E		3.30L		3.70É		4,15E		4.66E		5.22E		5.860		6.578		7.370	
14.5	*	2.63E 0	1.3	2.94E	03	3,30E	03	3.705	03	4.15E	03	4.66E	0.3	2.55	03	5.86E	03	6.57Ē	03	7.37F	υJ
										_											
15.0	*	2.63E 0		2.95E		3.30E				4.15E		4.66E		5,226		5,865		6•57E		7.37C	
15.5	*	2.63E 0		2.95E		3.30E		3.70E		4.158		4.66E		5.22E		5•86E		6.57E		7.370	
16.0	辛	2.63E 0		2.955	د ه	3.30E	03	3.705		4.15E	03	4.66E		5.22E		5+86E	03	6.57E		7.37E	03
16.5	*	2.63E 0		2.95E		3.30E		3.70L		4.15E		4.665		5,220		5+86E		6.37E		7.37F	
17.0	٠	2.63E 0	3	2.956	03	3.300	Q 3	3.71E	60	4.15E	03	4.66E	03	5.236	03	5+86E	0.3	6.57E	24	7.J7E	u3

D TABLE NO. 16 CONTINUED.

17.5	*	2.635 03	2.95E 03	3.316.03	3.71E 03	4.168 03	4.66E 03	5.23E 03	5.86F 03	6.57E 01	7.J7L 03
18.0	*	2.636 03	2.958 03	3.31E 03	3.71E 03	4.168 03		5.236 03			
							4.66E 03		5+86E 03	6.57E 01	7.37C 03
18.5	*	2.6JE 03	2.95C 03	3.316 03	3.71E 03	4.16E 03	4.66E 03	5.23E 03	5.86E 03	6.57E 01	7.371 01
19.0	٠	2.63E 03	2.95E 01	3.31E 03	3.71E 03	4.16E 03	4.66E 03	5.23F 03	5.86E 03	5.581:03	7.38E 03
19.5	*	2.63E 03	2.95E 03	3.31E 03	3.71E 03	4.16E 03	4.66E 03	5.23E 03	5.86E 03	6.58E 03	7.38F. 03
		20002 05		0.012 00		1.102 00	4.002 03	3.101 0.0	3.000 03	0.000 00	•••••
											-
50.0	*	2.63E 03	2.95E 03	3.31E 03	3.718 03	4.165 03	4.66E 03	5.23C 03	5.86L 03	6.58E 0.3	7.J8E 03
20.5	٠	2.63E 03	2.95E 03	3.316 03	3.71E 03	4.16E 03	4.668 03	5.23E 03	5.86E 0.3	6,58E 03	7.386 03
21.0	*	2.63E 03	2.956 03	3.31E 03	3.716 03	4.16E 03	4.66E 03	5.23E U3	5.87E 03	6.58E 33	7.386 03
21+5	*	2.63E 03	2.95E 03	3.31E 03	3.71E 03	4.16E 03	4.66E 03	5.23E 03	5+87E 03	6,586.03	7.385 03
55.0	*	2.64E 03	2.95E 03	3.318 03	3.71E 03	4.16E 03	4.67F 03	5.23E 03	5.87E 03	6.58E 01	7•38⊢ 03
22.5	*	2.64E 03	2.95t 0.1	3.318 03	3.71E 0.3	4.16E 03	4.67E 03	5.23E 03	5+870 03	6.58E 03	7.38F)3
23.0	*	2.64E 03	2.95F 03	3.31E 03	3.71E 03	4.16E 03	4.67E 03	5.23E 03	5.878 03	6.58E 0J	7.38E U3
23.5	*	2.64E 03	2.96F 03	3+31E 03	3.718 03	4.16E 03	4.671. 03	5.236.03	5.87E 03	6.58E 03	7.38L (1.
24.0	*	2.64E 03	2.96E 03	3.31E 03	3,715,03	4.16E 03	4.67E 03	5.23E 03	5.87E 03	6.58E 0J	7.30E 03'
24.5	*	2.64E 03	2.96E 03	3.31E 03	3.71E 03	4.16E 03	4.67⊢ 03	5.23E 03	5.87E 03	6.50E 03	7.38 03
25.0	*	2.645 03	2.965 03	3.31E 03	3.71E 03	4.16E 03	4.67E 03	5.246 03	5.87E 03	6.58E 03	7.38(.)4
25.5	*	2.64E 03	2.96E 03	3.31E 03	3 721 03	4.17E 03					
							4.675 03	5.240 03	5.87E 03	6.588 0.1	7.382 03
26.0	¥	2.64E 03	2.966 03	3.32E 03	3.72E 03	4 17E 03	4.67E 03	5.248 03	5•87E 03	6.58E 33	7.38C C3
26.5	*	2.64E 03	2.96E 03	3.32E 03	3.72E 0.3	4.176 03	4.675 03	5.24E 03	5.870 03	6.58£ 03	7.38E 03
27.0	*	2.64E 03	2,961, 03	3.32E 03	3,72E 03	4.17E 03	4.67E 03	5.24E 03	5.87E 03	6.59E)3	7.486 33
27.5	*	2.64E 03	2.961 03	3.32E 03	3.72E 03	4.175 03	4.671 03	5.24E 03	5.876 03	6.596 01	7.396 03
28.0	*	2.64E 03	2.96C 03	3.35E 03	3.726 03	4.17E 03	4.67F 03	5.240 03	5.87E 03	6.59E 01	7.395 03
28.5	*	2.64E 0.3	2.96E 03	3.32E 03	3.728 03	4.17E 03	4.67E 03	5+24F 03	5.87E 03	6.59E (J.)	7.39E 03
29+0	*	2.64E 0J	2.961 01	3.32E 03	3.726 03	4.176 03	4.678 03	5,24E 03	5.875 0.3	6.59E 03	7.39F 03
29.5	*	2.64E DJ	2.965 03	3.32E 03	3.726 03	4.176 03	4.670 03	5.24E 03	5.88F 03	6.598 01	7.395 03
2770				01012 00			Hore of		30001 05	0.00	/
		0 645 03	0.075.07	3 100 03	3 305 03	1 176 07		0.010.00			
30.0	卑	2.64E 03	2.960 03	3.32E 03	3.72E 03	4.17E 03	4.67E D.1	5.24E 03	5.88E 03	6.591. 03	7.39F)3
30.5	*	2.65E 03	2.966 03	3.32E 03	3.72E 03	4.176 03	4.68F 03	5.24E 03	5.88E 03	6.59E 01	7.39E 63
31.0	*	2.65E 03	2.96E 03	3.32E 03	3.72E 03	4.176 03	4.68E 03	5.24E 03	5.88F 03	6.595 03	7.391 .3
31.5	*	2.65E 03	2.96F 03	3.32E 03	3.72E 03	4+17E 03	4.688 03	5.24E 03	5.88E 03	6.596 03	7.392 03
32.0	*	2.655 03	2.97E 03	3.32E 03	3.72E 03	4.17E 03	4.68E 03	5.24E 03	5.885 03	6.59E 03	
2210		11000 03	1.772 03	34321 00	STILL VO	44116 00	41002 03	200200	3100E 05	04096 01	7.390 03 ,
32.5	*	2.65E 03	2.97E 03	3.32E 03	3.726 03	4 • 17E 03	4.68E 03	5.24[03	50 308. <i>c</i>	6.590 0.3	7.19(03
33.0	*	2.65E 03	2,971:03	3.32E 03	3,72E 03	4.17E 03	4.68E 03	5.24E 03	5.88E 03	6.59E 01	7.19E 03
33.5	*	2.656 03	2.97E 03	3.32E 03	3.72E 03	4.176 03	4.681 93	5.256 01	5.880 03	6.598 01	7.191.03
34.0	*	2.65E 03	2.97E 03	3.32E 03	3.73E 03	4.180 03	4.681 03	5.256 13	5.886 03	6+59E 13	
											7.396 03
34.5	*	2.65E 03	2.97E 03	3.33E 03	3.73E 03	4.186 03	4.681 01	5.2SE 03	5,88E 03	6.598 03	7.39(03 👔
35.0	*	2.65E 03	2.97E 03	3.33E 03	3.73E 03	4.185 03	4.68E 03	5.25F J3	5.888 03	6.590 03	7.396 (3
35.5	*	2.651 03	2.97E 03	3.330 03	3.73E 03	4.18F 03	4.681 03	5.25E 03	5.88F 0.1	6.60E 0J	7.39F J3
36.0		2.65E 03									
	*		2.97E 03	3.338 03	3.736 03	4.18E 03	4.68F 03	5.25E 03	S.88E 03	6.60E CJ	/•40= 03
36.5	*	2.65E 03	2.976 03	3.33E 03	3.730 03	4.18E 03	4.686 03	5.25E 03	5,88E 03	6.60E)3	7.40F J1
37.0	*	2.65E 0.3	2.970 03	3.330 03	3.73F 03	4.18E 03	4.681.03	5,258 03	5.88E 03	6.60E 03	7.401 03