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# **Heat Transfer and Pressure Drop Measurements with Roughened Single Pins Cooled by Various Gases**

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## Abstract

The results from heat transfer and pressure drop measurements at three single rods with artificially roughened surfaces are reported. The experiments were performed with three different gases (helium, nitrogen and air) as coolants in three outer shrouds with different diameter. The Reynolds number range was  $3 \cdot 10^3 < Re < 5 \cdot 10^5$  and the highest temperature ratio between wall and coolant was 2.5.

The friction factors and Stanton numbers were transformed to the boundary conditions of the rough wall by different methods. In addition to the methods known from the literature a new method is proposed, which is based on a consistent application of non-dimensional logarithmic profiles for velocity and temperature.

All results are correlated with sufficient accuracy. The effect of variable gas properties on heat transfer at rough surfaces can be described by empirical correlations similar to those for smooth tubes known from the literature. The ratio of wall temperature to gas temperature has a stronger effect on the Stanton number for helium as coolant than for nitrogen and air.

# Wärmeübergangs- und Druckverlustmessungen an rauhen Einzelstäben mit verschiedenen Kühlgasen

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## Zusammenfassung

Dieser Bericht enthält die Ergebnisse von Wärmeübergangs- und Druckverlustmessungen an drei Einzelstäben mit künstlich aufgerauhter Oberfläche. Die Untersuchungen wurden mit drei Gasen als Kühlmittel (Helium, Stickstoff und Luft) in drei verschiedenen Außenrohren durchgeführt. Die Messungen erstrecken sich über einen Reynolds-Bereich von  $3 \cdot 10^3$  bis  $5 \cdot 10^5$  und bis zu Verhältnissen von Wand zu Gastemperatur von 2.5.

Die Meßergebnisse für Reibungsbeiwerte und Stantonzahlen wurden mit verschiedenen Methoden auf die Randbedingungen der rauhen Wand transformiert. Hierzu wird neben den aus der Literatur bekannten Verfahren auch eine neue Methode vorgeschlagen und verwendet, die auf der konsistenten Anwendung dimensionsloser Profile für Geschwindigkeit und Temperatur basiert.

Alle Meßergebnisse können mit hinreichender Genauigkeit korreliert werden. Dabei zeigt sich, daß der Einfluß der Temperaturabhängigkeit der Stoffwerte auf den Wärmeübergang auch bei rauhen Oberflächen durch aus der Literatur bekannte empirische Beziehungen beschrieben werden kann. Für Helium als Kühlgas hängt die Stantonzahl stärker vom Verhältnis Wandtemperatur zu Gastemperatur ab als für Stickstoff und Luft.

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## 1. Introduction

A few years ago measurements were performed on a rod bundle of 19 rods with surfaces roughened by transverse square ribs /1/. The experimental results were used for comparison with results computed by the SAGAPO-code /2/. A good agreement between experimental and computed results was obtained /3,4,5/ using roughness parameters of the laws of the wall for the velocity and temperature distributions according to the general correlations of /6/. The general correlations are based on numerous experimental investigations on roughened surfaces mainly obtained by roughened rods contained in a smooth outer tube forming a rough/smooth annulus. The experimental results of those investigations, mainly with air as the coolant, have to be transformed to be applicable in roughened rod bundles, a case for which in the central sub-channels the flow is facing only roughened surfaces. Since the general correlations correlate the roughness parameters averaged over many different roughened surfaces including fabrication tolerances, rounding of the ribs etc., and measured in different laboratories, it was felt desirable to test some of the single rods of the 19-rod bundle in smooth outer tubes in order to test the transformed results directly in the computer code against the experimental results of the cluster. Moreover, recent experimental results of one roughened rod tested with different gases showed that the effect of variable properties on the Stanton numbers is different for different gases /7/. Therefore, it was decided to perform experiments with various gases: air, nitrogen and helium, which was used as a coolant for the experiments with the cluster.

Some of the results with air as a coolant were published previously /8/, however, the results are re-evaluated and included in this report.

## 2. Experimental Setup

The experiments were performed with three different roughened rods (see Table 1) of 18.37 mm volumetric diameter:

- rod 18 with rounded tips of the ribs
- rod 19 sharp ribs, but shorter than rod 18 and 20
- rod 20 sharp ribs.

Three different smooth outer tubes were used with

- 33.565 mm - 40.4 mm - 50.0 mm I.D.

The experimental apparatus for the tests with air as coolant was the same as for the experiments in /6,7/. The tests with helium and nitrogen were run in the high pressure helium loop /1,7/, however the test section was inside the pressure tank contrary to the tests of /7/. Thus, heat losses from the test section are practically zero (Fig.1). The instrumentation with pressure tappings and thermocouples of the rough rods and the outer tubes is shown in Fig.2-4.

## 3. Evaluation of Bulk Measurements

The experimental data were punched on tape and were evaluated with the computer code AURIS. The main features of this code are described in /6/ and /8/.

For the determination of the true surface temperature of the rough rods two corrections to the thermocouple readings were applied. Since the position of the thermocouple junctions ( $r_M$ ) is below the surface, the temperature reading is too high. A correction is made by taking account of the heat conduction in radial direction

$$\int_{T_{WM}}^{T_W} k_c(T) dT = \frac{qr_1}{k_c(r_1^2 - r_i^2)} \left( \frac{r_1^2 - r_M^2}{2} + r_i^2 \ln \frac{r_M}{r_1} \right) \quad (1)$$

with the thermal conductivity of the casing

$$k_c = 8.223 + 0.015823 T \quad (\text{from } /3/)$$

and  $r_1$  being the outer radius of the rough rod, which is in fact a tube with an outer rough surface, and  $r_i$  being the inner radius of the tube. For the present case we get:

$$T_W = (270074 + 1039.37 T_{WM} + T_{WM}^2 - 0.049531 q)^{1/2} - 519.68 \quad (2)$$

Another correction is necessary because of the so-called "fin efficiency effect"/22/ of rough surfaces. The following correction formula was applied /3/, which is however of limited validity and accuracy:

$$T_{WC} = (T_W - T_B)k_\infty + T_B \quad (3)$$

with  $k_\infty = 1 - 0.4 Bi$

and  $Bi = \frac{qh}{(T_W - T_B)k_c}$  (4)

The evaluation of friction and heat transfer coefficients and the transformation procedure was performed with local data along the test section. Mean values were evaluated from local results over a certain length of the test section, which depended on the length of the rough rod, the position of the thermocouples and the position of the pressure taps on the outer smooth tube. The lengths of these sections can be taken from table 1.

#### 4. Results of the Entire Annulus

The basic experimental information stems from the friction factors and Stanton numbers evaluated from the measurements as a function of the Reynolds numbers. These results are used for the transformation to the rough boundary conditions.

##### 4.1 Friction Factors

The friction factors measured with the three roughened rods in the three outer tubes and with three gases are plotted versus the Reynolds numbers in Fig.5-18 (A). All results except for  $Re < 8000$  indicate that the friction factors decrease with increasing  $T_W/T_B$ -ratio.

A comparison between the results of the different rods and of the different gases is possible for the isothermal runs and for the same diameter of the outer tubes. The following general conclusions can be drawn:

- The friction factors of rod 18 are about 2.5% lower than those of rod 19, this is reasonable since rod 18 has rounded ribs whereas rod 19 has sharp ribs. The above statement is true for all gases and all outer rods investigated.
  
- The friction factors of rod 20 are slightly ( $\sim 1.5\%$ ) higher than those of rod 19.
  
- The friction factors measured in the outer tube of 50 mm I.D. agree for helium and nitrogen, both for rod 18 and rod 19. The results with air are higher than those with He and N<sub>2</sub>: about 5.5% for rod 19 and 4% for rod 18. The reason for this discrepancy is not quite clear. However, there are two differences between the experiments with He, N<sub>2</sub> and air, respectively. Apart from being tested in two different test loops with different devices for measuring the mass flow rate and the differential pressures, the air tests were run in another outer tube of 49.928 mm I.D. as mean value compared with 50.015 I.D. for the outer tube of the He and N<sub>2</sub> runs. The other difference was the flow direction relative to the inner rod between the air and He and N<sub>2</sub> tests, respectively. There seems to be no difference due to the different averaging procedure (s. Table 1) judging from the detailed output. These discrepancies, of course, affect the transformed results (R and G values).
  
- The friction factors measured in the outer tube of 33 mm I.D. agree for all gases. However, the results with air were adjusted against the He and N<sub>2</sub> results, because there was an erroneous reading of one pressure tap which resulted in an unacceptable error in the friction factors.

- For  $Re < 2 \cdot 10^4$  the isothermal friction factors decrease with decreasing Reynolds numbers, there are practically only air results in this region. The friction factors for the non-isothermal results with He and  $N_2$  decrease for  $Re < 2 \cdot 10^5$ , whereas the friction factors of the air runs decrease for  $Re < 3 \cdot 10^4$  for rod 18, however they increase for rod 19 and  $Re < 3 \cdot 10^4$ .

#### 4.2 Stanton Numbers

The Stanton numbers measured with the three roughened rods in three outer tubes and with three gases as coolants are plotted in Fig.19-31(A) versus the Reynolds numbers. The Stanton numbers plotted are reduced for the Prandtl number effect: Since

$$St = Nu Re^{-1} Pr^{-1} \quad (5)$$

and for gases

$$Nu \sim Re^{0.8} Pr^{0.4} \quad (6)$$

$$St \sim Re^{-.2} Pr^{-.6}, \quad (7)$$

the plot shows  $St/(Pr)^{-.6}$ .

All results show a strong effect of different  $T_W/T_B$ -ratios. The Stanton numbers decrease with increasing  $T_W/T_B$ . A comparison between the different roughened rods and the different gases is not possible since the  $T_W/T_B$ -ratios are different for the different investigations.

### 4.3 Reduced Stanton Numbers

The effect of different  $T_W/T_B$ -ratios on the Stanton numbers is eliminated for high Reynolds numbers by a factor  $(T_W/T_B)^x$ . The effect of the temperature ratio on the Stanton numbers is definitely higher for He than for  $N_2$  and air. The exponent of the temperature ratio was found to be

$$\begin{aligned} x &= -0.35 && \text{for helium} \\ x &= -0.25 && \text{for air and nitrogen.} \end{aligned}$$

Fig.19-31 (B) show the reduced Stanton numbers versus the Reynolds number  $Re_B$ . The Stanton numbers can be expressed as

$$St_B = 0.04827 Re_B^{-0.2} Pr_B^{-0.6} \left( \frac{T_W}{T_B} \right)^x \pm 6\% \quad (\text{rod 18 and 20}) \quad (8)$$

$$St_B = 0.05048 Re_B^{-0.2} Pr_B^{-0.6} \left( \frac{T_W}{T_B} \right)^x \pm 6\% \quad (\text{rod 19}) \quad (9)$$

Within the experimental scatter the above equations are valid for

$$\begin{array}{ll} Re > 4 \cdot 10^4 & D_o = 33 \text{ mm} \\ Re > 10^5 & D_o = 40 \text{ mm} \\ Re > 8 \cdot 10^4 & D_o = 50 \text{ mm} \end{array}$$

For lower Reynolds numbers the dependence of the Stanton numbers on the Reynolds number is weaker and for  $Re < 2 \cdot 10^4$  the Stanton numbers decrease with decreasing Reynolds number indicating the transition from rough to hydraulically smooth behavior.

A comparison between the Stanton numbers of the same rod in different outer tubes shows that there is good agreement between the results measured with different gases. This means that the Stanton numbers are not affected by a different width of the flow cross section. Constant  $St_B$  for different outer tubes were also observed by Kimpton /13/. The results with air are always slightly lower than those with helium, the nitrogen results being slightly higher than the helium results. Especially the data of rods 18 and 19 in an outer tube of 40 mm diameter are low. A comparison between the results of rod 18 (rounded) and rod 20 (sharp) shows also a good agreement, this means that the rounding of the roughness does not affect the Stanton numbers significantly, however, as stated before the rounding of the roughness slightly reduces the friction factors.

There is a good agreement between the results in different outer tubes and with different gases also for rod 19 (sharp). But for this rod the Stanton numbers are about 4.5% higher than those of the rods 18 and 20. Since the Stanton numbers of rod 18 and 20, both longer than rod 19, agree, this discrepancy must be attributed to the short length of rod 19. The heat transfer is not fully developed for this short rod and, therefore, the Stanton numbers are slightly higher. Another reason is the bigger influence of the heat losses due to axial heat conduction at both ends, thus simulating a higher heat transfer rate.



## 5. Data Transformation

### 5.1 Friction Factors

The method used to transform the bulk friction factors to the rough boundary conditions is fully described in /6/. Two laws of the wall for the velocity profiles starting from both walls of the annulus are assumed and the intersection of the profiles is interpreted as the zero shear position. The slope of the velocity profile starting from the rough wall is assumed to be 2.5, this is consistent with the assumptions in the SGAPO code, though recent experiments showed that the slope varies with the roughness geometry and the Reynolds number /9,10,11/. The slope of the velocity profile in the smooth outer zone is varied to take into account the empirical friction factors evaluated by Warburton /12/.

### 5.2 Stanton Numbers

Four different methods were applied to transform the measured bulk Stanton numbers to the rough boundary conditions.

#### A. G\*-Method

This method and the method B were fully described in /6/. For both it is assumed that the logarithmic temperature profile is valid from the inner rough rod up to the outer smooth wall. The roughness parameter  $G^*$  is obtained from the integration of the logarithmic temperature profile up to the smooth wall. So the decisive value is  $(T_W - T_B)$  or  $St_B$ .

$$G^* = \frac{1}{St_B} \frac{u_1^*}{u_B} - A_r \ln \left( \frac{1-\alpha}{h/r_2} \right) + \frac{A_r}{2} \frac{(1+3\alpha)}{(1+\alpha)} \quad (10)$$

and

$$\left( \frac{St_1}{St_B} \right)^* = \frac{\frac{1}{St_B} \sqrt{\frac{f_1}{2}}}{G^* + 2.5 \ln \left( \frac{\beta-\alpha}{h/r_2} \right) - \frac{A_r}{2} \frac{1+3\alpha/\beta}{1+\alpha/\beta}} \quad (11)$$

B. G<sup>+</sup>-Method

The roughness parameter G<sup>+</sup> is obtained by taking the outer wall temperature T<sub>W2</sub> as the other boundary condition for the logarithmic temperature profile.

$$G^+ = \frac{(T_W - T_{W2}) \rho_B c_{pB} u_1^*}{q_1} - A_r \ln\left(\frac{1-\alpha}{h/r_2}\right) \quad (12)$$

and

$$\left(\frac{St_1}{St_B}\right)^+ = \frac{\frac{1}{St_B} \sqrt{\frac{f_1}{2}}}{G^+ + 2.5 \ln\left(\frac{\beta-\alpha}{h/r_2}\right) - \frac{A_r}{2} \frac{(1+3\alpha/\beta)}{(1+\alpha/\beta)}} \quad (13)$$

The difference between G\* and G<sup>+</sup> is

$$G^* - G^+ = \frac{A_r}{2} \frac{(1+3\alpha)}{(1+\alpha)} - \frac{(T_B - T_{W2}) \rho_B c_{pB} u_1^*}{q_1} \quad (14)$$

C. Firth's Method

Firth /14/ presented a simple equation to transform Stanton numbers:

$$\left(\frac{St_1}{St_B}\right)_F = \left[\frac{f_1 D_h}{D_1 f_B}\right]^{0.5} \left[1 + \frac{9}{(1+D_1/8r_1)} St_1 \frac{(1-\beta^2)}{(1-\alpha^2)} \sqrt{\frac{2}{f_1}}\right] \quad (15)$$

Firth states that this equation is valid within 1% of the results of his transformation method which transforms the Stanton number as if the heat flux through the surface of zero shear stress were zero. This method is based on the eddy diffusivity concept.

D. Temperature Transformation Method

This method to transform the bulk Stanton numbers to the rough boundary conditions is based on the Hall method /15/. Differently from the methods A and B it transforms the heat flux distribution in such a way that there is no heat transfer at the surface of no shear. The heat flux at the rough surface is maintained constant and a new temperature distribution is obtained.

Following Hall

$$\left(\frac{\partial T}{\partial r}\right)' = \left(\frac{\partial T}{\partial r}\right) \frac{q'(r)}{q(r)} \quad (16)$$

with  $q'(r_1)=q(r_1)$  and  $q'(r_0)=0$

$$\frac{q'(r)}{q(r)} = \frac{\int_{r_1}^{r_2} \rho u r dr}{\int_{r_1}^{r_2} \rho u r dr} \cdot \frac{\int_r^{r_2} \rho u r dr}{\int_r^{r_2} \rho u r dr} \quad (17)$$

Eq.(17) may be rewritten for  $r_1 \leq r \leq r_0$

$$\frac{q'(r)}{q(r)} = \frac{\dot{m}_B}{\dot{m}_1} \cdot \frac{\int_r^{r_0} \rho u r dr}{\left(\frac{\dot{m}_2}{2\pi} + \int_r^{r_0} \rho u r dr\right)} \quad (18)$$

with the mass flow rates  $\dot{m}_B$  of the total annulus,  $\dot{m}_1$  and  $\dot{m}_2$  those of the two zones which are already known from the transformation of the friction factors. Eq.(18) can be integrated assuming the law of the wall for the velocity distribution

$$u(r) = u_1^* \left[ A_r \ln \left( \frac{r-r_1}{h} \right) + R(h^+) \right] \quad (19)$$

Applying the logarithmic temperature distribution

$$T(r) = T_W - \frac{q_1}{\rho_1 c_p u_1^*} \left[ A_r \ln \left( \frac{r-r_1}{h} \right) + G \right] \quad (20)$$

the radial temperature gradient in Eq.(16) becomes

$$\frac{\partial T}{\partial r} = - \frac{q_1}{\rho_1 c_p u_1^*} \frac{A_r}{(r-r_1)} \quad (21)$$

Now, Eq.(16) can be integrated numerically using Eq.(18) and (21) to obtain the transformed distribution of the temperature. For the integration constant two choices are possible:

$$(1) \quad \frac{(T_W - T(h)) \rho_1 c_p u_1^*}{q_1} = G^+ \quad (21)$$

$$(2) \quad \frac{(T_W - T(h)) \rho_1 c_p u_1^*}{q_1} = G^* \quad (22)$$

Assuming one of those values it is implicitly assumed that the temperature distribution between the rough rod wall (root) and the tip of the rib height (h) is not affected by the transformation.

Numerical integration of the transformed temperature distribution between  $r_1$  and  $r_0$  results in the transformed bulk temperature  $T_1^t$  and, finally,

$$\left( \frac{St_1}{St_B} \right)_{T(1,2)} = \frac{T_W - T_B}{T_W - T_1^t} \frac{\rho_B u_B}{\rho_1 u_1} \quad (23)$$

All methods A-D (D(1) and D(2)) were used to transform the bulk Stanton numbers. The results are tabulated in the appendix.

### 5.3 Entrance Effects and $T_W/T_B$ -Reduction

There is an entrance effect on the Stanton numbers, especially for rod 19. It was therefore tried to eliminate this effect. The detailed data showed that this entrance effect on the Stanton numbers of the roughened surfaces could be eliminated by reducing them with a correlation valid for the entrance effect on Stanton numbers in smooth tubes /16/ based on the experimental data of Alad'yev /17/:

$$\frac{St}{St_\infty} = 1 + 14Re^{-0.35} \lg \left[ 10 \left( \frac{x}{D} \right)^{-0.6} \right] \quad (24)$$

The effect of the variation of the fluid properties with the temperature was taken into account by an exponent of the temperature ratio  $T_W/T_1$  according to Petukhov et al. /18/.

$$\frac{Nu}{Nu_0} = \left( \frac{T_W}{T_1} \right)^{ex} \quad (25)$$

$$ex = 0.53 n_\rho + \frac{1}{3} n_\lambda + \frac{1}{4} n_{cp} - \phi \left( \frac{x}{D} \right) n_\mu \lg \left( \frac{T_W}{T_1} \right) \quad (26)$$

$n_\rho, n_\lambda, n_{cp}$  and  $n_\mu$  are the exponents of the temperature variations of the fluid properties:

e.g. 
$$\frac{\rho}{\rho_0} = \left( \frac{T}{T_0} \right)^{n_\rho} \quad (27)$$

Table 2 shows the data used:

|                | $n_\rho$ | $n_\lambda$ | $n_{cp}$ | $n_\mu$ | $x/D=12.5$                              |   |
|----------------|----------|-------------|----------|---------|---|---|
|                |          |             |          |         | $ex \left( \frac{T_W}{T_1}=1.5 \right)$ | $ex \left( \frac{T_W}{T_1}=2.0 \right)$ |
| He             | -1.0     | 0.666       | 0        | 0.66    | -0.378                                  | -0.428                                  |
| N <sub>2</sub> | -0.977   | 0.791       | 0.0277   | 0.722   | -0.324                                  | -0.379                                  |
| Air            | -1.0005  | 0.810       | 0.07     | 0.70    | -0.317                                  | -0.369                                  |

Table 2: Exponents of the gas properties used

The influence of the entrance effect on the exponent of the temperature ratio was modified to

$$\phi \left( \frac{x}{D} \right) = 0.4 \left( 1 + \frac{x/D}{25} \right) \quad (28)$$

From Table 2 it is obvious that the exponent of the temperature ratio is close to the exponents obtained from the experimental results of the bulk Stanton numbers (Eq.(8) and (9)).

Combining Eq.(24) and (25) together with the effect of the Prandtl-number on the Stanton number, the reduced Stanton numbers were calculated by

$$St_{1R} = \frac{St_1}{1 + 14Re_1^{-0.35} \lg \left[ 4.35 \left( \frac{x}{D_1} \right)^{-0.6} \right]} \left( \frac{T_W}{T_1} \right)^{-ex} Pr^{0.6}. \quad (29)$$

In Eq.(29) the factor of  $(x/D_1)^{-0.6}$  was changed from 10 to 4.35. This means the entrance effect for rough surfaces is smaller than for smooth surfaces. The factor 4.35 was determined from the results of the Stanton numbers in the different axial sections of the detailed output of AURIS.

## 6. Discussion of Transformed Results

### 6.1 Friction Factors

The transformed friction factors  $f_1$  of the roughened zone are plotted versus the Reynolds numbers of the roughened zone  $Re_1$  in Fig.5-18 (B). In general the statements of 4.1 are valid also for the transformed friction factors. However, the influence of the  $T_W/T_1$  ratio is more pronounced. The transformed friction factors become independent of the Reynolds number for high Reynolds numbers. In this region the influence of  $T_W/T_1$  is practically eliminated by

$$f_{1R} = f_1 \left( \frac{T_W}{T_1} \right)^{0.29} \quad (30)$$

Fig.5-18(C) show the reduced friction factors  $f_{1R}$  versus the Reynolds number  $Re_{1W}$ . These constant values depend on the outer tube used and can be expressed as

$$D_o = 50 \text{ mm: } f_{1R} = 0.01907 \pm 5\% \quad Re_{1W} > 8 \cdot 10^5$$

$$D_o = 40 \text{ mm: } f_{1R} = 0.02260 \pm 5.5\% \quad Re_{1W} > 10^5$$

$$D_o = 33 \text{ mm: } f_{1R} = 0.02771 \pm 5.5\% \quad Re_{1W} > 4 \cdot 10^4$$

The constant values are included in the figures. It is interesting to note that for all gases the same exponent of the temperature ratio is valid. The measured data agree within the experimental error, both for the different rods and the different gases. Within the scattering of the data the friction factors of rod 19 (sharp) are slightly higher than those of rod 18 (rounded). The data of rod 19 in  $D_o=50$  mm with air as coolant are about 5% higher than the other data. For rod 19 in  $D_o=33$  mm with nitrogen coolant the exponent of the temperature ratio is on the high side, however, the reduced friction factors are within the scatter of all results.

## 6.2 Stanton Numbers

The transformed Stanton numbers are plotted in Fig.19-31(C) versus the Reynolds number of the rough flow zone. For comparison of the different runs a straight line is included in the figures. The comparison between the transformed Stanton numbers measured in different outer tubes shows that the Stanton numbers in an outer tube of 50 mm are higher than those measured in an outer tube of 33 mm. However, the data obtained in an outer tube of 40 mm are slightly lower than those in the outer tube of 33 mm. This is due to the fact that the bulk Stanton numbers in the outer tube of 40 mm also are low. The transformed Stanton numbers for rod 19 (short) are higher than those of rod 18 and 20 (long), the reason is the very short length of rod 19, and therefore, the bulk Stanton numbers for rod 19 were also higher than for the two other rods tested (s.4.1).

Fig.32 shows a comparison of the transformed Stanton numbers between the different methods used for a Reynolds number of  $Re_1 = 4 \times 10^5$ . The data are plotted versus the ratio of the flow cross sections in the rough zone and the entire annulus, respectively. The data points are mean values for the different test rods at different  $T_W/T_B$ -ratios. From the tabulated data it is obvious that there is almost no influence on the  $St_1/St_B$ -ratio for different  $T_W/T_B$ . The transformation of the Stanton numbers generally decreases with increasing ratio of the transformed to untransformed cross section. This seems to be reasonable. (For  $A_1/A_B=1$  it should be  $St_1/St_B=1$ .) The  $(St_1/St_B)^*$  from Eq.(11) show a different behaviour. Since this trend does not seem to be reasonable  $G^*$  should not be used for transforming Stanton numbers. The figure also shows that the Stanton numbers transformed by the method outlined in this paper (Eq.(23) and (21)) are higher than those transformed by the method of /6/(Eq.(13)). Surprisingly, the Stanton numbers transformed by the simple method of Firth (Eq.(15)) show a very weak dependence on the ratio of the



transformed to the untransformed cross section. The reason is not clear, may be, the simple formula is not valid for different outer tubes.

A comparison of the ratio of transformed to bulk Stanton numbers versus the ratio of rough to smooth friction factor is shown in Fig.33. The transformed Stanton numbers (T-method) show a similar trend as the transformation by Wilkie /19/, the curve taken from Firth /14/. The Firth transformation results in a weaker dependence on the friction factor ratio. However, the differences between the different methods are small and may be well within the experimental error.

### 6.3 Roughness Parameters

#### 6.3.1 Parameter of the Velocity Profile:R

The roughness parameters of the velocity profile

$$u^+ = A_r \ln \left( \frac{Y}{h} \right) + R(h^+) \quad (31)$$

were calculated from the transformed friction factor  $f_1$  as:

$$R(h^+) = \sqrt{\frac{2}{f_1}} - A_r \ln \left( \frac{\hat{Y}}{h} \right) + G_1 \quad (32)$$

with the slope of the velocity profile  $A_r=2.5$  and the geometry parameter

$$G_1 = \frac{A_r}{2} \frac{(1+3\alpha/\beta)}{(1+\alpha/\beta)} .$$

The calculated data are plotted in Fig.34-47(A) versus the Reynolds number

$$h^+ = \frac{hu_1^*}{\nu} \quad (33)$$

The roughness parameters increase with increasing temperature ratio  $T_W/T_1$ .

For further data reduction the method of Dalle Donne and Meyer /6/ was used, which takes into account the temperature effect and the effect of the relative width of the flow cross section ( $h/\hat{y}$ ) by

$$R(h_W^+)_{01} = R(h^+) - 0.4 \ln \left( \frac{h/\hat{y}}{0.01} \right) - \frac{5}{\sqrt{h_W^+}} \left( \frac{T_W}{T_1} - 1 \right)^2. \quad (34)$$

Fig.34-47(B) show the  $R(h_W^+)_{01}$  values plotted versus the Reynolds number

$$h_W^+ = \frac{hu_1^*}{\nu_W}$$

with the kinematic viscosity evaluated at the wall temperature. For comparison the  $R(h_W^+)_{01}$ -value according to the general correlation of /6/ is included in the figures ( $R(h_W^+)_{01}=2.71$ ).

The agreement between the isothermal data of the rods 18 and 20, both sharp, is reasonable. The isothermal data of rod 19, rounded ribs, are slightly higher. However, the temperature effect modelled in Eq.(34) is too weak, therefore the non-isothermal data of all combinations of gases, rods and outer tubes are higher than the isothermal data.

The transformed friction factors of the isothermal and non-isothermal runs were shown to agree by applying a temperature ratio with the same exponent for all gases and the different outer tubes. Therefore, the roughness parameters were calculated from the transformed friction factors as

$$R(h^+)_{01} = \sqrt{\frac{2}{f_{1R}}} - A_r \ln \left( \frac{\hat{y}}{h} \right) + G_1. \quad (35)$$

The calculated data are plotted in Fig.34-47(C) versus the Reynolds number

$$h_{WR}^+ = \frac{hu_{1R}^*}{v_W} = h_W^+ \sqrt{\left(\frac{T_W}{T_1}\right)^{0.29}} \quad (36)$$

For comparison two lines are included in the figures

$$R(h^+)_R = 3.35 , \quad h_{WR}^+ > 30$$

$$R(h^+)_R = 8.74 - 3.65 \lg h_{WR}^+ , \quad h_{WR}^+ < 30$$

The roughness parameters are independent of the  $T_W/T_B$ -ratio within the experimental scatter. The agreement between the experimental data and the lines is best for the measurements in the smallest outer tube (33 mm). The  $R(h^+)_R$ -values are slightly higher for rod 18, this is reasonable since this rod has rounded ribs. There is also good agreement for the air data in the outer tube of 40 mm. Again, the data for rod 18 are slightly higher. This is also true for the results measured in the largest outer tube (50 mm). The data agree well for high Reynolds numbers. However, for lower Reynolds numbers the results measured with helium and nitrogen are considerably higher than the air data, both, for rod 18 and 19. The only possible explanation for this discrepancy is experimental error, but we cannot give a reason for such an error. It is interesting to note that there is practically no temperature effect for the data with helium and nitrogen for low Reynolds numbers, whereas the air data are strongly dependent on the temperature ratio.

A comparison of the results for the different outer tubes shows that there is a tendency for the  $R(h^+)_R$ -values to be lower for higher diameters of the outer tube. This  $h/\hat{y}$  effect is significant for all rods tested, however, it is not possible to draw definite conclusions within the range of  $h/\hat{y}$  covered in these experiments ( $0.028 < h/\hat{y} < 0.055$ ) and the experimental scatter.

### 6.3.2 Parameters of the Velocity Profile According to a Method by Hodge et al.

Hodge et al./20/ proposed a method to evaluate the roughness parameter  $R$  and the slope  $A_r$  of the logarithmic velocity profile by the knowledge of the friction factor  $f_1$  for different  $h/\hat{y}$ -ratios.

The relation between the transformed friction factor  $f_1$ , the slope of the velocity  $A_r$  and the roughness parameter  $R$  valid for an annulus can be written as

$$\sqrt{\frac{2}{f_1}} = A_r \ln \left( \frac{\hat{y}}{h} \right) - G_1 + R(h^+) \quad (37)$$

and with

$$G_1 = A_r \left( \frac{1}{2} + \frac{1}{2 + \hat{y}/r_1} \right) \quad (38)$$

$$\sqrt{\frac{2}{f_1}} = A_r \left[ \ln \left( \frac{\hat{y}}{h} \right) - \frac{1}{2} - \frac{1}{2 + \hat{y}/r_1} \right] + R(h^+) \quad (39)$$

If measurements of the same rough rod are performed in outer tubes of different diameter, i.e. different  $\hat{y}/r_1$ , a plot of  $\sqrt{2/f_1}$  versus  $\left[ \ln (\hat{y}/h) - \frac{1}{2} - \frac{1}{2 + \hat{y}/r_1} \right]$  will result in both parameters of the velocity profile,  $A_r$  and  $R$ , provided that both,  $A_r$  and  $R$  are

independent of the  $h/\delta$ -ratio. Since the original transformation is based on the assumption of  $A_r=2.5$  the slope  $A_r$  and the roughness parameter  $R$  should be evaluated iteratively. However, Hodge et al. /20/ state that the iteration may be neglected. Hodge et al. used the air results /8/, measured in two outer tubes with rods 18 and 19, to obtain

| Rod | $A_r$ | $R(h^+)$ |
|-----|-------|----------|
| 18  | 1.54  | 6.06     |
| 19  | 1.63  | 5.50     |

Fig. 48 shows some of the data plotted in a diagram as suggested by Hodge et al. In spite of the scatter of the data it is possible to draw two lines, one for rod 18 (rounded ribs) and another for the rods 19 and 20 (both with sharp ribs), which have the same slope:

| Rod   | $A_r$ | $R(h^+)$ |
|-------|-------|----------|
| 18    | 2.1   | 4.3      |
| 19.20 | 2.1   | 4.1      |

However, it is also possible to correlate the data by a line with a slope of  $A_r=2.5$ , which was assumed for the transformation of the friction factors. The resulting roughness parameter is  $R(h^+)=3.35$  which is in agreement with the average value of all measurements (6.3.1).

In order to see the effect of a different slope  $A_r$  on the transformed friction factors and Stanton numbers the transformation of all data was performed again with  $A_r = 2.1$ .

The comparison with the results transformed with  $A_r = 2.5$  showed only small differences in  $f_1$  and  $f_2$ .

The table below shows the mean differences of the isothermal runs only (e.g.  $(f_{2.5} - f_{2.1})/f_{2.5}$ ) because the scatter of  $\Delta f$  of the heated runs was too high to detect any systematic effect. Apart from the scatter and an increasing difference with decreasing Reynolds number, there is a slight increase of the average difference in  $f_1$  and  $f_2$  with smaller outer tubes.

| $D_o$ | $\Delta f_1$<br>(%) | $\Delta f_2$<br>(%) | $\Delta h/\bar{y}_r$<br>(%) | $\Delta R$ | $\Delta St_{1T}$<br>(%) |
|-------|---------------------|---------------------|-----------------------------|------------|-------------------------|
| 50    | 0.8                 | -0.9                | 1.2                         | -1.05      | 2÷5                     |
| 40    | 0.9                 | -1.0                | 1.3                         | -0.95      | 2÷5                     |
| 33    | 1.0                 | -1.2                | 1.5                         | -0.85      | 2÷5                     |

The difference in  $R$  is such that the tendency of the  $R(h^+)_R$  values, to be lower for higher diameters of the outer tube, which was mentioned before, would be eliminated. Although it is known from other investigations /9,10,11/ that the slope of the velocity profile for this particular roughness is lower than 2.5, the small differences in  $f_1$  do not justify a change of the transformation procedure, since this would not be in accordance with the present state of the SAGAPO-code.

Another reason not to change the slope  $A_r$  is the rather big difference in the transformed Stanton numbers which is shown in the last row of the table. Because of the scatter and dependence on the  $T_W/T_B$ -ratio a tendency with different radius-ratios cannot be detected easily.

From recent measurements of the velocity and temperature profiles in rough annuli /25/ it is known that the parameter  $G^+$  evaluated by Eq.(12) is in reasonable agreement with the experimental results, although the slope  $A_r$  close to the rough wall was found to be less than 2.5. A change of the slope to  $A_r = 2.1$  gives wrong values for  $G^+$  and thus wrong transformed Stanton numbers.

### 6.3.3 Parameter of the Temperature Profile:G

The roughness parameters of the logarithmic temperature profile

$$T^+ = A_r \ln\left(\frac{Y}{h}\right) + G \quad (40)$$

were calculated from the transformed Stanton numbers  $St_1$ , for the different transformation methods, respectively, as described in chapter 5.2 for  $G^*$  and  $G^+$ .

#### A). $G^*$

According to Eq. (10)

$$G^* = \frac{1}{St_B} \sqrt{\frac{f_1}{2}} \frac{u_1}{u_B} - A_r \ln\left(\frac{1-\alpha}{h/r_2}\right) + \frac{A_r}{2} \frac{(1+3\alpha)}{(1+\alpha)} \quad (41)$$

The  $G_R^*$  which are reduced for the temperature, entrance and the Prandtl-number effect are calculated as

$$G_R^* = \frac{1}{St_{BR}} \sqrt{\frac{f_1}{2}} \sqrt{\left(\frac{T_W}{T_1}\right)^{0.29}} \frac{u_1}{u_B} - A_r \ln\left(\frac{1-\alpha}{h/r_2}\right) + \frac{A_r}{2} \frac{(1+3\alpha)}{(1+\alpha)} \quad (42)$$

with

$$St_{BR} = \frac{St_B}{1 + 14Re_B^{-0.35} \lg\left[4.35\left(\frac{x}{D_h}\right)^{-0.6}\right]} \left(\frac{T_W}{T_B}\right)^{-ex_B} Pr^{0.6} \quad (43)$$

according to (29) and  $ex_B$  according to (25) and (26) with bulk values.

### B). $G^+$

According to Eq.(12)

$$G^+ = \frac{(T_W - T_{W2}) \rho_B c_{pB} u_1^*}{q_1} - A_r \ln\left(\frac{1-\alpha}{h/r_2}\right) \quad (44)$$

These data are reduced for the temperature effect, the Prandtl number and the influence of  $h/\hat{y}$  according to /6/.

$$GPRO1 = \frac{G^+}{Pr^{0.44} \left(\frac{T_W}{T_B}\right)^{0.5} \left(\frac{h}{0.01(r_2-r_1)}\right)^{0.053}} \quad (45)$$



C.  $G_F$

$$G_F = \frac{\sqrt{f_{1/2}}}{St_{1F}} - A_r \ln\left(\frac{\beta-\alpha}{h/r_2}\right) + \frac{A_r}{2} \frac{(1+3\alpha/\beta)}{(1+\alpha/\beta)} \quad (46)$$

The calculation of  $G_F$  by Eq.(46) from the Stanton number transformed by the simple formula of Firth is not consistent with the values of  $G$  obtained by Firth, since the geometry parameter (last term R.H.S. of Eq.(46)) used is not the same as that used by Firth because he calculates the geometry parameter via an universal eddy viscosity distribution /14/. Reduced roughness parameters are also calculated by applying the reduced  $St_{1FR}$  and  $f_{1R}$  values similar to Eq.(42).

D.  $G_T$

$G_T$  values are calculated from the transformed Stanton numbers  $St_{1T}$  from Eq.(23) as

$$G_T = \frac{\sqrt{f_{1/2}}}{St_{1T}} - A_r \ln\left(\frac{\beta-\alpha}{h/r_2}\right) + \frac{A_r}{2} \frac{(1+3\alpha/\beta)}{(1+\alpha/\beta)} \quad (47)$$

The roughness parameters reduced for the effects of the Prandtl number and the  $T_W/T_1$ -ratio are computed as

$$G_{TR} = \frac{\sqrt{\frac{f_{1R}}{2}}}{St_{1TR}} - A_r \ln\left(\frac{\beta-\alpha}{h/r_2}\right) + \frac{A_r}{2} \frac{(1+3\alpha/\beta)}{(1+\alpha)\beta} \quad (48)$$

with  $f_{1R}$  from (30) and  $St_{1TR}$  from (29).

All calculated roughness parameters are tabulated in the appendix. Some of the data have been plotted for comparison. Fig. 49-61 show the computed  $G^+$ -values (A) and the  $G^*$ -values (C) versus  $h^+$ . The comparison of the two data sets shows that the differences between  $G^+$  and  $G^*$  are not very high, however, the  $G^+$ -values are lower than the  $G^*$ -values for high Reynolds numbers and measurements in the outer tubes of 40 and 50 mm, the opposite is true for the data in the outer tube of 33 mm.

The reduced data GPRO1 are plotted in Fig.49-61(B) versus  $h_W^+$ . For comparison the general correlation from /6/ is included in the figures:

$$\begin{aligned} GPRO1 &= K_1 h_W^{+K_2} ; \quad GPRO1 \geq 10 \\ K_1 &= 3.0 + 0.3 R_{\infty 01} \\ K_2 &= 0.32 - 0.017 R_{\infty 01}. \end{aligned} \quad (49)$$

The new data do not agree with the general correlation: almost all data are lower than the correlation. The  $T_W/T_B$ -effect is correlated rather well by Eq.(45) for the data measured in the outer tube of 33 mm. For the data in the outer tubes of 40 and 50 the reduction is too weak for all gases. This is not surprising for helium, since the bulk Stanton numbers showed already a stronger dependence on the  $T_W/T_B$ -ratio than the air data and the correlation of this effect in Eq.(45) is based on experimental results with air.

Fig. 49-61(D) show plots of the reduced  $G_R^*$ -data versus  $h_R^+$ :

$$h_R^+ = h^+ \sqrt{\left(\frac{T_W}{T_1}\right)^{0.29}} \quad (50)$$

The data can be correlated by:

$$G_R^* = 3.85 \times h_R^{+0.265} \quad (\text{Rod 19, short}) \quad (51)$$

$$G_R^* = 4.35 \times h_R^{+0.265} \quad (\text{Rod 18 and 20, long}) \quad (52)$$

For all rods  $G_R^* \geq 10$ . The curves are included in the plots. The data for the different gases measured in the outer tube of 33 mm agree very well, except for the helium data at high Reynolds numbers, which are higher. This may be due to bowing of the rod during the measurements. However, the helium and nitrogen data measured in the outer tube of the 50 mm are lower than the correlation. Especially for low  $h_R$  this is caused by the friction factors which are lower in the range. The reason for the lower friction factors in the outer tube of 50 mm dia is not quite clear. Since this effect is not observed for the measurements in the outer tube of 33 mm, the reason may be experimental error. The measuring devices for the pressure drops along the test section and at the orifice plate (mass flow rate) were changed after the experiments with the 50 mm tube and before the 33-tube runs in order to improve the accuracy.

The  $G_R^*$  data for rod 19, the short one, are slightly lower than for the rods 18 and 20, the longer ones. This is attributed to the difference in the length and, therefore, the higher conduction effects for the short rod 19.

The data  $G_{TR}$  transformed by the method outlined in this paper are shown in Fig. 62-74(A) versus  $h_R^+$ . The comparison of the  $G_{TR}$  values evaluated from the results in different outer tubes shows that the data are affected by the radius ratio. To correlate all data a dependence on the ratio  $h/\hat{y}$  was assumed:

$$G_{TR1} = G_{TR} \left( \frac{h}{0.01\hat{y}} \right)^{-0.2} \quad (53)$$

The final results (GTR1) are plotted in Fig.62-74(B) versus  $h_R^+$ . The correlations obtained as an average for the different rods are included in the figures:

$$\text{GTR1} = 3 h_R^+ 0.265 \quad (\text{Rod 18,20}) \quad (54)$$

$$\text{GTR1} = 2.87 h_R^+ 0.265 \quad (\text{Rod 19}) \quad (55)$$

$$\text{GTR1} \geq 7.5$$

The effect of the temperature ratio is well correlated, except for the helium test at very high  $T_W/T_B$ . This may be due to the fact that those data are obtained at very high heat fluxes, up to  $3900 \text{ KW/m}^2$ , i.e.  $390 \text{ W/cm}^2$  or a linear rod power of  $2.2 \text{ KW/cm}$ . For such high heat fluxes the correction of the wall temperatures for the fin efficiency effect may not be correct. As far as the agreement between experimental data and correlations is concerned, the nitrogen data for rod 19 in the outer tube of 33 mm are slightly lower, on the other hand, the air data in the outer tube of 40 mm are slightly higher both for the rods 18 and 19. The helium and nitrogen, resp., data for lower Reynolds numbers are lower than the correlation due to the already discussed influence of the low friction factors. In total the data measured with different gases in different test rigs and with different rods are rather well correlated.

## 7. Thermal Performance

The new correlations for R and G were used to calculate the thermal performance  $St^3/f$  for a rod bundle.

Fig.75 shows the ratio  $(St_r/St_s)^3/(f_r/f_s)$  over the Reynolds number for two pitch to diameter ratios of the rods and three different roughness heights. The calculation was performed with air properties. The  $f_s$  and  $St_s$  values are those of a smooth tube, that is the Prandtl-Nikuradse correlation for  $f_s$

$$1/\sqrt{f_s} = 4 \log (Re\sqrt{f_s}) - 0.4 \quad (56)$$

and the Dittus-Boelter correlation for  $St_s$

$$St_s = 0.023 Re^{-0.2} Pr^{-0.6} \quad (57)$$

There is a strong temperature effect on the thermal performance because the smooth tube values are for isothermal conditions. This effect is larger for calculations with helium properties. The temperature effect is almost eliminated if correlations for  $f_s$  and  $St_s$  are used, which take account of the temperature ratio (Fig.76). The friction factor  $f_s$  given by Taylor /23/ is

$$f_s/2 = (0.0007 + 0.0625 Re_W^{-0.32}) (T_W/T_B)^{-0.5} \quad (58)$$

The Stanton number  $St_{s0}$  given by Petukhov and Roizen /24/ is

$$St_{s0} = \frac{f_o/2}{k + 12.7 \sqrt{f_o/2} (Pr^{2/3} - 1)} \quad (59)$$

$$\text{where } k = 1.07 + 900/Re - 0.63/(1+10Pr) \quad (60)$$

$$\text{and } f_o = (1.82 \lg Re - 1.64)^{-2} \quad (61)$$

Equation (59) is valid in the range  $4 \times 10^3 \leq Re \leq 6 \times 10^5$  and  $0.7 \leq Pr \leq 5 \times 10^5$ .

The temperature effect is taken care of by the correlation of Petukhov et al. /18/ (equation (26)) with the original function  $\phi\left(\frac{x}{D}\right)$  for the entrance effect, which is given in a table:

| x/D    | 10   | 20   | 30   | 40   | 50   | 60   | 70   | 80   | 90   | 100  | $\infty$ |
|--------|------|------|------|------|------|------|------|------|------|------|----------|
| $\phi$ | 0.11 | 0.24 | 0.38 | 0.55 | 0.73 | 0.89 | 1.02 | 1.13 | 1.21 | 1.27 | 1.50     |

The curves shown were calculated for a ratio  $x/D = 10$ . For higher  $x/D$ -ratios the temperature effect, which is opposite to that of Fig.75, is somewhat larger. The differences in the thermal performance between calculations for helium and air are very small and cannot be distinguished in the plots.

For comparison the thermal performance, evaluated with the R and G correlations, given by Dalle Donne and Meyer /6/, is plotted in Fig.77 for air. Since the  $f_s$  and  $St_s$  from equation (56) and (57) were used, it should be compared to figure 75. The reason for the different course of the curves especially at low Reynolds numbers is the abrupt transition between the fully rough and smooth condition, compared to the more gradual transition of the present results (see fig.78 and 79)

## 8. Conclusions and Recommendations

The experimental data of friction factors and Stanton numbers obtained from measurements with three rough rods in three tubes with different outer diameters and three gases in different test rigs are in reasonable agreement. As a result of testing different transformations for the Stanton numbers it turned out that the method outlined in this paper results in the highest transformed Stanton numbers. These transformed Stanton numbers are in close agreement with those transformed by the methods of Firth /14/ and Hudina /21/.

As far as the effects of the ratio of wall temperature to bulk temperature on friction factors and Stanton numbers are concerned, this effect is the same for the three gases used in the experiments for the friction factors. However, the temperature effect on the Stanton numbers is higher for helium as a coolant than for nitrogen and air, which is in agreement with earlier observations /7/. The temperature effect can be correlated by the equations developed by Petukhov et al. /18/ for smooth tubes.

To compare the results of this investigation with the data for the friction factors and Stanton numbers used in the SAGAPO code for the evaluation of the experimental results of the 19-rod bundle with this specific type of roughness a calculation was performed for the following conditions, typical for test 1 of the cluster experiments:

$$T_W/T_B = 1.1$$

$$P/D = 1.43$$

$$Re = 1.12 \cdot 10^5$$

$$h/\dot{q} = 0.0652$$

$$Pr = 0.667 \quad (\text{Helium}).$$

The ratio of the friction factors calculated by the correlations of this paper to those used in SAGAPO (from /6/) is

$$f/f_{SA} = 1.00,$$

however, the Stanton number ratio for a central subchannel is

$$St/St_{SA} = 1.10 .$$

A Stanton number higher by 10% would improve the agreement between experimental and computed results /4,5/.

For the computations with the SAGAPO code it is therefore recommended to use the  $G_R^*$  data in the outer subchannels, wall and corner subchannels, since this results in  $St_P$  in the outer subchannels which are nearly independent from the wall-to-diameter ratio. For the central subchannels the GTR1-data are recommended since the transformed Stanton numbers are in better agreement with other transformation methods and they would improve the agreement between calculated and experimental results.

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Literature

- /1/ K. Rehme, Experimental thermohydraulic investigations on a 19-rod bundle with artificially roughened surfaces, Report KfK-2313 (1976) (in German).
  
- /2/ A. Martelli, SAGAPO, A computer code for the thermo- and fluiddynamic analysis of gas cooled fuel element bundles, Report KfK-2483, EUR 5510e (1977)
  
- /3/ A. Martelli, Thermo- and fluiddynamic analysis of gas-cooled rod bundles, Report KfK-2436, EUR 5508d (1977) (in German).
  
- /4/ A. Martelli and K. Rehme, Forced convection heat transfer in a rod bundle - A comparison between predictions and experimental results, NATO Advanced Study Institute on Turbulent Forced Convection in Channels and Rod Bundles, Istanbul (1978), S.Kakač, D.B.Spalding (Ed.), Turbulent Forced Convection in Channels and Bundles, Theory and Applications to Heat Exchangers and Nuclear Reactors, New York, Hemisphere Publ., Vol.2, p.939 (1979).
  
- /5/ M. Dalle Donne, A. Martelli and K. Rehme, Thermo- and fluid-dynamic experiments with gas-cooled bundles of rough rods and their evaluation with the computer code SAGAPO, Int. J. Heat Mass Transfer 22, pp.1355-1374 (1979).
  
- /6/ M. Dalle Donne and L. Meyer, Turbulent convective heat transfer from rough surfaces with two-dimensional rectangular ribs, Int. J. Heat Mass Transfer 20, pp.583-620 (1977).
  
- /7/ M.Dalle Donne, M. Hudina, M. Huggenberger, L. Meyer, K. Rehme, EIR, KfK joint heat transfer experiment on a single rod, roughened with trapezoidal rounded ribs and cooled by various gases, Report KfK 2674, EIR-349 (1978).

- /8/ M. Dalle Donne and L. Meyer, Convective heat transfer from rough surfaces with two-dimensional ribs: transitional and laminar flow, Report KfK-2566, EUR-5751e (1978).
  
- /9/ W. Baumann, Turbulent flow velocity distribution at rough walls, Dr.-Ing. Thesis, Univ. Karlsruhe, Report KfK-2618 (1978) (in German).
  
- /10/ L. Meyer, Turbulent flow at single - and repeated rib - roughnesses in a plane channel, Dr.-Ing. Thesis, Univ. Karlsruhe, (1978) Report KfK-2764 (1979).
  
- /11/ A. Aytakin, Turbulent flow and heat transfer in channels with combined rough and smooth surfaces, Ph.D. Thesis, Univ. London, (1978)
  
- /12/ C. Warburton, The interpretation of tests on roughened pins in rough channels and the prediction of cluster pressure drop from single-pin data, Report CEGB RD/B/N 2930, Berkeley (1973)
  
- /13/ A.D. Kimpton, Report CEGB RD/B/N 1852, Berkeley (1970)
  
- /14/ R.J. Firth, A method for analyzing heat transfer and pressure drop data obtained from partially roughened annular channels, 5th NEA-GCFR Heat Transfer Specialists Meeting, Würenlingen (1979)
  
- /15/ W.B. Hall, Heat transfer in channels composed of rough and smooth surfaces, Report IGR-TN/W-832, Windscale (1958)
  
- /16/ S.S. Kutateladze, Fundamentals of Heat Transfer, Edward Arnold Ltd., London (1963).

- /17/ I.T. Alad'yev, Experimental determination of local and mean coefficients of heat transfer for turbulent flow in pipes, NACA TM 1356 (1954)
- /18/ B.S. Petukhov, V.A. Kurganov and A.I. Gladuntsov, Heat transfer in turbulent pipe flow of gases with variable properties, Heat Transfer - Soviet Research, Vol.5, No.4, pp.109-116 (1973)
- /19/ D. Wilkie and L. White, Calculation of flow resistance of passages bounded by a combination of rough and smooth surfaces, J. Brt. Nucl. Eng. Soc., January 1967, pp.48-62
- /20/ S.A. Hodge, J.P. Sanders, D.E. Klein, Determination of friction factors and heat transfer coefficients for flow past artificially roughened surfaces, Report ORNL-5599, Oak Ridge (1979), cf. Int. J. Heat Mass Transfer 23, pp.135-140 (1980)
- /21/ M. Hudina, Evaluation of heat transfer performances of rough surfaces from experimental investigation in annular channels, Int. J. Heat Mass Transfer 22, pp.1381-1392 (1979)
- /22/ M. Hudina and S. Janar, The Influence of heat conduction on the heat transfer performance of some ribbed surfaces tested in ROHAN experiment, EIR-Rep. TM-IN-572 (1974)
- /23/ M.F. Taylor, A method of correlating local and average friction coefficients for both laminar and turbulent flow of gases through a smooth tube with surface to fluid bulk temperature ratios from 0.35 to 7.35, Int. J. Heat Mass Transfer, 10, pp.1123-1128 (1967).
- /24/ B.S. Petukhov and L.I. Roizen, Generalized dependences for heat transfer in tubes of annular cross section, HighTemperature Institute Academy of Sciences of the USSR, Transl. from Teplofizika Vysokikh Temperatur, 12,3,pp.565-569 (1974).

/25/ L. Meyer, Velocity and Temperature Profiles in Rough Annuli,  
(to be published)

Nomenclature

|            |  |
|------------|--|
| A          | area of flow cross-section ( $m^2$ )   |
| $A_r$      | slope of the logarithmic velocity and temperature profile                            |
| b          | width of the ribs (m)  |
| Bi         | Biot number ( $= \alpha h / K_c$ )   |
| $c_p$      | specific heat at constant pressure ( $Ws\ kg^{-1}\ K^{-1}$ )                         |
| $D_h, D_1$ | hydraulic diameter (m)   |
| $D_o$      | outer diameter of annulus (m)  |
| f          | friction factor ( $= 2\tau / \rho u^2$ )   |
| G          | parameter in the logarithmic temperature profile for rough surfaces                  |
| h          | height of the roughness ribs (m)   |
| $h^+$      | dimensionless height of the rib or roughness Reynolds number<br>( $= h\ u^* / \nu$ ) |
| $k_c$      | thermal conductivity of the test rod ( $Wm^{-1}\ K^{-1}$ )                           |
| l          | heated length of the test rods (m)   |
| m          | mass flow ( $kg\ s^{-1}$ )   |
| Nu         | Nusselt number   |
| p          | pitch of the roughness ribs (m)  |
| Pr         | Prandtl number   |
| q          | heat flux ( $Wm^{-2}$ )  |
| r          | radius (m)   |
| $r_M$      | position of thermocouple junction (m)  |
| $R(h^+)$   | parameter in the logarithmic velocity profile for rough surfaces                     |
| Re         | Reynolds number ( $= u\ D_h / \nu$ )   |
| St         | Stanton number ( $= \alpha / (\rho u c_p) = Nu / RePr$ )                             |
| T          | temperature (K)  |
| $T^+$      | dimensionless temperature ( $= (T_W - T) \rho c_p\ u^* / q$ )                        |
| u          | gas velocity ( $ms^{-1}$ )   |

|           |   |
|-----------|---|
| $u^*$     | friction velocity ( $=\sqrt{\tau} / \rho$ ) ( $\text{ms}^{-1}$ )        |
| $u^+$     | dimensionless velocity ( $= u/u^*$ )                                    |
| $x$       | axial length starting at the beginning of the heating of the rod (m)    |
| $\hat{y}$ | radial distance of zero shear stress plane from the rough wall (m)      |
| $\alpha$  | convective heat transfer coefficient ( $\text{Wm}^{-2} \text{K}^{-1}$ ) |
| $\alpha$  | $r_1/r_2$   |
| $\beta$   | $r_0/r_2$   |
| $\nu$     | kinematic viscosity ( $\text{m}^2 \text{s}^{-1}$ )                      |
| $\rho$    | density of the gas ( $\text{kg m}^{-3}$ )                               |
| $\tau$    | shear stress at the wall ( $\text{Nm}^{-2}$ )                           |

### Subscripts

|     |  |
|-----|--|
| B   | bulk or total of the annular cross-section |
| 1   | inner rough zone of channel                |
| 2   | outer smooth zone of channel               |
| W   | wall                                       |
| o   | zero shear position                        |
| vol | volumetric radius of rough rod             |
| c   | corrected                                  |
| M   | measured                                   |
| R   | reduced (for temperature effect)           |
| r   | rough                                      |
| s   | smooth                                     |

Nomenclature of the tables (where not self-explaining)

|                               |                   |
|-------------------------------|-------------------|
| STPR                          | Eq. (43)          |
| ST1+ / = $(St_1/St_B)^+$      | Eq. (13)          |
| ST1* / = $(St_1/St_B)^*$      | Eq. (11)          |
| STT+ / = $(St_1/St_B)_{T(1)}$ | Eq. (23) and (21) |
| STT* / = $(St_1/St_B)_{T(2)}$ | Eq. (23) and (22) |
| ST1F / = $(St_1/St_B)_F$      | Eq. (15)          |

$$X = \ln \left( \frac{\hat{y}}{h} \right) - \frac{1}{2} \frac{3+\beta/\alpha}{1+\beta/\alpha}$$

$$Y_R = \sqrt{2/f_1}$$

$$Y_G = \sqrt{2/f_1}/St_{1F}$$

Symbols in the plots

- isothermal runs
- thermal runs, increasing  $T_W/T_B$ -ratio
- △ with arrow; the exact  $T_W/T_B$ -ratios
- ◇ can be taken from the tables.
- ✕ ↓

| Rod number | p (mm) | h=b (mm) | Rib edges | rough heated length $\ell$ (mm) | outer smooth tube diameter (mm) | $r_{1vol}/r_2$ | $\frac{\ell}{2(r_2-r_{1vol})}$ | Tests performed with |           |                | length of averaging section |           |                     |           |
|------------|--------|----------|-----------|---------------------------------|---------------------------------|----------------|--------------------------------|----------------------|-----------|----------------|-----------------------------|-----------|---------------------|-----------|
|            |        |          |           |                                 |                                 |                |                                | air,                 | nitrogen, | helium         | air                         |           | N <sub>2</sub> , He |           |
|            |        |          |           |                                 |                                 |                |                                |                      |           |                | $x_1/D_h$                   | $x_2/D_h$ | $x_1/D_h$           | $x_2/D_h$ |
| 18         | 2,7    | 0,3      | rounded   | 735                             | 33,57                           | 0,547          | 48,4                           | -                    | -         | x<br>isotherm. |                             |           |                     |           |
|            |        |          |           |                                 | 40,4                            | 0,454          | 33,4                           | x                    | -         | -              | 13                          | 23        |                     |           |
|            |        |          |           |                                 | 50,0                            | 0,367          | 23,2                           | x                    | x         | x              | 10                          | 16        | 11                  | 19        |
| 19         | 2,7    | 0,3      | sharp     | 466                             | 33,57                           | 0,547          | 30,7                           | -                    | x         | x              |                             |           | 15                  | 23        |
|            |        |          |           |                                 | 40,4                            | 0,454          | 21,2                           | x                    | -         | -              | 6                           | 15        |                     |           |
|            |        |          |           |                                 | 50,0                            | 0,367          | 14,7                           | x                    | x         | x              | 4                           | 10        | 7                   | 11        |
| 20         | 2,7    | 0,3      | sharp     | 750                             | 33,57                           | 0,547          | 49,4                           | x                    | x         | x              | 18                          | 35        | 15                  | 31        |

Table 1: Test parameters



|   | T<br>°C | $\rho$<br>kg m <sup>-3</sup> | $\eta$<br>$\times 10^{-5}$<br>kg m <sup>-1</sup> s <sup>-1</sup> | $\lambda$<br>$\times 10^{-2}$<br>Wm <sup>-1</sup> K <sup>-1</sup> | $C_p$<br>$10^{-3}$<br>Jkg <sup>-1</sup> K <sup>-1</sup> | Pr<br>- |
|---|---------|------------------------------|--|---|---|---------|
| Air<br>$10^5$ Nm <sup>-2</sup>                    | 20      | 1.1886                       | 1.813  | 2.574   | 1.006   | 0.709   |
|   | 100     | 0.9333                       | 2.173  | 3.175   | 1.011   | 0.692   |
|   | 200     | 0.7359                       | 2.571  | 3.867   | 1.026   | 0.682   |
|   | 300     | 0.6075                       | 2.927  | 4.501   | 1.046   | 0.680   |
|   | 400     | 0.5172                       | 3.250  | 5.087   | 1.069   | 0.683   |
|   | 500     | 0.4503                       | 3.547  | 5.634   | 1.092   | 0.688   |
|   | 600     | 0.3987                       | 3.825  | 6.147   | 1.115   | 0.694   |
| Helium<br>$1.2 \times 10^6$<br>Nm <sup>-2</sup>   | 20      | 1.9600                       | 1.973  | 15.389  | 5.199   | 0.667   |
|   | 100     | 1.5419                       | 2.314  | 18.047  |   |         |
|   | 200     | 1.2172                       | 2.707  | 21.110  |   |         |
|   | 300     | 1.0055                       | 3.072  | 23.958  |   |         |
|   | 400     | 0.8564                       | 3.416  | 26.642  |   |         |
|   | 500     | 0.7459                       | 3.743  | 29.193  |   |         |
|   | 600     | 0.6606                       | 4.056  | 31.633  |   |         |
| Nitrogen<br>$1.2 \times 10^6$<br>Nm <sup>-2</sup> | 20      | 13.738                       | 1.740  | 2.610   | 1.057   | 0.705   |
|   | 100     | 10.791                       | 2.082  | 3.183   | 1.053   | 0.689   |
|   | 200     | 8.5094                       | 2.446  | 3.845   | 1.060   | 0.674   |
|   | 300     | 7.0237                       | 2.828  | 4.451   | 1.075   | 0.683   |
|   | 400     | 5.9803                       | 3.139  | 5.004   | 1.095   | 0.687   |
|   | 500     | 5.2071                       | 3.423  | 5.508   | 1.117   | 0.694   |
|   | 600     | 4.6109                       | 3.688  | 5.968   | 1.141   | 0.705   |

Table 3: Gas Properties

HELIUM

| VERS.NH.  | RE*E4 | RE1*E4 | F      | F1     | STH | STPR | F1/F2 | TW/TH | TW/T1 | PR   | H/Y   | BETA | H+    | H+W   | H+R   | H+RW  | RH+  | RH+01 | RH+R |
|-----------|-------|--------|--------|--------|-----|------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|------|-------|------|
| 1A-33- 1  | 26.80 | 52.55  | .01254 | .02725 | .0  | .0   | 5.87  | 1.00  | 1.00  | .667 | .0512 | .896 | 595.8 | 595.8 | 595.8 | 595.8 | 3.34 | 2.69  | 3.34 |
| 1A-33- 2  | 23.97 | 46.71  | .01254 | .02709 | .0  | .0   | 5.72  | 1.00  | 1.00  | .667 | .0515 | .894 | 531.4 | 531.4 | 531.4 | 531.4 | 3.38 | 2.73  | 3.38 |
| 1A-33- 3  | 21.61 | 41.88  | .01255 | .02696 | .0  | .0   | 5.59  | 1.00  | 1.00  | .667 | .0517 | .892 | 478.0 | 478.0 | 478.0 | 478.0 | 3.41 | 2.75  | 3.41 |
| 1A-33- 4  | 19.44 | 37.68  | .01277 | .02740 | .0  | .0   | 5.56  | 1.00  | 1.00  | .667 | .0518 | .892 | 434.2 | 434.2 | 434.2 | 434.2 | 3.34 | 2.69  | 3.34 |
| 1A-33- 5  | 19.89 | 38.34  | .01255 | .02680 | .0  | .0   | 5.48  | 1.00  | 1.00  | .667 | .0519 | .891 | 438.6 | 438.6 | 438.6 | 438.6 | 3.45 | 2.79  | 3.45 |
| 1A-33- 6  | 18.33 | 35.28  | .01271 | .02713 | .0  | .0   | 5.45  | 1.00  | 1.00  | .667 | .0520 | .891 | 406.6 | 406.6 | 406.6 | 406.6 | 3.40 | 2.74  | 3.40 |
| 1A-33- 7  | 16.63 | 31.77  | .01265 | .02679 | .0  | .0   | 5.30  | 1.00  | 1.00  | .667 | .0523 | .888 | 366.6 | 366.6 | 366.6 | 366.6 | 3.47 | 2.81  | 3.47 |
| 1A-33- 8  | 14.88 | 28.27  | .01273 | .02682 | .0  | .0   | 5.19  | 1.00  | 1.00  | .667 | .0525 | .887 | 328.1 | 328.1 | 328.1 | 328.1 | 3.48 | 2.81  | 3.48 |
| 1A-33- 9  | 13.41 | 25.37  | .01286 | .02698 | .0  | .0   | 5.12  | 1.00  | 1.00  | .667 | .0527 | .886 | 296.6 | 296.6 | 296.6 | 296.6 | 3.46 | 2.79  | 3.46 |
| 1A-33- 10 | 11.97 | 22.51  | .01291 | .02693 | .0  | .0   | 5.00  | 1.00  | 1.00  | .667 | .0530 | .884 | 264.6 | 264.6 | 264.6 | 264.6 | 3.48 | 2.81  | 3.48 |
| 1A-33- 11 | 10.78 | 20.23  | .01316 | .02741 | .0  | .0   | 4.98  | 1.00  | 1.00  | .667 | .0531 | .884 | 240.2 | 240.2 | 240.2 | 240.2 | 3.41 | 2.74  | 3.41 |
| 1A-33- 12 | 9.67  | 18.04  | .01325 | .02747 | .0  | .0   | 4.88  | 1.00  | 1.00  | .667 | .0533 | .882 | 215.7 | 215.7 | 215.7 | 215.7 | 3.41 | 2.74  | 3.41 |
| 1A-33- 13 | 8.73  | 16.23  | .01340 | .02766 | .0  | .0   | 4.82  | 1.00  | 1.00  | .667 | .0535 | .881 | 195.4 | 195.4 | 195.4 | 195.4 | 3.39 | 2.72  | 3.39 |
| 1A-33- 14 | 7.85  | 14.56  | .01365 | .02814 | .0  | .0   | 4.79  | 1.00  | 1.00  | .667 | .0536 | .881 | 177.3 | 177.3 | 177.3 | 177.3 | 3.32 | 2.65  | 3.32 |
| 1A-33- 15 | 5.19  | 9.27   | .01339 | .02649 | .0  | .0   | 4.17  | 1.00  | 1.00  | .667 | .0553 | .870 | 113.8 | 113.8 | 113.8 | 113.8 | 3.67 | 2.98  | 3.67 |
| 1A-33- 16 | 4.73  | 8.40   | .01345 | .02643 | .0  | .0   | 4.09  | 1.00  | 1.00  | .667 | .0556 | .869 | 103.7 | 103.7 | 103.7 | 103.7 | 3.69 | 3.00  | 3.69 |
| 1A-33- 17 | 4.37  | 7.74   | .01360 | .02665 | .0  | .0   | 4.05  | 1.00  | 1.00  | .667 | .0557 | .868 | 96.2  | 96.2  | 96.2  | 96.2  | 3.66 | 2.98  | 3.66 |
| 1A-33- 18 | 3.99  | 7.00   | .01358 | .02635 | .0  | .0   | 3.93  | 1.00  | 1.00  | .667 | .0561 | .865 | 87.3  | 87.3  | 87.3  | 87.3  | 3.73 | 3.04  | 3.73 |
| 1A-33- 19 | 3.58  | 6.28   | .01387 | .02688 | .0  | .0   | 3.91  | 1.00  | 1.00  | .667 | .0562 | .865 | 79.2  | 79.2  | 79.2  | 79.2  | 3.65 | 2.96  | 3.65 |
| 1A-33- 20 | 3.23  | 5.63   | .01409 | .02721 | .0  | .0   | 3.87  | 1.00  | 1.00  | .667 | .0564 | .864 | 71.7  | 71.7  | 71.7  | 71.7  | 3.60 | 2.91  | 3.60 |
| 1A-33- 21 | 2.90  | 5.04   | .01436 | .02766 | .0  | .0   | 3.83  | 1.00  | 1.00  | .667 | .0565 | .863 | 65.0  | 65.0  | 65.0  | 65.0  | 3.54 | 2.85  | 3.54 |
| 1A-33- 22 | 2.60  | 4.51   | .01459 | .02798 | .0  | .0   | 3.78  | 1.00  | 1.00  | .667 | .0567 | .862 | 58.7  | 58.7  | 58.7  | 58.7  | 3.50 | 2.81  | 3.50 |
| 1A-33- 23 | 2.36  | 4.06   | .01480 | .02824 | .0  | .0   | 3.73  | 1.00  | 1.00  | .667 | .0570 | .861 | 53.3  | 53.3  | 53.3  | 53.3  | 3.48 | 2.78  | 3.48 |
| 1A-33- 24 | 2.11  | 3.59   | .01480 | .02789 | .0  | .0   | 3.60  | 1.00  | 1.00  | .667 | .0575 | .858 | 47.4  | 47.4  | 47.4  | 47.4  | 3.55 | 2.85  | 3.55 |
| 1A-33- 25 | 1.91  | 3.27   | .01539 | .02920 | .0  | .0   | 3.66  | 1.00  | 1.00  | .667 | .0573 | .859 | 44.0  | 44.0  | 44.0  | 44.0  | 3.35 | 2.65  | 3.35 |
| 1A-33- 26 | 1.10  | 1.80   | .01577 | .02828 | .0  | .0   | 3.13  | 1.00  | 1.00  | .667 | .0598 | .846 | 25.0  | 25.0  | 25.0  | 25.0  | 3.61 | 2.90  | 3.61 |
| 1A-33- 27 | 0.99  | 1.60   | .01600 | .02847 | .0  | .0   | 3.07  | 1.00  | 1.00  | .667 | .0601 | .844 | 22.6  | 22.6  | 22.6  | 22.6  | 3.60 | 2.88  | 3.60 |
| 1A-33- 28 | 0.89  | 1.43   | .01625 | .02873 | .0  | .0   | 3.01  | 1.00  | 1.00  | .667 | .0606 | .842 | 20.4  | 20.4  | 20.4  | 20.4  | 3.62 | 2.90  | 3.62 |
| 1A-33- 29 | 0.79  | 1.22   | .01523 | .02548 | .0  | .0   | 2.63  | 1.00  | 1.00  | .667 | .0629 | .831 | 17.2  | 17.2  | 17.2  | 17.2  | 4.20 | 3.47  | 4.20 |

| VERS.NR.  | HE*E4 | Q<KW/M2> | ST1+ / | ST1* / | STT+ / | STT* / | ST1F / | H+    | G+  | GPR01 | G*  | G*R | GT  | GTR | GTR1 | GTF | GTFR | X    | YR   | YG  |
|-----------|-------|----------|--------|--------|--------|--------|--------|-------|-----|-------|-----|-----|-----|-----|------|-----|------|------|------|-----|
| 18-33- 1  | 26.80 | 0        | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 595.8 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.09 | 8.57 | 0.0 |
| 18-33- 2  | 23.97 | 0        | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 531.4 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.09 | 8.59 | 0.0 |
| 18-33- 3  | 21.61 | 0        | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 478.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.08 | 8.61 | 0.0 |
| 18-33- 4  | 19.44 | 0        | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 434.2 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.08 | 8.54 | 0.0 |
| 18-33- 5  | 19.89 | 0        | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 438.6 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.08 | 8.64 | 0.0 |
| 18-33- 6  | 18.33 | 0        | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 406.6 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.08 | 8.59 | 0.0 |
| 18-33- 7  | 16.63 | 0        | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 366.6 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.07 | 8.64 | 0.0 |
| 18-33- 8  | 14.88 | 0        | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 328.1 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.06 | 8.64 | 0.0 |
| 18-33- 9  | 13.41 | 0        | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 296.6 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.06 | 8.61 | 0.0 |
| 18-33- 10 | 11.97 | 0        | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 264.6 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.06 | 8.62 | 0.0 |
| 18-33- 11 | 10.78 | 0        | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 240.2 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.05 | 8.54 | 0.0 |
| 18-33- 12 | 9.67  | 0        | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 215.7 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.05 | 8.53 | 0.0 |
| 18-33- 13 | 8.73  | 0        | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 195.4 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.05 | 8.50 | 0.0 |
| 18-33- 14 | 7.85  | 0        | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 177.3 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.04 | 8.43 | 0.0 |
| 18-33- 15 | 5.19  | 0        | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 113.8 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.01 | 8.69 | 0.0 |
| 18-33- 16 | 4.73  | 0        | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 103.7 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.00 | 8.70 | 0.0 |
| 18-33- 17 | 4.37  | 0        | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 96.2  | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.00 | 8.66 | 0.0 |
| 18-33- 18 | 3.99  | 0        | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 87.3  | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 1.99 | 8.71 | 0.0 |
| 18-33- 19 | 3.58  | 0        | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 79.2  | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 1.99 | 8.63 | 0.0 |
| 18-33- 20 | 3.23  | 0        | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 71.7  | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 1.99 | 8.57 | 0.0 |
| 18-33- 21 | 2.90  | 0        | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 65.0  | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 1.99 | 8.50 | 0.0 |
| 18-33- 22 | 2.60  | 0        | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 58.7  | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 1.98 | 8.46 | 0.0 |
| 18-33- 23 | 2.36  | 0        | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 53.3  | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 1.98 | 8.42 | 0.0 |
| 18-33- 24 | 2.11  | 0        | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 47.4  | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 1.97 | 8.47 | 0.0 |
| 18-33- 25 | 1.91  | 0        | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 44.0  | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 1.97 | 8.28 | 0.0 |
| 18-33- 26 | 1.10  | 0        | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 25.0  | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 1.92 | 8.41 | 0.0 |
| 18-33- 27 | 0.99  | 0        | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 22.6  | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 1.92 | 8.38 | 0.0 |
| 18-33- 28 | 0.89  | 0        | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 20.4  | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 1.91 | 8.34 | 0.0 |
| 18-33- 29 | 0.79  | 0        | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 17.2  | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 1.87 | 8.86 | 0.0 |

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| VERS.NR. | RE*E4 | RE1*E4 | F      | F1     | STB    | STPR   | F1/F2 | TW/TH | TW/T1 | PR   | H/Y   | BETA | H+    | H+W   | H+R   | H+RW  | RH+  | RH+01 | RH+R |
|----------|-------|--------|--------|--------|--------|--------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|------|-------|------|
| 19-33- 1 | 33.61 | 65.85  | .01219 | .02667 | .00467 | .00388 | 6.01  | 1.18  | 1.18  | .667 | .0512 | .897 | 737.4 | 559.9 | 755.5 | 573.6 | 3.43 | 2.77  | 3.22 |
| 19-33- 2 | 29.83 | 58.18  | .01232 | .02688 | .00480 | .00400 | 5.92  | 1.19  | 1.19  | .667 | .0513 | .896 | 656.7 | 493.8 | 673.4 | 506.4 | 3.40 | 2.75  | 3.19 |
| 19-33- 3 | 26.89 | 52.02  | .01237 | .02709 | .00493 | .00410 | 5.88  | 1.19  | 1.19  | .667 | .0515 | .894 | 592.4 | 444.6 | 607.6 | 455.9 | 3.38 | 2.73  | 3.17 |
| 19-33- 4 | 24.02 | 46.22  | .01230 | .02649 | .00505 | .00421 | 5.63  | 1.20  | 1.19  | .667 | .0518 | .892 | 524.6 | 392.1 | 538.3 | 402.3 | 3.49 | 2.84  | 3.27 |
| 19-33- 5 | 21.65 | 41.40  | .01232 | .02641 | .00516 | .00431 | 5.51  | 1.20  | 1.20  | .667 | .0521 | .891 | 471.8 | 350.6 | 484.3 | 359.9 | 3.52 | 2.86  | 3.30 |
| 19-33- 6 | 16.71 | 31.43  | .01237 | .02611 | .00542 | .00454 | 5.21  | 1.21  | 1.21  | .667 | .0528 | .886 | 361.7 | 265.0 | 371.8 | 272.4 | 3.61 | 2.94  | 3.37 |
| 19-33- 7 | 14.97 | 27.94  | .01239 | .02598 | .00546 | .00458 | 5.08  | 1.22  | 1.21  | .667 | .0531 | .885 | 323.1 | 235.5 | 332.2 | 242.1 | 3.65 | 2.98  | 3.40 |
| 19-33- 8 | 13.45 | 25.00  | .01251 | .02615 | .00556 | .00467 | 5.01  | 1.22  | 1.21  | .667 | .0532 | .883 | 291.2 | 211.3 | 299.5 | 217.4 | 3.63 | 2.96  | 3.38 |
| 19-33- 9 | 12.04 | 22.17  | .01248 | .02584 | .00577 | .00484 | 4.85  | 1.22  | 1.21  | .667 | .0536 | .881 | 259.0 | 189.2 | 266.2 | 194.5 | 3.70 | 3.03  | 3.46 |
| 19-33-10 | 10.81 | 19.71  | .01243 | .02549 | .00581 | .00489 | 4.70  | 1.22  | 1.22  | .667 | .0540 | .879 | 230.8 | 167.3 | 237.5 | 172.1 | 3.78 | 3.10  | 3.53 |
| 19-33-11 | 9.73  | 17.77  | .01278 | .02630 | .00595 | .00501 | 4.73  | 1.22  | 1.22  | .667 | .0540 | .879 | 211.0 | 152.9 | 217.1 | 157.3 | 3.64 | 2.96  | 3.39 |
| 19-33-12 | 8.75  | 15.87  | .01284 | .02625 | .00608 | .00512 | 4.63  | 1.23  | 1.22  | .667 | .0543 | .877 | 189.6 | 136.5 | 195.1 | 140.5 | 3.66 | 2.98  | 3.41 |
| 19-33-13 | 7.87  | 14.22  | .01303 | .02655 | .00619 | .00522 | 4.58  | 1.23  | 1.22  | .667 | .0544 | .876 | 171.4 | 123.5 | 176.4 | 127.1 | 3.62 | 2.94  | 3.37 |
| 19-33-14 | 32.61 | 62.20  | .01157 | .02494 | .00446 | .00405 | 5.65  | 1.46  | 1.45  | .667 | .0520 | .892 | 687.9 | 374.1 | 725.8 | 394.7 | 3.77 | 3.11  | 3.30 |
| 19-33-15 | 28.89 | 54.89  | .01174 | .02525 | .00463 | .00419 | 5.59  | 1.46  | 1.45  | .667 | .0521 | .891 | 612.9 | 333.7 | 646.5 | 352.0 | 3.72 | 3.06  | 3.26 |
| 19-33-16 | 25.91 | 48.96  | .01185 | .02538 | .00475 | .00431 | 5.51  | 1.46  | 1.45  | .667 | .0523 | .890 | 550.4 | 298.2 | 580.9 | 314.7 | 3.71 | 3.05  | 3.24 |
| 19-33-17 | 23.24 | 43.72  | .01193 | .02546 | .00483 | .00439 | 5.43  | 1.46  | 1.45  | .667 | .0525 | .889 | 494.5 | 267.7 | 521.9 | 282.5 | 3.70 | 3.04  | 3.24 |
| 19-33-18 | 20.89 | 38.30  | .01178 | .02531 | .00494 | .00450 | 5.35  | 1.47  | 1.46  | .667 | .0531 | .886 | 437.4 | 235.1 | 461.9 | 248.3 | 3.76 | 3.09  | 3.29 |
| 19-33-19 | 19.23 | 34.76  | .01154 | .02448 | .00497 | .00454 | 5.12  | 1.48  | 1.46  | .667 | .0536 | .882 | 395.1 | 211.6 | 417.5 | 223.6 | 3.94 | 3.27  | 3.46 |
| 19-33-20 | 17.69 | 31.76  | .01155 | .02436 | .00506 | .00461 | 5.02  | 1.47  | 1.45  | .667 | .0538 | .881 | 362.2 | 195.8 | 382.4 | 206.7 | 3.97 | 3.30  | 3.50 |
| 19-33-21 | 16.10 | 28.79  | .01168 | .02463 | .00520 | .00475 | 4.99  | 1.48  | 1.46  | .667 | .0540 | .880 | 331.2 | 177.5 | 349.8 | 187.5 | 3.93 | 3.26  | 3.45 |
| 19-33-22 | 14.33 | 25.50  | .01183 | .02486 | .00529 | .00482 | 4.92  | 1.48  | 1.46  | .667 | .0542 | .879 | 295.9 | 159.0 | 312.5 | 167.9 | 3.90 | 3.22  | 3.42 |
| 19-33-23 | 12.92 | 22.77  | .01186 | .02479 | .00538 | .00492 | 4.82  | 1.49  | 1.47  | .667 | .0545 | .877 | 265.8 | 141.3 | 280.9 | 149.4 | 3.93 | 3.25  | 3.44 |
| 19-33-24 | 11.51 | 20.10  | .01190 | .02473 | .00549 | .00503 | 4.71  | 1.49  | 1.47  | .667 | .0548 | .875 | 236.1 | 125.5 | 249.6 | 132.6 | 3.96 | 3.28  | 3.47 |
| 19-33-25 | 10.22 | 17.78  | .01214 | .02520 | .00570 | .00522 | 4.69  | 1.49  | 1.47  | .667 | .0549 | .874 | 211.4 | 112.5 | 223.5 | 118.9 | 3.88 | 3.20  | 3.40 |
| 19-33-26 | 9.31  | 15.93  | .01193 | .02445 | .00582 | .00533 | 4.48  | 1.49  | 1.46  | .667 | .0555 | .871 | 189.2 | 101.3 | 199.9 | 107.0 | 4.04 | 3.36  | 3.56 |
| 19-33-27 | 8.36  | 14.22  | .01204 | .02458 | .00592 | .00542 | 4.41  | 1.49  | 1.46  | .667 | .0558 | .869 | 170.3 | 91.0  | 179.9 | 96.1  | 4.03 | 3.35  | 3.55 |
| 19-33-28 | 7.50  | 12.74  | .01231 | .02519 | .00614 | .00561 | 4.42  | 1.49  | 1.46  | .667 | .0558 | .869 | 154.5 | 82.9  | 163.2 | 87.5  | 3.93 | 3.24  | 3.45 |
| 19-33-29 | 7.21  | 12.73  | .01246 | .02481 | .00629 | .00534 | 4.24  | 1.25  | 1.24  | .667 | .0554 | .870 | 151.7 | 106.1 | 156.6 | 109.5 | 3.96 | 3.28  | 3.69 |
| 19-33-30 | 6.49  | 11.35  | .01246 | .02459 | .00643 | .00545 | 4.12  | 1.25  | 1.24  | .667 | .0558 | .868 | 135.8 | 95.0  | 140.2 | 98.0  | 4.03 | 3.34  | 3.75 |
| 19-33-31 | 5.82  | 10.13  | .01262 | .02479 | .00649 | .00550 | 4.06  | 1.24  | 1.23  | .667 | .0560 | .867 | 122.4 | 86.3  | 126.2 | 89.0  | 4.00 | 3.31  | 3.73 |
| 19-33-32 | 5.23  | 9.04   | .01275 | .02491 | .00669 | .00567 | 3.99  | 1.25  | 1.24  | .667 | .0563 | .865 | 110.2 | 77.2  | 113.6 | 79.7  | 3.99 | 3.30  | 3.72 |
| 19-33-33 | 4.74  | 8.18   | .01301 | .02540 | .00689 | .00584 | 3.98  | 1.25  | 1.24  | .667 | .0564 | .865 | 100.7 | 70.6  | 103.9 | 72.8  | 3.91 | 3.21  | 3.63 |
| 19-33-34 | 3.97  | 6.78   | .01326 | .02568 | .00715 | .00607 | 3.87  | 1.25  | 1.24  | .667 | .0568 | .863 | 84.8  | 59.2  | 87.5  | 61.0  | 3.88 | 3.18  | 3.60 |
| 19-33-35 | 2.88  | 4.83   | .01373 | .02613 | .00751 | .00637 | 3.67  | 1.25  | 1.24  | .667 | .0576 | .858 | 62.0  | 43.3  | 64.0  | 44.7  | 3.84 | 3.14  | 3.57 |
| 19-33-36 | 2.33  | 3.87   | .01415 | .02671 | .00793 | .00673 | 3.57  | 1.25  | 1.24  | .667 | .0581 | .856 | 50.7  | 35.4  | 52.3  | 36.5  | 3.77 | 3.06  | 3.50 |
| 19-33-37 | 2.09  | 3.34   | .01390 | .02618 | .00788 | .00670 | 3.46  | 1.26  | 1.24  | .667 | .0591 | .850 | 44.2  | 30.9  | 45.6  | 31.9  | 3.91 | 3.20  | 3.64 |
| 19-33-38 | 1.70  | 2.57   | .01332 | .02382 | .00780 | .00667 | 3.03  | 1.27  | 1.25  | .667 | .0615 | .839 | 34.1  | 23.6  | 35.2  | 24.4  | 4.44 | 3.71  | 4.15 |
| 19-33-39 | 1.51  | 2.26   | .01334 | .02353 | .00796 | .00680 | 2.92  | 1.27  | 1.24  | .667 | .0622 | .836 | 30.2  | 21.0  | 31.2  | 21.7  | 4.53 | 3.80  | 4.24 |
| 19-33-40 | 1.11  | 1.63   | .01414 | .02437 | .00824 | .00703 | 2.80  | 1.27  | 1.23  | .667 | .0630 | .832 | 22.5  | 15.9  | 23.1  | 16.3  | 4.39 | 3.66  | 4.12 |
| 19-33-41 | 0.90  | 1.30   | .01428 | .02401 | .00822 | .00701 | 2.63  | 1.27  | 1.23  | .667 | .0643 | .826 | 18.2  | 12.9  | 18.7  | 13.3  | 4.51 | 3.77  | 4.24 |
| 19-33-42 | 0.81  | 1.17   | .01530 | .02629 | .00827 | .00710 | 2.78  | 1.28  | 1.25  | .667 | .0634 | .830 | 16.9  | 11.7  | 17.5  | 12.1  | 4.08 | 3.35  | 3.81 |
| 19-33-43 | 0.73  | 1.04   | .01511 | .02517 | .00768 | .00664 | 2.61  | 1.31  | 1.26  | .667 | .0646 | .825 | 15.0  | 10.2  | 15.5  | 10.6  | 4.31 | 3.57  | 4.02 |
| 19-33-44 | 7.92  | 13.27  | .01183 | .02399 | .00571 | .00531 | 4.28  | 1.54  | 1.51  | .667 | .0563 | .866 | 158.8 | 80.5  | 168.5 | 85.5  | 4.17 | 3.48  | 3.64 |
| 19-33-45 | 7.01  | 11.64  | .01196 | .02413 | .00597 | .00554 | 4.20  | 1.53  | 1.50  | .667 | .0567 | .865 | 140.6 | 71.9  | 149.1 | 76.2  | 4.16 | 3.46  | 3.64 |
| 19-33-46 | 6.30  | 10.33  | .01192 | .02376 | .00604 | .00560 | 4.06  | 1.53  | 1.49  | .667 | .0572 | .862 | 125.3 | 64.6  | 132.7 | 68.4  | 4.25 | 3.56  | 3.74 |
| 19-33-47 | 5.66  | 9.21   | .01207 | .02392 | .00612 | .00567 | 4.00  | 1.53  | 1.49  | .667 | .0574 | .860 | 112.6 | 58.2  | 119.3 | 61.7  | 4.23 | 3.53  | 3.72 |
| 19-33-48 | 5.08  | 8.20   | .01221 | .02412 | .00627 | .00581 | 3.94  | 1.53  | 1.49  | .667 | .0577 | .859 | 101.3 | 52.4  | 107.3 | 55.5  | 4.21 | 3.51  | 3.70 |
| 19-33-49 | 4.58  | 7.37   | .01234 | .02442 | .00647 | .00599 | 3.91  | 1.52  | 1.49  | .667 | .0579 | .858 | 92.0  | 47.6  | 97.5  | 50.4  | 4.16 | 3.46  | 3.66 |
| 19-33-50 | 4.23  | 6.75   | .01240 | .02441 | .00655 | .00606 | 3.84  | 1.52  | 1.49  | .667 | .0582 | .856 | 84.7  | 43.8  | 89.8  | 46.4  | 4.18 | 3.47  | 3.67 |

| VERS.NR. | RE*E4 | Q<KW/M2> | ST1+/<br>ST1*/ | STT+/<br>STT*/ | ST1F/<br>ST1F/ | H+   | G+   | GPR01 | G*   | G*R  | GT   | GTR  | GTR1 | GTF  | GTFR | X    | YR   | YG   |      |      |
|----------|-------|----------|----------------|----------------|----------------|------|------|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 19-33- 1 | 33.61 | 667      | 1.04           | 1.07           | 1.05           | 1.08 | 1.12 | 737.4 | 18.5 | 18.9 | 18.0 | 23.5 | 18.4 | 24.2 | 17.4 | 16.9 | 22.4 | 2.09 | 8.66 | 22.1 |
| 19-33- 2 | 29.83 | 635      | 1.04           | 1.07           | 1.05           | 1.08 | 1.12 | 656.7 | 18.0 | 18.3 | 17.4 | 22.8 | 17.8 | 23.4 | 16.9 | 16.3 | 21.6 | 2.09 | 8.63 | 21.5 |
| 19-33- 3 | 26.89 | 588      | 1.05           | 1.08           | 1.05           | 1.08 | 1.13 | 592.4 | 17.4 | 17.7 | 16.7 | 22.0 | 17.2 | 22.6 | 16.3 | 15.6 | 20.9 | 2.09 | 8.59 | 20.8 |
| 19-33- 4 | 24.02 | 553      | 1.05           | 1.07           | 1.05           | 1.08 | 1.13 | 524.6 | 16.6 | 16.9 | 16.1 | 21.1 | 16.4 | 21.7 | 15.6 | 14.9 | 19.9 | 2.08 | 8.69 | 20.1 |
| 19-33- 5 | 21.65 | 522      | 1.05           | 1.07           | 1.06           | 1.08 | 1.14 | 471.8 | 16.1 | 16.3 | 15.5 | 20.5 | 15.9 | 21.0 | 15.1 | 14.4 | 19.3 | 2.07 | 8.70 | 19.6 |
| 19-33- 6 | 16.71 | 446      | 1.05           | 1.08           | 1.06           | 1.09 | 1.15 | 361.7 | 14.9 | 15.1 | 14.4 | 19.0 | 14.7 | 19.5 | 14.0 | 13.2 | 17.8 | 2.06 | 8.75 | 18.3 |
| 19-33- 7 | 14.97 | 410      | 1.06           | 1.08           | 1.07           | 1.09 | 1.15 | 323.1 | 14.6 | 14.7 | 14.2 | 18.7 | 14.4 | 19.1 | 13.7 | 13.0 | 17.5 | 2.05 | 8.77 | 18.1 |
| 19-33- 8 | 13.45 | 381      | 1.06           | 1.08           | 1.07           | 1.09 | 1.16 | 291.2 | 14.4 | 14.5 | 13.9 | 18.4 | 14.2 | 18.8 | 13.5 | 12.7 | 17.1 | 2.05 | 8.75 | 17.8 |
| 19-33- 9 | 12.04 | 346      | 1.06           | 1.08           | 1.07           | 1.09 | 1.17 | 259.0 | 13.5 | 13.7 | 13.1 | 17.3 | 13.4 | 17.8 | 12.7 | 11.8 | 16.1 | 2.04 | 8.80 | 16.9 |
| 19-33-10 | 10.81 | 323      | 1.06           | 1.08           | 1.08           | 1.10 | 1.17 | 230.8 | 13.2 | 13.2 | 12.8 | 17.0 | 13.0 | 17.3 | 12.4 | 11.5 | 15.7 | 2.03 | 8.86 | 16.6 |
| 19-33-11 | 9.73  | 298      | 1.06           | 1.09           | 1.07           | 1.10 | 1.17 | 211.0 | 13.1 | 13.2 | 12.6 | 16.8 | 12.9 | 17.2 | 12.3 | 11.3 | 15.4 | 2.04 | 8.72 | 16.4 |
| 19-33-12 | 8.75  | 280      | 1.06           | 1.09           | 1.07           | 1.10 | 1.18 | 189.6 | 12.7 | 12.7 | 12.2 | 16.3 | 12.5 | 16.7 | 11.9 | 10.9 | 14.9 | 2.03 | 8.73 | 16.0 |
| 19-33-13 | 7.87  | 256      | 1.06           | 1.09           | 1.07           | 1.10 | 1.18 | 171.4 | 12.4 | 12.5 | 12.0 | 16.0 | 12.3 | 16.4 | 11.7 | 10.7 | 14.7 | 2.03 | 8.68 | 15.7 |
| 19-33-14 | 32.61 | 1623     | 1.06           | 1.07           | 1.06           | 1.08 | 1.13 | 687.9 | 18.5 | 17.0 | 18.2 | 22.2 | 18.3 | 22.6 | 16.3 | 17.0 | 21.0 | 2.08 | 8.96 | 22.2 |
| 19-33-15 | 28.89 | 1494     | 1.06           | 1.07           | 1.06           | 1.08 | 1.13 | 612.9 | 17.8 | 16.4 | 17.5 | 21.4 | 17.6 | 21.9 | 15.7 | 16.3 | 20.1 | 2.07 | 8.90 | 21.5 |
| 19-33-16 | 25.91 | 1398     | 1.06           | 1.07           | 1.07           | 1.08 | 1.13 | 550.4 | 17.3 | 15.9 | 17.0 | 20.7 | 17.1 | 21.2 | 15.2 | 15.7 | 19.4 | 2.07 | 8.88 | 20.9 |
| 19-33-17 | 23.24 | 1281     | 1.06           | 1.07           | 1.07           | 1.08 | 1.14 | 494.5 | 17.0 | 15.6 | 16.6 | 20.3 | 16.8 | 20.8 | 14.9 | 15.4 | 19.0 | 2.06 | 8.86 | 20.5 |
| 19-33-18 | 20.89 | 1208     | 1.07           | 1.08           | 1.08           | 1.09 | 1.16 | 437.4 | 16.2 | 14.8 | 15.9 | 19.4 | 16.0 | 19.8 | 14.2 | 14.6 | 18.0 | 2.05 | 8.89 | 19.7 |
| 19-33-19 | 19.23 | 1131     | 1.07           | 1.08           | 1.08           | 1.10 | 1.16 | 395.1 | 15.6 | 14.3 | 15.4 | 18.7 | 15.4 | 19.1 | 13.7 | 14.0 | 17.3 | 2.04 | 9.04 | 19.1 |
| 19-33-20 | 17.69 | 1047     | 1.07           | 1.09           | 1.09           | 1.10 | 1.17 | 362.2 | 15.2 | 13.9 | 15.0 | 18.3 | 15.0 | 18.7 | 13.3 | 13.6 | 16.9 | 2.04 | 9.06 | 18.7 |
| 19-33-21 | 16.10 | 1002     | 1.07           | 1.09           | 1.09           | 1.10 | 1.17 | 331.2 | 14.8 | 13.5 | 14.5 | 17.7 | 14.6 | 18.1 | 12.9 | 13.1 | 16.3 | 2.04 | 9.01 | 18.2 |
| 19-33-22 | 14.33 | 906      | 1.08           | 1.09           | 1.09           | 1.10 | 1.18 | 295.9 | 14.5 | 13.3 | 14.3 | 17.4 | 14.3 | 17.8 | 12.7 | 12.9 | 16.0 | 2.03 | 8.97 | 17.9 |
| 19-33-23 | 12.92 | 854      | 1.08           | 1.09           | 1.09           | 1.10 | 1.18 | 265.8 | 14.1 | 12.9 | 13.9 | 17.0 | 13.9 | 17.4 | 12.4 | 12.5 | 15.5 | 2.02 | 8.98 | 17.5 |
| 19-33-24 | 11.51 | 782      | 1.08           | 1.09           | 1.09           | 1.11 | 1.19 | 236.1 | 13.7 | 12.5 | 13.4 | 16.4 | 13.5 | 16.8 | 12.0 | 12.0 | 14.9 | 2.02 | 8.99 | 17.0 |
| 19-33-25 | 10.22 | 721      | 1.08           | 1.10           | 1.09           | 1.11 | 1.20 | 211.4 | 13.1 | 12.0 | 12.9 | 15.8 | 12.9 | 16.2 | 11.5 | 11.4 | 14.3 | 2.02 | 8.91 | 16.5 |
| 19-33-26 | 9.31  | 668      | 1.09           | 1.10           | 1.10           | 1.11 | 1.21 | 189.2 | 12.5 | 11.4 | 12.2 | 15.0 | 12.3 | 15.4 | 10.9 | 10.7 | 13.5 | 2.00 | 9.04 | 15.7 |
| 19-33-27 | 8.36  | 615      | 1.09           | 1.10           | 1.10           | 1.12 | 1.21 | 170.3 | 12.2 | 11.1 | 12.0 | 14.7 | 12.0 | 15.1 | 10.7 | 10.5 | 13.2 | 2.00 | 9.02 | 15.5 |
| 19-33-28 | 7.50  | 570      | 1.09           | 1.11           | 1.10           | 1.12 | 1.22 | 154.5 | 11.8 | 10.8 | 11.5 | 14.2 | 11.6 | 14.6 | 10.4 | 10.0 | 12.7 | 2.00 | 8.91 | 15.0 |
| 19-33-29 | 7.21  | 256      | 1.06           | 1.09           | 1.07           | 1.11 | 1.20 | 151.7 | 11.7 | 11.6 | 11.2 | 14.9 | 11.5 | 15.4 | 10.9 | 9.8  | 13.4 | 2.01 | 8.98 | 14.8 |
| 19-33-30 | 6.49  | 236      | 1.06           | 1.10           | 1.08           | 1.11 | 1.21 | 135.8 | 11.2 | 11.2 | 10.7 | 14.3 | 11.0 | 14.8 | 10.5 | 9.3  | 12.9 | 2.00 | 9.02 | 14.3 |
| 19-33-31 | 5.82  | 208      | 1.06           | 1.10           | 1.08           | 1.11 | 1.21 | 122.4 | 11.2 | 11.1 | 10.6 | 14.2 | 11.0 | 14.7 | 10.4 | 9.2  | 12.8 | 1.99 | 8.98 | 14.2 |
| 19-33-32 | 5.23  | 197      | 1.07           | 1.10           | 1.08           | 1.12 | 1.22 | 110.2 | 10.7 | 10.6 | 10.2 | 13.7 | 10.5 | 14.1 | 10.0 | 8.7  | 12.2 | 1.99 | 8.96 | 13.7 |
| 19-33-33 | 4.74  | 184      | 1.06           | 1.10           | 1.07           | 1.12 | 1.22 | 100.7 | 10.5 | 10.4 | 9.8  | 13.3 | 10.3 | 13.9 | 9.8  | 8.4  | 11.8 | 1.99 | 8.87 | 13.4 |
| 19-33-34 | 3.97  | 163      | 1.06           | 1.11           | 1.08           | 1.12 | 1.24 | 84.8  | 10.0 | 9.9  | 9.4  | 12.7 | 9.8  | 13.2 | 9.4  | 7.9  | 11.2 | 1.98 | 8.83 | 12.8 |
| 19-33-35 | 2.88  | 123      | 1.07           | 1.11           | 1.09           | 1.13 | 1.25 | 62.0  | 9.3  | 9.2  | 8.8  | 11.9 | 9.1  | 12.4 | 8.8  | 7.2  | 10.4 | 1.96 | 8.75 | 12.1 |
| 19-33-36 | 2.33  | 106      | 1.07           | 1.12           | 1.09           | 1.14 | 1.27 | 50.7  | 8.7  | 8.6  | 8.1  | 11.1 | 8.5  | 11.7 | 8.2  | 6.6  | 9.6  | 1.95 | 8.65 | 11.5 |
| 19-33-37 | 2.09  | 94       | 1.10           | 1.13           | 1.11           | 1.15 | 1.30 | 44.2  | 8.4  | 8.3  | 8.0  | 10.9 | 8.2  | 11.3 | 7.9  | 6.3  | 9.3  | 1.94 | 8.74 | 11.2 |
| 19-33-38 | 1.70  | 80       | 1.12           | 1.14           | 1.14           | 1.16 | 1.33 | 34.1  | 7.7  | 7.6  | 7.5  | 10.3 | 7.5  | 10.4 | 7.2  | 5.8  | 8.5  | 1.89 | 9.16 | 10.5 |
| 19-33-39 | 1.51  | 72       | 1.12           | 1.14           | 1.14           | 1.17 | 1.35 | 30.2  | 7.4  | 7.3  | 7.2  | 9.9  | 7.2  | 10.0 | 6.9  | 5.4  | 8.1  | 1.88 | 9.22 | 10.1 |
| 19-33-40 | 1.11  | 53       | 1.15           | 1.14           | 1.17           | 1.16 | 1.36 | 22.5  | 7.0  | 6.9  | 7.1  | 9.8  | 6.8  | 9.5  | 6.6  | 5.2  | 7.8  | 1.87 | 9.06 | 9.8  |
| 19-33-41 | 0.90  | 43       | 1.15           | 1.15           | 1.17           | 1.17 | 1.38 | 18.2  | 7.0  | 6.9  | 7.0  | 9.7  | 6.8  | 9.5  | 6.6  | 5.0  | 7.7  | 1.85 | 9.13 | 9.7  |
| 19-33-42 | 0.81  | 41       | 1.15           | 1.14           | 1.17           | 1.16 | 1.36 | 16.9  | 7.4  | 7.3  | 7.5  | 10.2 | 7.2  | 10.0 | 6.9  | 5.6  | 8.3  | 1.86 | 8.72 | 10.2 |
| 19-33-43 | 0.73  | 36       | 1.16           | 1.13           | 1.17           | 1.15 | 1.34 | 15.0  | 8.0  | 7.8  | 8.3  | 11.1 | 7.8  | 10.7 | 7.4  | 6.3  | 9.0  | 1.84 | 8.91 | 10.9 |
| 19-33-44 | 7.92  | 602      | 1.09           | 1.11           | 1.10           | 1.12 | 1.22 | 158.8 | 12.7 | 11.4 | 12.4 | 15.0 | 12.4 | 15.4 | 10.9 | 10.8 | 13.4 | 1.99 | 9.13 | 15.8 |
| 19-33-45 | 7.01  | 555      | 1.09           | 1.11           | 1.11           | 1.12 | 1.23 | 140.6 | 11.9 | 10.7 | 11.6 | 14.1 | 11.7 | 14.6 | 10.3 | 10.0 | 12.5 | 1.98 | 9.10 | 15.0 |
| 19-33-46 | 6.30  | 501      | 1.09           | 1.11           | 1.11           | 1.13 | 1.24 | 125.3 | 11.6 | 10.4 | 11.3 | 13.8 | 11.3 | 14.2 | 10.0 | 9.7  | 12.1 | 1.97 | 9.17 | 14.6 |
| 19-33-47 | 5.66  | 457      | 1.10           | 1.11           | 1.11           | 1.13 | 1.24 | 112.6 | 11.4 | 10.2 | 11.2 | 13.6 | 11.2 | 14.0 | 9.9  | 9.5  | 11.9 | 1.97 | 9.14 | 14.4 |
| 19-33-48 | 5.08  | 422      | 1.10           | 1.11           | 1.11           | 1.13 | 1.25 | 101.3 | 11.0 | 9.9  | 10.8 | 13.2 | 10.8 | 13.6 | 9.6  | 9.1  | 11.5 | 1.96 | 9.11 | 14.0 |
| 19-33-49 | 4.58  | 390      | 1.10           | 1.12           | 1.11           | 1.14 | 1.26 | 92.0  | 10.7 | 9.6  | 10.3 | 12.7 | 10.4 | 13.1 | 9.3  | 8.7  | 11.0 | 1.96 | 9.05 | 13.6 |
| 19-33-50 | 4.23  | 366      | 1.10           | 1.12           | 1.12           | 1.14 | 1.27 | 84.7  | 10.5 | 9.4  | 10.1 | 12.4 | 10.3 | 12.9 | 9.1  | 8.4  | 10.7 | 1.95 | 9.05 | 13.3 |

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| VERS.NR.  | RE*E4 | RE1*E4 | F      | F1     | STB    | STPR   | F1/F2 | TW/TB | TW/T1 | PR   | H/Y   | BETA | H+    | H+W   | H+R   | H+RW  | RH+  | RH+01 | RH+R |
|-----------|-------|--------|--------|--------|--------|--------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|------|-------|------|
| 19-33- 51 | 3.85  | 6.09   | .01248 | .02440 | .00673 | .00622 | 3.77  | 1.52  | 1.48  | .667 | .0586 | .854 | 77.0  | 40.1  | 81.6  | 42.4  | 4.20 | 3.49  | 3.69 |
| 19-33- 52 | 3.42  | 5.36   | .01263 | .02449 | .00671 | .00622 | 3.69  | 1.53  | 1.49  | .667 | .0589 | .852 | 68.4  | 35.5  | 72.5  | 37.6  | 4.20 | 3.49  | 3.69 |
| 19-33- 53 | 3.10  | 4.83   | .01278 | .02470 | .00687 | .00634 | 3.64  | 1.51  | 1.48  | .667 | .0592 | .851 | 62.3  | 32.7  | 65.9  | 34.6  | 4.17 | 3.46  | 3.68 |
| 19-33- 54 | 2.76  | 4.27   | .01298 | .02498 | .00707 | .00652 | 3.59  | 1.51  | 1.47  | .667 | .0595 | .850 | 55.7  | 29.4  | 58.9  | 31.1  | 4.14 | 3.42  | 3.65 |
| 19-33- 55 | 2.49  | 3.80   | .01305 | .02488 | .00713 | .00660 | 3.50  | 1.52  | 1.48  | .667 | .0600 | .847 | 50.0  | 26.1  | 52.9  | 27.7  | 4.18 | 3.46  | 3.68 |
| 19-33- 56 | 2.23  | 3.40   | .01334 | .02541 | .00731 | .00674 | 3.48  | 1.51  | 1.47  | .667 | .0601 | .847 | 45.2  | 24.0  | 47.8  | 25.4  | 4.09 | 3.37  | 3.61 |
| 19-33- 57 | 2.02  | 3.00   | .01317 | .02458 | .00723 | .00669 | 3.30  | 1.52  | 1.47  | .667 | .0610 | .842 | 40.0  | 21.1  | 42.3  | 22.3  | 4.27 | 3.55  | 3.78 |
| 19-33- 58 | 7.64  | 12.03  | .01132 | .02284 | .00549 | .00561 | 4.12  | 1.84  | 1.77  | .667 | .0578 | .860 | 145.0 | 56.2  | 157.5 | 61.1  | 4.47 | 3.77  | 3.72 |
| 19-33- 59 | 6.70  | 10.56  | .01167 | .02361 | .00563 | .00574 | 4.14  | 1.84  | 1.77  | .667 | .0578 | .860 | 129.3 | 50.3  | 140.5 | 54.6  | 4.31 | 3.61  | 3.58 |
| 19-33- 60 | 6.04  | 9.30   | .01147 | .02278 | .00575 | .00584 | 3.93  | 1.82  | 1.75  | .667 | .0586 | .855 | 113.9 | 45.3  | 123.5 | 49.1  | 4.52 | 3.81  | 3.79 |
| 19-33- 61 | 5.40  | 8.23   | .01160 | .02289 | .00588 | .00596 | 3.86  | 1.82  | 1.74  | .667 | .0590 | .854 | 101.7 | 40.7  | 110.2 | 44.1  | 4.51 | 3.80  | 3.79 |
| 19-33- 62 | 4.85  | 7.32   | .01169 | .02289 | .00594 | .00602 | 3.78  | 1.82  | 1.73  | .667 | .0594 | .852 | 91.2  | 36.7  | 98.8  | 39.7  | 4.53 | 3.82  | 3.81 |
| 19-33- 63 | 4.39  | 6.59   | .01186 | .02323 | .00607 | .00615 | 3.75  | 1.81  | 1.73  | .667 | .0595 | .851 | 83.1  | 33.5  | 90.0  | 36.2  | 4.47 | 3.75  | 3.76 |
| 19-33- 64 | 4.02  | 6.00   | .01197 | .02334 | .00615 | .00621 | 3.70  | 1.81  | 1.72  | .667 | .0598 | .849 | 76.2  | 30.9  | 82.5  | 33.5  | 4.46 | 3.74  | 3.75 |
| 19-33- 65 | 3.67  | 5.41   | .01202 | .02326 | .00626 | .00632 | 3.62  | 1.80  | 1.72  | .667 | .0602 | .847 | 69.2  | 28.2  | 74.8  | 30.5  | 4.49 | 3.78  | 3.79 |
| 19-33- 66 | 3.27  | 4.78   | .01220 | .02353 | .00643 | .00647 | 3.57  | 1.79  | 1.71  | .667 | .0605 | .846 | 61.8  | 25.5  | 66.8  | 27.6  | 4.45 | 3.73  | 3.76 |
| 19-33- 67 | 2.94  | 4.25   | .01230 | .02352 | .00650 | .00654 | 3.49  | 1.79  | 1.70  | .667 | .0609 | .844 | 55.5  | 23.0  | 59.9  | 24.9  | 4.47 | 3.75  | 3.79 |
| 19-33- 68 | 2.63  | 3.77   | .01252 | .02381 | .00663 | .00665 | 3.44  | 1.78  | 1.69  | .667 | .0612 | .842 | 49.7  | 20.8  | 53.7  | 22.4  | 4.43 | 3.71  | 3.76 |
| 19-33- 69 | 2.37  | 3.37   | .01261 | .02377 | .00662 | .00664 | 3.36  | 1.78  | 1.69  | .667 | .0617 | .840 | 44.9  | 18.8  | 48.4  | 20.3  | 4.46 | 3.73  | 3.79 |
| 19-33- 70 | 2.13  | 2.98   | .01272 | .02364 | .00668 | .00671 | 3.27  | 1.79  | 1.68  | .667 | .0623 | .838 | 40.0  | 16.9  | 43.2  | 18.2  | 4.51 | 3.78  | 3.84 |
| 19-33- 71 | 1.92  | 2.64   | .01275 | .02330 | .00672 | .00674 | 3.15  | 1.78  | 1.67  | .667 | .0630 | .834 | 35.7  | 15.2  | 38.4  | 16.4  | 4.61 | 3.87  | 3.94 |
| 19-33- 72 | 8.41  | 15.38  | .01276 | .02582 | .0     | .0     | 4.50  | 1.00  | 1.00  | .667 | .0543 | .876 | 182.2 | 182.2 | 182.2 | 182.2 | 3.73 | 3.05  | 3.73 |
| 19-33- 73 | 7.48  | 13.54  | .01271 | .02543 | .0     | .0     | 4.34  | 1.00  | 1.00  | .667 | .0547 | .874 | 160.8 | 160.8 | 160.8 | 160.8 | 3.82 | 3.14  | 3.82 |
| 19-33- 74 | 6.66  | 11.97  | .01277 | .02536 | .0     | .0     | 4.23  | 1.00  | 1.00  | .667 | .0551 | .872 | 143.1 | 143.1 | 143.1 | 143.1 | 3.85 | 3.17  | 3.85 |
| 19-33- 75 | 6.00  | 10.74  | .01297 | .02566 | .0     | .0     | 4.18  | 1.00  | 1.00  | .667 | .0552 | .871 | 129.6 | 129.6 | 129.6 | 129.6 | 3.80 | 3.12  | 3.80 |
| 19-33- 76 | 5.38  | 9.62   | .01327 | .02624 | .0     | .0     | 4.17  | 1.00  | 1.00  | .667 | .0553 | .870 | 117.5 | 117.5 | 117.5 | 117.5 | 3.71 | 3.03  | 3.71 |
| 19-33- 77 | 4.91  | 8.74   | .01347 | .02657 | .0     | .0     | 4.14  | 1.00  | 1.00  | .667 | .0554 | .870 | 107.8 | 107.8 | 107.8 | 107.8 | 3.66 | 2.98  | 3.66 |
| 19-33- 78 | 4.52  | 8.02   | .01361 | .02677 | .0     | .0     | 4.09  | 1.00  | 1.00  | .667 | .0556 | .869 | 99.6  | 99.6  | 99.6  | 99.6  | 3.64 | 2.95  | 3.64 |
| 19-33- 79 | 4.14  | 7.34   | .01390 | .02733 | .0     | .0     | 4.09  | 1.00  | 1.00  | .667 | .0556 | .869 | 92.1  | 92.1  | 92.1  | 92.1  | 3.55 | 2.86  | 3.55 |
| 19-33- 80 | 3.68  | 6.47   | .01389 | .02701 | .0     | .0     | 3.95  | 1.00  | 1.00  | .667 | .0561 | .866 | 81.6  | 81.6  | 81.6  | 81.6  | 3.62 | 2.93  | 3.62 |
| 19-33- 81 | 3.33  | 5.83   | .01415 | .02746 | .0     | .0     | 3.93  | 1.00  | 1.00  | .667 | .0562 | .865 | 74.4  | 74.4  | 74.4  | 74.4  | 3.56 | 2.87  | 3.56 |
| 19-33- 82 | 2.97  | 5.18   | .01440 | .02784 | .0     | .0     | 3.88  | 1.00  | 1.00  | .667 | .0564 | .864 | 66.7  | 66.7  | 66.7  | 66.7  | 3.51 | 2.82  | 3.51 |
| 19-33- 83 | 2.67  | 4.63   | .01457 | .02800 | .0     | .0     | 3.81  | 1.00  | 1.00  | .667 | .0567 | .862 | 60.2  | 60.2  | 60.2  | 60.2  | 3.50 | 2.80  | 3.50 |
| 19-33- 84 | 2.41  | 4.15   | .01476 | .02821 | .0     | .0     | 3.74  | 1.00  | 1.00  | .667 | .0569 | .861 | 54.5  | 54.5  | 54.5  | 54.5  | 3.48 | 2.78  | 3.48 |
| 19-33- 85 | 2.17  | 3.71   | .01487 | .02819 | .0     | .0     | 3.65  | 1.00  | 1.00  | .667 | .0573 | .859 | 49.0  | 49.0  | 49.0  | 49.0  | 3.50 | 2.80  | 3.50 |
| 19-33- 86 | 2.00  | 3.32   | .01405 | .02569 | .0     | .0     | 3.30  | 1.00  | 1.00  | .667 | .0588 | .851 | 43.3  | 43.3  | 43.3  | 43.3  | 3.97 | 3.26  | 3.97 |
| 19-33- 87 | 1.76  | 2.90   | .01426 | .02586 | .0     | .0     | 3.23  | 1.00  | 1.00  | .667 | .0592 | .849 | 38.1  | 38.1  | 38.1  | 38.1  | 3.96 | 3.25  | 3.96 |
| 19-33- 88 | 1.57  | 2.59   | .01474 | .02677 | .0     | .0     | 3.24  | 1.00  | 1.00  | .667 | .0591 | .849 | 34.6  | 34.6  | 34.6  | 34.6  | 3.81 | 3.10  | 3.81 |
| 19-33- 89 | 1.41  | 2.28   | .01449 | .02572 | .0     | .0     | 3.05  | 1.00  | 1.00  | .667 | .0601 | .844 | 30.6  | 30.6  | 30.6  | 30.6  | 4.02 | 3.31  | 4.02 |
| 19-33- 90 | 1.28  | 2.06   | .01483 | .02629 | .0     | .0     | 3.04  | 1.00  | 1.00  | .667 | .0602 | .844 | 28.0  | 28.0  | 28.0  | 28.0  | 3.93 | 3.21  | 3.93 |
| 19-33- 91 | 1.15  | 1.85   | .01488 | .02603 | .0     | .0     | 2.94  | 1.00  | 1.00  | .667 | .0608 | .841 | 25.2  | 25.2  | 25.2  | 25.2  | 4.00 | 3.28  | 4.00 |
| 19-33- 92 | 1.04  | 1.64   | .01481 | .02545 | .0     | .0     | 2.81  | 1.00  | 1.00  | .667 | .0615 | .837 | 22.5  | 22.5  | 22.5  | 22.5  | 4.13 | 3.41  | 4.13 |
| 19-33- 93 | 0.94  | 1.50   | .01579 | .02769 | .0     | .0     | 2.96  | 1.00  | 1.00  | .667 | .0607 | .841 | 21.2  | 21.2  | 21.2  | 21.2  | 3.73 | 3.01  | 3.73 |
| 19-33- 94 | 0.84  | 1.34   | .01628 | .02855 | .0     | .0     | 2.95  | 1.00  | 1.00  | .667 | .0608 | .841 | 19.2  | 19.2  | 19.2  | 19.2  | 3.61 | 2.88  | 3.61 |
| 19-33- 95 | 0.75  | 1.18   | .01642 | .02842 | .0     | .0     | 2.86  | 1.00  | 1.00  | .667 | .0614 | .838 | 17.1  | 17.1  | 17.1  | 17.1  | 3.65 | 2.92  | 3.65 |
| 19-33- 96 | 0.66  | 1.06   | .01779 | .03155 | .0     | .0     | 3.04  | 1.00  | 1.00  | .667 | .0604 | .843 | 15.8  | 15.8  | 15.8  | 15.8  | 3.19 | 2.47  | 3.19 |
| 19-33- 97 | 38.47 | 76.43  | .01218 | .02678 | .0     | .0     | 6.15  | 1.00  | 1.00  | .667 | .0507 | .899 | 848.7 | 848.7 | 848.7 | 848.7 | 3.39 | 2.74  | 3.39 |
| 19-33- 98 | 34.46 | 68.40  | .01245 | .02737 | .0     | .0     | 6.15  | 1.00  | 1.00  | .667 | .0508 | .899 | 768.2 | 768.2 | 768.2 | 768.2 | 3.30 | 2.65  | 3.30 |
| 19-33- 99 | 30.55 | 60.35  | .01254 | .02745 | .0     | .0     | 6.04  | 1.00  | 1.00  | .667 | .0509 | .898 | 681.9 | 681.9 | 681.9 | 681.9 | 3.29 | 2.64  | 3.29 |
| 19-33-100 | 27.41 | 53.90  | .01261 | .02749 | .0     | .0     | 5.93  | 1.00  | 1.00  | .667 | .0511 | .896 | 612.2 | 612.2 | 612.2 | 612.2 | 3.30 | 2.64  | 3.30 |

| VERS.NR.  | RE#E4 | Q<KW/M2> | ST1+/<br>ST1*/ | STT+/<br>STT*/ | ST1F/<br>ST1F*/ | H+   | G+   | GPR01 | G*   | G*R  | GT   | GTR  | GTR1 | GTF  | GTFR | X    | YR   | YG   |      |      |
|-----------|-------|----------|----------------|----------------|-----------------|------|------|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 19-33- 51 | 3.85  | 342      | 1.10           | 1.13           | 1.12            | 1.14 | 1.28 | 77.0  | 10.0 | 9.0  | 9.7  | 12.0 | 9.8  | 12.4 | 8.7  | 8.0  | 10.2 | 1.95 | 9.05 | 12.9 |
| 19-33- 52 | 3.42  | 306      | 1.11           | 1.13           | 1.12            | 1.14 | 1.28 | 68.4  | 10.1 | 9.1  | 9.8  | 12.0 | 9.9  | 12.5 | 8.7  | 8.0  | 10.3 | 1.94 | 9.04 | 12.9 |
| 19-33- 53 | 3.10  | 278      | 1.11           | 1.13           | 1.12            | 1.15 | 1.29 | 62.3  | 9.8  | 8.8  | 9.5  | 11.7 | 9.6  | 12.2 | 8.5  | 7.7  | 9.9  | 1.94 | 9.00 | 12.6 |
| 19-33- 54 | 2.76  | 254      | 1.11           | 1.13           | 1.13            | 1.15 | 1.30 | 55.7  | 9.4  | 8.5  | 9.1  | 11.3 | 9.2  | 11.8 | 8.2  | 7.3  | 9.5  | 1.93 | 8.95 | 12.2 |
| 19-33- 55 | 2.49  | 237      | 1.11           | 1.14           | 1.13            | 1.15 | 1.31 | 50.0  | 9.3  | 8.3  | 9.0  | 11.1 | 9.0  | 11.5 | 8.0  | 7.2  | 9.3  | 1.92 | 8.97 | 12.0 |
| 19-33- 56 | 2.23  | 211      | 1.11           | 1.14           | 1.13            | 1.16 | 1.31 | 45.2  | 9.0  | 8.2  | 8.7  | 10.9 | 8.8  | 11.3 | 7.9  | 6.9  | 9.1  | 1.92 | 8.87 | 11.7 |
| 19-33- 57 | 2.02  | 193      | 1.12           | 1.14           | 1.14            | 1.16 | 1.32 | 40.0  | 8.9  | 8.1  | 8.7  | 10.8 | 8.7  | 11.2 | 7.8  | 6.8  | 8.9  | 1.90 | 9.02 | 11.6 |
| 19-33- 58 | 7.64  | 965      | 1.10           | 1.11           | 1.12            | 1.13 | 1.24 | 145.0 | 12.8 | 10.5 | 12.6 | 13.8 | 12.5 | 14.4 | 10.2 | 10.8 | 12.0 | 1.96 | 9.36 | 15.7 |
| 19-33- 59 | 6.70  | 873      | 1.10           | 1.11           | 1.12            | 1.13 | 1.24 | 129.3 | 12.6 | 10.3 | 12.4 | 13.6 | 12.4 | 14.3 | 10.1 | 10.6 | 11.8 | 1.96 | 9.20 | 15.5 |
| 19-33- 60 | 6.04  | 794      | 1.11           | 1.11           | 1.12            | 1.13 | 1.26 | 113.9 | 11.9 | 9.8  | 11.8 | 13.0 | 11.7 | 13.6 | 9.5  | 9.9  | 11.1 | 1.94 | 9.37 | 14.8 |
| 19-33- 61 | 5.40  | 726      | 1.11           | 1.12           | 1.13            | 1.13 | 1.27 | 101.7 | 11.5 | 9.5  | 11.4 | 12.6 | 11.3 | 13.2 | 9.2  | 9.5  | 10.7 | 1.94 | 9.35 | 14.4 |
| 19-33- 62 | 4.85  | 660      | 1.11           | 1.12           | 1.13            | 1.14 | 1.27 | 91.2  | 11.4 | 9.4  | 11.3 | 12.5 | 11.1 | 13.0 | 9.1  | 9.3  | 10.5 | 1.93 | 9.35 | 14.2 |
| 19-33- 63 | 4.39  | 611      | 1.11           | 1.12           | 1.13            | 1.14 | 1.28 | 83.1  | 11.1 | 9.2  | 11.0 | 12.2 | 10.9 | 12.7 | 8.9  | 9.0  | 10.2 | 1.93 | 9.28 | 13.9 |
| 19-33- 64 | 4.02  | 563      | 1.11           | 1.12           | 1.13            | 1.14 | 1.29 | 76.2  | 10.9 | 9.1  | 10.8 | 12.0 | 10.7 | 12.6 | 8.8  | 8.9  | 10.0 | 1.92 | 9.26 | 13.7 |
| 19-33- 65 | 3.67  | 525      | 1.12           | 1.13           | 1.14            | 1.14 | 1.30 | 69.2  | 10.6 | 8.8  | 10.5 | 11.7 | 10.4 | 12.2 | 8.5  | 8.5  | 9.6  | 1.92 | 9.27 | 13.3 |
| 19-33- 66 | 3.27  | 475      | 1.12           | 1.13           | 1.14            | 1.15 | 1.31 | 61.8  | 10.3 | 8.5  | 10.1 | 11.3 | 10.0 | 11.9 | 8.3  | 8.1  | 9.3  | 1.91 | 9.22 | 12.9 |
| 19-33- 67 | 2.94  | 431      | 1.12           | 1.13           | 1.14            | 1.15 | 1.31 | 55.5  | 10.1 | 8.4  | 10.0 | 11.2 | 9.9  | 11.7 | 8.1  | 7.9  | 9.1  | 1.90 | 9.22 | 12.7 |
| 19-33- 68 | 2.63  | 391      | 1.13           | 1.13           | 1.14            | 1.15 | 1.32 | 49.7  | 9.9  | 8.2  | 9.8  | 11.0 | 9.6  | 11.5 | 8.0  | 7.7  | 8.9  | 1.90 | 9.17 | 12.5 |
| 19-33- 69 | 2.37  | 351      | 1.13           | 1.13           | 1.15            | 1.15 | 1.32 | 44.9  | 9.9  | 8.2  | 9.8  | 11.0 | 9.7  | 11.5 | 8.0  | 7.7  | 8.9  | 1.89 | 9.17 | 12.4 |
| 19-33- 70 | 2.13  | 319      | 1.13           | 1.13           | 1.15            | 1.15 | 1.33 | 40.0  | 9.7  | 8.1  | 9.7  | 10.8 | 9.5  | 11.3 | 7.8  | 7.5  | 8.6  | 1.88 | 9.20 | 12.2 |
| 19-33- 71 | 1.92  | 286      | 1.14           | 1.13           | 1.16            | 1.15 | 1.34 | 35.7  | 9.5  | 7.9  | 9.5  | 10.7 | 9.2  | 11.1 | 7.7  | 7.3  | 8.4  | 1.87 | 9.27 | 12.0 |
| 19-33- 72 | 8.41  | 0        | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 182.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.03 | 8.80 | 0.0  |
| 19-33- 73 | 7.48  | 0        | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 160.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.02 | 8.87 | 0.0  |
| 19-33- 74 | 6.66  | 0        | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 143.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.01 | 8.88 | 0.0  |
| 19-33- 75 | 6.00  | 0        | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 129.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.01 | 8.83 | 0.0  |
| 19-33- 76 | 5.38  | 0        | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 117.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.01 | 8.73 | 0.0  |
| 19-33- 77 | 4.91  | 0        | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 107.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.01 | 8.68 | 0.0  |
| 19-33- 78 | 4.52  | 0        | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 99.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.00 | 8.64 | 0.0  |
| 19-33- 79 | 4.14  | 0        | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 92.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.00 | 8.55 | 0.0  |
| 19-33- 80 | 3.68  | 0        | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 81.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.99 | 8.61 | 0.0  |
| 19-33- 81 | 3.33  | 0        | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 74.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.99 | 8.53 | 0.0  |
| 19-33- 82 | 2.97  | 0        | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 66.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.99 | 8.48 | 0.0  |
| 19-33- 83 | 2.67  | 0        | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 60.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.98 | 8.45 | 0.0  |
| 19-33- 84 | 2.41  | 0        | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 54.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.98 | 8.42 | 0.0  |
| 19-33- 85 | 2.17  | 0        | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 49.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.97 | 8.42 | 0.0  |
| 19-33- 86 | 2.00  | 0        | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 43.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.94 | 8.82 | 0.0  |
| 19-33- 87 | 1.76  | 0        | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 38.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.94 | 8.79 | 0.0  |
| 19-33- 88 | 1.57  | 0        | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 34.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.94 | 8.64 | 0.0  |
| 19-33- 89 | 1.41  | 0        | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 30.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.92 | 8.82 | 0.0  |
| 19-33- 90 | 1.28  | 0        | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 28.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.92 | 8.72 | 0.0  |
| 19-33- 91 | 1.15  | 0        | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 25.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.91 | 8.77 | 0.0  |
| 19-33- 92 | 1.04  | 0        | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 22.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.89 | 8.86 | 0.0  |
| 19-33- 93 | 0.94  | 0        | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 21.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.91 | 8.50 | 0.0  |
| 19-33- 94 | 0.84  | 0        | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 19.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.91 | 8.37 | 0.0  |
| 19-33- 95 | 0.75  | 0        | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 17.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.90 | 8.39 | 0.0  |
| 19-33- 96 | 0.66  | 0        | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 15.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.91 | 7.96 | 0.0  |
| 19-33- 97 | 38.47 | 0        | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 848.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.10 | 8.64 | 0.0  |
| 19-33- 98 | 34.46 | 0        | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 768.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.10 | 8.55 | 0.0  |
| 19-33- 99 | 30.55 | 0        | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 681.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.10 | 8.54 | 0.0  |
| 19-33-100 | 27.41 | 0        | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 612.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.09 | 8.53 | 0.0  |

HELIUM

| VERS.     | NR. | RE*E4 | WE1*E4 | F      | F1     | STB | STPR | F1/F2 | TW/TH | TW/T1 | PR   | H/Y   | BETA | H+    | H+W   | H+P   | H+RW  | RH+  | RH+01 | RH+R |
|-----------|-----|-------|--------|--------|--------|-----|------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|------|-------|------|
| 19-33-101 |     | 24.60 | 48.01  | .01252 | .02706 | .0  | .0   | 5.74  | 1.00  | 1.00  | .667 | .0514 | .894 | 545.2 | 545.2 | 545.2 | 545.2 | 3.38 | 2.73  | 3.38 |
| 19-33-102 |     | 22.09 | 42.93  | .01264 | .02723 | .0  | .0   | 5.67  | 1.00  | 1.00  | .667 | .0516 | .893 | 491.0 | 491.0 | 491.0 | 491.0 | 3.36 | 2.71  | 3.36 |
| 19-33-103 |     | 20.41 | 39.39  | .01251 | .02674 | .0  | .0   | 5.50  | 1.00  | 1.00  | .667 | .0519 | .891 | 449.7 | 449.7 | 449.7 | 449.7 | 3.46 | 2.80  | 3.46 |
| 19-33-104 |     | 18.76 | 36.14  | .01266 | .02703 | .0  | .0   | 5.46  | 1.00  | 1.00  | .667 | .0520 | .891 | 415.5 | 415.5 | 415.5 | 415.5 | 3.42 | 2.76  | 3.42 |
| 19-33-105 |     | 17.21 | 33.05  | .01279 | .02724 | .0  | .0   | 5.41  | 1.00  | 1.00  | .667 | .0521 | .890 | 382.7 | 382.7 | 382.7 | 382.7 | 3.39 | 2.73  | 3.39 |
| 19-33-106 |     | 15.31 | 29.24  | .01287 | .02727 | .0  | .0   | 5.30  | 1.00  | 1.00  | .667 | .0523 | .888 | 340.5 | 340.5 | 340.5 | 340.5 | 3.40 | 2.73  | 3.40 |
| 19-33-107 |     | 13.82 | 26.26  | .01292 | .02723 | .0  | .0   | 5.20  | 1.00  | 1.00  | .667 | .0526 | .887 | 307.2 | 307.2 | 307.2 | 307.2 | 3.41 | 2.75  | 3.41 |
| 19-33-108 |     | 12.34 | 23.31  | .01302 | .02731 | .0  | .0   | 5.10  | 1.00  | 1.00  | .667 | .0528 | .885 | 274.5 | 274.5 | 274.5 | 274.5 | 3.41 | 2.75  | 3.41 |
| 19-33-109 |     | 11.11 | 20.86  | .01304 | .02715 | .0  | .0   | 4.97  | 1.00  | 1.00  | .667 | .0531 | .884 | 246.6 | 246.6 | 246.6 | 246.6 | 3.45 | 2.79  | 3.45 |
| 19-33-110 |     | 9.99  | 18.72  | .01334 | .02780 | .0  | .0   | 4.97  | 1.00  | 1.00  | .667 | .0531 | .883 | 224.1 | 224.1 | 224.1 | 224.1 | 3.35 | 2.69  | 3.35 |
| 19-33-111 |     | 9.06  | 16.88  | .01334 | .02758 | .0  | .0   | 4.84  | 1.00  | 1.00  | .667 | .0534 | .882 | 202.7 | 202.7 | 202.7 | 202.7 | 3.40 | 2.73  | 3.40 |
| 19-33-112 |     | 8.04  | 14.97  | .01374 | .02844 | .0  | .0   | 4.86  | 1.00  | 1.00  | .667 | .0534 | .882 | 182.5 | 182.5 | 182.5 | 182.5 | 3.27 | 2.60  | 3.27 |



| VERS.NR.  | RE*E4 | Q<KW/M2> | ST1+/<br>ST1*/ | STT+/<br>STT*/ | STIF/<br>STIF/ | H*  | G*    | GPR01 | G*  | G*R | GT  | GTR | GTR1 | GTF | GTFR | X    | YR   | YG  |
|-----------|-------|----------|----------------|----------------|----------------|-----|-------|-------|-----|-----|-----|-----|------|-----|------|------|------|-----|
| 19-33-101 | 24.60 | 0        | 0.0            | 0.0            | 0.0            | 0.0 | 545.2 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.09 | 8.60 | 0.0 |
| 19-33-102 | 22.09 | 0        | 0.0            | 0.0            | 0.0            | 0.0 | 491.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.08 | 8.57 | 0.0 |
| 19-33-103 | 20.41 | 0        | 0.0            | 0.0            | 0.0            | 0.0 | 449.7 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.08 | 8.65 | 0.0 |
| 19-33-104 | 18.76 | 0        | 0.0            | 0.0            | 0.0            | 0.0 | 415.5 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.08 | 8.60 | 0.0 |
| 19-33-105 | 17.21 | 0        | 0.0            | 0.0            | 0.0            | 0.0 | 382.7 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.07 | 8.57 | 0.0 |
| 19-33-106 | 15.31 | 0        | 0.0            | 0.0            | 0.0            | 0.0 | 340.5 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.07 | 8.56 | 0.0 |
| 19-33-107 | 13.82 | 0        | 0.0            | 0.0            | 0.0            | 0.0 | 307.2 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.06 | 8.57 | 0.0 |
| 19-33-108 | 12.34 | 0        | 0.0            | 0.0            | 0.0            | 0.0 | 274.5 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.06 | 8.56 | 0.0 |
| 19-33-109 | 11.11 | 0        | 0.0            | 0.0            | 0.0            | 0.0 | 246.6 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.05 | 8.58 | 0.0 |
| 19-33-110 | 9.99  | 0        | 0.0            | 0.0            | 0.0            | 0.0 | 224.1 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.05 | 8.48 | 0.0 |
| 19-33-111 | 9.06  | 0        | 0.0            | 0.0            | 0.0            | 0.0 | 202.7 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.05 | 8.52 | 0.0 |
| 19-33-112 | 8.04  | 0        | 0.0            | 0.0            | 0.0            | 0.0 | 182.5 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.05 | 8.39 | 0.0 |

NITROGEN

| VERS.NR.  | RE*E4 | RE1*E4 | F      | F1     | STH    | STPR   | F1/F2 | TW/TB | TW/T1 | PR   | H/Y   | RETA | H+     | H+W    | H+R    | H+RW   | RH+  | RH+01 | RH+R |
|-----------|-------|--------|--------|--------|--------|--------|-------|-------|-------|------|-------|------|--------|--------|--------|--------|------|-------|------|
| 19-33- 1  | 50.51 | 99.19  | .01153 | .02565 | .00437 | .00374 | 6.26  | 1.26  | 1.26  | .689 | .0509 | .899 | 1083.0 | 735.1  | 1119.8 | 760.1  | 3.58 | 2.93  | 3.29 |
| 19-33- 2  | 44.21 | 86.52  | .01156 | .02532 | .00454 | .00389 | 6.02  | 1.27  | 1.26  | .689 | .0511 | .897 | 944.1  | 637.5  | 976.6  | 659.5  | 3.65 | 3.00  | 3.36 |
| 19-33- 3  | 39.37 | 76.48  | .01153 | .02506 | .00460 | .00394 | 5.85  | 1.27  | 1.26  | .689 | .0514 | .895 | 836.2  | 564.5  | 865.0  | 584.0  | 3.72 | 3.06  | 3.42 |
| 19-33- 4  | 36.40 | 70.23  | .01144 | .02471 | .00469 | .00402 | 5.70  | 1.27  | 1.26  | .689 | .0517 | .893 | 767.4  | 517.7  | 793.9  | 535.6  | 3.79 | 3.14  | 3.49 |
| 19-33- 5  | 33.50 | 64.48  | .01154 | .02489 | .00481 | .00411 | 5.66  | 1.26  | 1.26  | .689 | .0518 | .893 | 708.6  | 482.6  | 732.5  | 498.8  | 3.77 | 3.11  | 3.47 |
| 19-33- 6  | 30.50 | 58.73  | .01181 | .02549 | .00490 | .00419 | 5.69  | 1.26  | 1.26  | .689 | .0518 | .893 | 652.8  | 444.2  | 674.8  | 459.2  | 3.66 | 3.00  | 3.37 |
| 19-33- 7  | 27.16 | 51.92  | .01182 | .02535 | .00499 | .00428 | 5.54  | 1.27  | 1.27  | .689 | .0521 | .891 | 579.5  | 390.3  | 599.6  | 403.8  | 3.70 | 3.04  | 3.40 |
| 19-33- 8  | 24.42 | 46.48  | .01193 | .02551 | .00519 | .00445 | 5.47  | 1.27  | 1.26  | .689 | .0522 | .890 | 522.3  | 352.9  | 540.3  | 365.1  | 3.68 | 3.02  | 3.38 |
| 19-33- 9  | 21.75 | 41.13  | .01198 | .02549 | .00527 | .00452 | 5.35  | 1.27  | 1.27  | .689 | .0525 | .889 | 464.8  | 312.6  | 481.0  | 323.5  | 3.70 | 3.03  | 3.40 |
| 19-33- 10 | 19.60 | 36.83  | .01206 | .02554 | .00545 | .00468 | 5.26  | 1.28  | 1.27  | .689 | .0527 | .887 | 418.7  | 280.2  | 433.4  | 290.0  | 3.70 | 3.03  | 3.40 |
| 19-33- 11 | 17.58 | 32.92  | .01222 | .02582 | .00551 | .00473 | 5.21  | 1.28  | 1.27  | .689 | .0528 | .886 | 377.5  | 253.0  | 390.7  | 261.9  | 3.66 | 2.99  | 3.36 |
| 19-33- 12 | 15.84 | 29.48  | .01227 | .02579 | .00569 | .00489 | 5.11  | 1.28  | 1.27  | .689 | .0531 | .885 | 339.8  | 226.1  | 351.9  | 234.2  | 3.68 | 3.01  | 3.37 |
| 19-33- 13 | 14.25 | 26.21  | .01210 | .02513 | .00585 | .00502 | 4.89  | 1.27  | 1.26  | .689 | .0536 | .882 | 301.6  | 204.4  | 311.9  | 211.4  | 3.82 | 3.14  | 3.52 |
| 19-33- 14 | 13.24 | 24.18  | .01206 | .02489 | .00590 | .00506 | 4.79  | 1.28  | 1.27  | .689 | .0538 | .880 | 278.7  | 187.1  | 288.5  | 193.6  | 3.87 | 3.20  | 3.57 |
| 19-33- 15 | 12.04 | 21.87  | .01217 | .02500 | .00592 | .00509 | 4.72  | 1.28  | 1.27  | .689 | .0540 | .879 | 253.8  | 169.5  | 262.8  | 175.5  | 3.86 | 3.19  | 3.56 |
| 19-33- 16 | 10.74 | 19.38  | .01223 | .02494 | .00617 | .00530 | 4.61  | 1.27  | 1.26  | .689 | .0543 | .877 | 226.1  | 153.0  | 233.9  | 158.3  | 3.89 | 3.21  | 3.59 |
| 19-33- 17 | 8.65  | 15.16  | .01239 | .02527 | .00651 | .00560 | 4.51  | 1.28  | 1.27  | .689 | .0550 | .873 | 180.7  | 121.7  | 187.0  | 125.9  | 3.87 | 3.19  | 3.57 |
| 19-33- 18 | 6.34  | 10.73  | .01239 | .02448 | .00659 | .00569 | 4.12  | 1.29  | 1.27  | .690 | .0563 | .866 | 129.5  | 86.9   | 134.1  | 89.9   | 4.07 | 3.38  | 3.77 |
| 19-33- 19 | 5.77  | 9.75   | .01250 | .02459 | .00663 | .00570 | 4.06  | 1.27  | 1.25  | .690 | .0565 | .864 | 118.4  | 81.3   | 122.3  | 83.9   | 4.07 | 3.38  | 3.78 |
| 19-33- 20 | 49.11 | 94.62  | .01116 | .02438 | .00420 | .00392 | 5.95  | 1.59  | 1.58  | .687 | .0516 | .896 | 1023.8 | 469.4  | 1093.7 | 501.5  | 3.84 | 3.19  | 3.27 |
| 19-33- 21 | 43.56 | 82.00  | .01115 | .02461 | .00438 | .00409 | 5.96  | 1.59  | 1.57  | .686 | .0519 | .893 | 899.8  | 414.5  | 960.9  | 442.7  | 3.82 | 3.17  | 3.25 |
| 19-33- 22 | 38.84 | 72.42  | .01109 | .02430 | .00446 | .00416 | 5.78  | 1.59  | 1.57  | .686 | .0523 | .891 | 796.1  | 368.5  | 849.8  | 393.4  | 3.90 | 3.24  | 3.33 |
| 19-33- 23 | 35.96 | 66.72  | .01111 | .02425 | .00449 | .00419 | 5.69  | 1.59  | 1.57  | .686 | .0525 | .890 | 735.7  | 340.8  | 785.3  | 363.7  | 3.92 | 3.26  | 3.35 |
| 19-33- 24 | 32.99 | 60.98  | .01125 | .02454 | .00465 | .00434 | 5.67  | 1.59  | 1.57  | .686 | .0526 | .889 | 677.7  | 313.8  | 723.4  | 335.0  | 3.87 | 3.21  | 3.30 |
| 19-33- 25 | 30.06 | 55.42  | .01138 | .02481 | .00471 | .00440 | 5.64  | 1.59  | 1.57  | .686 | .0527 | .889 | 620.7  | 287.0  | 662.6  | 306.4  | 3.83 | 3.16  | 3.26 |
| 19-33- 26 | 26.69 | 49.19  | .01169 | .02554 | .00485 | .00452 | 5.67  | 1.59  | 1.57  | .686 | .0526 | .889 | 558.8  | 259.0  | 596.4  | 276.4  | 3.70 | 3.03  | 3.14 |
| 19-33- 27 | 24.02 | 44.07  | .01180 | .02572 | .00497 | .00463 | 5.60  | 1.58  | 1.56  | .685 | .0528 | .888 | 504.3  | 234.8  | 538.0  | 250.5  | 3.68 | 3.01  | 3.12 |
| 19-33- 28 | 21.50 | 39.91  | .01193 | .02539 | .00506 | .00472 | 5.36  | 1.59  | 1.57  | .685 | .0529 | .887 | 454.4  | 210.0  | 485.1  | 224.2  | 3.73 | 3.07  | 3.17 |
| 19-33- 29 | 19.21 | 34.73  | .01191 | .02577 | .00521 | .00486 | 5.40  | 1.59  | 1.57  | .685 | .0533 | .885 | 402.5  | 186.8  | 429.5  | 199.4  | 3.69 | 3.02  | 3.14 |
| 19-33- 30 | 17.24 | 31.73  | .01227 | .02599 | .00538 | .00501 | 5.26  | 1.58  | 1.56  | .685 | .0531 | .886 | 367.9  | 171.0  | 392.6  | 182.5  | 3.64 | 2.98  | 3.09 |
| 19-33- 31 | 15.54 | 28.45  | .01238 | .02614 | .00557 | .00518 | 5.18  | 1.58  | 1.56  | .685 | .0533 | .884 | 332.3  | 155.4  | 354.4  | 165.8  | 3.53 | 2.96  | 3.08 |
| 19-33- 32 | 13.99 | 25.39  | .01238 | .02597 | .00575 | .00536 | 5.06  | 1.59  | 1.57  | .685 | .0537 | .882 | 297.8  | 138.0  | 317.8  | 147.3  | 3.68 | 3.00  | 3.12 |
| 19-33- 33 | 12.88 | 22.88  | .01253 | .02647 | .00579 | .00539 | 5.23  | 1.59  | 1.56  | .685 | .0538 | .881 | 274.6  | 128.1  | 292.9  | 136.7  | 3.53 | 2.85  | 2.99 |
| 19-33- 34 | 51.78 | 104.04 | .01196 | .02656 | .0     | .0     | 6.43  | 1.00  | 1.00  | .691 | .0503 | .902 | 1138.2 | 1138.2 | 1138.2 | 1138.2 | 3.40 | 2.75  | 3.40 |
| 19-33- 35 | 46.03 | 91.67  | .01182 | .02599 | .0     | .0     | 6.18  | 1.00  | 1.00  | .691 | .0507 | .900 | 1001.0 | 1001.0 | 1001.0 | 1001.0 | 3.51 | 2.86  | 3.51 |
| 19-33- 36 | 41.38 | 82.04  | .01188 | .02601 | .0     | .0     | 6.07  | 1.00  | 1.00  | .691 | .0508 | .898 | 900.1  | 900.1  | 900.1  | 900.1  | 3.52 | 2.87  | 3.52 |
| 19-33- 37 | 38.11 | 75.05  | .01175 | .02554 | .0     | .0     | 5.89  | 1.00  | 1.00  | .692 | .0511 | .896 | 821.7  | 821.7  | 821.7  | 821.7  | 3.61 | 2.96  | 3.61 |
| 19-33- 38 | 35.25 | 69.26  | .01185 | .02572 | .0     | .0     | 5.85  | 1.00  | 1.00  | .692 | .0512 | .896 | 762.5  | 762.5  | 762.5  | 762.5  | 3.59 | 2.93  | 3.59 |
| 19-33- 39 | 32.17 | 63.07  | .01199 | .02598 | .0     | .0     | 5.81  | 1.00  | 1.00  | .692 | .0513 | .895 | 699.3  | 699.3  | 699.3  | 699.3  | 3.55 | 2.89  | 3.55 |
| 19-33- 40 | 28.69 | 55.97  | .01207 | .02604 | .0     | .0     | 5.70  | 1.00  | 1.00  | .692 | .0515 | .894 | 624.3  | 624.3  | 624.3  | 624.3  | 3.55 | 2.89  | 3.55 |
| 19-33- 41 | 25.89 | 50.23  | .01208 | .02591 | .0     | .0     | 5.57  | 1.00  | 1.00  | .692 | .0517 | .892 | 562.0  | 562.0  | 562.0  | 562.0  | 3.58 | 2.92  | 3.58 |
| 19-33- 42 | 23.04 | 44.40  | .01210 | .02578 | .0     | .0     | 5.43  | 1.00  | 1.00  | .692 | .0520 | .891 | 498.8  | 498.8  | 498.8  | 498.8  | 3.62 | 2.96  | 3.62 |
| 19-33- 43 | 20.75 | 39.80  | .01218 | .02585 | .0     | .0     | 5.34  | 1.00  | 1.00  | .692 | .0522 | .889 | 449.8  | 449.8  | 449.8  | 449.8  | 3.62 | 2.95  | 3.62 |
| 19-33- 44 | 18.68 | 35.97  | .01266 | .02703 | .0     | .0     | 5.45  | 1.00  | 1.00  | .692 | .0520 | .891 | 413.8  | 413.8  | 413.8  | 413.8  | 3.41 | 2.75  | 3.41 |
| 19-33- 45 | 16.85 | 32.18  | .01257 | .02658 | .0     | .0     | 5.27  | 1.00  | 1.00  | .692 | .0524 | .888 | 370.3  | 370.3  | 370.3  | 370.3  | 3.50 | 2.84  | 3.50 |
| 19-33- 46 | 15.09 | 28.84  | .01295 | .02745 | .0     | .0     | 5.32  | 1.00  | 1.00  | .692 | .0523 | .889 | 336.9  | 336.9  | 336.9  | 336.9  | 3.36 | 2.70  | 3.36 |
| 19-33- 47 | 14.12 | 26.98  | .01316 | .02791 | .0     | .0     | 5.33  | 1.00  | 1.00  | .692 | .0523 | .889 | 317.7  | 317.7  | 317.7  | 317.7  | 3.29 | 2.63  | 3.29 |
| 19-33- 48 | 12.80 | 24.38  | .01331 | .02817 | .0     | .0     | 5.27  | 1.00  | 1.00  | .693 | .0524 | .888 | 289.3  | 289.3  | 289.3  | 289.3  | 3.26 | 2.60  | 3.26 |
| 19-33- 49 | 11.50 | 21.75  | .01332 | .02798 | .0     | .0     | 5.14  | 1.00  | 1.00  | .693 | .0527 | .886 | 259.0  | 259.0  | 259.0  | 259.0  | 3.30 | 2.64  | 3.30 |
| 19-33- 50 | 10.40 | 19.60  | .01350 | .02830 | .0     | .0     | 5.09  | 1.00  | 1.00  | .693 | .0529 | .885 | 235.5  | 235.5  | 235.5  | 235.5  | 3.26 | 2.60  | 3.26 |

| VERS.NR. | RE*E4 | Q<KW/M2> | ST1+/<br>ST1*/ | STT+/<br>STT*/ | ST1F/<br>ST1F/ | H+   | G+   | GPR01  | G*   | G*R  | GT   | GTR  | GTR1 | GTF  | GTFR | X    | YR   | YG   |      |      |
|----------|-------|----------|----------------|----------------|----------------|------|------|--------|------|------|------|------|------|------|------|------|------|------|------|------|
| 19-33- 1 | 50.51 | 241      | 1.05           | 1.07           | 1.05           | 1.08 | 1.12 | 1083.0 | 19.5 | 19.0 | 18.9 | 24.1 | 19.3 | 24.7 | 17.9 | 17.9 | 23.0 | 2.10 | 8.83 | 23.1 |
| 19-33- 2 | 44.21 | 225      | 1.04           | 1.07           | 1.05           | 1.07 | 1.12 | 944.1  | 18.5 | 18.0 | 18.0 | 23.0 | 18.3 | 23.5 | 17.0 | 16.9 | 21.8 | 2.09 | 8.89 | 22.1 |
| 19-33- 3 | 39.37 | 203      | 1.04           | 1.07           | 1.05           | 1.09 | 1.12 | 836.2  | 18.1 | 17.6 | 17.6 | 22.4 | 17.9 | 23.0 | 16.6 | 16.4 | 21.3 | 2.09 | 8.93 | 21.7 |
| 19-33- 4 | 36.40 | 193      | 1.05           | 1.07           | 1.06           | 1.08 | 1.13 | 767.4  | 17.4 | 16.9 | 16.9 | 21.7 | 17.2 | 22.2 | 16.0 | 15.8 | 20.5 | 2.08 | 9.00 | 21.0 |
| 19-33- 5 | 33.50 | 177      | 1.05           | 1.07           | 1.06           | 1.08 | 1.13 | 708.6  | 16.9 | 16.5 | 16.5 | 21.2 | 16.8 | 21.6 | 15.6 | 15.3 | 20.0 | 2.08 | 8.96 | 20.5 |
| 19-33- 6 | 30.50 | 165      | 1.05           | 1.07           | 1.06           | 1.08 | 1.13 | 652.8  | 16.8 | 16.4 | 16.3 | 21.0 | 16.6 | 21.5 | 15.5 | 15.2 | 19.8 | 2.08 | 8.86 | 20.4 |
| 19-33- 7 | 27.16 | 154      | 1.05           | 1.07           | 1.06           | 1.08 | 1.14 | 579.5  | 16.3 | 15.8 | 15.8 | 20.3 | 16.1 | 20.8 | 15.0 | 14.7 | 19.1 | 2.07 | 8.88 | 19.8 |
| 19-33- 8 | 24.42 | 143      | 1.05           | 1.07           | 1.06           | 1.08 | 1.14 | 522.3  | 15.6 | 15.1 | 15.1 | 19.4 | 15.4 | 19.9 | 14.3 | 13.9 | 18.2 | 2.07 | 8.85 | 19.1 |
| 19-33- 9 | 21.75 | 131      | 1.05           | 1.08           | 1.06           | 1.09 | 1.15 | 464.8  | 15.2 | 14.8 | 14.7 | 19.0 | 15.0 | 19.5 | 14.0 | 13.5 | 17.8 | 2.07 | 8.86 | 18.7 |
| 19-33-10 | 19.60 | 124      | 1.06           | 1.08           | 1.07           | 1.09 | 1.15 | 418.7  | 14.5 | 14.0 | 14.1 | 18.2 | 14.3 | 18.6 | 13.3 | 12.9 | 17.0 | 2.06 | 8.85 | 18.0 |
| 19-33-11 | 17.58 | 112      | 1.06           | 1.08           | 1.07           | 1.09 | 1.15 | 377.5  | 14.4 | 14.0 | 14.0 | 18.1 | 14.2 | 18.5 | 13.3 | 12.7 | 16.8 | 2.06 | 8.80 | 17.9 |
| 19-33-12 | 15.84 | 106      | 1.06           | 1.08           | 1.07           | 1.09 | 1.16 | 339.8  | 13.8 | 13.3 | 13.3 | 17.3 | 13.6 | 17.7 | 12.7 | 12.1 | 16.0 | 2.05 | 8.81 | 17.2 |
| 19-33-13 | 14.25 | 93       | 1.06           | 1.08           | 1.07           | 1.10 | 1.17 | 301.6  | 13.0 | 12.6 | 12.6 | 16.4 | 12.8 | 16.8 | 12.0 | 11.3 | 15.1 | 2.04 | 8.92 | 16.4 |
| 19-33-14 | 13.24 | 90       | 1.06           | 1.09           | 1.07           | 1.10 | 1.17 | 278.7  | 12.7 | 12.3 | 12.3 | 16.1 | 12.5 | 16.5 | 11.8 | 11.0 | 14.8 | 2.04 | 8.96 | 16.1 |
| 19-33-15 | 12.04 | 83       | 1.07           | 1.09           | 1.08           | 1.10 | 1.18 | 253.8  | 12.6 | 12.2 | 12.3 | 16.0 | 12.4 | 16.3 | 11.7 | 11.0 | 14.7 | 2.03 | 8.94 | 16.1 |
| 19-33-16 | 10.74 | 75       | 1.07           | 1.09           | 1.08           | 1.10 | 1.18 | 226.1  | 11.8 | 11.5 | 11.5 | 15.1 | 11.7 | 15.4 | 11.0 | 10.2 | 13.8 | 2.03 | 8.95 | 15.3 |
| 19-33-17 | 8.65  | 66       | 1.09           | 1.10           | 1.10           | 1.11 | 1.21 | 180.7  | 10.8 | 10.5 | 10.7 | 14.0 | 10.6 | 14.1 | 10.0 | 9.2  | 12.6 | 2.01 | 8.90 | 14.3 |
| 19-33-18 | 6.34  | 50       | 1.11           | 1.10           | 1.12           | 1.11 | 1.22 | 129.5  | 10.2 | 9.8  | 10.3 | 13.5 | 10.0 | 13.3 | 9.4  | 8.7  | 11.9 | 1.99 | 9.04 | 13.7 |
| 19-33-19 | 5.77  | 42       | 1.11           | 1.10           | 1.12           | 1.12 | 1.23 | 118.4  | 10.1 | 9.8  | 10.2 | 13.5 | 9.9  | 13.3 | 9.4  | 8.7  | 11.9 | 1.99 | 9.02 | 13.6 |
| 19-33-20 | 49.11 | 543      | 1.05           | 1.06           | 1.06           | 1.07 | 1.12 | 1023.8 | 19.8 | 17.2 | 19.5 | 23.2 | 19.6 | 23.8 | 17.1 | 18.3 | 21.9 | 2.08 | 9.06 | 23.5 |
| 19-33-21 | 43.56 | 505      | 1.06           | 1.08           | 1.07           | 1.09 | 1.14 | 899.8  | 18.6 | 16.2 | 18.4 | 21.8 | 18.4 | 22.4 | 16.1 | 17.1 | 20.5 | 2.08 | 9.01 | 22.3 |
| 19-33-22 | 38.84 | 459      | 1.07           | 1.08           | 1.08           | 1.09 | 1.14 | 796.1  | 18.0 | 15.7 | 17.7 | 21.2 | 17.8 | 21.7 | 15.6 | 16.4 | 19.8 | 2.07 | 9.07 | 21.6 |
| 19-33-23 | 35.96 | 426      | 1.07           | 1.08           | 1.08           | 1.09 | 1.14 | 735.7  | 17.8 | 15.5 | 17.6 | 21.0 | 17.6 | 21.5 | 15.4 | 16.3 | 19.6 | 2.07 | 9.08 | 21.4 |
| 19-33-24 | 32.99 | 408      | 1.07           | 1.08           | 1.08           | 1.09 | 1.15 | 677.7  | 17.1 | 14.9 | 16.9 | 20.2 | 16.9 | 20.7 | 14.8 | 15.6 | 18.8 | 2.06 | 9.03 | 20.7 |
| 19-33-25 | 30.06 | 379      | 1.07           | 1.08           | 1.08           | 1.09 | 1.15 | 620.7  | 17.0 | 14.7 | 16.7 | 20.0 | 16.7 | 20.5 | 14.7 | 15.4 | 18.6 | 2.06 | 8.98 | 20.5 |
| 19-33-26 | 26.69 | 346      | 1.07           | 1.08           | 1.08           | 1.09 | 1.15 | 558.8  | 16.6 | 14.5 | 16.3 | 19.6 | 16.4 | 20.1 | 14.4 | 15.0 | 18.2 | 2.06 | 8.85 | 20.2 |
| 19-33-27 | 24.02 | 317      | 1.07           | 1.08           | 1.08           | 1.10 | 1.16 | 504.3  | 16.1 | 14.1 | 15.9 | 19.0 | 15.9 | 19.6 | 14.0 | 14.5 | 17.7 | 2.06 | 8.82 | 19.7 |
| 19-33-28 | 21.50 | 292      | 1.06           | 1.07           | 1.07           | 1.08 | 1.15 | 454.4  | 15.9 | 13.8 | 15.6 | 18.7 | 15.7 | 19.3 | 13.8 | 14.3 | 17.4 | 2.06 | 8.88 | 19.4 |
| 19-33-29 | 19.21 | 270      | 1.07           | 1.09           | 1.09           | 1.10 | 1.17 | 402.5  | 15.1 | 13.2 | 14.8 | 17.9 | 14.9 | 18.4 | 13.2 | 13.5 | 16.5 | 2.05 | 8.81 | 18.6 |
| 19-33-30 | 17.24 | 248      | 1.06           | 1.08           | 1.07           | 1.09 | 1.16 | 367.9  | 14.8 | 12.9 | 14.5 | 17.5 | 14.6 | 18.1 | 12.9 | 13.2 | 16.1 | 2.05 | 8.77 | 18.3 |
| 19-33-31 | 15.54 | 230      | 1.06           | 1.08           | 1.07           | 1.09 | 1.16 | 332.3  | 14.2 | 12.4 | 13.9 | 16.8 | 14.0 | 17.3 | 12.4 | 12.5 | 15.4 | 2.05 | 8.75 | 17.6 |
| 19-33-32 | 13.99 | 218      | 1.06           | 1.08           | 1.08           | 1.09 | 1.17 | 297.8  | 13.5 | 11.8 | 13.2 | 15.9 | 13.3 | 16.5 | 11.8 | 11.8 | 14.6 | 2.04 | 8.78 | 16.9 |
| 19-33-33 | 12.88 | 200      | 1.08           | 1.10           | 1.09           | 1.11 | 1.19 | 274.6  | 13.5 | 11.7 | 13.2 | 15.9 | 13.3 | 16.5 | 11.8 | 11.8 | 14.5 | 2.04 | 8.61 | 16.8 |
| 19-33-34 | 51.78 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 1138.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.11 | 8.68 | 0.0  |
| 19-33-35 | 46.03 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 1001.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.10 | 8.77 | 0.0  |
| 19-33-36 | 41.38 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 900.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.10 | 8.77 | 0.0  |
| 19-33-37 | 38.11 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 821.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.09 | 8.85 | 0.0  |
| 19-33-38 | 35.25 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 762.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.09 | 8.82 | 0.0  |
| 19-33-39 | 32.17 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 699.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.09 | 8.77 | 0.0  |
| 19-33-40 | 28.69 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 624.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.09 | 8.76 | 0.0  |
| 19-33-41 | 25.89 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 562.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.08 | 8.79 | 0.0  |
| 19-33-42 | 23.04 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 498.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.08 | 8.81 | 0.0  |
| 19-33-43 | 20.75 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 449.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.07 | 8.80 | 0.0  |
| 19-33-44 | 18.68 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 413.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.08 | 8.60 | 0.0  |
| 19-33-45 | 16.85 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 370.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.07 | 8.67 | 0.0  |
| 19-33-46 | 15.09 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 336.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.07 | 8.54 | 0.0  |
| 19-33-47 | 14.12 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 317.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.07 | 8.46 | 0.0  |
| 19-33-48 | 12.80 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 289.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.07 | 8.43 | 0.0  |
| 19-33-49 | 11.50 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 259.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.06 | 8.45 | 0.0  |
| 19-33-50 | 10.40 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 235.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.06 | 8.41 | 0.0  |

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| VERS.NR.  | RE*E4 | KE1*E4 | F      | F1     | STB | STPR | F1/F2 | TW/TH | TW/T1 | PR   | H/Y   | BETA | H+    | H+W   | H+R   | H+RW  | RH+  | RH+01 | RH+R |
|-----------|-------|--------|--------|--------|-----|------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|------|-------|------|
| 19-33- 51 | 9.32  | 17.59  | .01391 | .02923 | .0  | .0   | 5.13  | 1.00  | 1.00  | .693 | .0528 | .885 | 214.5 | 214.5 | 214.5 | 214.5 | 3.12 | 2.46  | 3.12 |
| 19-33- 52 | 8.44  | 15.87  | .01407 | .02945 | .0  | .0   | 5.06  | 1.00  | 1.00  | .693 | .0530 | .884 | 194.9 | 194.9 | 194.9 | 194.9 | 3.10 | 2.43  | 3.10 |
| 19-33- 53 | 7.57  | 14.01  | .01372 | .02826 | .0  | .0   | 4.77  | 1.00  | 1.00  | .693 | .0536 | .880 | 171.2 | 171.2 | 171.2 | 171.2 | 3.31 | 2.64  | 3.31 |
| 19-33- 54 | 6.82  | 12.51  | .01364 | .02781 | .0  | .0   | 4.60  | 1.00  | 1.00  | .693 | .0541 | .878 | 153.1 | 153.1 | 153.1 | 153.1 | 3.40 | 2.73  | 3.40 |
| 19-33- 55 | 6.28  | 11.36  | .01332 | .02674 | .0  | .0   | 4.37  | 1.00  | 1.00  | .694 | .0547 | .874 | 138.3 | 138.3 | 138.3 | 138.3 | 3.61 | 2.93  | 3.61 |
| 19-33- 56 | 5.51  | 9.95   | .01373 | .02757 | .0  | .0   | 4.37  | 1.00  | 1.00  | .694 | .0548 | .873 | 123.1 | 123.1 | 123.1 | 123.1 | 3.49 | 2.81  | 3.49 |
| 19-33- 57 | 4.95  | 8.90   | .01393 | .02787 | .0  | .0   | 4.32  | 1.00  | 1.00  | .694 | .0550 | .872 | 111.1 | 111.1 | 111.1 | 111.1 | 3.47 | 2.79  | 3.47 |
| 19-33- 58 | 4.44  | 7.86   | .01374 | .02710 | .0  | .0   | 4.12  | 1.00  | 1.00  | .694 | .0558 | .868 | 98.2  | 98.2  | 98.2  | 98.2  | 3.68 | 2.99  | 3.68 |
| 19-33- 59 | 2.89  | 4.87   | .01416 | .02719 | .0  | .0   | 3.74  | 1.00  | 1.00  | .695 | .0585 | .855 | 63.0  | 63.0  | 63.0  | 63.0  | 4.20 | 3.50  | 4.20 |

| VERS.NR.  | HE*E4 | Q<KW/M2> | ST1+/<br>ST1*/ | STT+/<br>STT*/ | STIF/<br>STIF/ | H+  | G+    | GPR01 | G*  | G*R | GT  | GTR | GTR1 | GTF | GTFR | X    | YR   | YG  |
|-----------|-------|----------|----------------|----------------|----------------|-----|-------|-------|-----|-----|-----|-----|------|-----|------|------|------|-----|
| 19-33- 51 | 9.32  | 0        | 0.0            | 0.0            | 0.0            | 0.0 | 214.5 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.06 | 8.27 | 0.0 |
| 19-33- 52 | 8.44  | 0        | 0.0            | 0.0            | 0.0            | 0.0 | 194.9 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.06 | 8.24 | 0.0 |
| 19-33- 53 | 7.57  | 0        | 0.0            | 0.0            | 0.0            | 0.0 | 171.2 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.04 | 8.41 | 0.0 |
| 19-33- 54 | 6.82  | 0        | 0.0            | 0.0            | 0.0            | 0.0 | 153.1 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.03 | 8.48 | 0.0 |
| 19-33- 55 | 6.28  | 0        | 0.0            | 0.0            | 0.0            | 0.0 | 138.3 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.02 | 8.65 | 0.0 |
| 19-33- 56 | 5.51  | 0        | 0.0            | 0.0            | 0.0            | 0.0 | 123.1 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.02 | 8.52 | 0.0 |
| 19-33- 57 | 4.95  | 0        | 0.0            | 0.0            | 0.0            | 0.0 | 111.1 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.02 | 8.47 | 0.0 |
| 19-33- 58 | 4.44  | 0        | 0.0            | 0.0            | 0.0            | 0.0 | 98.2  | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.00 | 8.59 | 0.0 |
| 19-33- 59 | 2.89  | 0        | 0.0            | 0.0            | 0.0            | 0.0 | 63.0  | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 1.95 | 8.58 | 0.0 |

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| VERS.NR. | RE*E4 | RE1*E4 | F      | F1     | STB    | STPR   | F1/F2 | TW/TH | TW/T1 | PR   | H/Y   | BETA | H+    | H+W   | H+R   | H+RW  | RH+  | RH+01 | RH+R |
|----------|-------|--------|--------|--------|--------|--------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|------|-------|------|
| 20-33- 1 | 7.95  | 14.48  | .01302 | .02642 | .00592 | .00489 | 4.55  | 1.16  | 1.16  | .667 | .0543 | .877 | 173.7 | 136.4 | 177.4 | 139.3 | 3.63 | 2.95  | 3.45 |
| 20-33- 2 | 7.02  | 12.67  | .01311 | .02645 | .00615 | .00507 | 4.44  | 1.16  | 1.15  | .667 | .0546 | .875 | 153.2 | 120.9 | 156.4 | 123.4 | 3.64 | 2.96  | 3.46 |
| 20-33- 3 | 6.29  | 11.26  | .01310 | .02619 | .00632 | .00521 | 4.31  | 1.16  | 1.16  | .667 | .0550 | .872 | 136.7 | 107.7 | 139.6 | 109.9 | 3.71 | 3.02  | 3.52 |
| 20-33- 4 | 5.64  | 10.05  | .01330 | .02650 | .00643 | .00530 | 4.26  | 1.16  | 1.15  | .667 | .0552 | .871 | 123.2 | 97.1  | 125.8 | 99.2  | 3.66 | 2.98  | 3.48 |
| 20-33- 5 | 5.07  | 8.97   | .01359 | .02719 | .00664 | .00548 | 4.28  | 1.16  | 1.16  | .667 | .0553 | .871 | 111.6 | 87.6  | 114.0 | 89.5  | 3.56 | 2.87  | 3.38 |
| 20-33- 6 | 4.40  | 7.74   | .01382 | .02748 | .00681 | .00562 | 4.19  | 1.16  | 1.16  | .667 | .0556 | .869 | 97.5  | 76.5  | 99.6  | 78.2  | 3.52 | 2.84  | 3.35 |
| 20-33- 7 | 4.25  | 7.46   | .01392 | .02764 | .00689 | .00568 | 4.18  | 1.16  | 1.15  | .667 | .0556 | .869 | 94.3  | 74.8  | 96.2  | 76.4  | 3.50 | 2.82  | 3.33 |
| 20-33- 8 | 3.85  | 6.72   | .01406 | .02782 | .00715 | .00590 | 4.12  | 1.16  | 1.15  | .667 | .0559 | .867 | 85.7  | 67.6  | 87.5  | 69.0  | 3.49 | 2.80  | 3.31 |
| 20-33- 9 | 3.44  | 5.99   | .01416 | .02765 | .00747 | .00616 | 3.99  | 1.16  | 1.15  | .667 | .0562 | .866 | 76.6  | 60.5  | 78.2  | 61.8  | 3.53 | 2.84  | 3.35 |
| 20-33-10 | 3.10  | 5.34   | .01431 | .02792 | .00741 | .00611 | 3.95  | 1.16  | 1.15  | .667 | .0565 | .864 | 69.2  | 54.5  | 70.6  | 55.7  | 3.50 | 2.81  | 3.33 |
| 20-33-11 | 2.76  | 4.73   | .01462 | .02844 | .00756 | .00623 | 3.91  | 1.16  | 1.15  | .667 | .0566 | .863 | 62.0  | 49.2  | 63.3  | 50.2  | 3.43 | 2.74  | 3.26 |
| 20-33-12 | 2.48  | 4.23   | .01472 | .02842 | .00781 | .00643 | 3.82  | 1.15  | 1.15  | .667 | .0570 | .861 | 55.8  | 44.4  | 57.0  | 45.3  | 3.45 | 2.75  | 3.28 |
| 20-33-13 | 2.23  | 3.78   | .01506 | .02905 | .00798 | .00658 | 3.81  | 1.16  | 1.15  | .667 | .0571 | .861 | 50.6  | 39.9  | 51.7  | 40.7  | 3.36 | 2.67  | 3.19 |
| 20-33-14 | 2.01  | 3.37   | .01497 | .02842 | .00793 | .00654 | 3.65  | 1.16  | 1.15  | .667 | .0577 | .857 | 45.2  | 35.8  | 46.1  | 36.5  | 3.48 | 2.78  | 3.31 |
| 20-33-15 | 1.81  | 3.00   | .01502 | .02822 | .00797 | .00658 | 3.54  | 1.16  | 1.15  | .667 | .0582 | .855 | 40.5  | 31.9  | 41.4  | 32.6  | 3.54 | 2.84  | 3.37 |
| 20-33-16 | 7.89  | 14.03  | .01273 | .02587 | .00584 | .00504 | 4.49  | 1.30  | 1.29  | .667 | .0548 | .874 | 168.6 | 110.7 | 174.9 | 114.8 | 3.75 | 3.07  | 3.43 |
| 20-33-17 | 6.94  | 12.25  | .01286 | .02597 | .00601 | .00519 | 4.39  | 1.30  | 1.29  | .667 | .0551 | .872 | 148.5 | 97.5  | 154.1 | 101.1 | 3.75 | 3.06  | 3.43 |
| 20-33-18 | 6.16  | 10.76  | .01286 | .02574 | .00624 | .00538 | 4.26  | 1.30  | 1.29  | .667 | .0556 | .870 | 131.2 | 86.6  | 136.0 | 89.8  | 3.81 | 3.12  | 3.49 |
| 20-33-19 | 5.53  | 9.62   | .01304 | .02599 | .00634 | .00546 | 4.20  | 1.29  | 1.28  | .667 | .0558 | .869 | 118.3 | 78.6  | 122.6 | 81.4  | 3.78 | 3.09  | 3.47 |
| 20-33-20 | 4.97  | 8.60   | .01325 | .02630 | .00642 | .00553 | 4.15  | 1.30  | 1.29  | .667 | .0559 | .867 | 106.9 | 70.5  | 110.8 | 73.1  | 3.73 | 3.04  | 3.42 |
| 20-33-21 | 4.49  | 7.72   | .01340 | .02653 | .00680 | .00585 | 4.10  | 1.29  | 1.28  | .667 | .0562 | .866 | 96.8  | 64.4  | 100.3 | 66.8  | 3.70 | 3.01  | 3.40 |
| 20-33-22 | 4.15  | 7.11   | .01353 | .02667 | .00677 | .00583 | 4.05  | 1.29  | 1.28  | .667 | .0563 | .865 | 89.8  | 59.7  | 93.0  | 61.9  | 3.69 | 3.00  | 3.39 |
| 20-33-23 | 3.77  | 6.42   | .01363 | .02672 | .00694 | .00598 | 3.98  | 1.29  | 1.28  | .667 | .0566 | .864 | 81.6  | 54.1  | 84.6  | 56.0  | 3.69 | 3.00  | 3.39 |
| 20-33-24 | 3.37  | 5.68   | .01370 | .02663 | .00706 | .00608 | 3.87  | 1.29  | 1.28  | .667 | .0570 | .861 | 72.7  | 48.4  | 75.3  | 50.2  | 3.73 | 3.03  | 3.43 |
| 20-33-25 | 3.03  | 5.08   | .01393 | .02697 | .00717 | .00617 | 3.83  | 1.29  | 1.28  | .667 | .0572 | .860 | 65.7  | 43.6  | 68.1  | 45.2  | 3.68 | 2.99  | 3.38 |
| 20-33-26 | 2.70  | 4.50   | .01414 | .02723 | .00732 | .00629 | 3.77  | 1.29  | 1.28  | .667 | .0575 | .859 | 58.8  | 39.4  | 61.0  | 40.8  | 3.66 | 2.96  | 3.36 |
| 20-33-27 | 2.43  | 4.03   | .01435 | .02749 | .00758 | .00652 | 3.71  | 1.29  | 1.27  | .667 | .0578 | .858 | 53.2  | 35.6  | 55.1  | 36.8  | 3.63 | 2.93  | 3.33 |
| 20-33-28 | 2.19  | 3.60   | .01439 | .02729 | .00754 | .00650 | 3.61  | 1.30  | 1.28  | .667 | .0582 | .855 | 47.8  | 31.8  | 49.5  | 32.9  | 3.68 | 2.98  | 3.38 |
| 20-33-29 | 1.79  | 2.84   | .01460 | .02761 | .00792 | .00682 | 3.51  | 1.29  | 1.27  | .667 | .0591 | .851 | 38.6  | 25.9  | 40.0  | 26.8  | 3.68 | 2.97  | 3.38 |
| 20-33-30 | 5.20  | 8.70   | .01250 | .02460 | .00613 | .00565 | 3.98  | 1.50  | 1.48  | .667 | .0570 | .863 | 106.9 | 56.0  | 113.1 | 59.3  | 4.08 | 3.38  | 3.58 |
| 20-33-31 | 4.88  | 8.19   | .01278 | .02521 | .00618 | .00569 | 4.02  | 1.50  | 1.48  | .667 | .0569 | .863 | 101.7 | 53.3  | 107.6 | 56.4  | 3.96 | 3.27  | 3.47 |
| 20-33-32 | 4.39  | 7.34   | .01303 | .02569 | .00640 | .00587 | 3.99  | 1.49  | 1.46  | .667 | .0570 | .863 | 92.2  | 49.0  | 97.4  | 51.8  | 3.88 | 3.19  | 3.41 |
| 20-33-33 | 4.09  | 6.77   | .01300 | .02539 | .00651 | .00597 | 3.90  | 1.49  | 1.46  | .667 | .0573 | .861 | 85.2  | 45.5  | 90.0  | 48.1  | 3.95 | 3.26  | 3.48 |
| 20-33-34 | 3.72  | 6.13   | .01314 | .02550 | .00651 | .00597 | 3.83  | 1.48  | 1.46  | .667 | .0576 | .859 | 77.7  | 41.7  | 82.1  | 44.0  | 3.95 | 3.25  | 3.48 |
| 20-33-35 | 3.31  | 5.39   | .01321 | .02543 | .00673 | .00616 | 3.73  | 1.48  | 1.45  | .667 | .0580 | .857 | 68.9  | 37.1  | 72.7  | 39.1  | 3.98 | 3.28  | 3.51 |
| 20-33-36 | 2.99  | 4.76   | .01333 | .02603 | .00681 | .00623 | 3.77  | 1.48  | 1.45  | .667 | .0584 | .855 | 62.0  | 33.6  | 65.4  | 35.5  | 3.90 | 3.19  | 3.44 |
| 20-33-37 | 2.66  | 4.21   | .01349 | .02626 | .00696 | .00637 | 3.71  | 1.48  | 1.45  | .667 | .0587 | .853 | 55.4  | 30.0  | 58.5  | 31.7  | 3.87 | 3.17  | 3.42 |
| 20-33-38 | 2.39  | 3.76   | .01370 | .02660 | .00709 | .00648 | 3.66  | 1.47  | 1.44  | .667 | .0590 | .852 | 50.0  | 27.2  | 52.8  | 28.7  | 3.83 | 3.12  | 3.38 |
| 20-33-39 | 2.15  | 3.34   | .01380 | .02651 | .00721 | .00659 | 3.57  | 1.47  | 1.44  | .667 | .0594 | .850 | 44.8  | 24.5  | 47.3  | 25.8  | 3.87 | 3.15  | 3.42 |
| 20-33-40 | 1.94  | 2.97   | .01379 | .02605 | .00719 | .00658 | 3.43  | 1.48  | 1.44  | .667 | .0601 | .846 | 40.0  | 21.9  | 42.2  | 23.1  | 3.97 | 3.26  | 3.52 |
| 20-33-41 | 1.74  | 2.65   | .01401 | .02647 | .00740 | .00677 | 3.40  | 1.48  | 1.44  | .667 | .0603 | .845 | 36.2  | 19.7  | 38.2  | 20.8  | 3.92 | 3.20  | 3.47 |
| 20-33-42 | 27.37 | 53.53  | .01259 | .02744 | .00436 | .00363 | 5.94  | 1.19  | 1.19  | .667 | .0513 | .896 | 609.9 | 456.7 | 625.7 | 468.5 | 3.31 | 2.66  | 3.10 |
| 20-33-43 | 25.54 | 49.79  | .01265 | .02752 | .00449 | .00374 | 5.88  | 1.19  | 1.19  | .667 | .0514 | .895 | 569.6 | 428.1 | 584.1 | 439.0 | 3.31 | 2.65  | 3.09 |
| 20-33-44 | 22.96 | 44.57  | .01273 | .02757 | .00456 | .00381 | 5.78  | 1.19  | 1.19  | .667 | .0516 | .894 | 512.6 | 384.5 | 525.8 | 394.3 | 3.31 | 2.65  | 3.09 |
| 20-33-45 | 20.78 | 40.04  | .01268 | .02728 | .00488 | .00406 | 5.62  | 1.19  | 1.19  | .667 | .0519 | .892 | 461.2 | 347.0 | 472.9 | 355.8 | 3.37 | 2.71  | 3.16 |
| 20-33-46 | 19.52 | 37.17  | .01248 | .02671 | .00478 | .00399 | 5.47  | 1.20  | 1.19  | .667 | .0522 | .890 | 427.5 | 320.1 | 438.6 | 328.4 | 3.48 | 2.82  | 3.26 |
| 20-33-47 | 17.81 | 33.78  | .01258 | .02684 | .00500 | .00417 | 5.40  | 1.19  | 1.19  | .667 | .0524 | .889 | 390.9 | 293.9 | 400.8 | 301.4 | 3.46 | 2.80  | 3.25 |
| 20-33-48 | 15.90 | 29.94  | .01260 | .02673 | .00499 | .00417 | 5.27  | 1.20  | 1.20  | .667 | .0527 | .887 | 348.0 | 258.5 | 357.3 | 265.3 | 3.50 | 2.83  | 3.27 |
| 20-33-49 | 14.36 | 26.90  | .01270 | .02679 | .00516 | .00432 | 5.18  | 1.20  | 1.20  | .667 | .0529 | .886 | 314.5 | 234.1 | 322.8 | 240.3 | 3.50 | 2.83  | 3.28 |
| 20-33-50 | 12.84 | 23.86  | .01272 | .02666 | .00520 | .00435 | 5.05  | 1.20  | 1.20  | .667 | .0532 | .884 | 280.3 | 208.1 | 287.7 | 213.6 | 3.54 | 2.87  | 3.31 |

| VERS.NR.  | RE*E4 | Q<Kw/M2> | ST1+/<br>ST1*/ | STT+/<br>STT*/ | STIF/<br>STIF*/ | H+   | G+   | GPR01 | G*   | G*R  | GT   | GTR  | GTR1 | GTF  | GTR  | X    | YR   | YG   |      |      |
|-----------|-------|----------|----------------|----------------|-----------------|------|------|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 20-33- 1  | 7.95  | 223      | 1.05           | 1.09           | 1.06            | 1.10 | 1.17 | 173.7 | 13.4 | 13.8 | 12.8 | 17.3 | 13.2 | 17.8 | 12.7 | 11.5 | 16.0 | 2.03 | 8.70 | 16.6 |
| 20-33- 2  | 7.02  | 201      | 1.05           | 1.09           | 1.06            | 1.10 | 1.18 | 153.2 | 12.7 | 13.1 | 12.1 | 16.4 | 12.5 | 16.9 | 12.0 | 10.8 | 15.1 | 2.02 | 8.70 | 15.8 |
| 20-33- 3  | 6.29  | 187      | 1.05           | 1.09           | 1.07            | 1.10 | 1.19 | 136.7 | 12.2 | 12.5 | 11.6 | 15.7 | 12.0 | 16.2 | 11.5 | 10.2 | 14.4 | 2.01 | 8.74 | 15.2 |
| 20-33- 4  | 5.64  | 170      | 1.06           | 1.09           | 1.07            | 1.10 | 1.19 | 123.2 | 11.9 | 12.3 | 11.4 | 15.5 | 11.7 | 16.0 | 11.3 | 10.0 | 14.1 | 2.01 | 8.69 | 15.0 |
| 20-33- 5  | 5.07  | 162      | 1.06           | 1.10           | 1.07            | 1.11 | 1.20 | 111.6 | 11.5 | 11.9 | 11.0 | 15.0 | 11.3 | 15.4 | 11.0 | 9.6  | 13.6 | 2.01 | 8.58 | 14.6 |
| 20-33- 6  | 4.40  | 145      | 1.06           | 1.10           | 1.08            | 1.11 | 1.21 | 97.5  | 11.2 | 11.5 | 10.6 | 14.6 | 11.0 | 15.0 | 10.7 | 9.2  | 13.2 | 2.00 | 8.53 | 14.2 |
| 20-33- 7  | 4.25  | 135      | 1.07           | 1.10           | 1.08            | 1.11 | 1.21 | 94.3  | 11.0 | 11.3 | 10.5 | 14.4 | 10.8 | 14.8 | 10.5 | 9.1  | 13.0 | 2.00 | 8.51 | 14.1 |
| 20-33- 8  | 3.85  | 131      | 1.06           | 1.10           | 1.07            | 1.12 | 1.22 | 85.7  | 10.5 | 10.9 | 9.9  | 13.7 | 10.4 | 14.2 | 10.1 | 8.5  | 12.3 | 2.00 | 8.48 | 13.5 |
| 20-33- 9  | 3.44  | 120      | 1.06           | 1.11           | 1.07            | 1.12 | 1.23 | 76.6  | 9.9  | 10.3 | 9.3  | 12.9 | 9.8  | 13.5 | 9.6  | 7.8  | 11.5 | 1.99 | 8.51 | 12.8 |
| 20-33- 10 | 3.10  | 110      | 1.07           | 1.11           | 1.08            | 1.12 | 1.23 | 69.2  | 9.9  | 10.2 | 9.4  | 13.1 | 9.7  | 13.5 | 9.5  | 8.0  | 11.6 | 1.99 | 8.46 | 12.9 |
| 20-33- 11 | 2.76  | 97       | 1.07           | 1.11           | 1.09            | 1.12 | 1.24 | 62.0  | 9.7  | 10.0 | 9.2  | 12.9 | 9.6  | 13.3 | 9.4  | 7.8  | 11.4 | 1.98 | 8.39 | 12.7 |
| 20-33- 12 | 2.48  | 89       | 1.07           | 1.11           | 1.08            | 1.13 | 1.25 | 55.8  | 9.3  | 9.6  | 8.8  | 12.3 | 9.2  | 12.7 | 9.0  | 7.3  | 10.8 | 1.98 | 8.39 | 12.2 |
| 20-33- 13 | 2.23  | 85       | 1.08           | 1.12           | 1.09            | 1.13 | 1.25 | 50.6  | 9.1  | 9.4  | 8.6  | 12.1 | 8.9  | 12.5 | 8.8  | 7.1  | 10.6 | 1.97 | 8.30 | 12.1 |
| 20-33- 14 | 2.01  | 76       | 1.09           | 1.12           | 1.10            | 1.13 | 1.26 | 45.2  | 8.9  | 9.2  | 8.6  | 12.0 | 8.8  | 12.3 | 8.6  | 7.0  | 10.5 | 1.96 | 8.39 | 11.9 |
| 20-33- 15 | 1.81  | 70       | 1.09           | 1.12           | 1.11            | 1.13 | 1.27 | 40.5  | 8.8  | 9.0  | 8.4  | 11.8 | 8.6  | 12.0 | 8.4  | 6.9  | 10.3 | 1.95 | 8.42 | 11.8 |
| 20-33- 16 | 1.78  | 427      | 1.06           | 1.09           | 1.08            | 1.10 | 1.18 | 168.6 | 13.2 | 12.9 | 12.8 | 16.6 | 13.0 | 17.0 | 12.1 | 11.4 | 15.2 | 2.02 | 8.79 | 16.5 |
| 20-33- 17 | 6.94  | 389      | 1.07           | 1.09           | 1.08            | 1.10 | 1.19 | 148.5 | 12.8 | 12.4 | 12.3 | 16.0 | 12.6 | 16.4 | 11.7 | 10.9 | 14.6 | 2.01 | 8.78 | 15.9 |
| 20-33- 18 | 6.16  | 355      | 1.07           | 1.10           | 1.08            | 1.11 | 1.20 | 131.2 | 12.0 | 11.7 | 11.6 | 15.1 | 11.8 | 15.5 | 11.0 | 10.1 | 13.7 | 2.00 | 8.81 | 15.1 |
| 20-33- 19 | 5.53  | 319      | 1.07           | 1.10           | 1.08            | 1.11 | 1.20 | 118.3 | 11.8 | 11.6 | 11.4 | 14.9 | 11.6 | 15.3 | 10.9 | 9.9  | 13.4 | 2.00 | 8.77 | 14.9 |
| 20-33- 20 | 4.97  | 297      | 1.07           | 1.10           | 1.09            | 1.11 | 1.21 | 106.9 | 11.6 | 11.4 | 11.3 | 14.8 | 11.5 | 15.1 | 10.7 | 9.8  | 13.3 | 2.00 | 8.72 | 14.8 |
| 20-33- 21 | 4.49  | 277      | 1.07           | 1.10           | 1.08            | 1.12 | 1.22 | 96.8  | 10.9 | 10.6 | 10.4 | 13.7 | 10.7 | 14.2 | 10.0 | 8.9  | 12.2 | 1.99 | 8.68 | 13.9 |
| 20-33- 22 | 4.15  | 256      | 1.07           | 1.10           | 1.08            | 1.12 | 1.22 | 89.8  | 11.0 | 10.7 | 10.5 | 13.8 | 10.8 | 14.3 | 10.1 | 9.0  | 12.3 | 1.99 | 8.66 | 14.0 |
| 20-33- 23 | 3.77  | 243      | 1.08           | 1.11           | 1.09            | 1.12 | 1.23 | 81.6  | 10.5 | 10.3 | 10.1 | 13.3 | 10.3 | 13.7 | 9.7  | 8.6  | 11.8 | 1.98 | 8.65 | 13.5 |
| 20-33- 24 | 3.37  | 218      | 1.08           | 1.11           | 1.09            | 1.12 | 1.24 | 72.7  | 10.3 | 10.0 | 9.8  | 13.0 | 10.1 | 13.4 | 9.5  | 8.3  | 11.5 | 1.98 | 8.67 | 13.2 |
| 20-33- 25 | 3.03  | 201      | 1.08           | 1.11           | 1.09            | 1.12 | 1.24 | 65.7  | 10.1 | 9.9  | 9.7  | 12.8 | 9.9  | 13.2 | 9.3  | 8.1  | 11.3 | 1.97 | 8.61 | 13.1 |
| 20-33- 26 | 2.70  | 179      | 1.08           | 1.11           | 1.09            | 1.13 | 1.25 | 58.8  | 9.9  | 9.7  | 9.4  | 12.5 | 9.7  | 13.0 | 9.1  | 7.9  | 11.0 | 1.97 | 8.57 | 12.8 |
| 20-33- 27 | 2.43  | 168      | 1.09           | 1.12           | 1.10            | 1.13 | 1.26 | 53.2  | 9.3  | 9.1  | 9.0  | 12.0 | 9.2  | 12.3 | 8.7  | 7.4  | 10.4 | 1.96 | 8.53 | 12.3 |
| 20-33- 28 | 2.19  | 154      | 1.09           | 1.12           | 1.10            | 1.13 | 1.26 | 47.8  | 9.4  | 9.2  | 9.0  | 12.0 | 9.2  | 12.4 | 8.7  | 7.4  | 10.4 | 1.95 | 8.56 | 12.3 |
| 20-33- 29 | 1.79  | 130      | 1.11           | 1.13           | 1.12            | 1.15 | 1.30 | 38.6  | 8.6  | 8.4  | 8.3  | 11.1 | 8.4  | 11.4 | 8.0  | 6.6  | 9.4  | 1.94 | 8.51 | 11.4 |
| 20-33- 30 | 5.20  | 522      | 1.07           | 1.10           | 1.09            | 1.12 | 1.22 | 106.9 | 11.9 | 10.8 | 11.4 | 14.0 | 11.7 | 14.6 | 10.3 | 9.9  | 12.4 | 1.98 | 9.02 | 14.8 |
| 20-33- 31 | 4.88  | 496      | 1.07           | 1.10           | 1.09            | 1.12 | 1.22 | 101.7 | 12.0 | 10.9 | 11.5 | 14.1 | 11.8 | 14.7 | 10.4 | 9.9  | 12.5 | 1.98 | 8.91 | 14.9 |
| 20-33- 32 | 4.39  | 451      | 1.07           | 1.11           | 1.09            | 1.12 | 1.23 | 92.2  | 11.6 | 10.5 | 11.1 | 13.6 | 11.4 | 14.2 | 10.1 | 9.5  | 12.1 | 1.98 | 8.82 | 14.4 |
| 20-33- 33 | 4.09  | 429      | 1.08           | 1.11           | 1.09            | 1.12 | 1.23 | 85.2  | 11.1 | 10.2 | 10.7 | 13.2 | 10.9 | 13.8 | 9.7  | 9.1  | 11.6 | 1.97 | 8.87 | 14.0 |
| 20-33- 34 | 3.72  | 389      | 1.08           | 1.11           | 1.09            | 1.12 | 1.24 | 77.7  | 11.1 | 10.2 | 10.7 | 13.3 | 10.9 | 13.8 | 9.7  | 9.1  | 11.6 | 1.96 | 8.86 | 14.0 |
| 20-33- 35 | 3.31  | 359      | 1.08           | 1.11           | 1.10            | 1.13 | 1.25 | 68.9  | 10.6 | 9.7  | 10.2 | 12.6 | 10.4 | 13.1 | 9.2  | 8.5  | 11.0 | 1.96 | 8.87 | 13.4 |
| 20-33- 36 | 2.99  | 327      | 1.10           | 1.12           | 1.11            | 1.14 | 1.27 | 62.0  | 10.4 | 9.5  | 10.0 | 12.5 | 10.2 | 12.9 | 9.1  | 8.3  | 10.7 | 1.95 | 8.77 | 13.2 |
| 20-33- 37 | 2.66  | 298      | 1.10           | 1.13           | 1.11            | 1.14 | 1.28 | 55.4  | 10.1 | 9.3  | 9.7  | 12.1 | 9.9  | 12.6 | 8.8  | 8.0  | 10.4 | 1.94 | 8.73 | 12.9 |
| 20-33- 38 | 2.39  | 270      | 1.10           | 1.13           | 1.11            | 1.15 | 1.28 | 50.0  | 10.0 | 9.1  | 9.5  | 11.9 | 9.8  | 12.4 | 8.7  | 7.8  | 10.2 | 1.94 | 8.67 | 12.7 |
| 20-33- 39 | 2.15  | 247      | 1.10           | 1.13           | 1.12            | 1.15 | 1.29 | 44.8  | 9.6  | 8.8  | 9.3  | 11.6 | 9.5  | 12.1 | 8.4  | 7.5  | 9.8  | 1.93 | 8.69 | 12.3 |
| 20-33- 40 | 1.94  | 223      | 1.11           | 1.13           | 1.13            | 1.15 | 1.30 | 40.0  | 9.5  | 8.7  | 9.2  | 11.5 | 9.3  | 11.9 | 8.3  | 7.4  | 9.7  | 1.92 | 8.76 | 12.2 |
| 20-33- 41 | 1.74  | 209      | 1.11           | 1.14           | 1.13            | 1.16 | 1.31 | 36.2  | 9.2  | 8.4  | 8.9  | 11.1 | 9.0  | 11.5 | 8.1  | 7.1  | 9.3  | 1.91 | 8.69 | 11.9 |
| 20-33- 42 | 27.37 | 598      | 1.05           | 1.06           | 1.05            | 1.07 | 1.11 | 609.9 | 20.6 | 20.9 | 20.1 | 26.1 | 20.4 | 26.5 | 19.1 | 18.9 | 24.9 | 2.09 | 8.54 | 24.2 |
| 20-33- 43 | 25.54 | 569      | 1.05           | 1.07           | 1.06            | 1.07 | 1.12 | 569.6 | 19.7 | 20.1 | 19.4 | 25.2 | 19.6 | 25.6 | 18.4 | 18.2 | 24.0 | 2.09 | 8.53 | 23.4 |
| 20-33- 44 | 22.96 | 526      | 1.05           | 1.07           | 1.06            | 1.07 | 1.12 | 512.6 | 19.4 | 19.7 | 19.0 | 24.7 | 19.2 | 25.1 | 18.1 | 17.8 | 23.5 | 2.08 | 8.52 | 23.0 |
| 20-33- 45 | 20.78 | 504      | 1.05           | 1.07           | 1.06            | 1.08 | 1.13 | 461.2 | 17.7 | 18.0 | 17.2 | 22.6 | 17.5 | 23.0 | 16.5 | 16.0 | 21.4 | 2.08 | 8.56 | 21.2 |
| 20-33- 46 | 19.52 | 472      | 1.05           | 1.07           | 1.06            | 1.08 | 1.13 | 427.5 | 17.8 | 18.1 | 17.4 | 22.8 | 17.6 | 23.1 | 16.6 | 16.2 | 21.5 | 2.07 | 8.65 | 21.4 |
| 20-33- 47 | 17.81 | 445      | 1.05           | 1.07           | 1.06            | 1.08 | 1.14 | 390.9 | 16.8 | 17.1 | 16.5 | 21.6 | 16.6 | 21.9 | 15.7 | 15.2 | 20.3 | 2.07 | 8.63 | 20.4 |
| 20-33- 48 | 15.90 | 416      | 1.05           | 1.07           | 1.06            | 1.08 | 1.14 | 348.0 | 16.9 | 17.1 | 16.5 | 21.6 | 16.7 | 21.9 | 15.7 | 15.2 | 20.3 | 2.06 | 8.65 | 20.4 |
| 20-33- 49 | 14.36 | 388      | 1.06           | 1.08           | 1.07            | 1.09 | 1.14 | 314.5 | 16.1 | 16.3 | 15.7 | 20.6 | 15.9 | 20.9 | 15.0 | 14.4 | 19.4 | 2.06 | 8.64 | 19.6 |
| 20-33- 50 | 12.84 | 354      | 1.06           | 1.08           | 1.07            | 1.09 | 1.15 | 280.3 | 15.8 | 16.0 | 15.5 | 20.3 | 15.6 | 20.6 | 14.7 | 14.2 | 19.1 | 2.05 | 8.66 | 19.3 |

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| VERS.NR.  | RE*E4 | RE1*E4 | F      | F1     | STB    | STPR   | F1/F2 | TW/TB | TW/T1 | PR   | H/Y   | BETA | H+    | H+W   | H+R   | H+RW  | RH+  | RH+01 | RH+R |
|-----------|-------|--------|--------|--------|--------|--------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|------|-------|------|
| 20-33- 51 | 11.51 | 21.27  | .01280 | .02669 | .00537 | .00449 | 4.95  | 1.20  | 1.20  | .667 | .0534 | .882 | 251.4 | 187.0 | 258.1 | 191.9 | 3.54 | 2.87  | 3.32 |
| 20-33- 52 | 10.35 | 18.96  | .01273 | .02629 | .00551 | .00461 | 4.79  | 1.21  | 1.20  | .667 | .0538 | .880 | 224.5 | 166.5 | 230.5 | 170.9 | 3.63 | 2.96  | 3.40 |
| 20-33- 53 | 9.28  | 16.88  | .01286 | .02646 | .00568 | .00476 | 4.72  | 1.21  | 1.20  | .667 | .0540 | .878 | 201.5 | 149.0 | 207.0 | 153.0 | 3.61 | 2.94  | 3.38 |
| 20-33- 54 | 8.40  | 15.13  | .01275 | .02595 | .00589 | .00493 | 4.55  | 1.21  | 1.20  | .667 | .0545 | .876 | 180.8 | 134.0 | 185.6 | 137.6 | 3.72 | 3.04  | 3.49 |
| 20-33- 55 | 7.74  | 13.96  | .01307 | .02669 | .00597 | .00501 | 4.59  | 1.21  | 1.20  | .667 | .0544 | .876 | 168.9 | 124.3 | 173.5 | 127.7 | 3.59 | 2.91  | 3.36 |
| 20-33- 56 | 7.03  | 12.61  | .01314 | .02679 | .00613 | .00514 | 4.52  | 1.21  | 1.20  | .667 | .0546 | .875 | 153.5 | 113.6 | 157.6 | 116.7 | 3.59 | 2.91  | 3.36 |
| 20-33- 57 | 6.88  | 12.03  | .01280 | .02585 | .00606 | .00536 | 4.38  | 1.38  | 1.36  | .667 | .0553 | .871 | 146.2 | 88.0  | 152.9 | 92.1  | 3.78 | 3.10  | 3.40 |
| 20-33- 58 | 7.54  | 13.27  | .01271 | .02577 | .00589 | .00520 | 4.45  | 1.37  | 1.36  | .667 | .0551 | .873 | 160.1 | 96.6  | 167.4 | 101.0 | 3.78 | 3.10  | 3.40 |
| 20-33- 59 | 8.22  | 14.44  | .01237 | .02497 | .00570 | .00503 | 4.40  | 1.37  | 1.35  | .667 | .0552 | .872 | 172.0 | 104.4 | 179.7 | 109.1 | 3.93 | 3.24  | 3.54 |
| 20-33- 60 | 9.12  | 16.16  | .01233 | .02506 | .00573 | .00504 | 4.50  | 1.36  | 1.34  | .667 | .0549 | .874 | 191.4 | 117.6 | 199.8 | 122.8 | 3.89 | 3.21  | 3.52 |
| 20-33- 61 | 10.06 | 17.97  | .01232 | .02523 | .00551 | .00487 | 4.61  | 1.37  | 1.36  | .667 | .0546 | .876 | 211.9 | 127.5 | 221.6 | 133.4 | 3.85 | 3.17  | 3.46 |
| 20-33- 62 | 11.24 | 20.25  | .01232 | .02541 | .00536 | .00474 | 4.74  | 1.37  | 1.36  | .667 | .0542 | .878 | 237.8 | 143.6 | 248.6 | 150.1 | 3.80 | 3.12  | 3.41 |
| 20-33- 63 | 12.43 | 22.60  | .01232 | .02561 | .00521 | .00460 | 4.87  | 1.37  | 1.36  | .667 | .0539 | .880 | 264.4 | 159.4 | 276.4 | 166.7 | 3.75 | 3.07  | 3.36 |
| 20-33- 64 | 14.71 | 28.22  | .01323 | .02820 | .0     | .0     | 5.42  | 1.00  | 1.00  | .667 | .0521 | .890 | 332.5 | 332.5 | 332.5 | 332.5 | 3.24 | 2.58  | 3.24 |
| 20-33- 65 | 13.12 | 24.97  | .01320 | .02789 | .0     | .0     | 5.25  | 1.00  | 1.00  | .667 | .0525 | .888 | 295.0 | 295.0 | 295.0 | 295.0 | 3.30 | 2.64  | 3.30 |
| 20-33- 66 | 11.83 | 22.45  | .01341 | .02829 | .0     | .0     | 5.21  | 1.00  | 1.00  | .667 | .0526 | .887 | 267.8 | 267.8 | 267.8 | 267.8 | 3.25 | 2.58  | 3.25 |
| 20-33- 67 | 11.19 | 20.98  | .01299 | .02701 | .0     | .0     | 4.95  | 1.00  | 1.00  | .667 | .0531 | .883 | 247.7 | 247.7 | 247.7 | 247.7 | 3.47 | 2.81  | 3.47 |
| 20-33- 68 | 10.20 | 19.08  | .01315 | .02728 | .0     | .0     | 4.90  | 1.00  | 1.00  | .667 | .0532 | .883 | 226.9 | 226.9 | 226.9 | 226.9 | 3.44 | 2.77  | 3.44 |
| 20-33- 69 | 9.06  | 16.84  | .01325 | .02734 | .0     | .0     | 4.80  | 1.00  | 1.00  | .667 | .0535 | .881 | 201.8 | 201.8 | 201.8 | 201.8 | 3.44 | 2.77  | 3.44 |
| 20-33- 70 | 8.18  | 15.13  | .01334 | .02737 | .0     | .0     | 4.71  | 1.00  | 1.00  | .667 | .0537 | .879 | 182.3 | 182.3 | 182.3 | 182.3 | 3.45 | 2.78  | 3.45 |
| 20-33- 71 | 7.22  | 13.27  | .01351 | .02756 | .0     | .0     | 4.62  | 1.00  | 1.00  | .667 | .0540 | .878 | 161.4 | 161.4 | 161.4 | 161.4 | 3.43 | 2.76  | 3.43 |
| 20-33- 72 | 6.52  | 11.89  | .01351 | .02735 | .0     | .0     | 4.50  | 1.00  | 1.00  | .667 | .0543 | .876 | 145.2 | 145.2 | 145.2 | 145.2 | 3.48 | 2.81  | 3.48 |
| 20-33- 73 | 5.82  | 10.59  | .01381 | .02792 | .0     | .0     | 4.48  | 1.00  | 1.00  | .667 | .0544 | .875 | 130.9 | 130.9 | 130.9 | 130.9 | 3.40 | 2.72  | 3.40 |
| 20-33- 74 | 5.28  | 9.54   | .01389 | .02791 | .0     | .0     | 4.39  | 1.00  | 1.00  | .667 | .0547 | .874 | 118.6 | 118.6 | 118.6 | 118.6 | 3.41 | 2.73  | 3.41 |
| 20-33- 75 | 4.74  | 8.55   | .01418 | .02844 | .0     | .0     | 4.36  | 1.00  | 1.00  | .667 | .0548 | .873 | 107.5 | 107.5 | 107.5 | 107.5 | 3.34 | 2.66  | 3.34 |
| 20-33- 76 | 4.35  | 7.83   | .01432 | .02864 | .0     | .0     | 4.31  | 1.00  | 1.00  | .667 | .0549 | .872 | 99.2  | 99.2  | 99.2  | 99.2  | 3.32 | 2.64  | 3.32 |
| 20-33- 77 | 3.97  | 7.12   | .01450 | .02889 | .0     | .0     | 4.26  | 1.00  | 1.00  | .667 | .0551 | .871 | 90.8  | 90.8  | 90.8  | 90.8  | 3.29 | 2.61  | 3.29 |
| 20-33- 78 | 3.55  | 6.33   | .01469 | .02911 | .0     | .0     | 4.19  | 1.00  | 1.00  | .667 | .0553 | .870 | 81.6  | 81.6  | 81.6  | 81.6  | 3.27 | 2.59  | 3.27 |
| 20-33- 79 | 3.21  | 5.68   | .01475 | .02901 | .0     | .0     | 4.09  | 1.00  | 1.00  | .667 | .0557 | .868 | 73.6  | 73.6  | 73.6  | 73.6  | 3.30 | 2.61  | 3.30 |
| 20-33- 80 | 2.87  | 5.06   | .01508 | .02961 | .0     | .0     | 4.06  | 1.00  | 1.00  | .667 | .0558 | .867 | 66.4  | 66.4  | 66.4  | 66.4  | 3.22 | 2.53  | 3.22 |
| 20-33- 81 | 2.58  | 4.53   | .01530 | .02988 | .0     | .0     | 4.00  | 1.00  | 1.00  | .667 | .0560 | .866 | 60.0  | 60.0  | 60.0  | 60.0  | 3.19 | 2.51  | 3.19 |
| 20-33- 82 | 2.31  | 4.04   | .01555 | .03025 | .0     | .0     | 3.95  | 1.00  | 1.00  | .667 | .0562 | .865 | 54.1  | 54.1  | 54.1  | 54.1  | 3.16 | 2.47  | 3.16 |
| 20-33- 83 | 2.09  | 3.62   | .01562 | .03013 | .0     | .0     | 3.85  | 1.00  | 1.00  | .667 | .0566 | .863 | 48.8  | 48.8  | 48.8  | 48.8  | 3.19 | 2.50  | 3.19 |
| 20-33- 84 | 1.90  | 3.27   | .01584 | .03041 | .0     | .0     | 3.79  | 1.00  | 1.00  | .667 | .0568 | .862 | 44.5  | 44.5  | 44.5  | 44.5  | 3.17 | 2.47  | 3.17 |
| 20-33- 85 | 28.90 | 57.33  | .01293 | .02847 | .0     | .0     | 6.18  | 1.00  | 1.00  | .667 | .0508 | .899 | 656.9 | 656.9 | 656.9 | 656.9 | 3.13 | 2.48  | 3.13 |
| 20-33- 86 | 26.46 | 52.25  | .01295 | .02837 | .0     | .0     | 6.07  | 1.00  | 1.00  | .667 | .0510 | .898 | 600.4 | 600.4 | 600.4 | 600.4 | 3.15 | 2.50  | 3.15 |
| 20-33- 87 | 23.79 | 46.79  | .01306 | .02853 | .0     | .0     | 5.98  | 1.00  | 1.00  | .667 | .0511 | .897 | 541.1 | 541.1 | 541.1 | 541.1 | 3.14 | 2.49  | 3.14 |
| 20-33- 88 | 21.49 | 42.00  | .01301 | .02823 | .0     | .0     | 5.82  | 1.00  | 1.00  | .667 | .0514 | .895 | 486.5 | 486.5 | 486.5 | 486.5 | 3.20 | 2.54  | 3.20 |
| 20-33- 89 | 20.19 | 39.16  | .01281 | .02757 | .0     | .0     | 5.63  | 1.00  | 1.00  | .667 | .0517 | .893 | 451.7 | 451.7 | 451.7 | 451.7 | 3.31 | 2.66  | 3.31 |
| 20-33- 90 | 18.38 | 35.46  | .01283 | .02745 | .0     | .0     | 5.51  | 1.00  | 1.00  | .667 | .0519 | .891 | 410.3 | 410.3 | 410.3 | 410.3 | 3.34 | 2.69  | 3.34 |
| 20-33- 91 | 16.40 | 31.52  | .01300 | .02774 | .0     | .0     | 5.45  | 1.00  | 1.00  | .667 | .0521 | .890 | 367.9 | 367.9 | 367.9 | 367.9 | 3.31 | 2.65  | 3.31 |
| 20-33- 92 | 14.78 | 28.29  | .01310 | .02783 | .0     | .0     | 5.36  | 1.00  | 1.00  | .667 | .0523 | .889 | 332.2 | 332.2 | 332.2 | 332.2 | 3.30 | 2.64  | 3.30 |
| 20-33- 93 | 13.26 | 25.19  | .01309 | .02762 | .0     | .0     | 5.22  | 1.00  | 1.00  | .667 | .0526 | .887 | 296.8 | 296.8 | 296.8 | 296.8 | 3.35 | 2.69  | 3.35 |
| 20-33- 94 | 11.92 | 22.51  | .01311 | .02748 | .0     | .0     | 5.09  | 1.00  | 1.00  | .667 | .0528 | .885 | 266.2 | 266.2 | 266.2 | 266.2 | 3.39 | 2.72  | 3.39 |
| 20-33- 95 | 10.72 | 20.06  | .01306 | .02712 | .0     | .0     | 4.93  | 1.00  | 1.00  | .667 | .0532 | .883 | 237.8 | 237.8 | 237.8 | 237.8 | 3.46 | 2.79  | 3.46 |
| 20-33- 96 | 9.61  | 17.89  | .01314 | .02715 | .0     | .0     | 4.83  | 1.00  | 1.00  | .667 | .0534 | .881 | 213.3 | 213.3 | 213.3 | 213.3 | 3.47 | 2.80  | 3.47 |
| 20-33- 97 | 8.76  | 16.20  | .01317 | .02704 | .0     | .0     | 4.72  | 1.00  | 1.00  | .667 | .0537 | .880 | 194.0 | 194.0 | 194.0 | 194.0 | 3.50 | 2.83  | 3.50 |
| 20-33- 98 | 8.01  | 14.84  | .01353 | .02785 | .0     | .0     | 4.77  | 1.00  | 1.00  | .667 | .0536 | .880 | 180.0 | 180.0 | 180.0 | 180.0 | 3.37 | 2.70  | 3.37 |
| 20-33- 99 | 7.33  | 13.52  | .01364 | .02796 | .0     | .0     | 4.70  | 1.00  | 1.00  | .667 | .0538 | .879 | 165.0 | 165.0 | 165.0 | 165.0 | 3.36 | 2.69  | 3.36 |



| VERS.NR.  | RE*E4 | Q<KW/M2> | ST1+/<br>ST1*/ | SIT+/<br>SIT*/ | ST1F/<br>ST1F/ | H+   | G+   | GPR01 | G*   | G*R  | GT   | GTR  | GTR1 | GTF  | GTR  | X    | YR   | YG   |      |      |
|-----------|-------|----------|----------------|----------------|----------------|------|------|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 20-33- 51 | 11.51 | 326      | 1.06           | 1.08           | 1.07           | 1.09 | 1.15 | 251.4 | 15.1 | 15.3 | 14.8 | 19.5 | 15.0 | 19.8 | 14.1 | 13.5 | 18.2 | 2.05 | 8.66 | 18.6 |
| 20-33- 52 | 10.36 | 305      | 1.06           | 1.08           | 1.08           | 1.09 | 1.16 | 224.5 | 14.5 | 14.6 | 14.2 | 18.7 | 14.3 | 18.9 | 13.5 | 12.8 | 17.4 | 2.04 | 8.72 | 17.9 |
| 20-33- 53 | 9.28  | 285      | 1.06           | 1.08           | 1.07           | 1.09 | 1.17 | 201.5 | 13.9 | 14.1 | 13.6 | 18.0 | 13.8 | 18.3 | 13.0 | 12.3 | 16.7 | 2.03 | 8.69 | 17.4 |
| 20-33- 54 | 8.40  | 266      | 1.07           | 1.09           | 1.08           | 1.10 | 1.18 | 180.8 | 13.1 | 13.2 | 12.7 | 17.0 | 12.9 | 17.2 | 12.3 | 11.4 | 15.6 | 2.02 | 8.78 | 16.5 |
| 20-33- 55 | 7.74  | 254      | 1.06           | 1.09           | 1.08           | 1.10 | 1.18 | 168.9 | 13.1 | 13.2 | 12.7 | 16.9 | 12.9 | 17.2 | 12.3 | 11.4 | 15.5 | 2.03 | 8.66 | 16.4 |
| 20-33- 56 | 7.03  | 232      | 1.06           | 1.09           | 1.08           | 1.10 | 1.18 | 153.5 | 12.7 | 12.8 | 12.2 | 16.4 | 12.5 | 16.7 | 11.9 | 10.9 | 15.0 | 2.02 | 8.64 | 15.9 |
| 20-33- 57 | 6.88  | 437      | 1.07           | 1.09           | 1.08           | 1.11 | 1.19 | 146.2 | 12.5 | 11.9 | 12.1 | 15.4 | 12.3 | 15.8 | 11.3 | 10.7 | 13.9 | 2.01 | 8.80 | 15.7 |
| 20-33- 58 | 7.54  | 461      | 1.07           | 1.09           | 1.08           | 1.10 | 1.19 | 160.1 | 13.0 | 12.3 | 12.6 | 16.0 | 12.8 | 16.4 | 11.7 | 11.2 | 14.6 | 2.01 | 8.81 | 16.2 |
| 20-33- 59 | 8.22  | 479      | 1.07           | 1.09           | 1.08           | 1.10 | 1.18 | 172.0 | 13.3 | 12.6 | 13.0 | 16.4 | 13.1 | 16.8 | 11.9 | 11.5 | 15.0 | 2.01 | 8.95 | 16.6 |
| 20-33- 60 | 9.12  | 519      | 1.07           | 1.09           | 1.08           | 1.10 | 1.18 | 191.4 | 13.2 | 12.6 | 12.9 | 16.4 | 13.0 | 16.7 | 11.9 | 11.5 | 15.0 | 2.02 | 8.93 | 16.5 |
| 20-33- 61 | 10.06 | 578      | 1.07           | 1.09           | 1.08           | 1.10 | 1.17 | 211.9 | 14.1 | 13.3 | 13.7 | 17.3 | 13.9 | 17.7 | 12.6 | 12.3 | 15.9 | 2.02 | 8.90 | 17.4 |
| 20-33- 62 | 11.24 | 621      | 1.07           | 1.08           | 1.08           | 1.09 | 1.17 | 237.8 | 14.7 | 13.9 | 14.3 | 18.1 | 14.5 | 18.4 | 13.1 | 13.0 | 16.7 | 2.03 | 8.87 | 18.0 |
| 20-33- 63 | 12.43 | 669      | 1.06           | 1.08           | 1.07           | 1.09 | 1.16 | 264.4 | 15.4 | 14.6 | 15.0 | 18.9 | 15.2 | 19.2 | 13.7 | 13.7 | 17.5 | 2.04 | 8.84 | 18.8 |
| 20-33- 64 | 14.71 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 332.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.07 | 8.42 | 0.0  |
| 20-33- 65 | 13.12 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 295.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.07 | 8.47 | 0.0  |
| 20-33- 66 | 11.83 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 267.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.06 | 8.41 | 0.0  |
| 20-33- 67 | 11.19 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 247.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.05 | 8.60 | 0.0  |
| 20-33- 68 | 10.20 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 226.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.05 | 8.56 | 0.0  |
| 20-33- 69 | 9.06  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 201.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.05 | 8.55 | 0.0  |
| 20-33- 70 | 8.18  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 182.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.04 | 8.55 | 0.0  |
| 20-33- 71 | 7.22  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 161.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.04 | 8.52 | 0.0  |
| 20-33- 72 | 6.52  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 145.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.03 | 8.55 | 0.0  |
| 20-33- 73 | 5.82  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 130.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.03 | 8.46 | 0.0  |
| 20-33- 74 | 5.28  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 118.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.02 | 8.47 | 0.0  |
| 20-33- 75 | 4.74  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 107.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.02 | 8.39 | 0.0  |
| 20-33- 76 | 4.35  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 99.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.02 | 8.36 | 0.0  |
| 20-33- 77 | 3.97  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 90.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.01 | 8.32 | 0.0  |
| 20-33- 78 | 3.55  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 81.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.01 | 8.29 | 0.0  |
| 20-33- 79 | 3.21  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 73.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.00 | 8.30 | 0.0  |
| 20-33- 80 | 2.87  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 66.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.00 | 8.22 | 0.0  |
| 20-33- 81 | 2.58  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 60.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.00 | 8.18 | 0.0  |
| 20-33- 82 | 2.31  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 54.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.99 | 8.13 | 0.0  |
| 20-33- 83 | 2.09  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 48.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.98 | 8.15 | 0.0  |
| 20-33- 84 | 1.90  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 44.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.98 | 8.11 | 0.0  |
| 20-33- 85 | 28.90 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 656.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.10 | 8.38 | 0.0  |
| 20-33- 86 | 26.46 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 600.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.10 | 8.40 | 0.0  |
| 20-33- 87 | 23.79 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 541.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.09 | 8.37 | 0.0  |
| 20-33- 88 | 21.49 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 486.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.09 | 8.42 | 0.0  |
| 20-33- 89 | 20.19 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 451.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.08 | 8.52 | 0.0  |
| 20-33- 90 | 18.38 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 410.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.08 | 8.54 | 0.0  |
| 20-33- 91 | 16.40 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 367.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.07 | 8.49 | 0.0  |
| 20-33- 92 | 14.78 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 332.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.07 | 8.48 | 0.0  |
| 20-33- 93 | 13.25 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 296.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.06 | 8.51 | 0.0  |
| 20-33- 94 | 11.92 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 266.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.06 | 8.53 | 0.0  |
| 20-33- 95 | 10.72 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 237.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.05 | 8.59 | 0.0  |
| 20-33- 96 | 9.61  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 213.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.05 | 8.58 | 0.0  |
| 20-33- 97 | 8.76  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 194.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.04 | 8.60 | 0.0  |
| 20-33- 98 | 8.01  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 180.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.04 | 8.47 | 0.0  |
| 20-33- 99 | 7.33  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 165.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.04 | 8.46 | 0.0  |

NITROGEN

| VERS.NR. | RE*E4 | RE1*E4 | F      | F1     | STR    | STPR   | F1/F2 | TW/TB | TW/T1 | PR   | H/Y   | RETA | H+     | H+W    | H+R    | H+RW   | RH+  | RH+01 | RH+R |
|----------|-------|--------|--------|--------|--------|--------|-------|-------|-------|------|-------|------|--------|--------|--------|--------|------|-------|------|
| 20-33-1  | 50.24 | 100.55 | .01224 | .02749 | .00424 | .00361 | 6.63  | 1.23  | 1.23  | .693 | .0503 | .903 | 1119.4 | 784.0  | 1153.7 | 808.1  | 3.25 | 2.61  | 3.00 |
| 20-33-2  | 43.12 | 85.66  | .01232 | .02749 | .00434 | .00370 | 6.46  | 1.24  | 1.24  | .693 | .0506 | .901 | 959.7  | 666.6  | 989.9  | 687.6  | 3.27 | 2.62  | 3.01 |
| 20-33-3  | 38.58 | 76.38  | .01232 | .02720 | .00439 | .00375 | 6.26  | 1.24  | 1.24  | .693 | .0508 | .900 | 855.8  | 596.1  | 882.5  | 614.7  | 3.32 | 2.67  | 3.06 |
| 20-33-4  | 36.20 | 70.95  | .01199 | .02619 | .00443 | .00378 | 5.98  | 1.24  | 1.23  | .693 | .0512 | .897 | 788.0  | 550.3  | 812.4  | 567.3  | 3.51 | 2.85  | 3.25 |
| 20-33-5  | 32.94 | 63.99  | .01206 | .02634 | .00449 | .00384 | 5.94  | 1.25  | 1.24  | .693 | .0514 | .896 | 716.2  | 493.4  | 739.3  | 509.3  | 3.49 | 2.84  | 3.22 |
| 20-33-6  | 29.33 | 56.70  | .01215 | .02644 | .00464 | .00396 | 5.84  | 1.24  | 1.24  | .693 | .0516 | .894 | 638.7  | 443.4  | 658.8  | 457.3  | 3.49 | 2.83  | 3.22 |
| 20-33-7  | 26.47 | 50.97  | .01223 | .02649 | .00465 | .00396 | 5.74  | 1.23  | 1.23  | .693 | .0517 | .893 | 576.9  | 407.6  | 594.2  | 419.8  | 3.49 | 2.83  | 3.24 |
| 20-33-8  | 23.53 | 45.00  | .01226 | .02642 | .00486 | .00414 | 5.61  | 1.24  | 1.23  | .693 | .0520 | .892 | 511.9  | 359.2  | 527.6  | 370.2  | 3.51 | 2.85  | 3.26 |
| 20-33-9  | 21.24 | 40.34  | .01230 | .02635 | .00484 | .00414 | 5.49  | 1.24  | 1.24  | .693 | .0522 | .890 | 460.9  | 320.4  | 475.4  | 330.4  | 3.54 | 2.88  | 3.27 |
| 20-33-10 | 19.02 | 35.93  | .01235 | .02634 | .00493 | .00421 | 5.38  | 1.24  | 1.23  | .693 | .0525 | .888 | 412.7  | 288.1  | 425.5  | 297.0  | 3.55 | 2.89  | 3.29 |
| 20-33-11 | 17.11 | 31.95  | .01218 | .02571 | .00517 | .00442 | 5.17  | 1.25  | 1.24  | .693 | .0529 | .885 | 366.5  | 253.8  | 378.1  | 261.9  | 3.68 | 3.02  | 3.41 |
| 20-33-12 | 15.49 | 28.71  | .01219 | .02554 | .00547 | .00467 | 5.04  | 1.23  | 1.23  | .693 | .0532 | .884 | 330.4  | 233.0  | 340.4  | 240.1  | 3.73 | 3.06  | 3.47 |
| 20-33-13 | 14.29 | 26.29  | .01237 | .02603 | .00532 | .00455 | 5.07  | 1.24  | 1.24  | .693 | .0533 | .883 | 306.1  | 213.5  | 315.6  | 220.1  | 3.65 | 2.98  | 3.38 |
| 20-33-14 | 11.62 | 21.14  | .01257 | .02624 | .00579 | .00494 | 4.92  | 1.24  | 1.23  | .693 | .0537 | .880 | 249.5  | 175.8  | 257.1  | 181.1  | 3.64 | 2.96  | 3.38 |
| 20-33-15 | 10.49 | 19.00  | .01270 | .02644 | .00585 | .00500 | 4.85  | 1.24  | 1.23  | .693 | .0539 | .879 | 226.0  | 159.0  | 232.9  | 163.8  | 3.61 | 2.94  | 3.35 |
| 20-33-16 | 9.37  | 16.81  | .01267 | .02612 | .00581 | .00497 | 4.70  | 1.24  | 1.23  | .693 | .0543 | .877 | 200.6  | 140.3  | 206.8  | 144.6  | 3.68 | 3.01  | 3.42 |
| 20-33-17 | 8.43  | 15.01  | .01283 | .02630 | .00591 | .00505 | 4.63  | 1.24  | 1.23  | .693 | .0545 | .876 | 180.6  | 126.8  | 186.2  | 130.7  | 3.67 | 2.99  | 3.41 |
| 20-33-18 | 7.36  | 12.62  | .01249 | .02539 | .00569 | .00512 | 4.41  | 1.43  | 1.41  | .691 | .0556 | .870 | 152.9  | 85.5   | 160.6  | 89.8   | 3.88 | 3.19  | 3.45 |
| 20-33-19 | 8.20  | 14.38  | .01258 | .02559 | .00584 | .00524 | 4.50  | 1.42  | 1.40  | .691 | .0551 | .873 | 172.8  | 96.9   | 181.5  | 101.8  | 3.81 | 3.13  | 3.39 |
| 20-33-20 | 9.09  | 16.12  | .01256 | .02575 | .00577 | .00516 | 4.62  | 1.41  | 1.40  | .691 | .0547 | .875 | 192.6  | 109.0  | 202.2  | 114.4  | 3.77 | 3.09  | 3.35 |
| 20-33-21 | 10.19 | 18.15  | .01236 | .02542 | .00552 | .00495 | 4.67  | 1.42  | 1.41  | .691 | .0545 | .876 | 214.7  | 120.1  | 225.6  | 126.1  | 3.81 | 3.14  | 3.39 |
| 20-33-22 | 11.23 | 20.03  | .01219 | .02513 | .00568 | .00509 | 4.71  | 1.42  | 1.40  | .691 | .0544 | .877 | 235.0  | 131.8  | 246.9  | 138.5  | 3.86 | 3.18  | 3.43 |
| 20-33-23 | 12.60 | 22.42  | .01208 | .02531 | .00554 | .00496 | 4.88  | 1.42  | 1.40  | .691 | .0542 | .878 | 262.8  | 148.5  | 275.9  | 155.9  | 3.82 | 3.14  | 3.39 |
| 20-33-24 | 13.84 | 25.10  | .01211 | .02524 | .00532 | .00476 | 4.91  | 1.41  | 1.40  | .691 | .0538 | .881 | 291.2  | 164.7  | 305.7  | 172.9  | 3.81 | 3.14  | 3.39 |
| 20-33-25 | 15.04 | 26.46  | .01178 | .02473 | .00518 | .00464 | 4.93  | 1.42  | 1.40  | .691 | .0540 | .880 | 310.8  | 175.6  | 326.3  | 184.4  | 3.91 | 3.24  | 3.48 |
| 20-33-26 | 16.60 | 29.99  | .01179 | .02493 | .00515 | .00462 | 5.06  | 1.42  | 1.41  | .691 | .0537 | .881 | 344.7  | 192.7  | 362.2  | 202.5  | 3.86 | 3.19  | 3.43 |
| 20-33-27 | 18.49 | 33.75  | .01185 | .02526 | .00504 | .00452 | 5.22  | 1.42  | 1.41  | .691 | .0533 | .884 | 387.0  | 216.8  | 406.6  | 227.7  | 3.78 | 3.11  | 3.35 |
| 20-33-28 | 20.49 | 38.15  | .01198 | .02552 | .00488 | .00437 | 5.33  | 1.42  | 1.41  | .691 | .0528 | .887 | 434.8  | 243.7  | 456.8  | 256.1  | 3.71 | 3.04  | 3.28 |
| 20-33-29 | 22.87 | 42.75  | .01186 | .02533 | .00479 | .00429 | 5.40  | 1.42  | 1.41  | .691 | .0526 | .888 | 483.5  | 270.3  | 508.1  | 284.0  | 3.73 | 3.07  | 3.30 |
| 20-33-30 | 25.63 | 48.26  | .01180 | .02536 | .00469 | .00421 | 5.51  | 1.42  | 1.41  | .691 | .0524 | .890 | 542.9  | 302.8  | 570.6  | 318.2  | 3.71 | 3.05  | 3.28 |
| 20-33-31 | 28.36 | 53.74  | .01182 | .02551 | .00462 | .00413 | 5.64  | 1.41  | 1.40  | .691 | .0521 | .891 | 602.6  | 340.1  | 632.7  | 357.1  | 3.67 | 3.01  | 3.25 |
| 20-33-32 | 31.76 | 60.56  | .01173 | .02544 | .00443 | .00397 | 5.74  | 1.42  | 1.41  | .691 | .0519 | .893 | 674.9  | 375.4  | 709.5  | 394.6  | 3.68 | 3.02  | 3.24 |
| 20-33-33 | 34.94 | 66.91  | .01166 | .02538 | .00438 | .00393 | 5.82  | 1.42  | 1.41  | .691 | .0518 | .894 | 741.9  | 413.2  | 779.8  | 434.4  | 3.68 | 3.02  | 3.24 |
| 20-33-34 | 37.32 | 72.17  | .01195 | .02629 | .00438 | .00394 | 6.08  | 1.44  | 1.43  | .691 | .0514 | .897 | 806.6  | 440.3  | 849.3  | 463.6  | 3.50 | 2.85  | 3.06 |
| 20-33-35 | 41.29 | 80.66  | .01207 | .02674 | .00426 | .00381 | 6.28  | 1.41  | 1.40  | .691 | .0510 | .899 | 901.3  | 507.1  | 946.6  | 532.6  | 3.41 | 2.76  | 2.99 |
| 20-33-36 | 6.38  | 10.27  | .01191 | .02413 | .00580 | .00557 | 4.15  | 1.66  | 1.62  | .690 | .0574 | .861 | 125.8  | 55.2   | 134.9  | 59.2   | 4.24 | 3.55  | 3.63 |
| 20-33-37 | 7.23  | 12.04  | .01226 | .02523 | .00562 | .00537 | 4.42  | 1.65  | 1.61  | .691 | .0562 | .867 | 147.3  | 65.1   | 157.9  | 69.8   | 3.94 | 3.25  | 3.34 |
| 20-33-38 | 8.10  | 13.50  | .01202 | .02472 | .00557 | .00533 | 4.44  | 1.65  | 1.61  | .690 | .0561 | .868 | 163.2  | 72.0   | 175.0  | 77.2   | 4.02 | 3.33  | 3.42 |
| 20-33-39 | 8.97  | 15.08  | .01193 | .02467 | .00552 | .00527 | 4.52  | 1.64  | 1.61  | .690 | .0558 | .870 | 181.0  | 80.4   | 193.9  | 86.1   | 4.02 | 3.33  | 3.42 |
| 20-33-40 | 10.11 | 17.14  | .01189 | .02468 | .00536 | .00513 | 4.62  | 1.65  | 1.61  | .690 | .0555 | .872 | 204.2  | 89.9   | 218.9  | 96.3   | 4.00 | 3.31  | 3.39 |
| 20-33-41 | 11.13 | 19.37  | .01191 | .02447 | .00538 | .00513 | 4.62  | 1.63  | 1.60  | .690 | .0550 | .874 | 227.5  | 101.2  | 243.6  | 108.4  | 4.01 | 3.33  | 3.41 |
| 20-33-42 | 12.47 | 21.48  | .01164 | .02441 | .00534 | .00507 | 4.76  | 1.63  | 1.59  | .690 | .0550 | .874 | 251.8  | 113.1  | 269.4  | 121.0  | 4.02 | 3.34  | 3.43 |
| 20-33-43 | 13.67 | 23.62  | .01156 | .02422 | .00513 | .00489 | 4.80  | 1.64  | 1.61  | .690 | .0549 | .875 | 274.9  | 122.2  | 294.4  | 130.8  | 4.05 | 3.37  | 3.45 |
| 20-33-44 | 14.76 | 25.60  | .01133 | .02367 | .00503 | .00475 | 4.76  | 1.61  | 1.58  | .689 | .0548 | .875 | 294.4  | 134.6  | 314.6  | 143.8  | 4.15 | 3.47  | 3.57 |
| 20-33-45 | 16.27 | 28.52  | .01140 | .02409 | .00498 | .00473 | 4.93  | 1.62  | 1.60  | .689 | .0544 | .878 | 327.9  | 147.0  | 350.9  | 157.3  | 4.05 | 3.37  | 3.45 |
| 20-33-46 | 20.14 | 36.59  | .01156 | .02445 | .00480 | .00454 | 5.14  | 1.62  | 1.60  | .689 | .0535 | .883 | 414.9  | 186.3  | 444.0  | 199.4  | 3.94 | 3.27  | 3.34 |
| 20-33-47 | 53.46 | 108.69 | .01256 | .02828 | .0     | .0     | 6.83  | 1.00  | 1.00  | .695 | .0498 | .906 | 1212.1 | 1212.1 | 1212.1 | 1212.1 | 3.11 | 2.46  | 3.11 |
| 20-33-48 | 48.79 | 98.92  | .01265 | .02841 | .0     | .0     | 6.75  | 1.00  | 1.00  | .695 | .0499 | .905 | 1108.7 | 1108.7 | 1108.7 | 1108.7 | 3.09 | 2.45  | 3.09 |
| 20-33-49 | 43.71 | 88.11  | .01264 | .02821 | .0     | .0     | 6.59  | 1.00  | 1.00  | .695 | .0502 | .903 | 989.7  | 989.7  | 989.7  | 989.7  | 3.13 | 2.49  | 3.13 |
| 20-33-50 | 39.54 | 79.37  | .01269 | .02823 | .0     | .0     | 6.48  | 1.00  | 1.00  | .695 | .0503 | .902 | 895.4  | 895.4  | 895.4  | 895.4  | 3.14 | 2.49  | 3.14 |

| VERS.NR. | RE#E4 | Q<KW/M2> | ST1+/<br>ST1*/* | STT+/<br>STT*/* | STIF/<br>STIF*/* | H+   | G+   | GPR01  | G*   | G*R  | GT   | GTR  | GTR1 | GTF  | GTFR | X    | YR   | YG   |      |      |
|----------|-------|----------|-----------------|-----------------|------------------|------|------|--------|------|------|------|------|------|------|------|------|------|------|------|------|
| 20-33- 1 | 50.24 | 225      | 1.04            | 1.06            | 1.05             | 1.07 | 1.11 | 1119.4 | 21.4 | 21.0 | 20.7 | 26.3 | 21.2 | 27.0 | 19.5 | 19.7 | 25.2 | 2.11 | 8.53 | 25.0 |
| 20-33- 2 | 43.12 | 204      | 1.04            | 1.07            | 1.05             | 1.07 | 1.11 | 959.7  | 20.7 | 20.3 | 20.1 | 25.5 | 20.5 | 26.1 | 18.9 | 19.0 | 24.4 | 2.11 | 8.53 | 24.3 |
| 20-33- 3 | 38.58 | 184      | 1.04            | 1.06            | 1.05             | 1.07 | 1.11 | 855.8  | 20.2 | 19.8 | 19.8 | 25.1 | 20.0 | 25.6 | 18.5 | 18.7 | 24.0 | 2.10 | 8.58 | 23.9 |
| 20-33- 4 | 36.20 | 172      | 1.05            | 1.06            | 1.05             | 1.07 | 1.12 | 788.0  | 19.5 | 19.2 | 19.1 | 24.3 | 19.3 | 24.7 | 17.8 | 18.0 | 23.2 | 2.09 | 8.74 | 23.2 |
| 20-33- 5 | 32.94 | 167      | 1.05            | 1.07            | 1.06             | 1.08 | 1.12 | 716.2  | 19.1 | 18.7 | 18.8 | 23.9 | 18.9 | 24.2 | 17.4 | 17.6 | 22.7 | 2.09 | 8.71 | 22.8 |
| 20-33- 6 | 29.33 | 150      | 1.05            | 1.07            | 1.06             | 1.08 | 1.12 | 638.7  | 18.4 | 18.0 | 18.0 | 23.0 | 18.2 | 23.3 | 16.8 | 16.8 | 21.8 | 2.08 | 8.70 | 22.1 |
| 20-33- 7 | 26.47 | 128      | 1.05            | 1.07            | 1.06             | 1.08 | 1.13 | 576.9  | 18.3 | 18.0 | 18.0 | 23.0 | 18.1 | 23.2 | 16.7 | 16.8 | 21.8 | 2.08 | 8.69 | 22.0 |
| 20-33- 8 | 23.53 | 123      | 1.05            | 1.07            | 1.06             | 1.08 | 1.13 | 511.9  | 17.3 | 17.0 | 16.9 | 21.7 | 17.1 | 22.0 | 15.8 | 15.7 | 20.5 | 2.08 | 8.70 | 20.9 |
| 20-33- 9 | 21.24 | 114      | 1.06            | 1.07            | 1.07             | 1.08 | 1.13 | 460.9  | 17.2 | 16.9 | 17.0 | 21.7 | 17.0 | 21.9 | 15.7 | 15.8 | 20.5 | 2.07 | 8.71 | 20.9 |
| 20-33-10 | 19.02 | 102      | 1.06            | 1.07            | 1.07             | 1.08 | 1.14 | 412.7  | 16.9 | 16.6 | 16.5 | 21.2 | 16.7 | 21.5 | 15.4 | 15.3 | 20.0 | 2.07 | 8.71 | 20.5 |
| 20-33-11 | 17.11 | 100      | 1.06            | 1.08            | 1.07             | 1.09 | 1.15 | 366.5  | 15.6 | 15.2 | 15.2 | 19.6 | 15.4 | 19.9 | 14.2 | 14.0 | 18.3 | 2.06 | 8.82 | 19.1 |
| 20-33-12 | 15.49 | 90       | 1.06            | 1.08            | 1.07             | 1.09 | 1.16 | 330.4  | 14.3 | 14.1 | 14.0 | 18.1 | 14.1 | 18.4 | 13.2 | 12.7 | 16.9 | 2.05 | 8.85 | 17.8 |
| 20-33-13 | 14.29 | 84       | 1.07            | 1.08            | 1.08             | 1.09 | 1.16 | 306.1  | 14.9 | 14.6 | 14.7 | 19.0 | 14.7 | 19.1 | 13.6 | 13.4 | 17.6 | 2.05 | 8.77 | 18.5 |
| 20-33-14 | 11.62 | 72       | 1.07            | 1.09            | 1.09             | 1.10 | 1.17 | 249.5  | 13.3 | 13.1 | 13.1 | 17.0 | 13.1 | 17.1 | 12.2 | 11.8 | 15.7 | 2.04 | 8.73 | 16.9 |
| 20-33-15 | 10.49 | 66       | 1.07            | 1.09            | 1.08             | 1.10 | 1.18 | 226.0  | 13.2 | 13.0 | 13.0 | 16.9 | 13.0 | 17.0 | 12.2 | 11.6 | 15.5 | 2.04 | 8.70 | 16.7 |
| 20-33-16 | 9.37  | 60       | 1.08            | 1.09            | 1.09             | 1.10 | 1.18 | 200.6  | 13.2 | 12.9 | 13.0 | 16.9 | 13.0 | 17.0 | 12.1 | 11.6 | 15.5 | 2.03 | 8.75 | 16.7 |
| 20-33-17 | 8.43  | 55       | 1.08            | 1.09            | 1.10             | 1.10 | 1.18 | 180.6  | 12.8 | 12.6 | 12.8 | 16.6 | 12.6 | 16.6 | 11.8 | 11.4 | 15.2 | 2.02 | 8.72 | 16.4 |
| 20-33-18 | 7.36  | 87       | 1.08            | 1.10            | 1.10             | 1.11 | 1.20 | 152.9  | 13.2 | 12.1 | 13.0 | 16.2 | 13.0 | 16.5 | 11.7 | 11.5 | 14.7 | 2.00 | 8.88 | 16.5 |
| 20-33-19 | 8.20  | 98       | 1.07            | 1.09            | 1.08             | 1.10 | 1.19 | 172.8  | 13.0 | 12.0 | 12.7 | 15.9 | 12.8 | 16.3 | 11.6 | 11.3 | 14.4 | 2.01 | 8.84 | 16.3 |
| 20-33-20 | 9.09  | 105      | 1.07            | 1.09            | 1.08             | 1.10 | 1.18 | 192.6  | 13.3 | 12.3 | 13.0 | 16.3 | 13.1 | 16.7 | 11.9 | 11.6 | 14.8 | 2.02 | 8.81 | 16.7 |
| 20-33-21 | 10.19 | 116      | 1.07            | 1.09            | 1.08             | 1.10 | 1.17 | 214.7  | 14.1 | 12.9 | 13.7 | 17.1 | 13.9 | 17.5 | 12.5 | 12.3 | 15.7 | 2.02 | 8.87 | 17.4 |
| 20-33-22 | 11.23 | 131      | 1.07            | 1.09            | 1.08             | 1.10 | 1.18 | 235.0  | 13.4 | 12.3 | 13.1 | 16.4 | 13.2 | 16.7 | 11.9 | 11.7 | 14.9 | 2.03 | 8.92 | 16.8 |
| 20-33-23 | 12.60 | 142      | 1.08            | 1.09            | 1.09             | 1.10 | 1.18 | 262.8  | 13.8 | 12.7 | 13.5 | 16.9 | 13.6 | 17.2 | 12.3 | 12.1 | 15.5 | 2.03 | 8.89 | 17.2 |
| 20-33-24 | 13.84 | 148      | 1.06            | 1.08            | 1.08             | 1.09 | 1.16 | 291.2  | 14.8 | 13.6 | 14.4 | 18.0 | 14.6 | 18.3 | 13.1 | 13.1 | 16.6 | 2.04 | 8.90 | 18.2 |
| 20-33-25 | 15.04 | 157      | 1.07            | 1.09            | 1.08             | 1.10 | 1.17 | 310.8  | 14.9 | 13.7 | 14.7 | 18.2 | 14.7 | 18.5 | 13.2 | 13.3 | 16.8 | 2.03 | 8.99 | 18.4 |
| 20-33-26 | 16.60 | 177      | 1.07            | 1.09            | 1.08             | 1.10 | 1.17 | 344.7  | 15.1 | 13.9 | 14.9 | 18.4 | 14.9 | 18.7 | 13.4 | 13.5 | 17.0 | 2.04 | 8.96 | 18.6 |
| 20-33-27 | 18.49 | 191      | 1.07            | 1.08            | 1.08             | 1.09 | 1.16 | 387.0  | 15.8 | 14.5 | 15.5 | 19.2 | 15.6 | 19.5 | 14.0 | 14.1 | 17.8 | 2.05 | 8.90 | 19.3 |
| 20-33-28 | 20.49 | 203      | 1.06            | 1.08            | 1.07             | 1.08 | 1.14 | 434.8  | 16.7 | 15.4 | 16.4 | 20.3 | 16.5 | 20.7 | 14.8 | 15.1 | 19.0 | 2.06 | 8.85 | 20.3 |
| 20-33-29 | 22.87 | 224      | 1.06            | 1.07            | 1.07             | 1.08 | 1.14 | 483.5  | 17.0 | 15.6 | 16.7 | 20.6 | 16.8 | 21.0 | 15.1 | 15.5 | 19.3 | 2.06 | 8.89 | 20.6 |
| 20-33-30 | 25.63 | 247      | 1.06            | 1.07            | 1.07             | 1.08 | 1.14 | 542.9  | 17.5 | 16.1 | 17.2 | 21.2 | 17.3 | 21.6 | 15.5 | 15.9 | 19.9 | 2.07 | 8.88 | 21.1 |
| 20-33-31 | 28.36 | 262      | 1.06            | 1.07            | 1.07             | 1.08 | 1.13 | 602.6  | 17.9 | 16.5 | 17.7 | 21.8 | 17.7 | 22.1 | 15.9 | 16.4 | 20.5 | 2.07 | 8.86 | 21.6 |
| 20-33-32 | 31.76 | 289      | 1.05            | 1.07            | 1.06             | 1.08 | 1.13 | 674.9  | 18.9 | 17.4 | 18.6 | 22.9 | 18.8 | 23.3 | 16.8 | 17.4 | 21.6 | 2.08 | 8.87 | 22.6 |
| 20-33-33 | 34.94 | 314      | 1.05            | 1.07            | 1.06             | 1.08 | 1.12 | 741.9  | 19.2 | 17.6 | 18.9 | 23.2 | 19.0 | 23.6 | 17.0 | 17.7 | 21.9 | 2.08 | 8.88 | 22.9 |
| 20-33-34 | 37.32 | 347      | 1.05            | 1.07            | 1.06             | 1.08 | 1.12 | 806.6  | 19.7 | 18.0 | 19.3 | 23.6 | 19.5 | 24.1 | 17.4 | 18.2 | 22.4 | 2.09 | 8.72 | 23.4 |
| 20-33-35 | 41.29 | 349      | 1.05            | 1.07            | 1.06             | 1.07 | 1.12 | 901.3  | 20.6 | 19.0 | 20.3 | 24.9 | 20.4 | 25.4 | 18.3 | 19.1 | 23.7 | 2.10 | 8.65 | 24.4 |
| 20-33-36 | 6.38  | 122      | 1.09            | 1.11            | 1.11             | 1.13 | 1.24 | 125.8  | 12.4 | 10.5 | 12.0 | 14.1 | 12.1 | 14.7 | 10.4 | 10.4 | 12.4 | 1.97 | 9.10 | 15.3 |
| 20-33-37 | 7.23  | 131      | 1.09            | 1.11            | 1.10             | 1.12 | 1.21 | 147.3  | 13.4 | 11.4 | 13.1 | 15.4 | 13.2 | 15.9 | 11.3 | 11.5 | 13.7 | 1.99 | 8.90 | 16.5 |
| 20-33-38 | 8.10  | 147      | 1.09            | 1.10            | 1.10             | 1.12 | 1.21 | 163.2  | 13.4 | 11.4 | 13.1 | 15.4 | 13.1 | 15.9 | 11.3 | 11.5 | 13.7 | 1.99 | 9.00 | 16.5 |
| 20-33-39 | 8.97  | 160      | 1.09            | 1.10            | 1.10             | 1.12 | 1.21 | 181.0  | 13.5 | 11.5 | 13.2 | 15.6 | 13.3 | 16.1 | 11.4 | 11.6 | 14.0 | 2.00 | 9.00 | 16.6 |
| 20-33-40 | 10.11 | 178      | 1.08            | 1.10            | 1.10             | 1.11 | 1.20 | 204.2  | 14.1 | 12.0 | 13.9 | 16.2 | 13.9 | 16.8 | 11.9 | 12.3 | 14.6 | 2.00 | 9.00 | 17.3 |
| 20-33-41 | 11.13 | 193      | 1.07            | 1.09            | 1.08             | 1.10 | 1.18 | 227.5  | 14.2 | 12.1 | 13.8 | 16.3 | 13.9 | 16.9 | 12.0 | 12.3 | 14.8 | 2.01 | 9.04 | 17.4 |
| 20-33-42 | 12.47 | 212      | 1.08            | 1.10            | 1.09             | 1.11 | 1.19 | 251.8  | 14.1 | 12.1 | 13.8 | 16.3 | 13.9 | 16.8 | 12.0 | 12.3 | 14.8 | 2.01 | 9.05 | 17.3 |
| 20-33-43 | 13.67 | 227      | 1.08            | 1.09            | 1.09             | 1.11 | 1.19 | 274.9  | 14.8 | 12.7 | 14.6 | 17.1 | 14.6 | 17.6 | 12.5 | 13.1 | 15.6 | 2.02 | 9.09 | 18.1 |
| 20-33-44 | 14.76 | 233      | 1.08            | 1.09            | 1.09             | 1.10 | 1.18 | 294.4  | 15.0 | 13.0 | 14.8 | 17.5 | 14.8 | 18.0 | 12.8 | 13.3 | 16.0 | 2.02 | 9.19 | 18.3 |
| 20-33-45 | 16.27 | 263      | 1.08            | 1.09            | 1.09             | 1.10 | 1.18 | 327.9  | 15.4 | 13.2 | 15.1 | 17.8 | 15.2 | 18.3 | 13.1 | 13.6 | 16.3 | 2.03 | 9.11 | 18.7 |
| 20-33-46 | 20.14 | 309      | 1.06            | 1.08            | 1.07             | 1.09 | 1.15 | 414.9  | 16.6 | 14.3 | 16.3 | 19.1 | 16.4 | 19.7 | 14.1 | 14.9 | 17.8 | 2.04 | 9.05 | 20.0 |
| 20-33-47 | 53.46 | 0        | 0.0             | 0.0             | 0.0              | 0.0  | 0.0  | 1212.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.12 | 8.41 | 0.0  |
| 20-33-48 | 48.79 | 0        | 0.0             | 0.0             | 0.0              | 0.0  | 0.0  | 1108.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.12 | 8.39 | 0.0  |
| 20-33-49 | 43.71 | 0        | 0.0             | 0.0             | 0.0              | 0.0  | 0.0  | 989.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.12 | 8.42 | 0.0  |
| 20-33-50 | 39.54 | 0        | 0.0             | 0.0             | 0.0              | 0.0  | 0.0  | 895.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.11 | 8.42 | 0.0  |

NITROGEN

| VERS.NR.  | RE*E4 | RE1*E4 | F      | F1     | STB | STPR | F1/F2 | TW/TB | TW/T1 | PR   | H/Y   | BETA | H+    | H+W   | H+R   | H+RW  | RH+  | RH+01 | RH+R |
|-----------|-------|--------|--------|--------|-----|------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|------|-------|------|
| 20-33- 51 | 37.40 | 74.55  | .01244 | .02746 | .0  | .0   | 6.26  | 1.00  | 1.00  | .695 | .0506 | .900 | 835.7 | 835.7 | 835.7 | 835.7 | 3.27 | 2.62  | 3.27 |
| 20-33- 52 | 34.06 | 67.50  | .01240 | .02721 | .0  | .0   | 6.11  | 1.00  | 1.00  | .695 | .0508 | .899 | 757.5 | 757.5 | 757.5 | 757.5 | 3.33 | 2.67  | 3.33 |
| 20-33- 53 | 30.45 | 60.13  | .01252 | .02739 | .0  | .0   | 6.03  | 1.00  | 1.00  | .695 | .0510 | .898 | 679.5 | 679.5 | 679.5 | 679.5 | 3.30 | 2.65  | 3.30 |
| 20-33- 54 | 27.23 | 53.46  | .01255 | .02732 | .0  | .0   | 5.89  | 1.00  | 1.00  | .695 | .0512 | .896 | 606.6 | 606.6 | 606.6 | 606.6 | 3.33 | 2.67  | 3.33 |
| 20-33- 55 | 24.48 | 47.80  | .01259 | .02725 | .0  | .0   | 5.77  | 1.00  | 1.00  | .696 | .0514 | .895 | 544.7 | 544.7 | 544.7 | 544.7 | 3.35 | 2.69  | 3.35 |
| 20-33- 56 | 22.01 | 42.71  | .01258 | .02705 | .0  | .0   | 5.62  | 1.00  | 1.00  | .696 | .0517 | .893 | 488.0 | 488.0 | 488.0 | 488.0 | 3.40 | 2.74  | 3.40 |
| 20-33- 57 | 19.80 | 38.20  | .01259 | .02693 | .0  | .0   | 5.49  | 1.00  | 1.00  | .696 | .0520 | .891 | 438.1 | 438.1 | 438.1 | 438.1 | 3.43 | 2.77  | 3.43 |
| 20-33- 58 | 17.81 | 34.11  | .01257 | .02669 | .0  | .0   | 5.34  | 1.00  | 1.00  | .696 | .0522 | .889 | 392.1 | 392.1 | 392.1 | 392.1 | 3.48 | 2.82  | 3.48 |
| 20-33- 59 | 16.13 | 30.74  | .01262 | .02666 | .0  | .0   | 5.24  | 1.00  | 1.00  | .696 | .0525 | .888 | 354.9 | 354.9 | 354.9 | 354.9 | 3.50 | 2.83  | 3.50 |
| 20-33- 60 | 14.83 | 28.23  | .01283 | .02710 | .0  | .0   | 5.24  | 1.00  | 1.00  | .696 | .0525 | .888 | 328.9 | 328.9 | 328.9 | 328.9 | 3.43 | 2.77  | 3.43 |
| 20-33- 61 | 13.57 | 25.72  | .01288 | .02707 | .0  | .0   | 5.15  | 1.00  | 1.00  | .696 | .0527 | .886 | 300.9 | 300.9 | 300.9 | 300.9 | 3.44 | 2.78  | 3.44 |
| 20-33- 62 | 12.15 | 22.92  | .01300 | .02722 | .0  | .0   | 5.06  | 1.00  | 1.00  | .696 | .0529 | .885 | 270.1 | 270.1 | 270.1 | 270.1 | 3.43 | 2.77  | 3.43 |
| 20-33- 63 | 10.98 | 20.62  | .01315 | .02743 | .0  | .0   | 5.00  | 1.00  | 1.00  | .696 | .0531 | .884 | 244.9 | 244.9 | 244.9 | 244.9 | 3.41 | 2.74  | 3.41 |
| 20-33- 64 | 9.74  | 18.26  | .01342 | .02796 | .0  | .0   | 4.97  | 1.00  | 1.00  | .696 | .0531 | .883 | 219.4 | 219.4 | 219.4 | 219.4 | 3.33 | 2.66  | 3.33 |
| 20-33- 65 | 8.81  | 16.43  | .01354 | .02807 | .0  | .0   | 4.89  | 1.00  | 1.00  | .696 | .0534 | .882 | 198.7 | 198.7 | 198.7 | 198.7 | 3.33 | 2.66  | 3.33 |
| 20-33- 66 | 7.94  | 14.66  | .01339 | .02744 | .0  | .0   | 4.70  | 1.00  | 1.00  | .697 | .0538 | .879 | 177.2 | 177.2 | 177.2 | 177.2 | 3.45 | 2.78  | 3.45 |
| 20-33- 67 | 7.13  | 13.10  | .01352 | .02757 | .0  | .0   | 4.62  | 1.00  | 1.00  | .697 | .0541 | .878 | 159.5 | 159.5 | 159.5 | 159.5 | 3.45 | 2.77  | 3.45 |

| VERS.NR.  | RE*E4 | Q<K4/M2> | ST1+/<br>ST1*/ | ST1+/<br>ST1*/ | ST1+/<br>ST1*/ | ST1+/<br>ST1*/ | ST1+/<br>ST1*/ | H+    | G+  | GPH01 | G*  | G*R | GT  | GTR | GTR1 | GTF | GTFR | X    | YR   | YG  |
|-----------|-------|----------|----------------|----------------|----------------|----------------|----------------|-------|-----|-------|-----|-----|-----|-----|------|-----|------|------|------|-----|
| 20-33- 51 | 37.40 | 0        | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 835.7 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.11 | 8.53 | 0.0 |
| 20-33- 52 | 34.06 | 0        | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 757.5 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.10 | 8.57 | 0.0 |
| 20-33- 53 | 30.45 | 0        | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 679.5 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.10 | 8.55 | 0.0 |
| 20-33- 54 | 27.23 | 0        | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 606.6 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.09 | 8.56 | 0.0 |
| 20-33- 55 | 24.48 | 0        | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 544.7 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.09 | 8.57 | 0.0 |
| 20-33- 56 | 22.01 | 0        | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 488.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.08 | 8.60 | 0.0 |
| 20-33- 57 | 19.80 | 0        | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 438.1 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.08 | 8.62 | 0.0 |
| 20-33- 58 | 17.81 | 0        | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 392.1 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.07 | 8.66 | 0.0 |
| 20-33- 59 | 16.13 | 0        | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 354.9 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.07 | 8.66 | 0.0 |
| 20-33- 60 | 14.83 | 0        | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 328.9 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.07 | 8.59 | 0.0 |
| 20-33- 61 | 13.57 | 0        | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 300.9 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.06 | 8.60 | 0.0 |
| 20-33- 62 | 12.15 | 0        | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 270.1 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.06 | 8.57 | 0.0 |
| 20-33- 63 | 10.98 | 0        | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 244.9 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.05 | 8.54 | 0.0 |
| 20-33- 64 | 9.74  | 0        | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 219.4 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.05 | 8.46 | 0.0 |
| 20-33- 65 | 8.81  | 0        | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 198.7 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.05 | 8.44 | 0.0 |
| 20-33- 66 | 7.94  | 0        | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 177.2 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.04 | 8.54 | 0.0 |
| 20-33- 67 | 7.13  | 0        | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 159.5 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.03 | 8.52 | 0.0 |

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| VERS.NR. | RE*E4 | RE1*E4 | F      | F1     | STH    | STPR   | F1/F2 | TW/TH | TW/T1 | PR   | H/Y   | RETA | H+    | H+W   | H+R   | H+RW  | RH+   | RH+01 | RH+R  |
|----------|-------|--------|--------|--------|--------|--------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| 20-33- 1 | 6.34  | 10.93  | .01266 | .02548 | .00598 | .00526 | 4.27  | 1.31  | 1.30  | .703 | .0558 | .868 | 133.3 | 84.9  | 138.4 | 88.1  | 3.87  | 3.18  | 3.54  |
| 20-33- 2 | 3.06  | 5.00   | .01327 | .02543 | .00681 | .00596 | 3.67  | 1.29  | 1.28  | .702 | .0582 | .855 | 64.0  | 42.0  | 66.3  | 43.5  | 3.98  | 3.28  | 3.68  |
| 20-33- 3 | 2.86  | 4.24   | .01228 | .02336 | .00610 | .00598 | 3.43  | 1.70  | 1.64  | .696 | .0607 | .844 | 54.8  | 23.8  | 58.9  | 25.5  | 4.49  | 3.76  | 3.85  |
| 20-33- 4 | 5.93  | 9.47   | .01187 | .02397 | .00564 | .00557 | 4.08  | 1.72  | 1.68  | .696 | .0577 | .860 | 116.7 | 48.5  | 125.8 | 52.3  | 4.23  | 3.53  | 3.57  |
| 20-33- 5 | 0.78  | 0.93   | .01226 | .01872 | .00570 | .00551 | 2.07  | 1.66  | 1.56  | .695 | .0718 | .799 | 13.1  | 6.2   | 14.0  | 6.6   | 6.04  | 5.25  | 5.39  |
| 20-33- 6 | 0.38  | 0.44   | .01341 | .01786 | .00525 | .00466 | 1.61  | 1.35  | 1.31  | .702 | .0772 | .781 | 6.6   | 4.2   | 6.9   | 4.3   | 6.56  | 5.74  | 6.16  |
| 20-33- 7 | 0.47  | 0.58   | .01347 | .01892 | .00641 | .00558 | 1.80  | 1.28  | 1.24  | .702 | .0732 | .792 | 8.5   | 5.9   | 8.8   | 6.1   | 6.02  | 5.23  | 5.71  |
| 20-33- 8 | 0.57  | 0.72   | .01341 | .01966 | .00664 | .00579 | 1.95  | 1.28  | 1.25  | .702 | .0710 | .800 | 10.3  | 7.1   | 10.7  | 7.3   | 5.74  | 4.96  | 5.42  |
| 20-33- 9 | 0.69  | 0.92   | .01345 | .02066 | .00683 | .00595 | 2.15  | 1.28  | 1.24  | .702 | .0686 | .809 | 13.0  | 8.9   | 13.4  | 9.2   | 5.40  | 4.63  | 5.10  |
| 20-33-10 | 0.85  | 1.18   | .01362 | .02197 | .00698 | .00607 | 2.39  | 1.28  | 1.24  | .702 | .0661 | .818 | 16.4  | 11.3  | 17.0  | 11.6  | 5.00  | 4.25  | 4.71  |
| 20-33-11 | 1.03  | 1.50   | .01400 | .02373 | .00713 | .00620 | 2.68  | 1.27  | 1.24  | .702 | .0637 | .829 | 20.7  | 14.2  | 21.3  | 14.6  | 4.54  | 3.80  | 4.26  |
| 20-33-12 | 1.26  | 1.91   | .01433 | .02542 | .00726 | .00629 | 3.00  | 1.26  | 1.24  | .702 | .0616 | .838 | 26.3  | 18.1  | 27.1  | 18.7  | 4.14  | 3.41  | 3.87  |
| 20-33-13 | 1.55  | 2.41   | .01428 | .02601 | .00731 | .00634 | 3.21  | 1.26  | 1.24  | .702 | .0604 | .844 | 32.7  | 22.5  | 33.7  | 23.2  | 3.98  | 3.27  | 3.71  |
| 20-33-14 | 1.89  | 3.01   | .01418 | .02637 | .00721 | .00626 | 3.40  | 1.27  | 1.25  | .702 | .0594 | .849 | 40.2  | 27.4  | 41.5  | 28.3  | 3.88  | 3.17  | 3.61  |
| 20-33-15 | 2.31  | 3.77   | .01434 | .02750 | .00723 | .00630 | 3.69  | 1.28  | 1.26  | .703 | .0581 | .856 | 50.1  | 33.7  | 51.8  | 34.8  | 3.64  | 2.94  | 3.36  |
| 20-33-16 | 2.84  | 4.55   | .01309 | .02455 | .00669 | .00587 | 3.50  | 1.30  | 1.28  | .703 | .0589 | .852 | 58.1  | 38.1  | 60.2  | 39.5  | 4.18  | 3.47  | 3.87  |
| 20-33-17 | 3.53  | 5.83   | .01329 | .02572 | .00663 | .00581 | 3.82  | 1.30  | 1.28  | .703 | .0575 | .859 | 74.1  | 48.4  | 76.8  | 50.2  | 3.91  | 3.21  | 3.60  |
| 20-33-18 | 4.49  | 7.52   | .01288 | .02514 | .00630 | .00552 | 3.93  | 1.30  | 1.28  | .704 | .0570 | .862 | 93.4  | 61.1  | 96.8  | 63.3  | 3.98  | 3.29  | 3.67  |
| 20-33-19 | 5.81  | 9.87   | .01258 | .02498 | .00608 | .00536 | 4.12  | 1.32  | 1.30  | .704 | .0563 | .866 | 120.5 | 76.6  | 125.1 | 79.6  | 3.98  | 3.29  | 3.65  |
| 20-33-20 | 7.47  | 13.05  | .01269 | .02582 | .00577 | .00509 | 4.46  | 1.32  | 1.30  | .704 | .0552 | .872 | 158.0 | 100.1 | 164.1 | 104.0 | 3.78  | 3.10  | 3.45  |
| 20-33-21 | 5.73  | 9.87   | .01296 | .02604 | .00605 | .00532 | 4.27  | 1.30  | 1.29  | .703 | .0558 | .868 | 121.7 | 78.2  | 126.3 | 81.2  | 3.77  | 3.08  | 3.45  |
| 20-33-22 | 7.28  | 12.79  | .01287 | .02628 | .00578 | .00508 | 4.51  | 1.31  | 1.29  | .704 | .0550 | .873 | 155.6 | 99.7  | 161.5 | 103.4 | 3.69  | 3.01  | 3.37  |
| 20-33-23 | 9.35  | 16.66  | .01264 | .02612 | .00547 | .00482 | 4.71  | 1.32  | 1.30  | .704 | .0544 | .876 | 199.5 | 125.9 | 207.3 | 130.9 | 3.69  | 3.01  | 3.36  |
| 20-33-24 | 12.43 | 22.41  | .01222 | .02550 | .00525 | .00465 | 4.87  | 1.33  | 1.32  | .705 | .0540 | .879 | 262.4 | 163.0 | 273.0 | 169.6 | 3.77  | 3.10  | 3.43  |
| 20-33-25 | 15.62 | 28.51  | .01203 | .02536 | .00498 | .00442 | 5.06  | 1.34  | 1.33  | .705 | .0535 | .882 | 329.3 | 201.0 | 343.2 | 209.5 | 3.77  | 3.10  | 3.42  |
| 20-33-26 | 0.30  | 0.23   | .01056 | .00964 | .00314 | .00312 | 0.87  | 1.75  | 1.60  | .698 | .1051 | .720 | 3.7   | 1.7   | 3.9   | 1.8   | 11.13 | 10.19 | 10.17 |
| 20-33-27 | 0.39  | 0.34   | .01090 | .01149 | .00389 | .00385 | 1.10  | 1.73  | 1.57  | .697 | .0937 | .741 | 5.1   | 2.4   | 5.4   | 2.5   | 9.59  | 8.69  | 8.75  |
| 20-33-28 | 0.47  | 0.46   | .01153 | .01399 | .00453 | .00446 | 1.39  | 1.72  | 1.57  | .697 | .0841 | .762 | 6.8   | 3.2   | 7.3   | 3.4   | 8.07  | 7.21  | 7.31  |
| 20-33-29 | 0.58  | 0.59   | .01154 | .01493 | .00502 | .00495 | 1.56  | 1.72  | 1.57  | .696 | .0804 | .772 | 8.5   | 4.0   | 9.1   | 4.3   | 7.56  | 6.73  | 6.83  |
| 20-33-30 | 0.73  | 0.81   | .01186 | .01707 | .00526 | .00521 | 1.87  | 1.73  | 1.60  | .696 | .0747 | .789 | 11.5  | 5.2   | 12.3  | 5.6   | 6.62  | 5.81  | 5.90  |
| 20-33-31 | 0.91  | 1.07   | .01201 | .01822 | .00552 | .00544 | 2.09  | 1.72  | 1.60  | .696 | .0716 | .799 | 14.8  | 6.7   | 15.9  | 7.2   | 6.16  | 5.37  | 5.47  |
| 20-33-32 | 1.12  | 1.39   | .01221 | .01962 | .00587 | .00576 | 2.36  | 1.70  | 1.59  | .696 | .0686 | .810 | 19.1  | 8.7   | 20.4  | 9.3   | 5.67  | 4.90  | 5.01  |
| 20-33-33 | 1.36  | 1.77   | .01245 | .02096 | .00599 | .00588 | 2.62  | 1.71  | 1.60  | .696 | .0661 | .820 | 24.0  | 10.9  | 25.7  | 11.6  | 5.23  | 4.48  | 4.59  |
| 20-33-34 | 1.67  | 2.27   | .01256 | .02202 | .00620 | .00605 | 2.88  | 1.69  | 1.59  | .696 | .0641 | .829 | 30.5  | 13.8  | 32.6  | 14.8  | 4.91  | 4.16  | 4.28  |
| 20-33-35 | 2.05  | 2.91   | .01268 | .02317 | .00613 | .00604 | 3.16  | 1.72  | 1.63  | .696 | .0623 | .837 | 38.6  | 16.9  | 41.5  | 18.1  | 4.59  | 3.86  | 3.96  |
| 20-33-36 | 2.24  | 3.23   | .01279 | .02382 | .00624 | .00613 | 3.31  | 1.71  | 1.63  | .696 | .0615 | .841 | 42.9  | 18.7  | 46.1  | 20.1  | 4.43  | 3.70  | 3.80  |
| 20-33-37 | 2.31  | 3.24   | .01209 | .02178 | .00607 | .00596 | 3.07  | 1.71  | 1.62  | .696 | .0628 | .834 | 42.1  | 18.7  | 45.1  | 20.0  | 4.91  | 4.17  | 4.26  |
| 20-33-38 | 2.87  | 4.14   | .01208 | .02237 | .00596 | .00588 | 3.30  | 1.73  | 1.64  | .696 | .0614 | .841 | 53.2  | 23.0  | 57.1  | 24.7  | 4.72  | 4.00  | 4.07  |
| 20-33-39 | 3.63  | 5.52   | .01245 | .02413 | .00581 | .00576 | 3.71  | 1.74  | 1.67  | .696 | .0593 | .851 | 70.5  | 29.6  | 76.0  | 31.9  | 4.28  | 3.56  | 3.62  |
| 20-33-40 | 4.66  | 7.24   | .01218 | .02405 | .00574 | .00569 | 3.90  | 1.74  | 1.68  | .696 | .0585 | .856 | 90.8  | 37.9  | 97.9  | 40.8  | 4.25  | 3.54  | 3.59  |
| 20-33-41 | 4.65  | 7.20   | .01205 | .02382 | .00572 | .00569 | 3.86  | 1.75  | 1.69  | .696 | .0586 | .855 | 90.2  | 37.1  | 97.4  | 40.1  | 4.30  | 3.59  | 3.63  |
| 20-33-42 | 5.87  | 9.43   | .01219 | .02480 | .00553 | .00553 | 4.20  | 1.76  | 1.72  | .696 | .0573 | .862 | 117.2 | 46.9  | 126.7 | 50.8  | 4.06  | 3.36  | 3.38  |
| 20-33-43 | 7.63  | 12.50  | .01194 | .02452 | .00527 | .00528 | 4.37  | 1.77  | 1.72  | .697 | .0566 | .866 | 152.1 | 60.6  | 164.5 | 65.5  | 4.07  | 3.38  | 3.39  |
| 20-33-44 | 10.21 | 17.02  | .01152 | .02385 | .00499 | .00501 | 4.51  | 1.77  | 1.73  | .698 | .0561 | .869 | 201.9 | 79.5  | 218.6 | 86.1  | 4.18  | 3.49  | 3.47  |
| 20-33-45 | 14.08 | 23.92  | .01119 | .02346 | .00467 | .00473 | 4.71  | 1.80  | 1.76  | .699 | .0554 | .873 | 277.2 | 106.4 | 300.8 | 115.5 | 4.22  | 3.54  | 3.50  |
| 20-33-46 | 3.68  | 5.63   | .01241 | .02419 | .00586 | .00580 | 3.73  | 1.73  | 1.67  | .696 | .0592 | .852 | 71.9  | 30.2  | 77.4  | 32.5  | 4.26  | 3.55  | 3.60  |
| 20-33-47 | 3.58  | 5.48   | .01248 | .02432 | .00589 | .00582 | 3.73  | 1.73  | 1.66  | .696 | .0592 | .852 | 70.1  | 29.7  | 75.5  | 32.0  | 4.24  | 3.52  | 3.59  |
| 20-33-48 | 1.85  | 2.51   | .01218 | .02129 | .00607 | .00594 | 2.86  | 1.70  | 1.60  | .695 | .0642 | .828 | 33.1  | 14.9  | 35.5  | 16.0  | 5.08  | 4.33  | 4.44  |
| 20-33-49 | 1.48  | 1.92   | .01215 | .02026 | .00598 | .00583 | 2.59  | 1.69  | 1.58  | .695 | .0662 | .819 | 25.7  | 11.9  | 27.5  | 12.7  | 5.40  | 4.65  | 4.77  |
| 20-33-50 | 1.16  | 1.43   | .01198 | .01891 | .00583 | .00570 | 2.30  | 1.70  | 1.57  | .695 | .0691 | .808 | 19.4  | 9.0   | 20.7  | 9.6   | 5.87  | 5.10  | 5.22  |

| VERS.NR.  | RE*E4 | Q<KW/M2> | ST1+/<br>ST1*/<br>STT+/<br>STT*/<br>ST1F/<br>H+ | ST1+/<br>ST1*/<br>STT+/<br>STT*/<br>ST1F/<br>H+ | ST1+/<br>ST1*/<br>STT+/<br>STT*/<br>ST1F/<br>H+ | ST1+/<br>ST1*/<br>STT+/<br>STT*/<br>ST1F/<br>H+ | ST1+/<br>ST1*/<br>STT+/<br>STT*/<br>ST1F/<br>H+ | H+    | G+   | GPR01 | G*   | G*R  | GT   | GTR  | GTR1 | GTF  | GTR1 | X    | YR    | YG   |
|-----------|-------|----------|---|---|---|---|---|-------|------|-------|------|------|------|------|------|------|------|------|-------|------|
| 20-33- 1  | 6.34  | 47.0     | 1.08  | 1.10  | 1.09  | 1.11  | 1.20  | 133.3 | 12.5 | 11.8  | 12.2 | 15.4 | 12.3 | 15.6 | 11.1 | 10.7 | 14.0 | 2.00 | 8.86  | 15.7 |
| 20-33- 2  | 3.06  | 25.0     | 1.09  | 1.12  | 1.11  | 1.13  | 1.25  | 64.0  | 10.3 | 9.8   | 10.0 | 12.9 | 10.1 | 13.0 | 9.1  | 8.4  | 11.3 | 1.95 | 8.87  | 13.2 |
| 20-33- 3  | 2.86  | 59.6     | 1.11  | 1.13  | 1.13  | 1.15  | 1.29  | 54.8  | 11.2 | 9.4   | 10.9 | 12.6 | 11.0 | 13.0 | 9.1  | 9.0  | 10.6 | 1.91 | 9.25  | 13.8 |
| 20-33- 4  | 5.93  | 116.8    | 1.09  | 1.12  | 1.11  | 1.13  | 1.24  | 116.7 | 12.8 | 10.7  | 12.5 | 14.2 | 12.6 | 14.8 | 10.4 | 10.8 | 12.4 | 1.96 | 9.13  | 15.7 |
| 20-33- 5  | 0.78  | 15.1     | 1.14  | 1.14  | 1.16  | 1.16  | 1.38  | 13.1  | 10.7 | 9.1   | 10.6 | 12.3 | 10.4 | 12.5 | 8.4  | 8.0  | 9.7  | 1.73 | 10.33 | 12.3 |
| 20-33- 6  | 0.38  | 2.9      | 1.13  | 1.13  | 1.15  | 1.15  | 1.34  | 6.6   | 11.9 | 11.1  | 11.8 | 14.8 | 11.6 | 14.5 | 9.6  | 9.3  | 12.2 | 1.65 | 10.58 | 13.4 |
| 20-33- 7  | 0.47  | 3.5      | 1.15  | 1.14  | 1.18  | 1.17  | 1.39  | 8.5   | 9.0  | 8.6   | 9.0  | 11.8 | 8.7  | 11.3 | 7.6  | 6.7  | 9.4  | 1.71 | 10.28 | 11.0 |
| 20-33- 8  | 0.57  | 4.4      | 1.15  | 1.14  | 1.17  | 1.17  | 1.38  | 10.3  | 8.7  | 8.4   | 8.7  | 11.4 | 8.5  | 11.0 | 7.4  | 6.5  | 9.1  | 1.74 | 10.08 | 10.8 |
| 20-33- 9  | 0.69  | 5.4      | 1.14  | 1.14  | 1.16  | 1.16  | 1.37  | 13.0  | 8.6  | 8.3   | 8.6  | 11.3 | 8.4  | 10.9 | 7.4  | 6.5  | 9.1  | 1.78 | 9.84  | 10.9 |
| 20-33- 10 | 0.85  | 6.8      | 1.14  | 1.14  | 1.16  | 1.16  | 1.34  | 16.4  | 8.7  | 8.4   | 8.7  | 11.4 | 8.5  | 11.1 | 7.6  | 6.6  | 9.3  | 1.81 | 9.54  | 11.2 |
| 20-33- 11 | 1.03  | 8.3      | 1.13  | 1.13  | 1.15  | 1.15  | 1.32  | 20.7  | 8.9  | 8.6   | 8.9  | 11.7 | 8.7  | 11.4 | 7.9  | 7.0  | 9.7  | 1.86 | 9.18  | 11.6 |
| 20-33- 12 | 1.26  | 10.0     | 1.12  | 1.13  | 1.13  | 1.14  | 1.30  | 26.3  | 9.2  | 8.9   | 9.1  | 11.9 | 9.0  | 11.7 | 8.2  | 7.3  | 10.1 | 1.89 | 8.87  | 12.0 |
| 20-33- 13 | 1.55  | 12.3     | 1.11  | 1.12  | 1.13  | 1.14  | 1.28  | 32.7  | 9.2  | 8.9   | 9.1  | 12.0 | 9.1  | 11.9 | 8.3  | 7.4  | 10.2 | 1.91 | 8.77  | 12.2 |
| 20-33- 14 | 1.89  | 15.1     | 1.11  | 1.12  | 1.12  | 1.13  | 1.27  | 40.2  | 9.5  | 9.2   | 9.4  | 12.3 | 9.3  | 12.2 | 8.6  | 7.7  | 10.6 | 1.93 | 8.71  | 12.5 |
| 20-33- 15 | 2.31  | 18.9     | 1.10  | 1.12  | 1.11  | 1.13  | 1.25  | 50.1  | 9.8  | 9.4   | 9.6  | 12.6 | 9.7  | 12.6 | 8.9  | 8.0  | 10.9 | 1.96 | 8.53  | 12.9 |
| 20-33- 16 | 2.84  | 23.3     | 1.11  | 1.11  | 1.13  | 1.13  | 1.25  | 58.1  | 10.1 | 9.6   | 10.1 | 13.0 | 9.9  | 12.7 | 8.9  | 8.4  | 11.2 | 1.94 | 9.03  | 13.2 |
| 20-33- 17 | 3.53  | 28.3     | 1.10  | 1.11  | 1.11  | 1.12  | 1.23  | 74.1  | 10.6 | 10.1  | 10.5 | 13.5 | 10.5 | 13.5 | 9.5  | 8.9  | 11.9 | 1.97 | 8.82  | 13.9 |
| 20-33- 18 | 4.49  | 33.3     | 1.10  | 1.10  | 1.11  | 1.12  | 1.22  | 93.4  | 11.3 | 10.8  | 11.2 | 14.3 | 11.1 | 14.2 | 10.1 | 9.7  | 12.7 | 1.98 | 8.92  | 14.6 |
| 20-33- 19 | 5.81  | 44.4     | 1.09  | 1.10  | 1.10  | 1.11  | 1.21  | 120.5 | 11.9 | 11.3  | 11.7 | 14.9 | 11.7 | 14.9 | 10.6 | 10.2 | 13.4 | 1.99 | 8.95  | 15.2 |
| 20-33- 20 | 7.47  | 53.4     | 1.08  | 1.09  | 1.09  | 1.10  | 1.19  | 158.0 | 13.2 | 12.5  | 13.0 | 16.4 | 13.0 | 16.5 | 11.7 | 11.6 | 14.9 | 2.01 | 8.80  | 16.6 |
| 20-33- 21 | 5.73  | 42.2     | 1.08  | 1.10  | 1.09  | 1.11  | 1.20  | 121.7 | 12.4 | 11.8  | 12.2 | 15.4 | 12.2 | 15.6 | 11.0 | 10.7 | 14.0 | 2.00 | 8.76  | 15.7 |
| 20-33- 22 | 7.28  | 51.1     | 1.08  | 1.09  | 1.09  | 1.10  | 1.19  | 155.6 | 13.3 | 12.7  | 13.1 | 16.5 | 13.2 | 16.7 | 11.9 | 11.7 | 15.1 | 2.01 | 8.72  | 16.7 |
| 20-33- 23 | 9.35  | 63.6     | 1.07  | 1.09  | 1.08  | 1.10  | 1.17  | 199.5 | 14.4 | 13.6  | 14.1 | 17.7 | 14.2 | 17.9 | 12.8 | 12.8 | 16.3 | 2.03 | 8.75  | 17.8 |
| 20-33- 24 | 12.43 | 83.4     | 1.07  | 1.09  | 1.08  | 1.10  | 1.17  | 262.4 | 15.0 | 14.1  | 14.7 | 18.4 | 14.8 | 18.6 | 13.2 | 13.4 | 17.0 | 2.03 | 8.86  | 18.5 |
| 20-33- 25 | 15.62 | 103.0    | 1.07  | 1.08  | 1.08  | 1.09  | 1.16  | 329.3 | 16.1 | 15.1  | 15.8 | 19.5 | 15.9 | 19.8 | 14.1 | 14.5 | 18.2 | 2.04 | 8.88  | 19.6 |
| 20-33- 26 | 0.30  | 3.7      | 1.12  | 1.11  | 1.15  | 1.14  | 1.35  | 3.7   | 17.0 | 14.0  | 17.0 | 18.7 | 16.4 | 18.6 | 11.6 | 13.1 | 14.7 | 1.32 | 14.40 | 16.4 |
| 20-33- 27 | 0.39  | 5.5      | 1.14  | 1.11  | 1.17  | 1.14  | 1.38  | 5.1   | 13.7 | 11.3  | 14.0 | 15.6 | 13.2 | 15.4 | 9.8  | 10.5 | 12.0 | 1.44 | 13.19 | 14.1 |
| 20-33- 28 | 0.47  | 7.7      | 1.15  | 1.11  | 1.17  | 1.14  | 1.38  | 6.8   | 12.4 | 10.3  | 12.8 | 14.3 | 12.0 | 14.1 | 9.2  | 9.5  | 11.0 | 1.56 | 11.96 | 13.4 |
| 20-33- 29 | 0.58  | 10.5     | 1.15  | 1.12  | 1.18  | 1.15  | 1.40  | 8.5   | 11.0 | 9.1   | 11.4 | 12.8 | 10.6 | 12.6 | 8.3  | 8.3  | 9.6  | 1.60 | 11.57 | 12.3 |
| 20-33- 30 | 0.73  | 13.8     | 1.14  | 1.13  | 1.16  | 1.15  | 1.37  | 11.5  | 11.3 | 9.3   | 11.4 | 12.8 | 10.9 | 12.9 | 8.6  | 8.6  | 9.9  | 1.68 | 10.82 | 12.8 |
| 20-33- 31 | 0.91  | 17.6     | 1.14  | 1.12  | 1.16  | 1.15  | 1.36  | 14.8  | 10.9 | 9.1   | 11.1 | 12.6 | 10.6 | 12.6 | 8.5  | 8.4  | 9.8  | 1.73 | 10.48 | 12.7 |
| 20-33- 32 | 1.12  | 22.9     | 1.14  | 1.12  | 1.16  | 1.15  | 1.35  | 19.1  | 10.4 | 8.7   | 10.6 | 12.1 | 10.1 | 12.1 | 8.2  | 8.1  | 9.5  | 1.78 | 10.10 | 12.5 |
| 20-33- 33 | 1.36  | 28.5     | 1.13  | 1.12  | 1.15  | 1.14  | 1.33  | 24.0  | 10.6 | 8.8   | 10.7 | 12.2 | 10.3 | 12.3 | 8.4  | 8.3  | 9.8  | 1.82 | 9.77  | 12.9 |
| 20-33- 34 | 1.67  | 34.9     | 1.13  | 1.12  | 1.15  | 1.14  | 1.32  | 30.5  | 10.4 | 8.7   | 10.5 | 12.1 | 10.1 | 12.2 | 8.4  | 8.2  | 9.8  | 1.85 | 9.53  | 12.9 |
| 20-33- 35 | 2.05  | 44.5     | 1.12  | 1.12  | 1.14  | 1.14  | 1.30  | 38.6  | 11.0 | 9.2   | 11.0 | 12.5 | 10.8 | 12.8 | 8.9  | 8.8  | 10.3 | 1.88 | 9.29  | 13.5 |
| 20-33- 36 | 2.24  | 49.2     | 1.12  | 1.12  | 1.13  | 1.14  | 1.29  | 42.9  | 10.9 | 9.1   | 10.9 | 12.4 | 10.7 | 12.8 | 8.9  | 8.8  | 10.3 | 1.89 | 9.16  | 13.5 |
| 20-33- 37 | 2.31  | 48.6     | 1.12  | 1.12  | 1.14  | 1.14  | 1.30  | 42.1  | 10.7 | 8.9   | 10.7 | 12.2 | 10.4 | 12.4 | 8.6  | 8.5  | 10.0 | 1.87 | 9.58  | 13.2 |
| 20-33- 38 | 2.87  | 60.5     | 1.12  | 1.11  | 1.13  | 1.13  | 1.28  | 53.2  | 11.2 | 9.3   | 11.2 | 12.7 | 10.9 | 13.0 | 9.0  | 9.1  | 10.6 | 1.89 | 9.45  | 13.8 |
| 20-33- 39 | 3.63  | 75.4     | 1.11  | 1.11  | 1.12  | 1.13  | 1.25  | 70.5  | 12.3 | 10.2  | 12.2 | 13.7 | 12.0 | 14.2 | 9.9  | 10.3 | 11.8 | 1.93 | 9.10  | 15.1 |
| 20-33- 40 | 4.66  | 94.8     | 1.10  | 1.11  | 1.12  | 1.13  | 1.24  | 90.8  | 12.5 | 10.3  | 12.3 | 13.9 | 12.3 | 14.4 | 10.1 | 10.5 | 12.0 | 1.95 | 9.12  | 15.4 |
| 20-33- 41 | 4.65  | 96.1     | 1.10  | 1.11  | 1.12  | 1.13  | 1.25  | 90.2  | 12.5 | 10.3  | 12.2 | 13.8 | 12.2 | 14.3 | 10.1 | 10.4 | 11.9 | 1.94 | 9.16  | 15.3 |
| 20-33- 42 | 5.87  | 119.0    | 1.09  | 1.11  | 1.11  | 1.13  | 1.23  | 117.2 | 13.5 | 11.1  | 13.2 | 14.8 | 13.3 | 15.4 | 10.9 | 11.5 | 13.0 | 1.97 | 8.98  | 16.4 |
| 20-33- 43 | 7.63  | 144.9    | 1.09  | 1.10  | 1.10  | 1.12  | 1.21  | 152.1 | 14.3 | 11.7  | 14.1 | 15.7 | 14.1 | 16.3 | 11.5 | 12.4 | 14.0 | 1.98 | 9.03  | 17.3 |
| 20-33- 44 | 10.21 | 182.2    | 1.08  | 1.10  | 1.10  | 1.11  | 1.20  | 201.9 | 15.2 | 12.4  | 14.9 | 16.6 | 15.0 | 17.3 | 12.2 | 13.3 | 14.9 | 1.99 | 9.16  | 18.3 |
| 20-33- 45 | 14.08 | 238.0    | 1.08  | 1.10  | 1.09  | 1.11  | 1.18  | 277.2 | 16.4 | 13.3  | 16.1 | 17.7 | 16.2 | 18.5 | 13.1 | 14.5 | 16.1 | 2.01 | 9.23  | 19.6 |
| 20-33- 46 | 3.68  | 77.3     | 1.10  | 1.12  | 1.12  | 1.13  | 1.26  | 71.9  | 12.2 | 10.1  | 12.0 | 13.6 | 11.9 | 14.1 | 9.8  | 10.1 | 11.6 | 1.93 | 9.09  | 14.9 |
| 20-33- 47 | 3.58  | 75.4     | 1.10  | 1.12  | 1.12  | 1.13  | 1.26  | 70.1  | 12.1 | 10.1  | 11.9 | 13.6 | 11.9 | 14.0 | 9.8  | 10.1 | 11.6 | 1.93 | 9.07  | 14.9 |
| 20-33- 48 | 1.85  | 39.2     | 1.13  | 1.12  | 1.15  | 1.14  | 1.32  | 33.1  | 10.5 | 8.8   | 10.6 | 12.1 | 10.2 | 12.2 | 8.4  | 8.3  | 9.8  | 1.85 | 9.69  | 12.9 |
| 20-33- 49 | 1.48  | 30.2     | 1.14  | 1.12  | 1.16  | 1.14  | 1.33  | 25.7  | 10.3 | 8.7   | 10.5 | 12.1 | 10.0 | 12.1 | 8.3  | 8.1  | 9.6  | 1.81 | 9.94  | 12.7 |
| 20-33- 50 | 1.16  | 23.6     | 1.14  | 1.12  | 1.17  | 1.14  | 1.35  | 19.4  | 10.2 | 8.6   | 10.5 | 12.0 | 9.9  | 11.9 | 8.1  | 7.9  | 9.4  | 1.77 | 10.28 | 12.3 |

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| VERS.NR.  | RE*E4 | RE1*E4 | F      | F1     | STH    | STPR   | F1/F2 | TW/TH | TW/T1 | PR   | H/Y   | RETA | H+    | H+W   | H+R   | H+RW  | RH+   | RH+01 | RH+R  |
|-----------|-------|--------|--------|--------|--------|--------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| 20-33-51  | 0.96  | 1.11   | .01188 | .01778 | .00565 | .00555 | 2.07  | 1.71  | 1.57  | .696 | .0718 | .799 | 15.3  | 7.2   | 16.4  | 7.6   | 6.29  | 5.50  | 5.62  |
| 20-33-52  | 0.77  | 0.83   | .01156 | .01608 | .00546 | .00537 | 1.79  | 1.71  | 1.56  | .696 | .0760 | .785 | 11.7  | 5.5   | 12.5  | 5.9   | 6.99  | 6.18  | 6.29  |
| 20-33-53  | 0.63  | 0.64   | .01152 | .01500 | .00528 | .00518 | 1.60  | 1.71  | 1.55  | .696 | .0797 | .774 | 9.2   | 4.4   | 9.8   | 4.7   | 7.51  | 6.68  | 6.81  |
| 20-33-54  | 0.52  | 0.50   | .01151 | .01401 | .00494 | .00484 | 1.42  | 1.70  | 1.53  | .696 | .0834 | .764 | 7.4   | 3.6   | 7.8   | 3.8   | 8.04  | 7.19  | 7.32  |
| 20-33-55  | 0.52  | 0.49   | .01129 | .01344 | .00485 | .00476 | 1.37  | 1.70  | 1.53  | .696 | .0848 | .760 | 7.2   | 3.5   | 7.7   | 3.7   | 8.33  | 7.47  | 7.60  |
| 20-33-56  | 0.72  | 0.78   | .01176 | .01630 | .00539 | .00531 | 1.78  | 1.71  | 1.56  | .696 | .0761 | .784 | 11.0  | 5.2   | 11.7  | 5.5   | 6.92  | 6.11  | 6.23  |
| 20-33-57  | 2.26  | 3.32   | .01313 | .02475 | .00624 | .00612 | 3.43  | 1.71  | 1.63  | .695 | .0608 | .844 | 44.2  | 19.3  | 47.5  | 20.7  | 4.22  | 3.50  | 3.61  |
| 20-33-58  | 0.55  | 0.68   | .01292 | .01841 | .00657 | .00572 | 1.83  | 1.28  | 1.24  | .703 | .0728 | .794 | 9.7   | 6.7   | 10.0  | 6.9   | 6.15  | 5.35  | 5.82  |
| 20-33-59  | 0.69  | 0.91   | .01319 | .02010 | .00684 | .00595 | 2.10  | 1.27  | 1.24  | .703 | .0692 | .806 | 12.8  | 8.8   | 13.2  | 9.1   | 5.56  | 4.79  | 5.25  |
| 20-33-60  | 0.87  | 1.20   | .01324 | .02112 | .00692 | .00603 | 2.32  | 1.28  | 1.25  | .702 | .0668 | .816 | 16.5  | 11.3  | 17.1  | 11.6  | 5.22  | 4.46  | 4.92  |
| 20-33-61  | 1.10  | 1.59   | .01352 | .02275 | .00705 | .00615 | 2.63  | 1.28  | 1.25  | .702 | .0642 | .827 | 21.7  | 14.7  | 22.4  | 15.2  | 4.76  | 4.02  | 4.46  |
| 20-33-62  | 1.40  | 2.10   | .01369 | .02401 | .00709 | .00617 | 2.92  | 1.27  | 1.25  | .702 | .0621 | .836 | 28.3  | 19.3  | 29.2  | 19.9  | 4.42  | 3.69  | 4.13  |
| 20-33-63  | 1.78  | 2.75   | .01373 | .02491 | .00694 | .00605 | 3.19  | 1.28  | 1.25  | .702 | .0605 | .844 | 36.7  | 24.8  | 37.9  | 25.6  | 4.18  | 3.46  | 3.90  |
| 20-33-64  | 2.34  | 3.70   | .01349 | .02504 | .00678 | .00593 | 3.40  | 1.29  | 1.26  | .703 | .0593 | .849 | 48.2  | 32.1  | 49.9  | 33.2  | 4.11  | 3.39  | 3.81  |
| 20-33-65  | 2.99  | 4.93   | .01378 | .02669 | .00683 | .00598 | 3.81  | 1.29  | 1.27  | .703 | .0576 | .858 | 63.9  | 41.9  | 66.2  | 43.4  | 3.75  | 3.04  | 3.45  |
| 20-33-66  | 3.74  | 6.27   | .01355 | .02662 | .00658 | .00577 | 3.98  | 1.30  | 1.28  | .703 | .0569 | .862 | 80.0  | 52.1  | 82.9  | 54.0  | 3.72  | 3.03  | 3.42  |
| 20-33-67  | 4.95  | 8.47   | .01327 | .02655 | .00625 | .00549 | 4.21  | 1.31  | 1.29  | .704 | .0561 | .867 | 105.9 | 68.0  | 109.9 | 70.6  | 3.69  | 3.01  | 3.38  |
| 20-33-68  | 6.67  | 12.22  | .01360 | .02764 | .0     | .0     | 4.56  | 1.00  | 1.00  | .710 | .0542 | .877 | 149.6 | 149.6 | 149.6 | 149.6 | 3.43  | 2.76  | 3.43  |
| 20-33-69  | 5.10  | 9.19   | .01387 | .02777 | .0     | .0     | 4.33  | 1.00  | 1.00  | .709 | .0549 | .873 | 114.5 | 114.5 | 114.5 | 114.5 | 3.45  | 2.76  | 3.45  |
| 20-33-70  | 4.11  | 7.33   | .01418 | .02809 | .0     | .0     | 4.19  | 1.00  | 1.00  | .709 | .0554 | .870 | 92.8  | 92.8  | 92.8  | 92.8  | 3.42  | 2.74  | 3.42  |
| 20-33-71  | 3.25  | 5.75   | .01469 | .02886 | .0     | .0     | 4.08  | 1.00  | 1.00  | .709 | .0557 | .868 | 74.4  | 74.4  | 74.4  | 74.4  | 3.32  | 2.64  | 3.32  |
| 20-33-72  | 2.61  | 4.51   | .01445 | .02760 | .0     | .0     | 3.74  | 1.00  | 1.00  | .709 | .0569 | .861 | 58.6  | 58.6  | 58.6  | 58.6  | 3.57  | 2.87  | 3.57  |
| 20-33-73  | 2.14  | 3.64   | .01467 | .02760 | .0     | .0     | 3.57  | 1.00  | 1.00  | .709 | .0576 | .857 | 47.9  | 47.9  | 47.9  | 47.9  | 3.60  | 2.90  | 3.60  |
| 20-33-74  | 20.81 | 40.23  | .01260 | .02702 | .0     | .0     | 5.55  | 1.00  | 1.00  | .711 | .0519 | .892 | 461.2 | 461.2 | 461.2 | 461.2 | 3.42  | 2.76  | 3.42  |
| 20-33-75  | 14.87 | 28.33  | .01288 | .02722 | .0     | .0     | 5.25  | 1.00  | 1.00  | .711 | .0525 | .888 | 330.8 | 330.8 | 330.8 | 330.8 | 3.42  | 2.76  | 3.42  |
| 20-33-76  | 2.06  | 3.56   | .01549 | .02972 | .0     | .0     | 3.79  | 1.00  | 1.00  | .710 | .0569 | .862 | 47.9  | 47.9  | 47.9  | 47.9  | 3.26  | 2.56  | 3.26  |
| 20-33-77  | 1.68  | 2.86   | .01568 | .02951 | .0     | .0     | 3.59  | 1.00  | 1.00  | .709 | .0576 | .857 | 39.0  | 39.0  | 39.0  | 39.0  | 3.32  | 2.62  | 3.32  |
| 20-33-78  | 1.37  | 2.30   | .01585 | .02932 | .0     | .0     | 3.41  | 1.00  | 1.00  | .709 | .0585 | .853 | 31.7  | 31.7  | 31.7  | 31.7  | 3.39  | 2.68  | 3.39  |
| 20-33-79  | 1.13  | 1.85   | .01593 | .02881 | .0     | .0     | 3.20  | 1.00  | 1.00  | .709 | .0594 | .848 | 25.9  | 25.9  | 25.9  | 25.9  | 3.51  | 2.79  | 3.51  |
| 20-33-80  | 0.92  | 1.47   | .01580 | .02762 | .0     | .0     | 2.93  | 1.00  | 1.00  | .709 | .0609 | .841 | 20.7  | 20.7  | 20.7  | 20.7  | 3.75  | 3.03  | 3.75  |
| 20-33-81  | 0.74  | 1.14   | .01550 | .02588 | .0     | .0     | 2.62  | 1.00  | 1.00  | .709 | .0629 | .831 | 16.2  | 16.2  | 16.2  | 16.2  | 4.12  | 3.38  | 4.12  |
| 20-33-82  | 0.59  | 0.87   | .01518 | .02403 | .0     | .0     | 2.32  | 1.00  | 1.00  | .708 | .0654 | .821 | 12.5  | 12.5  | 12.5  | 12.5  | 4.55  | 3.80  | 4.55  |
| 20-33-83  | 0.50  | 0.71   | .01505 | .02286 | .0     | .0     | 2.12  | 1.00  | 1.00  | .708 | .0673 | .813 | 10.3  | 10.3  | 10.3  | 10.3  | 4.86  | 4.10  | 4.86  |
| 20-33-84  | 0.41  | 0.56   | .01497 | .02165 | .0     | .0     | 1.91  | 1.00  | 1.00  | .708 | .0697 | .804 | 8.2   | 8.2   | 8.2   | 8.2   | 5.22  | 4.44  | 5.22  |
| 20-33-85  | 0.38  | 0.50   | .01444 | .01986 | .0     | .0     | 1.73  | 1.00  | 1.00  | .709 | .0723 | .795 | 7.3   | 7.3   | 7.3   | 7.3   | 5.75  | 4.96  | 5.75  |
| 20-33-86  | 0.30  | 0.25   | .00979 | .00722 | .0     | .0     | 0.64  | 1.00  | 1.00  | .709 | .1147 | .704 | 3.7   | 3.7   | 3.7   | 3.7   | 13.66 | 12.68 | 13.66 |
| 20-33-87  | 0.24  | 0.20   | .01071 | .00823 | .0     | .0     | 0.68  | 1.00  | 1.00  | .709 | .1103 | .710 | 3.1   | 3.1   | 3.1   | 3.1   | 12.43 | 11.47 | 12.43 |
| 20-33-88  | 0.19  | 0.20   | .01297 | .01238 | .0     | .0     | 0.93  | 1.00  | 1.00  | .709 | .0936 | .738 | 3.1   | 3.1   | 3.1   | 3.1   | 9.11  | 8.22  | 9.11  |
| 20-33-89  | 0.16  | 0.18   | .01552 | .01722 | .0     | .0     | 1.18  | 1.00  | 1.00  | .709 | .0841 | .760 | 2.9   | 2.9   | 2.9   | 2.9   | 6.90  | 6.05  | 6.90  |
| 20-33-90  | 0.13  | 0.15   | .01854 | .02298 | .0     | .0     | 1.43  | 1.00  | 1.00  | .709 | .0776 | .778 | 2.6   | 2.6   | 2.6   | 2.6   | 5.22  | 4.40  | 5.22  |
| 20-33-91  | 0.10  | 0.15   | .02479 | .03719 | .0     | .0     | 2.06  | 1.00  | 1.00  | .709 | .0682 | .809 | 2.7   | 2.7   | 2.7   | 2.7   | 2.89  | 2.12  | 2.89  |
| 20-33-92  | 0.08  | 0.12   | .02883 | .04507 | .0     | .0     | 2.25  | 1.00  | 1.00  | .708 | .0665 | .816 | 2.3   | 2.3   | 2.3   | 2.3   | 2.15  | 1.39  | 2.15  |
| 20-33-93  | 0.07  | 0.11   | .03755 | .06618 | .0     | .0     | 2.97  | 1.00  | 1.00  | .708 | .0616 | .838 | 2.3   | 2.3   | 2.3   | 2.3   | 0.77  | 0.04  | 0.77  |
| 20-33-94  | 14.92 | 28.57  | .01312 | .02792 | .0     | .0     | 5.38  | 1.00  | 1.00  | .711 | .0523 | .889 | 336.1 | 336.1 | 336.1 | 336.1 | 3.29  | 2.63  | 3.29  |
| 20-33-95  | 12.02 | 22.77  | .01327 | .02792 | .0     | .0     | 5.16  | 1.00  | 1.00  | .711 | .0527 | .886 | 270.7 | 270.7 | 270.7 | 270.7 | 3.31  | 2.65  | 3.31  |
| 20-33-96  | 8.86  | 16.52  | .01347 | .02788 | .0     | .0     | 4.86  | 1.00  | 1.00  | .710 | .0534 | .882 | 199.5 | 199.5 | 199.5 | 199.5 | 3.36  | 2.69  | 3.36  |
| 20-33-97  | 7.09  | 13.09  | .01377 | .02826 | .0     | .0     | 4.71  | 1.00  | 1.00  | .710 | .0538 | .879 | 160.7 | 160.7 | 160.7 | 160.7 | 3.32  | 2.65  | 3.32  |
| 20-33-98  | 3.21  | 5.66   | .01454 | .02844 | .0     | .0     | 4.02  | 1.00  | 1.00  | .709 | .0560 | .867 | 73.0  | 73.0  | 73.0  | 73.0  | 3.40  | 2.71  | 3.40  |
| 20-33-99  | 2.58  | 4.46   | .01450 | .02769 | .0     | .0     | 3.74  | 1.00  | 1.00  | .709 | .0569 | .861 | 58.0  | 58.0  | 58.0  | 58.0  | 3.56  | 2.86  | 3.56  |
| 20-33-100 | 2.05  | 3.49   | .01489 | .02805 | .0     | .0     | 3.59  | 1.00  | 1.00  | .709 | .0576 | .858 | 46.4  | 46.4  | 46.4  | 46.4  | 3.53  | 2.83  | 3.53  |



| VERS.NR.  | RE*E4 | Q<KW/M2> | ST1+/<br>ST1*/ | STT+/<br>STT*/ | ST1F/<br>ST1F*/ | H+   | G+   | GPR01 | G*   | G*R  | GT   | GTR  | GTR1 | GTF  | GTFR | X    | YR   | YG   |       |      |
|-----------|-------|----------|----------------|----------------|-----------------|------|------|-------|------|------|------|------|------|------|------|------|------|------|-------|------|
| 20-33-51  | 0.96  | 18.8     | 1.15           | 1.12           | 1.18            | 1.14 | 1.37 | 15.3  | 10.2 | 8.5  | 10.6 | 12.1 | 9.9  | 11.9 | 8.0  | 7.9  | 9.3  | 1.73 | 10.60 | 12.2 |
| 20-33-52  | 0.77  | 14.9     | 1.16           | 1.12           | 1.19            | 1.15 | 1.40 | 11.7  | 10.1 | 8.4  | 10.5 | 11.9 | 9.7  | 11.6 | 7.8  | 7.6  | 8.9  | 1.67 | 11.15 | 11.7 |
| 20-33-53  | 0.63  | 11.8     | 1.17           | 1.12           | 1.20            | 1.15 | 1.42 | 9.2   | 10.1 | 8.4  | 10.7 | 12.1 | 9.7  | 11.7 | 7.7  | 7.5  | 8.9  | 1.61 | 11.55 | 11.6 |
| 20-33-54  | 0.52  | 9.0      | 1.17           | 1.11           | 1.20            | 1.14 | 1.41 | 7.4   | 10.7 | 9.0  | 11.4 | 12.8 | 10.3 | 12.4 | 8.1  | 8.1  | 9.5  | 1.57 | 11.95 | 12.0 |
| 20-33-55  | 0.52  | 9.0      | 1.17           | 1.11           | 1.20            | 1.14 | 1.42 | 7.2   | 10.7 | 9.0  | 11.4 | 12.9 | 10.3 | 12.4 | 8.1  | 8.1  | 9.4  | 1.55 | 12.20 | 11.9 |
| 20-33-56  | 0.72  | 13.9     | 1.16           | 1.12           | 1.18            | 1.14 | 1.39 | 11.0  | 10.4 | 8.7  | 10.9 | 12.3 | 10.0 | 12.0 | 8.0  | 7.9  | 9.2  | 1.66 | 11.08 | 12.0 |
| 20-33-57  | 2.26  | 49.4     | 1.11           | 1.12           | 1.13            | 1.14 | 1.28 | 44.2  | 11.3 | 9.4  | 11.2 | 12.8 | 11.0 | 13.1 | 9.2  | 9.2  | 10.7 | 1.91 | 8.99  | 13.9 |
| 20-33-58  | 0.55  | 4.1      | 1.14           | 1.15           | 1.16            | 1.18 | 1.41 | 9.7   | 8.6  | 8.3  | 8.4  | 11.0 | 8.3  | 10.8 | 7.3  | 6.1  | 8.7  | 1.71 | 10.42 | 10.4 |
| 20-33-59  | 0.69  | 5.3      | 1.13           | 1.15           | 1.16            | 1.17 | 1.38 | 12.8  | 8.6  | 8.2  | 8.4  | 11.0 | 8.3  | 10.8 | 7.3  | 6.2  | 8.8  | 1.77 | 9.97  | 10.6 |
| 20-33-60  | 0.87  | 6.9      | 1.13           | 1.14           | 1.16            | 1.16 | 1.35 | 16.5  | 8.6  | 8.3  | 8.5  | 11.2 | 8.4  | 10.9 | 7.5  | 6.5  | 9.1  | 1.80 | 9.73  | 11.0 |
| 20-33-61  | 1.10  | 9.1      | 1.13           | 1.13           | 1.15            | 1.15 | 1.33 | 21.7  | 8.8  | 8.5  | 8.8  | 11.5 | 8.6  | 11.2 | 7.7  | 6.8  | 9.5  | 1.85 | 9.38  | 11.4 |
| 20-33-62  | 1.40  | 11.2     | 1.12           | 1.13           | 1.14            | 1.14 | 1.30 | 28.3  | 9.1  | 8.7  | 9.0  | 11.8 | 8.9  | 11.6 | 8.0  | 7.2  | 9.9  | 1.88 | 9.13  | 11.9 |
| 20-33-63  | 1.73  | 14.2     | 1.12           | 1.12           | 1.13            | 1.13 | 1.27 | 36.7  | 9.6  | 9.3  | 9.6  | 12.5 | 9.4  | 12.3 | 8.6  | 7.8  | 10.7 | 1.91 | 8.96  | 12.6 |
| 20-33-64  | 2.34  | 18.3     | 1.11           | 1.11           | 1.13            | 1.13 | 1.26 | 48.2  | 10.0 | 9.6  | 10.0 | 12.9 | 9.8  | 12.7 | 8.9  | 8.3  | 11.2 | 1.93 | 8.94  | 13.1 |
| 20-33-65  | 2.99  | 24.3     | 1.10           | 1.11           | 1.11            | 1.12 | 1.24 | 63.9  | 10.5 | 10.0 | 10.3 | 13.3 | 10.3 | 13.3 | 9.4  | 8.7  | 11.7 | 1.96 | 8.66  | 13.6 |
| 20-33-66  | 3.74  | 29.4     | 1.09           | 1.11           | 1.11            | 1.12 | 1.22 | 80.0  | 11.1 | 10.6 | 10.9 | 14.0 | 10.9 | 14.0 | 9.9  | 9.4  | 12.4 | 1.98 | 8.67  | 14.3 |
| 20-33-67  | 4.95  | 37.8     | 1.09           | 1.10           | 1.10            | 1.11 | 1.21 | 105.9 | 12.0 | 11.4 | 11.8 | 15.0 | 11.8 | 15.1 | 10.7 | 10.3 | 13.5 | 1.99 | 8.68  | 15.3 |
| 20-33-68  | 6.67  | 0.0      | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 149.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.03 | 8.51  | 0.0  |
| 20-33-69  | 5.10  | 0.0      | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 114.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.02 | 8.49  | 0.0  |
| 20-33-70  | 4.11  | 0.0      | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 92.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.01 | 8.44  | 0.0  |
| 20-33-71  | 3.25  | 0.0      | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 74.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.00 | 8.32  | 0.0  |
| 20-33-72  | 2.61  | 0.0      | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 58.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.98 | 8.51  | 0.0  |
| 20-33-73  | 2.14  | 0.0      | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 47.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.96 | 8.51  | 0.0  |
| 20-33-74  | 20.81 | 0.0      | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 461.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.08 | 8.60  | 0.0  |
| 20-33-75  | 14.87 | 0.0      | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 330.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.07 | 8.57  | 0.0  |
| 20-33-76  | 2.06  | 0.0      | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 47.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.98 | 8.20  | 0.0  |
| 20-33-77  | 1.68  | 0.0      | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 39.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.96 | 8.23  | 0.0  |
| 20-33-78  | 1.37  | 0.0      | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 31.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.95 | 8.26  | 0.0  |
| 20-33-79  | 1.13  | 0.0      | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 25.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.93 | 8.33  | 0.0  |
| 20-33-80  | 0.92  | 0.0      | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 20.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.90 | 8.51  | 0.0  |
| 20-33-81  | 0.74  | 0.0      | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 16.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.87 | 8.79  | 0.0  |
| 20-33-82  | 0.59  | 0.0      | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 12.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.83 | 9.12  | 0.0  |
| 20-33-83  | 0.50  | 0.0      | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 10.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.80 | 9.35  | 0.0  |
| 20-33-84  | 0.41  | 0.0      | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 8.2   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.76 | 9.61  | 0.0  |
| 20-33-85  | 0.38  | 0.0      | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 7.3   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.72 | 10.03 | 0.0  |
| 20-33-86  | 0.30  | 0.0      | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 3.7   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.23 | 16.65 | 0.0  |
| 20-33-87  | 0.24  | 0.0      | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 3.1   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.27 | 15.59 | 0.0  |
| 20-33-88  | 0.19  | 0.0      | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 3.1   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.44 | 12.71 | 0.0  |
| 20-33-89  | 0.16  | 0.0      | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 2.9   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.56 | 10.78 | 0.0  |
| 20-33-90  | 0.13  | 0.0      | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 2.6   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.64 | 9.33  | 0.0  |
| 20-33-91  | 0.10  | 0.0      | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 2.7   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.78 | 7.33  | 0.0  |
| 20-33-92  | 0.08  | 0.0      | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 2.3   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.81 | 6.66  | 0.0  |
| 20-33-93  | 0.07  | 0.0      | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 2.3   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.89 | 5.50  | 0.0  |
| 20-33-94  | 14.92 | 0.0      | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 336.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.07 | 8.46  | 0.0  |
| 20-33-95  | 12.02 | 0.0      | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 270.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.06 | 8.46  | 0.0  |
| 20-33-96  | 8.86  | 0.0      | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 199.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.05 | 8.47  | 0.0  |
| 20-33-97  | 7.09  | 0.0      | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 160.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.04 | 8.41  | 0.0  |
| 20-33-98  | 3.21  | 0.0      | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 73.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.00 | 8.39  | 0.0  |
| 20-33-99  | 2.58  | 0.0      | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 58.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.98 | 8.50  | 0.0  |
| 20-33-100 | 2.05  | 0.0      | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 46.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.97 | 8.44  | 0.0  |

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| VERS.NR.  | RE*E4 | RE1*E4 | F      | F1     | STB | STPR | F1/F2 | TW/TB | TW/T1 | PR   | H/Y   | BETA | H+    | H+W   | H+R   | H+RW  | RH+  | RH+01 | RH+R |
|-----------|-------|--------|--------|--------|-----|------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|------|-------|------|
| 20-33-101 | 1.64  | 2.75   | .01535 | .02857 | .0  | .0   | 3.47  | 1.00  | 1.00  | .709 | .0581 | .855 | 37.4  | 37.4  | 37.4  | 37.4  | 3.48 | 2.78  | 3.48 |
| 20-33-102 | 0.59  | 0.86   | .01490 | .02326 | .0  | .0   | 2.25  | 1.00  | 1.00  | .709 | .0660 | .818 | 12.3  | 12.3  | 12.3  | 12.3  | 4.73 | 3.97  | 4.73 |
| 20-33-103 | 0.72  | 1.10   | .01536 | .02540 | .0  | .0   | 2.56  | 1.00  | 1.00  | .708 | .0634 | .829 | 15.6  | 15.6  | 15.6  | 15.6  | 4.22 | 3.48  | 4.22 |
| 20-33-104 | 0.88  | 1.39   | .01558 | .02686 | .0  | .0   | 2.83  | 1.00  | 1.00  | .708 | .0615 | .838 | 19.6  | 19.6  | 19.6  | 19.6  | 3.90 | 3.17  | 3.90 |
| 20-33-105 | 1.09  | 1.77   | .01544 | .02735 | .0  | .0   | 3.03  | 1.00  | 1.00  | .708 | .0603 | .844 | 24.5  | 24.5  | 24.5  | 24.5  | 3.76 | 3.05  | 3.76 |
| 20-33-106 | 1.36  | 2.24   | .01531 | .02781 | .0  | .0   | 3.24  | 1.00  | 1.00  | .708 | .0592 | .849 | 30.6  | 30.6  | 30.6  | 30.6  | 3.64 | 2.93  | 3.64 |
| 20-33-107 | 1.67  | 2.80   | .01510 | .02795 | .0  | .0   | 3.42  | 1.00  | 1.00  | .708 | .0583 | .854 | 37.7  | 37.7  | 37.7  | 37.7  | 3.58 | 2.88  | 3.58 |
| 20-33-108 | 2.09  | 3.55   | .01462 | .02738 | .0  | .0   | 3.53  | 1.00  | 1.00  | .709 | .0578 | .857 | 46.8  | 46.8  | 46.8  | 46.8  | 3.65 | 2.94  | 3.65 |
| 20-33-109 | 2.61  | 4.50   | .01442 | .02750 | .0  | .0   | 3.73  | 1.00  | 1.00  | .709 | .0570 | .861 | 58.5  | 58.5  | 58.5  | 58.5  | 3.59 | 2.89  | 3.59 |
| 20-33-110 | 3.24  | 5.72   | .01468 | .02884 | .0  | .0   | 4.07  | 1.00  | 1.00  | .709 | .0558 | .868 | 74.1  | 74.1  | 74.1  | 74.1  | 3.33 | 2.64  | 3.33 |
| 20-33-111 | 4.03  | 7.19   | .01428 | .02831 | .0  | .0   | 4.20  | 1.00  | 1.00  | .710 | .0553 | .870 | 91.4  | 91.4  | 91.4  | 91.4  | 3.39 | 2.70  | 3.39 |
| 20-33-112 | 5.26  | 9.50   | .01389 | .02790 | .0  | .0   | 4.38  | 1.00  | 1.00  | .710 | .0548 | .874 | 118.3 | 118.3 | 118.3 | 118.3 | 3.42 | 2.74  | 3.42 |

| VERS.NR.  | RE*E4 | Q<K*/M2> | ST1+/<br>ST1*/ | STT+/<br>STT*/ | ST1F/<br>ST1F*/ | H+    | G+  | GPR01 | G*  | G*R | GT  | GTR | GTR1 | GTF | GTFR | X    | YR   | YG  |
|-----------|-------|----------|----------------|----------------|-----------------|-------|-----|-------|-----|-----|-----|-----|------|-----|------|------|------|-----|
| 20-33-101 | 1.64  | 0.0      | 0.0            | 0.0            | 0.0             | 37.4  | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 1.95 | 8.37 | 0.0 |
| 20-33-102 | 0.59  | 0.0      | 0.0            | 0.0            | 0.0             | 12.3  | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 1.82 | 9.27 | 0.0 |
| 20-33-103 | 0.72  | 0.0      | 0.0            | 0.0            | 0.0             | 15.6  | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 1.86 | 8.87 | 0.0 |
| 20-33-104 | 0.88  | 0.0      | 0.0            | 0.0            | 0.0             | 19.6  | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 1.89 | 8.63 | 0.0 |
| 20-33-105 | 1.09  | 0.0      | 0.0            | 0.0            | 0.0             | 24.5  | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 1.92 | 8.55 | 0.0 |
| 20-33-106 | 1.36  | 0.0      | 0.0            | 0.0            | 0.0             | 30.6  | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 1.94 | 8.48 | 0.0 |
| 20-33-107 | 1.67  | 0.0      | 0.0            | 0.0            | 0.0             | 37.7  | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 1.95 | 8.46 | 0.0 |
| 20-33-108 | 2.09  | 0.0      | 0.0            | 0.0            | 0.0             | 46.8  | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 1.96 | 8.55 | 0.0 |
| 20-33-109 | 2.61  | 0.0      | 0.0            | 0.0            | 0.0             | 58.5  | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 1.98 | 8.53 | 0.0 |
| 20-33-110 | 3.24  | 0.0      | 0.0            | 0.0            | 0.0             | 74.1  | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.00 | 8.33 | 0.0 |
| 20-33-111 | 4.03  | 0.0      | 0.0            | 0.0            | 0.0             | 91.4  | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.01 | 8.41 | 0.0 |
| 20-33-112 | 5.26  | 0.0      | 0.0            | 0.0            | 0.0             | 118.3 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.02 | 8.47 | 0.0 |

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| VERS.NR. | RE*E4 | HE1*E4 | F      | F1     | STR    | STPR   | F1/F2 | TW/TH | TW/T1 | PR   | H/Y   | BETA | H+    | H+W   | H+R   | H+RW  | RH+  | RH+01 | RH+R |
|----------|-------|--------|--------|--------|--------|--------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|------|-------|------|
| 18-40- 1 | 32.73 | 63.27  | .00931 | .02045 | .00409 | .00357 | 4.78  | 1.30  | 1.28  | .704 | .0381 | .845 | 426.4 | 279.6 | 441.8 | 289.6 | 3.85 | 3.31  | 3.50 |
| 18-40- 2 | 22.03 | 41.79  | .00961 | .02082 | .00444 | .00388 | 4.53  | 1.30  | 1.28  | .704 | .0386 | .840 | 289.6 | 188.7 | 300.2 | 195.6 | 3.80 | 3.26  | 3.45 |
| 18-40- 3 | 15.31 | 28.12  | .00973 | .02052 | .00470 | .00412 | 4.18  | 1.31  | 1.28  | .703 | .0395 | .831 | 199.0 | 129.0 | 206.4 | 133.8 | 3.93 | 3.38  | 3.58 |
| 18-40- 4 | 11.13 | 19.89  | .00992 | .02045 | .00508 | .00446 | 3.93  | 1.31  | 1.29  | .703 | .0402 | .825 | 143.9 | 92.7  | 149.2 | 96.2  | 4.00 | 3.44  | 3.64 |
| 18-40- 5 | 8.60  | 15.08  | .01014 | .02058 | .00530 | .00465 | 3.76  | 1.31  | 1.28  | .703 | .0407 | .820 | 111.3 | 72.4  | 115.3 | 75.0  | 4.00 | 3.44  | 3.66 |
| 18-40- 6 | 6.71  | 11.51  | .01035 | .02062 | .00547 | .00481 | 3.59  | 1.32  | 1.29  | .703 | .0413 | .815 | 86.6  | 55.9  | 89.9  | 58.0  | 4.03 | 3.46  | 3.68 |
| 18-40- 7 | 5.42  | 9.10   | .01050 | .02050 | .00568 | .00498 | 3.42  | 1.31  | 1.28  | .703 | .0420 | .809 | 69.6  | 45.3  | 72.2  | 47.0  | 4.10 | 3.53  | 3.75 |
| 18-40- 8 | 12.79 | 23.14  | .00980 | .02035 | .00490 | .00428 | 4.02  | 1.29  | 1.27  | .703 | .0399 | .827 | 165.5 | 109.1 | 171.3 | 113.0 | 4.00 | 3.45  | 3.66 |
| 18-40- 9 | 15.55 | 28.54  | .00967 | .02033 | .00468 | .00410 | 4.16  | 1.30  | 1.28  | .704 | .0395 | .831 | 201.3 | 131.4 | 208.6 | 136.2 | 3.98 | 3.43  | 3.63 |
| 18-40-10 | 19.19 | 35.71  | .00950 | .02021 | .00455 | .00397 | 4.30  | 1.29  | 1.27  | .703 | .0392 | .834 | 248.1 | 163.2 | 257.0 | 169.0 | 3.98 | 3.44  | 3.64 |
| 18-40-11 | 25.36 | 48.46  | .00951 | .02070 | .00421 | .00368 | 4.62  | 1.29  | 1.28  | .704 | .0384 | .842 | 332.5 | 218.0 | 344.4 | 225.8 | 3.81 | 3.28  | 3.47 |
| 18-40-12 | 32.06 | 62.40  | .00944 | .02087 | .00407 | .00355 | 4.85  | 1.29  | 1.27  | .704 | .0379 | .847 | 422.9 | 278.8 | 437.9 | 288.7 | 3.74 | 3.21  | 3.41 |
| 18-40-13 | 5.37  | 8.94   | .01044 | .02012 | .00565 | .00495 | 3.35  | 1.31  | 1.27  | .704 | .0422 | .807 | 68.2  | 45.1  | 70.6  | 46.7  | 4.21 | 3.64  | 3.87 |
| 18-40-14 | 4.43  | 7.29   | .01056 | .02020 | .00574 | .00504 | 3.24  | 1.31  | 1.28  | .704 | .0427 | .803 | 56.5  | 37.1  | 58.6  | 38.4  | 4.22 | 3.64  | 3.88 |
| 18-40-15 | 3.69  | 5.88   | .01061 | .01965 | .00585 | .00514 | 3.04  | 1.31  | 1.27  | .704 | .0435 | .796 | 46.1  | 30.5  | 47.7  | 31.6  | 4.42 | 3.83  | 4.07 |
| 18-40-16 | 3.00  | 4.68   | .01079 | .01961 | .00596 | .00525 | 2.90  | 1.32  | 1.28  | .704 | .0442 | .791 | 37.4  | 24.5  | 38.8  | 25.4  | 4.47 | 3.88  | 4.12 |
| 18-40-17 | 29.36 | 52.11  | .00897 | .01933 | .00393 | .00395 | 4.52  | 1.83  | 1.74  | .701 | .0393 | .835 | 356.1 | 138.7 | 386.1 | 150.3 | 4.22 | 3.67  | 3.43 |
| 18-40-18 | 20.00 | 34.27  | .00913 | .01918 | .00416 | .00418 | 4.20  | 1.82  | 1.73  | .700 | .0402 | .826 | 239.9 | 94.8  | 259.8 | 102.6 | 4.32 | 3.76  | 3.54 |
| 18-40-19 | 13.70 | 22.43  | .00924 | .01885 | .00440 | .00444 | 3.86  | 1.84  | 1.74  | .699 | .0413 | .817 | 161.1 | 63.4  | 174.6 | 68.6  | 4.48 | 3.91  | 3.69 |
| 18-40-20 | 10.25 | 16.24  | .00936 | .01866 | .00466 | .00468 | 3.63  | 1.82  | 1.71  | .699 | .0421 | .809 | 119.2 | 47.9  | 128.8 | 51.8  | 4.59 | 4.01  | 3.81 |
| 18-40-21 | 7.82  | 12.20  | .00982 | .01924 | .00482 | .00481 | 3.53  | 1.80  | 1.68  | .699 | .0425 | .806 | 91.8  | 38.0  | 99.0  | 41.0  | 4.46 | 3.88  | 3.72 |
| 18-40-22 | 6.33  | 9.26   | .00943 | .01746 | .00482 | .00482 | 3.10  | 1.80  | 1.67  | .699 | .0443 | .792 | 70.0  | 29.4  | 75.5  | 31.7  | 5.08 | 4.48  | 4.31 |
| 18-40-23 | 5.22  | 7.49   | .00960 | .01749 | .00496 | .00495 | 2.99  | 1.79  | 1.65  | .699 | .0449 | .788 | 57.6  | 24.6  | 62.0  | 26.4  | 5.11 | 4.51  | 4.35 |
| 18-40-24 | 8.38  | 13.03  | .00957 | .01876 | .00478 | .00479 | 3.50  | 1.81  | 1.70  | .699 | .0426 | .805 | 97.2  | 39.8  | 105.0 | 42.9  | 4.59 | 4.01  | 3.83 |
| 18-40-25 | 28.62 | 46.92  | .00854 | .01767 | .00360 | .00399 | 4.18  | 2.20  | 2.04  | .698 | .0406 | .824 | 319.9 | 97.3  | 354.6 | 107.8 | 4.79 | 4.23  | 3.74 |
| 18-40-26 | 19.15 | 29.81  | .00869 | .01734 | .00376 | .00420 | 3.82  | 2.22  | 2.03  | .698 | .0418 | .813 | 208.8 | 64.0  | 231.3 | 70.9  | 4.97 | 4.39  | 3.92 |
| 18-40-27 | 13.05 | 19.17  | .00880 | .01686 | .00398 | .00443 | 3.47  | 2.22  | 2.00  | .697 | .0432 | .802 | 138.0 | 43.3  | 152.6 | 47.8  | 5.21 | 4.63  | 4.17 |
| 18-40-28 | 3.05  | 3.34   | .00912 | .01387 | .00437 | .00489 | 2.17  | 2.24  | 1.90  | .696 | .0516 | .746 | 27.3  | 9.4   | 30.0  | 10.3  | 6.80 | 6.15  | 5.74 |
| 18-40-29 | 13.61 | 26.10  | .01009 | .02124 | .0     | .0     | 4.17  | 1.00  | 1.00  | .706 | .0390 | .835 | 185.1 | 185.1 | 185.1 | 185.1 | 3.73 | 3.18  | 3.73 |
| 18-40-30 | 10.57 | 19.88  | .01020 | .02102 | .0     | .0     | 3.94  | 1.00  | 1.00  | .706 | .0396 | .829 | 143.0 | 143.0 | 143.0 | 143.0 | 3.82 | 3.27  | 3.82 |
| 18-40-31 | 8.16  | 15.18  | .01057 | .02156 | .0     | .0     | 3.83  | 1.00  | 1.00  | .707 | .0400 | .826 | 111.8 | 111.8 | 111.8 | 111.8 | 3.72 | 3.17  | 3.72 |
| 18-40-32 | 6.31  | 11.55  | .01079 | .02161 | .0     | .0     | 3.64  | 1.00  | 1.00  | .707 | .0405 | .821 | 86.6  | 86.6  | 86.6  | 86.6  | 3.75 | 3.19  | 3.75 |
| 18-40-33 | 4.93  | 8.86   | .01099 | .02156 | .0     | .0     | 3.46  | 1.00  | 1.00  | .707 | .0411 | .816 | 67.7  | 67.7  | 67.7  | 67.7  | 3.80 | 3.23  | 3.80 |
| 18-40-34 | 3.91  | 6.91   | .01120 | .02154 | .0     | .0     | 3.29  | 1.00  | 1.00  | .707 | .0417 | .811 | 53.7  | 53.7  | 53.7  | 53.7  | 3.84 | 3.27  | 3.84 |
| 18-40-35 | 3.14  | 5.48   | .01152 | .02187 | .0     | .0     | 3.18  | 1.00  | 1.00  | .708 | .0421 | .807 | 43.5  | 43.5  | 43.5  | 43.5  | 3.80 | 3.22  | 3.80 |
| 18-40-36 | 2.56  | 4.38   | .01167 | .02163 | .0     | .0     | 3.01  | 1.00  | 1.00  | .707 | .0428 | .801 | 35.3  | 35.3  | 35.3  | 35.3  | 3.90 | 3.32  | 3.90 |
| 18-40-37 | 2.14  | 3.46   | .01104 | .01913 | .0     | .0     | 2.59  | 1.00  | 1.00  | .708 | .0449 | .785 | 27.8  | 27.8  | 27.8  | 27.8  | 4.63 | 4.03  | 4.63 |
| 18-40-38 | 1.69  | 2.76   | .01193 | .02094 | .0     | .0     | 2.66  | 1.00  | 1.00  | .708 | .0445 | .788 | 23.0  | 23.0  | 23.0  | 23.0  | 4.16 | 3.56  | 4.16 |
| 18-40-39 | 1.37  | 2.15   | .01182 | .01979 | .0     | .0     | 2.41  | 1.00  | 1.00  | .708 | .0460 | .777 | 18.1  | 18.1  | 18.1  | 18.1  | 4.53 | 3.92  | 4.53 |
| 18-40-40 | 23.13 | 46.01  | .00988 | .02162 | .0     | .0     | 4.68  | 1.00  | 1.00  | .707 | .0379 | .846 | 317.1 | 317.1 | 317.1 | 317.1 | 3.57 | 3.03  | 3.57 |
| 18-40-41 | 16.07 | 31.22  | .01006 | .02147 | .0     | .0     | 4.35  | 1.00  | 1.00  | .706 | .0386 | .839 | 219.6 | 219.6 | 219.6 | 219.6 | 3.65 | 3.11  | 3.65 |
| 18-40-42 | 12.10 | 23.12  | .01028 | .02156 | .0     | .0     | 4.14  | 1.00  | 1.00  | .706 | .0391 | .834 | 165.7 | 165.7 | 165.7 | 165.7 | 3.66 | 3.12  | 3.66 |
| 18-40-43 | 9.22  | 17.31  | .01047 | .02155 | .0     | .0     | 3.92  | 1.00  | 1.00  | .706 | .0397 | .829 | 126.3 | 126.3 | 126.3 | 126.3 | 3.71 | 3.15  | 3.71 |
| 18-40-44 | 7.22  | 13.35  | .01072 | .02173 | .0     | .0     | 3.76  | 1.00  | 1.00  | .706 | .0402 | .824 | 99.3  | 99.3  | 99.3  | 99.3  | 3.70 | 3.14  | 3.70 |
| 18-40-45 | 13.81 | 26.69  | .01027 | .02183 | .0     | .0     | 4.29  | 1.00  | 1.00  | .706 | .0388 | .837 | 190.3 | 190.3 | 190.3 | 190.3 | 3.58 | 3.04  | 3.58 |
| 18-40-46 | 10.16 | 19.21  | .01042 | .02163 | .0     | .0     | 4.01  | 1.00  | 1.00  | .706 | .0395 | .831 | 139.4 | 139.4 | 139.4 | 139.4 | 3.67 | 3.12  | 3.67 |

| VERS.NR. | RE*E4 | Q<KW/M2> | ST1+/<br>ST1*/ | STT+/<br>STT*/ | ST1F/<br>ST1F*/ | H+   | G+   | GPR01 | G*    | G*R  | GT   | GTR  | GTR1 | GTF  | GTRF | X    | YR   | YG   |      |       |      |
|----------|-------|----------|----------------|----------------|-----------------|------|------|-------|-------|------|------|------|------|------|------|------|------|------|------|-------|------|
| 18-40-   | 1     | 32.73    | 111.7          | 1.09           | 1.07            | 1.11 | 1.09 | 1.13  | 426.4 | 16.7 | 16.2 | 17.1 | 21.5 | 16.3 | 20.8 | 16.0 | 15.8 | 20.2 | 2.42 | 9.89  | 21.9 |
| 18-40-   | 2     | 22.03    | 81.2           | 1.08           | 1.08            | 1.11 | 1.10 | 1.15  | 289.6 | 15.2 | 14.8 | 15.3 | 19.4 | 14.8 | 19.1 | 14.6 | 14.0 | 18.1 | 2.40 | 9.80  | 20.0 |
| 18-40-   | 3     | 15.31    | 61.4           | 1.09           | 1.08            | 1.12 | 1.11 | 1.16  | 199.0 | 13.8 | 13.3 | 13.9 | 17.8 | 13.3 | 17.3 | 13.1 | 12.6 | 16.3 | 2.38 | 9.87  | 18.5 |
| 18-40-   | 4     | 11.13    | 49.3           | 1.10           | 1.09            | 1.13 | 1.12 | 1.18  | 143.9 | 12.2 | 11.8 | 12.4 | 15.9 | 11.8 | 15.4 | 11.7 | 10.9 | 14.4 | 2.36 | 9.89  | 16.8 |
| 18-40-   | 5     | 8.60     | 38.8           | 1.11           | 1.10            | 1.13 | 1.12 | 1.20  | 111.3 | 11.5 | 11.1 | 11.6 | 15.0 | 11.0 | 14.5 | 11.0 | 10.1 | 13.5 | 2.34 | 9.86  | 16.0 |
| 18-40-   | 6     | 6.71     | 32.1           | 1.11           | 1.10            | 1.14 | 1.13 | 1.21  | 86.6  | 10.9 | 10.5 | 11.1 | 14.3 | 10.4 | 13.8 | 10.4 | 9.5  | 12.8 | 2.33 | 9.85  | 15.4 |
| 18-40-   | 7     | 5.42     | 26.6           | 1.12           | 1.10            | 1.15 | 1.13 | 1.22  | 69.6  | 10.1 | 9.8  | 10.4 | 13.5 | 9.7  | 13.0 | 9.7  | 8.8  | 11.9 | 2.31 | 9.88  | 14.6 |
| 18-40-   | 8     | 12.79    | 51.0           | 1.10           | 1.09            | 1.12 | 1.11 | 1.17  | 165.5 | 12.9 | 12.5 | 13.0 | 16.7 | 12.4 | 16.2 | 12.3 | 11.6 | 15.3 | 2.37 | 9.91  | 17.6 |
| 18-40-   | 9     | 15.55    | 60.7           | 1.09           | 1.08            | 1.12 | 1.11 | 1.16  | 201.3 | 13.7 | 13.3 | 13.9 | 17.8 | 13.3 | 17.3 | 13.1 | 12.6 | 16.4 | 2.38 | 9.92  | 18.5 |
| 18-40-   | 10    | 19.19    | 71.7           | 1.09           | 1.08            | 1.12 | 1.10 | 1.16  | 248.1 | 14.3 | 13.9 | 14.5 | 18.5 | 13.9 | 18.0 | 13.7 | 13.2 | 17.1 | 2.39 | 9.95  | 19.1 |
| 18-40-   | 11    | 25.36    | 88.4           | 1.09           | 1.07            | 1.11 | 1.09 | 1.14  | 332.5 | 16.2 | 15.8 | 16.5 | 20.8 | 15.8 | 20.3 | 15.5 | 15.2 | 19.5 | 2.41 | 9.83  | 21.2 |
| 18-40-   | 12    | 32.06    | 106.2          | 1.08           | 1.07            | 1.10 | 1.09 | 1.13  | 422.9 | 17.2 | 16.7 | 17.4 | 21.9 | 16.7 | 21.4 | 16.4 | 16.2 | 20.7 | 2.42 | 9.79  | 22.2 |
| 18-40-   | 13    | 5.37     | 25.5           | 1.13           | 1.10            | 1.17 | 1.13 | 1.22  | 68.2  | 9.9  | 9.6  | 10.4 | 13.6 | 9.4  | 12.7 | 9.5  | 8.8  | 11.9 | 2.30 | 9.97  | 14.5 |
| 18-40-   | 14    | 4.43     | 21.4           | 1.12           | 1.11            | 1.15 | 1.14 | 1.23  | 56.5  | 9.9  | 9.6  | 10.1 | 13.1 | 9.4  | 12.6 | 9.4  | 8.4  | 11.5 | 2.29 | 9.95  | 14.2 |
| 18-40-   | 15    | 3.69     | 18.1           | 1.14           | 1.11            | 1.18 | 1.14 | 1.25  | 46.1  | 9.2  | 8.9  | 9.6  | 12.6 | 8.7  | 11.8 | 8.8  | 7.9  | 10.8 | 2.27 | 10.09 | 13.6 |
| 18-40-   | 16    | 3.00     | 15.6           | 1.14           | 1.11            | 1.18 | 1.15 | 1.26  | 37.4  | 8.9  | 8.6  | 9.3  | 12.2 | 8.5  | 11.4 | 8.5  | 7.6  | 10.4 | 2.25 | 10.10 | 13.2 |
| 18-40-   | 17    | 29.36    | 292.8          | 1.08           | 1.07            | 1.11 | 1.09 | 1.15  | 356.1 | 17.1 | 14.1 | 17.5 | 19.4 | 16.7 | 19.5 | 14.8 | 15.8 | 17.6 | 2.38 | 10.17 | 21.7 |
| 18-40-   | 18    | 20.00    | 208.2          | 1.09           | 1.07            | 1.12 | 1.10 | 1.17  | 239.9 | 15.7 | 12.9 | 16.1 | 17.8 | 15.2 | 17.9 | 13.6 | 14.3 | 16.0 | 2.36 | 10.21 | 20.2 |
| 18-40-   | 19    | 13.70    | 156.0          | 1.10           | 1.08            | 1.13 | 1.10 | 1.19  | 161.1 | 14.3 | 11.7 | 14.6 | 16.2 | 13.8 | 16.3 | 12.3 | 12.7 | 14.3 | 2.33 | 10.30 | 18.5 |
| 18-40-   | 20    | 10.25    | 121.5          | 1.11           | 1.08            | 1.14 | 1.11 | 1.21  | 119.2 | 13.0 | 10.7 | 13.3 | 14.9 | 12.5 | 14.9 | 11.2 | 11.4 | 12.9 | 2.31 | 10.35 | 17.1 |
| 18-40-   | 21    | 7.82     | 92.5           | 1.11           | 1.08            | 1.14 | 1.11 | 1.21  | 91.8  | 12.6 | 10.4 | 13.1 | 14.7 | 12.1 | 14.6 | 10.9 | 11.1 | 12.6 | 2.30 | 10.20 | 16.8 |
| 18-40-   | 22    | 6.33     | 75.3           | 1.12           | 1.08            | 1.15 | 1.11 | 1.24  | 70.0  | 11.7 | 9.6  | 12.3 | 13.8 | 11.2 | 13.5 | 10.0 | 10.1 | 11.5 | 2.25 | 10.70 | 15.7 |
| 18-40-   | 23    | 5.22     | 62.9           | 1.13           | 1.09            | 1.16 | 1.12 | 1.25  | 57.6  | 11.1 | 9.2  | 11.8 | 13.3 | 10.7 | 13.0 | 9.6  | 9.5  | 10.9 | 2.24 | 10.69 | 15.1 |
| 18-40-   | 24    | 8.38     | 99.6           | 1.11           | 1.08            | 1.14 | 1.11 | 1.22  | 97.2  | 12.5 | 10.3 | 13.0 | 14.5 | 12.0 | 14.5 | 10.8 | 10.9 | 12.4 | 2.29 | 10.33 | 16.7 |
| 18-40-   | 25    | 28.62    | 403.9          | 1.08           | 1.05            | 1.10 | 1.07 | 1.16  | 319.9 | 18.3 | 13.7 | 19.0 | 19.0 | 17.8 | 19.6 | 14.8 | 16.7 | 16.7 | 2.35 | 10.64 | 22.6 |
| 18-40-   | 26    | 19.15    | 287.6          | 1.09           | 1.05            | 1.11 | 1.07 | 1.17  | 208.8 | 17.0 | 12.7 | 17.8 | 17.6 | 16.5 | 18.2 | 13.7 | 15.3 | 15.2 | 2.32 | 10.74 | 21.1 |
| 18-40-   | 27    | 13.05    | 207.7          | 1.09           | 1.05            | 1.12 | 1.08 | 1.19  | 138.0 | 15.4 | 11.5 | 16.3 | 16.1 | 14.9 | 16.5 | 12.3 | 13.6 | 13.5 | 2.28 | 10.89 | 19.3 |
| 18-40-   | 28    | 3.05     | 55.8           | 1.12           | 1.06            | 1.16 | 1.09 | 1.30  | 27.3  | 11.8 | 8.7  | 12.8 | 12.5 | 11.2 | 12.7 | 9.1  | 9.4  | 9.1  | 2.08 | 12.01 | 14.6 |
| 18-40-   | 29    | 13.61    | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 0.0   | 185.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.39 | 9.70  | 0.0  |
| 18-40-   | 30    | 10.57    | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 0.0   | 143.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.37 | 9.75  | 0.0  |
| 18-40-   | 31    | 8.16     | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 0.0   | 111.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.36 | 9.63  | 0.0  |
| 18-40-   | 32    | 6.31     | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 0.0   | 86.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.35 | 9.62  | 0.0  |
| 18-40-   | 33    | 4.93     | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 0.0   | 67.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.33 | 9.63  | 0.0  |
| 18-40-   | 34    | 3.91     | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 0.0   | 53.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.32 | 9.64  | 0.0  |
| 18-40-   | 35    | 3.14     | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 0.0   | 43.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.31 | 9.56  | 0.0  |
| 18-40-   | 36    | 2.56     | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 0.0   | 35.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.29 | 9.62  | 0.0  |
| 18-40-   | 37    | 2.14     | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 0.0   | 27.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.24 | 10.22 | 0.0  |
| 18-40-   | 38    | 1.69     | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 0.0   | 23.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.25 | 9.77  | 0.0  |
| 18-40-   | 39    | 1.37     | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 0.0   | 18.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.21 | 10.05 | 0.0  |
| 18-40-   | 40    | 23.13    | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 0.0   | 317.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.42 | 9.62  | 0.0  |
| 18-40-   | 41    | 16.07    | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 0.0   | 219.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.40 | 9.65  | 0.0  |
| 18-40-   | 42    | 12.10    | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 0.0   | 165.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.39 | 9.63  | 0.0  |
| 18-40-   | 43    | 9.22     | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 0.0   | 126.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.37 | 9.63  | 0.0  |
| 18-40-   | 44    | 7.22     | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 0.0   | 99.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.36 | 9.59  | 0.0  |
| 18-40-   | 45    | 13.81    | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 0.0   | 190.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.40 | 9.57  | 0.0  |
| 18-40-   | 46    | 10.16    | 0.0            | 0.0            | 0.0             | 0.0  | 0.0  | 0.0   | 139.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.38 | 9.62  | 0.0  |

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| VERS.NR. | RE*E4 | RE1*E4 | F      | F1     | STB    | STPR   | F1/F2 | TW/TR | TW/T1 | PR   | H/Y   | BETA | H+    | H+W   | H+R   | H+RW  | RH+  | RH+01 | RH+R |
|----------|-------|--------|--------|--------|--------|--------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|------|-------|------|
| 19-40- 1 | 28.38 | 55.00  | .00994 | .02204 | .00448 | .00390 | 4.98  | 1.33  | 1.30  | .705 | .0378 | .848 | 381.1 | 242.9 | 395.7 | 252.2 | 3.46 | 2.93  | 3.11 |
| 19-40- 2 | 19.13 | 36.04  | .01009 | .02182 | .00478 | .00414 | 4.60  | 1.32  | 1.29  | .704 | .0386 | .840 | 255.1 | 164.7 | 264.6 | 170.8 | 3.57 | 3.03  | 3.22 |
| 19-40- 3 | 13.51 | 24.70  | .01025 | .02160 | .00504 | .00436 | 4.28  | 1.33  | 1.29  | .704 | .0393 | .833 | 178.5 | 114.7 | 185.2 | 119.0 | 3.67 | 3.12  | 3.32 |
| 19-40- 4 | 10.42 | 18.66  | .01044 | .02161 | .00528 | .00456 | 4.07  | 1.32  | 1.28  | .704 | .0399 | .828 | 137.2 | 88.9  | 142.3 | 92.2  | 3.71 | 3.15  | 3.36 |
| 19-40- 5 | 8.05  | 13.98  | .01052 | .02121 | .00555 | .00480 | 3.81  | 1.33  | 1.29  | .704 | .0407 | .820 | 104.5 | 67.5  | 108.4 | 70.0  | 3.85 | 3.29  | 3.50 |
| 19-40- 6 | 30.42 | 54.04  | .00942 | .02039 | .00418 | .00416 | 4.78  | 1.87  | 1.76  | .702 | .0389 | .839 | 373.6 | 143.2 | 405.6 | 155.5 | 3.92 | 3.38  | 3.14 |
| 19-40- 7 | 20.74 | 35.37  | .00951 | .01999 | .00443 | .00441 | 4.39  | 1.88  | 1.75  | .701 | .0398 | .830 | 250.0 | 96.8  | 271.1 | 105.0 | 4.09 | 3.53  | 3.31 |
| 19-40- 8 | 14.10 | 22.93  | .00968 | .01970 | .00469 | .00466 | 4.04  | 1.89  | 1.75  | .701 | .0409 | .820 | 166.3 | 64.7  | 180.4 | 70.1  | 4.23 | 3.67  | 3.45 |
| 19-40- 9 | 10.57 | 16.56  | .00978 | .01939 | .00492 | .00488 | 3.77  | 1.88  | 1.73  | .701 | .0418 | .812 | 122.5 | 48.5  | 132.7 | 52.5  | 4.37 | 3.80  | 3.60 |
| 19-40-10 | 7.81  | 11.74  | .00993 | .01908 | .00510 | .00505 | 3.51  | 1.89  | 1.72  | .700 | .0428 | .804 | 88.9  | 35.7  | 96.1  | 38.6  | 4.52 | 3.94  | 3.75 |
| 19-40-11 | 6.49  | 9.48   | .00997 | .01872 | .00523 | .00517 | 3.32  | 1.88  | 1.70  | .700 | .0436 | .798 | 72.7  | 29.7  | 78.5  | 32.0  | 4.67 | 4.08  | 3.91 |
| 19-40-12 | 27.08 | 43.91  | .00917 | .01921 | .00394 | .00439 | 4.48  | 2.36  | 2.14  | .700 | .0401 | .828 | 307.5 | 86.5  | 343.3 | 96.6  | 4.31 | 3.75  | 3.25 |
| 19-40-13 | 18.29 | 27.73  | .00918 | .01839 | .00418 | .00466 | 4.02  | 2.38  | 2.11  | .699 | .0415 | .816 | 198.7 | 57.0  | 221.5 | 63.5  | 4.63 | 4.06  | 3.56 |
| 19-40-14 | 12.95 | 18.68  | .00931 | .01802 | .00434 | .00483 | 3.70  | 2.38  | 2.09  | .699 | .0427 | .806 | 137.1 | 40.1  | 152.6 | 44.6  | 4.82 | 4.24  | 3.75 |
| 19-40-15 | 9.71  | 13.29  | .00940 | .01750 | .00455 | .00504 | 3.41  | 2.37  | 2.05  | .699 | .0439 | .797 | 99.7  | 30.1  | 110.6 | 33.4  | 5.05 | 4.46  | 3.99 |
| 19-40-16 | 7.13  | 10.37  | .00944 | .01725 | .00473 | .00522 | 3.13  | 2.36  | 2.14  | .698 | .0444 | .794 | 77.7  | 21.7  | 86.9  | 24.3  | 5.15 | 4.56  | 4.04 |
| 19-40-17 | 5.90  | 7.24   | .00951 | .01627 | .00482 | .00531 | 2.89  | 2.35  | 1.97  | .698 | .0466 | .777 | 56.5  | 18.2  | 62.4  | 20.1  | 5.61 | 4.99  | 4.57 |
| 19-40-18 | 6.29  | 10.75  | .01079 | .02146 | .00583 | .00502 | 3.67  | 1.32  | 1.28  | .704 | .0411 | .816 | 82.0  | 53.6  | 85.0  | 55.5  | 3.83 | 3.26  | 3.49 |
| 19-40-19 | 6.25  | 10.74  | .01088 | .02172 | .00578 | .00497 | 3.70  | 1.32  | 1.27  | .703 | .0410 | .817 | 82.1  | 53.9  | 85.1  | 55.9  | 3.76 | 3.20  | 3.43 |
| 19-40-20 | 4.89  | 8.19   | .01100 | .02145 | .00598 | .00514 | 3.48  | 1.32  | 1.27  | .703 | .0418 | .811 | 63.7  | 41.9  | 66.0  | 43.4  | 3.87 | 3.30  | 3.54 |
| 19-40-21 | 3.84  | 6.29   | .01127 | .02153 | .00621 | .00531 | 3.32  | 1.31  | 1.27  | .703 | .0424 | .806 | 49.9  | 33.2  | 51.7  | 34.4  | 3.89 | 3.32  | 3.57 |
| 19-40-22 | 3.04  | 4.83   | .01143 | .02124 | .00640 | .00547 | 3.12  | 1.32  | 1.26  | .703 | .0433 | .799 | 39.1  | 26.0  | 40.4  | 26.9  | 4.02 | 3.43  | 3.69 |
| 19-40-23 | 3.94  | 6.45   | .01126 | .02159 | .00621 | .00534 | 3.35  | 1.33  | 1.28  | .704 | .0423 | .806 | 51.2  | 33.4  | 53.1  | 34.6  | 3.87 | 3.30  | 3.54 |
| 19-40-24 | 2.52  | 3.89   | .01155 | .02092 | .00651 | .00557 | 2.96  | 1.33  | 1.27  | .704 | .0441 | .792 | 32.0  | 21.2  | 33.1  | 21.9  | 4.14 | 3.55  | 3.81 |
| 19-40-25 | 2.19  | 3.32   | .01153 | .02041 | .00654 | .00558 | 2.80  | 1.32  | 1.26  | .704 | .0448 | .787 | 27.5  | 18.4  | 28.5  | 19.0  | 4.31 | 3.71  | 3.98 |
| 19-40-26 | 1.75  | 2.56   | .01161 | .01994 | .00662 | .00562 | 2.59  | 1.31  | 1.25  | .703 | .0460 | .778 | 21.6  | 14.7  | 22.4  | 15.2  | 4.52 | 3.91  | 4.19 |
| 19-40-27 | 1.37  | 1.96   | .01141 | .01843 | .00646 | .00551 | 2.28  | 1.34  | 1.29  | .704 | .0477 | .767 | 16.7  | 10.8  | 17.4  | 11.2  | 5.00 | 4.37  | 4.62 |
| 19-40-28 | 1.08  | 1.44   | .01158 | .01768 | .00644 | .00544 | 2.08  | 1.31  | 1.24  | .703 | .0497 | .754 | 12.6  | 8.7   | 13.0  | 9.0   | 5.33 | 4.68  | 5.00 |
| 19-40-29 | 0.90  | 1.14   | .01156 | .01685 | .00641 | .00540 | 1.91  | 1.31  | 1.24  | .703 | .0514 | .744 | 10.2  | 7.1   | 10.6  | 7.3   | 5.69 | 5.03  | 5.35 |
| 19-40-30 | 0.74  | 0.93   | .01160 | .01607 | .00638 | .00536 | 1.73  | 1.31  | 1.26  | .703 | .0530 | .736 | 8.4   | 5.7   | 8.7   | 5.9   | 6.02 | 5.36  | 5.66 |
| 19-40-31 | 0.59  | 0.65   | .01152 | .01446 | .00603 | .00506 | 1.49  | 1.32  | 1.23  | .703 | .0572 | .715 | 6.2   | 4.3   | 6.4   | 4.5   | 6.88 | 6.18  | 6.54 |
| 19-40-32 | 0.50  | 0.54   | .01149 | .01357 | .00571 | .00479 | 1.33  | 1.32  | 1.25  | .703 | .0598 | .705 | 5.2   | 3.5   | 5.4   | 3.6   | 7.44 | 6.72  | 7.05 |
| 19-40-33 | 0.39  | 0.38   | .01166 | .01248 | .00549 | .00462 | 1.16  | 1.34  | 1.23  | .705 | .0637 | .688 | 3.8   | 2.7   | 3.9   | 2.7   | 8.03 | 7.29  | 7.65 |
| 19-40-34 | 12.09 | 23.33  | .01054 | .02237 | .0     | .0     | 4.27  | 1.00  | 1.00  | .705 | .0388 | .837 | 168.6 | 168.6 | 168.6 | 168.6 | 3.47 | 2.92  | 3.47 |
| 19-40-35 | 8.90  | 16.90  | .01088 | .02272 | .0     | .0     | 4.08  | 1.00  | 1.00  | .704 | .0393 | .832 | 125.0 | 125.0 | 125.0 | 125.0 | 3.43 | 2.88  | 3.43 |
| 19-40-36 | 7.02  | 13.16  | .01114 | .02294 | .0     | .0     | 3.93  | 1.00  | 1.00  | .705 | .0397 | .828 | 99.2  | 99.2  | 99.2  | 99.2  | 3.41 | 2.86  | 3.41 |
| 19-40-37 | 5.37  | 9.88   | .01137 | .02295 | .0     | .0     | 3.72  | 1.00  | 1.00  | .705 | .0403 | .823 | 76.0  | 76.0  | 76.0  | 76.0  | 3.45 | 2.89  | 3.45 |
| 19-40-38 | 4.30  | 7.80   | .01161 | .02308 | .0     | .0     | 3.57  | 1.00  | 1.00  | .706 | .0408 | .819 | 61.0  | 61.0  | 61.0  | 61.0  | 3.46 | 2.89  | 3.46 |
| 19-40-39 | 3.42  | 6.11   | .01188 | .02323 | .0     | .0     | 3.42  | 1.00  | 1.00  | .706 | .0413 | .814 | 48.7  | 48.7  | 48.7  | 48.7  | 3.46 | 2.89  | 3.46 |
| 19-40-40 | 2.79  | 4.91   | .01212 | .02328 | .0     | .0     | 3.28  | 1.00  | 1.00  | .706 | .0418 | .810 | 39.8  | 39.8  | 39.8  | 39.8  | 3.48 | 2.91  | 3.48 |
| 19-40-41 | 2.24  | 3.86   | .01228 | .02303 | .0     | .0     | 3.09  | 1.00  | 1.00  | .707 | .0425 | .804 | 31.9  | 31.9  | 31.9  | 31.9  | 3.58 | 3.00  | 3.58 |
| 19-40-42 | 1.82  | 3.08   | .01249 | .02292 | .0     | .0     | 2.94  | 1.00  | 1.00  | .707 | .0432 | .798 | 25.9  | 25.9  | 25.9  | 25.9  | 3.65 | 3.06  | 3.65 |
| 19-40-43 | 1.50  | 2.47   | .01255 | .02232 | .0     | .0     | 2.74  | 1.00  | 1.00  | .707 | .0442 | .791 | 21.0  | 21.0  | 21.0  | 21.0  | 3.83 | 3.24  | 3.83 |
| 19-40-44 | 1.14  | 1.90   | .01257 | .02145 | .0     | .0     | 2.50  | 1.00  | 1.00  | .707 | .0454 | .781 | 16.4  | 16.4  | 16.4  | 16.4  | 4.10 | 3.50  | 4.10 |
| 19-40-45 | 0.98  | 1.49   | .01230 | .01980 | .0     | .0     | 2.22  | 1.00  | 1.00  | .707 | .0473 | .769 | 13.0  | 13.0  | 13.0  | 13.0  | 4.60 | 3.98  | 4.60 |
| 19-40-46 | 0.81  | 1.20   | .01236 | .01909 | .0     | .0     | 2.05  | 1.00  | 1.00  | .707 | .0486 | .760 | 10.6  | 10.6  | 10.6  | 10.6  | 4.87 | 4.23  | 4.87 |
| 19-40-47 | 0.70  | 0.98   | .01208 | .01757 | .0     | .0     | 1.83  | 1.00  | 1.00  | .707 | .0507 | .748 | 8.8   | 8.8   | 8.8   | 8.8   | 5.42 | 4.78  | 5.42 |
| 19-40-48 | 0.62  | 0.83   | .01191 | .01647 | .0     | .0     | 1.67  | 1.00  | 1.00  | .707 | .0527 | .737 | 7.6   | 7.6   | 7.6   | 7.6   | 5.92 | 5.25  | 5.92 |
| 19-40-49 | 0.54  | 0.69   | .01162 | .01496 | .0     | .0     | 1.48  | 1.00  | 1.00  | .707 | .0553 | .724 | 6.4   | 6.4   | 6.4   | 6.4   | 6.60 | 5.92  | 6.60 |
| 19-40-50 | 0.48  | 0.56   | .01118 | .01304 | .0     | .0     | 1.26  | 1.00  | 1.00  | .707 | .0593 | .706 | 5.3   | 5.3   | 5.3   | 5.3   | 7.63 | 6.92  | 7.63 |

| VERS.NR.  | RE*E4 | Q<KW/M2> | ST1+/<br>ST1*/ | STT+/<br>STT*/ | ST1F/<br>ST1F/ | H+   | G+   | GPR01 | G*   | G*R  | GT   | GTR  | GTR1 | GTF  | GTFR | X    | YR   | YG   |       |      |
|-----------|-------|----------|----------------|----------------|----------------|------|------|-------|------|------|------|------|------|------|------|------|------|------|-------|------|
| 19-40- 1  | 28.38 | 115.4    | 1.10           | 1.07           | 1.12           | 1.09 | 1.14 | 381.1 | 15.2 | 14.6 | 15.9 | 20.3 | 14.8 | 19.6 | 15.0 | 14.6 | 19.0 | 2.43 | 9.53  | 20.6 |
| 19-40- 2  | 19.13 | 80.4     | 1.11           | 1.07           | 1.13           | 1.10 | 1.15 | 255.1 | 13.7 | 13.2 | 14.4 | 18.6 | 13.3 | 17.9 | 13.6 | 13.0 | 17.2 | 2.40 | 9.57  | 19.0 |
| 19-40- 3  | 13.51 | 61.3     | 1.12           | 1.08           | 1.14           | 1.10 | 1.17 | 178.5 | 12.5 | 12.0 | 13.2 | 17.2 | 12.1 | 16.4 | 12.5 | 11.7 | 15.7 | 2.38 | 9.62  | 17.7 |
| 19-40- 4  | 10.42 | 48.8     | 1.13           | 1.08           | 1.15           | 1.11 | 1.18 | 137.2 | 11.6 | 11.2 | 12.3 | 16.2 | 11.2 | 15.4 | 11.6 | 10.8 | 14.6 | 2.37 | 9.62  | 16.7 |
| 19-40- 5  | 8.05  | 40.3     | 1.14           | 1.09           | 1.17           | 1.11 | 1.20 | 104.5 | 10.4 | 10.0 | 11.2 | 14.9 | 10.0 | 14.0 | 10.5 | 9.6  | 13.2 | 2.35 | 9.71  | 15.5 |
| 19-40- 6  | 30.42 | 332.4    | 1.09           | 1.05           | 1.11           | 1.07 | 1.15 | 373.6 | 16.2 | 13.1 | 16.9 | 19.1 | 15.7 | 19.0 | 14.5 | 15.1 | 17.2 | 2.40 | 9.90  | 21.1 |
| 19-40- 7  | 20.78 | 239.2    | 1.10           | 1.06           | 1.12           | 1.08 | 1.16 | 250.0 | 14.6 | 11.8 | 15.4 | 17.5 | 14.2 | 17.3 | 13.2 | 13.5 | 15.4 | 2.37 | 10.00 | 19.4 |
| 19-40- 8  | 14.10 | 174.7    | 1.11           | 1.06           | 1.13           | 1.08 | 1.18 | 166.3 | 13.3 | 10.7 | 14.1 | 16.0 | 12.8 | 15.9 | 12.0 | 12.1 | 13.9 | 2.34 | 10.07 | 17.9 |
| 19-40- 9  | 10.57 | 136.8    | 1.11           | 1.06           | 1.14           | 1.09 | 1.20 | 122.5 | 12.2 | 9.8  | 13.0 | 14.8 | 11.7 | 14.7 | 11.0 | 10.8 | 12.6 | 2.32 | 10.16 | 16.6 |
| 19-40- 10 | 7.81  | 105.3    | 1.12           | 1.06           | 1.15           | 1.09 | 1.22 | 88.9  | 11.3 | 9.2  | 12.3 | 14.0 | 10.9 | 13.8 | 10.3 | 10.0 | 11.7 | 2.29 | 10.24 | 15.7 |
| 19-40- 11 | 6.49  | 88.8     | 1.13           | 1.07           | 1.16           | 1.10 | 1.23 | 72.7  | 10.7 | 8.7  | 11.7 | 13.4 | 10.2 | 13.1 | 9.8  | 9.3  | 11.0 | 2.27 | 10.34 | 15.0 |
| 19-40- 12 | 27.08 | 455.8    | 1.08           | 1.04           | 1.10           | 1.06 | 1.16 | 307.5 | 17.1 | 12.4 | 18.0 | 18.1 | 16.7 | 18.7 | 14.2 | 15.6 | 15.6 | 2.36 | 10.20 | 21.5 |
| 19-40- 13 | 18.29 | 328.6    | 1.09           | 1.04           | 1.11           | 1.06 | 1.18 | 198.7 | 15.3 | 11.0 | 16.3 | 16.3 | 14.8 | 16.9 | 12.7 | 13.7 | 13.7 | 2.32 | 10.43 | 19.5 |
| 19-40- 14 | 12.95 | 243.0    | 1.09           | 1.04           | 1.12           | 1.06 | 1.19 | 137.1 | 14.3 | 10.3 | 15.4 | 15.4 | 13.8 | 15.9 | 11.9 | 12.6 | 12.6 | 2.29 | 10.54 | 18.3 |
| 19-40- 15 | 9.71  | 190.6    | 1.10           | 1.03           | 1.13           | 1.06 | 1.21 | 99.7  | 13.1 | 9.5  | 14.2 | 14.3 | 12.6 | 14.7 | 10.9 | 11.3 | 11.3 | 2.26 | 10.69 | 16.9 |
| 19-40- 16 | 7.13  | 145.9    | 1.14           | 1.06           | 1.17           | 1.09 | 1.22 | 77.7  | 11.7 | 8.4  | 12.9 | 13.1 | 11.2 | 13.3 | 9.9  | 10.4 | 10.7 | 2.25 | 10.77 | 16.1 |
| 19-40- 17 | 5.90  | 123.0    | 1.11           | 1.03           | 1.15           | 1.06 | 1.25 | 56.5  | 11.4 | 8.2  | 12.7 | 12.7 | 10.8 | 13.0 | 9.6  | 9.4  | 9.5  | 2.19 | 11.09 | 14.9 |
| 19-40- 18 | 6.29  | 32.1     | 1.14           | 1.09           | 1.18           | 1.12 | 1.21 | 82.0  | 9.7  | 9.4  | 10.5 | 14.0 | 9.3  | 13.1 | 9.9  | 8.9  | 12.4 | 2.33 | 9.65  | 14.7 |
| 19-40- 19 | 6.25  | 31.8     | 1.14           | 1.09           | 1.17           | 1.12 | 1.21 | 82.1  | 10.0 | 9.6  | 10.7 | 14.3 | 9.5  | 13.4 | 10.1 | 9.1  | 12.7 | 2.34 | 9.60  | 15.0 |
| 19-40- 20 | 4.89  | 26.0     | 1.15           | 1.09           | 1.18           | 1.13 | 1.22 | 63.7  | 9.3  | 9.0  | 10.0 | 13.5 | 8.9  | 12.7 | 9.5  | 8.4  | 11.8 | 2.32 | 9.66  | 14.2 |
| 19-40- 21 | 3.84  | 20.7     | 1.16           | 1.10           | 1.20           | 1.13 | 1.24 | 49.9  | 8.7  | 8.4  | 9.5  | 12.9 | 8.3  | 12.0 | 9.0  | 7.8  | 11.2 | 2.30 | 9.64  | 13.5 |
| 19-40- 22 | 3.04  | 17.2     | 1.18           | 1.10           | 1.21           | 1.14 | 1.25 | 39.1  | 8.1  | 7.8  | 8.9  | 12.3 | 7.6  | 11.2 | 8.4  | 7.2  | 10.4 | 2.28 | 9.70  | 12.8 |
| 19-40- 23 | 3.94  | 22.1     | 1.16           | 1.10           | 1.19           | 1.13 | 1.24 | 51.2  | 8.7  | 8.4  | 9.5  | 12.9 | 8.3  | 12.0 | 9.0  | 7.8  | 11.1 | 2.30 | 9.63  | 13.6 |
| 19-40- 24 | 2.52  | 14.7     | 1.19           | 1.10           | 1.23           | 1.14 | 1.27 | 32.0  | 7.7  | 7.4  | 8.6  | 11.9 | 7.2  | 10.7 | 8.0  | 6.8  | 10.0 | 2.26 | 9.78  | 12.4 |
| 19-40- 25 | 2.19  | 12.6     | 1.19           | 1.11           | 1.23           | 1.14 | 1.28 | 27.5  | 7.4  | 7.2  | 8.4  | 11.6 | 7.0  | 10.4 | 7.7  | 6.5  | 9.6  | 2.24 | 9.90  | 12.1 |
| 19-40- 26 | 1.75  | 10.1     | 1.20           | 1.11           | 1.24           | 1.15 | 1.30 | 21.6  | 7.1  | 6.8  | 8.0  | 11.2 | 6.6  | 10.0 | 7.4  | 6.0  | 9.2  | 2.21 | 10.04 | 11.6 |
| 19-40- 27 | 1.37  | 8.0      | 1.23           | 1.13           | 1.28           | 1.17 | 1.32 | 16.7  | 6.7  | 6.4  | 7.8  | 11.0 | 6.3  | 9.5  | 7.0  | 5.9  | 9.0  | 2.17 | 10.42 | 11.3 |
| 19-40- 28 | 1.08  | 6.0      | 1.24           | 1.12           | 1.29           | 1.16 | 1.34 | 12.6  | 6.6  | 6.3  | 7.7  | 11.0 | 6.1  | 9.3  | 6.8  | 5.5  | 8.7  | 2.13 | 10.64 | 10.8 |
| 19-40- 29 | 0.90  | 5.0      | 1.25           | 1.13           | 1.30           | 1.17 | 1.37 | 10.2  | 6.4  | 6.2  | 7.5  | 10.7 | 6.0  | 9.1  | 6.5  | 5.2  | 8.4  | 2.09 | 10.89 | 10.4 |
| 19-40- 30 | 0.74  | 4.1      | 1.28           | 1.14           | 1.34           | 1.18 | 1.38 | 8.4   | 5.9  | 5.7  | 7.2  | 10.5 | 5.5  | 8.5  | 6.1  | 5.0  | 8.2  | 2.06 | 11.16 | 10.1 |
| 19-40- 31 | 0.59  | 3.2      | 1.29           | 1.14           | 1.35           | 1.18 | 1.43 | 6.2   | 6.1  | 5.9  | 7.5  | 10.8 | 5.6  | 8.5  | 6.0  | 5.0  | 8.1  | 1.97 | 11.76 | 9.9  |
| 19-40- 32 | 0.50  | 2.5      | 1.31           | 1.14           | 1.37           | 1.19 | 1.42 | 5.2   | 6.3  | 6.1  | 7.8  | 11.2 | 5.8  | 8.7  | 6.1  | 5.3  | 8.7  | 1.93 | 12.14 | 10.1 |
| 19-40- 33 | 0.39  | 2.0      | 1.31           | 1.13           | 1.36           | 1.18 | 1.45 | 3.8   | 6.5  | 6.2  | 8.1  | 11.5 | 6.0  | 8.8  | 6.1  | 5.3  | 8.5  | 1.86 | 12.66 | 9.9  |
| 19-40- 34 | 12.09 | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 168.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.40 | 9.46  | 0.0  |
| 19-40- 35 | 8.90  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 125.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.38 | 9.38  | 0.0  |
| 19-40- 36 | 7.02  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 99.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.37 | 9.34  | 0.0  |
| 19-40- 37 | 5.37  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 76.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.36 | 9.34  | 0.0  |
| 19-40- 38 | 4.30  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 61.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.34 | 9.31  | 0.0  |
| 19-40- 39 | 3.42  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 48.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.33 | 9.28  | 0.0  |
| 19-40- 40 | 2.79  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 39.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.31 | 9.27  | 0.0  |
| 19-40- 41 | 2.24  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 31.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.30 | 9.32  | 0.0  |
| 19-40- 42 | 1.82  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 25.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.28 | 9.34  | 0.0  |
| 19-40- 43 | 1.50  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 21.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.26 | 9.47  | 0.0  |
| 19-40- 44 | 1.19  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 16.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.22 | 9.66  | 0.0  |
| 19-40- 45 | 0.98  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 13.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.18 | 10.05 | 0.0  |
| 19-40- 46 | 0.81  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 10.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.15 | 10.23 | 0.0  |
| 19-40- 47 | 0.70  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 8.8   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.10 | 10.67 | 0.0  |
| 19-40- 48 | 0.62  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 7.6   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.06 | 11.02 | 0.0  |
| 19-40- 49 | 0.54  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 6.4   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.01 | 11.56 | 0.0  |
| 19-40- 50 | 0.48  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 5.3   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.93 | 12.38 | 0.0  |

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| VERS.NR.  | RE*E4 | RE1*E4 | F      | F1     | STH | STPR | F1/F2 | TW/TB | TW/T1 | PR   | H/Y   | BETA | H+    | H+W   | H+R   | H+RW  | RH+  | RH+01 | RH+R |
|-----------|-------|--------|--------|--------|-----|------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|------|-------|------|
| 19-40- 51 | 0.41  | 0.42   | .01040 | .01005 | .0  | .0   | 0.95  | 1.00  | 1.00  | .707 | .0680 | .674 | 4.0   | 4.0   | 4.0   | 4.0   | 9.77 | 9.00  | 9.77 |
| 19-40- 52 | 29.96 | 61.45  | .01025 | .02320 | .0  | .0   | 5.22  | 1.00  | 1.00  | .707 | .0370 | .856 | 424.9 | 424.9 | 424.9 | 424.9 | 3.16 | 2.64  | 3.16 |
| 19-40- 53 | 20.51 | 41.11  | .01039 | .02296 | .0  | .0   | 4.83  | 1.00  | 1.00  | .706 | .0377 | .849 | 289.5 | 289.5 | 289.5 | 289.5 | 3.26 | 2.73  | 3.26 |
| 19-40- 54 | 14.42 | 28.21  | .01051 | .02266 | .0  | .0   | 4.47  | 1.00  | 1.00  | .705 | .0384 | .841 | 202.2 | 202.2 | 202.2 | 202.2 | 3.37 | 2.84  | 3.37 |
| 19-40- 55 | 10.90 | 20.92  | .01066 | .02252 | .0  | .0   | 4.21  | 1.00  | 1.00  | .705 | .0390 | .835 | 152.5 | 152.5 | 152.5 | 152.5 | 3.44 | 2.90  | 3.44 |
| 19-40- 56 | 8.61  | 16.28  | .01089 | .02268 | .0  | .0   | 4.05  | 1.00  | 1.00  | .706 | .0394 | .831 | 120.7 | 120.7 | 120.7 | 120.7 | 3.44 | 2.89  | 3.44 |
| 19-40- 57 | 6.82  | 12.73  | .01109 | .02272 | .0  | .0   | 3.87  | 1.00  | 1.00  | .706 | .0399 | .827 | 95.9  | 95.9  | 95.9  | 95.9  | 3.47 | 2.91  | 3.47 |



| VERS.NR.  | RE*E4 | Q<KW/M2> | ST1+/<br>ST1*/ | STT+/<br>STT*/ | ST1F/<br>ST1F*/ | H+  | G+    | GPR01 | G*  | G*R | GT  | GTR | GTR1 | GTF | GTFR | X    | YR    | YG  |
|-----------|-------|----------|----------------|----------------|-----------------|-----|-------|-------|-----|-----|-----|-----|------|-----|------|------|-------|-----|
| 19-40- 51 | 0.41  | 0.0      | 0.0            | 0.0            | 0.0             | 0.0 | 4.0   | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 1.79 | 14.11 | 0.0 |
| 19-40- 52 | 29.96 | 0.0      | 0.0            | 0.0            | 0.0             | 0.0 | 424.9 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.45 | 9.28  | 0.0 |
| 19-40- 53 | 20.51 | 0.0      | 0.0            | 0.0            | 0.0             | 0.0 | 289.5 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.43 | 9.33  | 0.0 |
| 19-40- 54 | 14.42 | 0.0      | 0.0            | 0.0            | 0.0             | 0.0 | 202.2 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.41 | 9.40  | 0.0 |
| 19-40- 55 | 10.90 | 0.0      | 0.0            | 0.0            | 0.0             | 0.0 | 152.5 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.39 | 9.42  | 0.0 |
| 19-40- 56 | 8.60  | 0.0      | 0.0            | 0.0            | 0.0             | 0.0 | 120.7 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.38 | 9.39  | 0.0 |
| 19-40- 57 | 6.82  | 0.0      | 0.0            | 0.0            | 0.0             | 0.0 | 95.9  | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.37 | 9.38  | 0.0 |

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| VERS.NR.  | RE*E4 | RE1*E4 | F      | F1     | STB    | STPR   | F1/F2 | TW/TH | TW/T1 | PR   | H/Y   | BETA | H+    | H+W   | H+R   | H+RW  | RH+  | RH+U1 | RH+R |
|-----------|-------|--------|--------|--------|--------|--------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|------|-------|------|
| 18-50- 1  | 9.29  | 15.32  | .00819 | .01602 | .00518 | .00468 | 3.08  | 1.46  | 1.38  | .667 | .0316 | .748 | 71.6  | 41.9  | 75.0  | 43.9  | 4.62 | 4.16  | 4.11 |
| 18-50- 2  | 8.51  | 13.92  | .00825 | .01603 | .00529 | .00477 | 3.03  | 1.45  | 1.38  | .667 | .0318 | .745 | 65.6  | 38.6  | 68.7  | 40.4  | 4.64 | 4.18  | 4.14 |
| 18-50- 3  | 7.86  | 12.66  | .00826 | .01580 | .00529 | .00476 | 2.94  | 1.45  | 1.37  | .667 | .0322 | .741 | 60.0  | 35.6  | 62.8  | 37.3  | 4.76 | 4.29  | 4.26 |
| 18-50- 4  | 7.17  | 11.38  | .00831 | .01574 | .00537 | .00485 | 2.87  | 1.46  | 1.38  | .667 | .0325 | .738 | 54.4  | 32.1  | 57.0  | 33.6  | 4.82 | 4.35  | 4.31 |
| 18-50- 5  | 6.37  | 9.79   | .00827 | .01526 | .00547 | .00493 | 2.73  | 1.45  | 1.37  | .667 | .0333 | .730 | 47.4  | 28.2  | 49.6  | 29.5  | 5.13 | 4.65  | 4.62 |
| 18-50- 6  | 5.75  | 8.53   | .00819 | .01466 | .00544 | .00490 | 2.57  | 1.45  | 1.36  | .667 | .0343 | .720 | 41.7  | 25.0  | 43.6  | 26.2  | 5.56 | 5.06  | 5.04 |
| 18-50- 7  | 5.14  | 7.29   | .00819 | .01429 | .00551 | .00498 | 2.45  | 1.46  | 1.36  | .667 | .0358 | .710 | 36.3  | 21.9  | 38.0  | 22.9  | 6.10 | 5.59  | 5.57 |
| 18-50- 8  | 9.12  | 13.23  | .00767 | .01404 | .00482 | .00474 | 2.74  | 1.74  | 1.59  | .667 | .0335 | .727 | 62.5  | 29.1  | 66.8  | 31.1  | 5.55 | 5.07  | 4.78 |
| 18-50- 9  | 8.34  | 12.14  | .00786 | .01446 | .00490 | .00482 | 2.76  | 1.74  | 1.59  | .667 | .0334 | .728 | 58.0  | 27.0  | 62.0  | 28.9  | 5.37 | 4.88  | 4.60 |
| 18-50- 10 | 7.67  | 10.82  | .00779 | .01394 | .00490 | .00483 | 2.63  | 1.75  | 1.58  | .667 | .0341 | .721 | 52.1  | 24.3  | 55.7  | 26.0  | 5.65 | 5.16  | 4.88 |
| 18-50- 11 | 7.01  | 9.63   | .00777 | .01362 | .00494 | .00482 | 2.53  | 1.75  | 1.58  | .667 | .0347 | .715 | 46.8  | 22.0  | 50.0  | 23.5  | 5.85 | 5.35  | 5.07 |
| 18-50- 12 | 6.28  | 7.85   | .00749 | .01226 | .00498 | .00491 | 2.24  | 1.75  | 1.55  | .667 | .0373 | .694 | 38.9  | 18.8  | 41.4  | 20.0  | 6.97 | 6.44  | 6.17 |
| 18-50- 13 | 5.64  | 6.77   | .00747 | .01189 | .00499 | .00492 | 2.13  | 1.75  | 1.54  | .667 | .0387 | .685 | 34.1  | 16.6  | 36.3  | 17.7  | 7.41 | 6.88  | 6.61 |
| 18-50- 14 | 9.13  | 12.19  | .00745 | .01322 | .00457 | .00482 | 2.61  | 1.98  | 1.75  | .667 | .0346 | .716 | 58.4  | 23.2  | 63.3  | 25.1  | 6.00 | 5.51  | 5.05 |
| 18-50- 15 | 8.41  | 10.97  | .00746 | .01300 | .00464 | .00488 | 2.52  | 1.97  | 1.73  | .667 | .0351 | .712 | 53.0  | 21.3  | 57.4  | 23.1  | 6.15 | 5.65  | 5.20 |
| 18-50- 16 | 7.75  | 10.06  | .00753 | .01303 | .00461 | .00484 | 2.49  | 1.97  | 1.73  | .667 | .0353 | .710 | 49.0  | 19.7  | 53.1  | 21.3  | 6.16 | 5.65  | 5.21 |
| 18-50- 17 | 7.07  | 8.63   | .00736 | .01217 | .00464 | .00489 | 2.29  | 1.97  | 1.72  | .667 | .0367 | .697 | 42.6  | 17.4  | 46.0  | 18.8  | 6.75 | 6.23  | 5.78 |
| 18-50- 18 | 6.32  | 7.25   | .00728 | .01150 | .00464 | .00487 | 2.12  | 1.97  | 1.69  | .667 | .0385 | .684 | 36.4  | 15.3  | 39.3  | 16.5  | 7.42 | 6.88  | 6.44 |
| 18-50- 19 | 5.69  | 5.78   | .00699 | .01011 | .00465 | .00490 | 1.84  | 1.98  | 1.66  | .667 | .0421 | .661 | 29.8  | 12.8  | 32.1  | 13.8  | 8.74 | 8.17  | 7.72 |
| 18-50- 20 | 9.03  | 10.61  | .00708 | .01176 | .00431 | .00486 | 2.34  | 2.22  | 1.88  | .667 | .0367 | .698 | 51.7  | 18.1  | 56.7  | 19.9  | 6.91 | 6.39  | 5.77 |
| 18-50- 21 | 8.31  | 9.61   | .00712 | .01165 | .00430 | .00484 | 2.28  | 2.21  | 1.87  | .667 | .0371 | .694 | 47.2  | 16.7  | 51.7  | 18.3  | 7.00 | 6.48  | 5.86 |
| 18-50- 22 | 7.66  | 8.64   | .00713 | .01145 | .00440 | .00492 | 2.21  | 2.19  | 1.84  | .667 | .0377 | .689 | 42.9  | 15.6  | 46.9  | 17.0  | 7.18 | 6.65  | 6.05 |
| 18-50- 23 | 6.98  | 6.95   | .00680 | .00995 | .00437 | .00491 | 1.90  | 2.21  | 1.81  | .667 | .0406 | .667 | 35.4  | 13.2  | 38.5  | 14.4  | 8.38 | 7.82  | 7.21 |
| 18-50- 24 | 6.25  | 7.20   | .00687 | .01015 | .00439 | .00494 | 1.88  | 2.22  | 1.95  | .667 | .0398 | .674 | 35.4  | 11.6  | 39.0  | 12.8  | 8.22 | 7.67  | 6.93 |
| 18-50- 25 | 5.63  | 4.83   | .00665 | .00872 | .00439 | .00494 | 1.61  | 2.21  | 1.76  | .667 | .0448 | .641 | 25.7  | 10.1  | 27.9  | 11.0  | 9.74 | 9.15  | 8.55 |
| 18-50- 26 | 5.01  | 5.43   | .00622 | .00928 | .00441 | .00497 | 1.66  | 2.23  | 1.91  | .667 | .0426 | .619 | 27.5  | 9.3   | 30.3  | 10.2  | 9.11 | 8.53  | 7.80 |
| 18-50- 27 | 87.46 | 187.05 | .00747 | .01811 | .00368 | .00320 | 5.09  | 1.33  | 1.30  | .667 | .0269 | .813 | 745.4 | 482.7 | 774.4 | 501.5 | 3.53 | 3.13  | 3.13 |
| 18-50- 28 | 79.33 | 168.31 | .00749 | .01802 | .00377 | .00327 | 4.99  | 1.32  | 1.30  | .667 | .0271 | .811 | 674.0 | 439.5 | 699.8 | 456.3 | 3.57 | 3.17  | 3.18 |
| 18-50- 29 | 70.71 | 148.92 | .00757 | .01810 | .00383 | .00333 | 4.92  | 1.33  | 1.30  | .667 | .0272 | .809 | 601.2 | 390.3 | 624.5 | 405.4 | 3.56 | 3.16  | 3.17 |
| 18-50- 30 | 63.81 | 134.37 | .00773 | .01854 | .00395 | .00344 | 4.94  | 1.33  | 1.30  | .667 | .0272 | .809 | 548.6 | 354.3 | 570.1 | 368.2 | 3.43 | 3.03  | 3.04 |
| 18-50- 31 | 56.86 | 118.43 | .00774 | .01839 | .00401 | .00349 | 4.81  | 1.34  | 1.31  | .667 | .0274 | .806 | 486.3 | 312.1 | 505.6 | 324.5 | 3.49 | 3.09  | 3.09 |
| 18-50- 32 | 51.02 | 105.18 | .00777 | .01829 | .00408 | .00356 | 4.70  | 1.34  | 1.31  | .667 | .0275 | .804 | 434.6 | 277.9 | 452.0 | 289.0 | 3.53 | 3.13  | 3.13 |
| 18-50- 33 | 45.79 | 93.15  | .00776 | .01807 | .00415 | .00363 | 4.57  | 1.35  | 1.32  | .667 | .0278 | .800 | 386.9 | 246.2 | 402.7 | 256.2 | 3.63 | 3.22  | 3.22 |
| 18-50- 34 | 41.11 | 82.37  | .00773 | .01778 | .00423 | .00370 | 4.42  | 1.36  | 1.32  | .667 | .0280 | .796 | 343.8 | 217.1 | 358.0 | 226.0 | 3.75 | 3.34  | 3.33 |
| 18-50- 35 | 37.13 | 74.22  | .00786 | .01806 | .00431 | .00378 | 4.41  | 1.35  | 1.32  | .667 | .0281 | .795 | 312.9 | 198.2 | 325.7 | 206.3 | 3.67 | 3.26  | 3.26 |
| 18-50- 36 | 36.53 | 72.67  | .00784 | .01795 | .00436 | .00383 | 4.37  | 1.36  | 1.33  | .667 | .0282 | .794 | 306.5 | 192.6 | 319.3 | 200.6 | 3.71 | 3.30  | 3.29 |
| 18-50- 37 | 33.72 | 66.75  | .00790 | .01800 | .00437 | .00384 | 4.32  | 1.36  | 1.33  | .667 | .0282 | .793 | 283.2 | 177.6 | 295.1 | 185.1 | 3.70 | 3.29  | 3.28 |
| 18-50- 38 | 30.81 | 60.39  | .00793 | .01793 | .00442 | .00389 | 4.24  | 1.37  | 1.33  | .667 | .0284 | .790 | 257.8 | 160.7 | 268.8 | 167.5 | 3.75 | 3.33  | 3.31 |
| 18-50- 39 | 27.56 | 53.36  | .00795 | .01778 | .00454 | .00399 | 4.13  | 1.37  | 1.33  | .667 | .0287 | .787 | 229.3 | 143.2 | 239.1 | 149.3 | 3.81 | 3.39  | 3.38 |
| 18-50- 40 | 24.84 | 47.57  | .00798 | .01768 | .00462 | .00407 | 4.03  | 1.37  | 1.33  | .667 | .0288 | .784 | 205.9 | 128.4 | 214.6 | 133.9 | 3.85 | 3.42  | 3.41 |
| 18-50- 41 | 22.16 | 41.72  | .00797 | .01739 | .00475 | .00419 | 3.89  | 1.38  | 1.33  | .667 | .0292 | .779 | 181.8 | 113.1 | 189.5 | 117.9 | 3.96 | 3.53  | 3.52 |
| 18-50- 42 | 19.96 | 37.20  | .00802 | .01731 | .00472 | .00416 | 3.80  | 1.38  | 1.34  | .667 | .0293 | .777 | 163.3 | 101.3 | 170.3 | 105.6 | 3.99 | 3.56  | 3.55 |
| 18-50- 43 | 17.94 | 32.60  | .00793 | .01674 | .00488 | .00432 | 3.62  | 1.39  | 1.34  | .667 | .0298 | .770 | 143.8 | 89.0  | 150.0 | 92.9  | 4.21 | 3.78  | 3.76 |
| 18-50- 44 | 16.10 | 28.87  | .00794 | .01655 | .00497 | .00439 | 3.51  | 1.39  | 1.33  | .667 | .0301 | .767 | 128.2 | 79.9  | 133.7 | 83.3  | 4.30 | 3.86  | 3.85 |
| 18-50- 45 | 14.49 | 26.17  | .00823 | .01735 | .00511 | .00451 | 3.59  | 1.39  | 1.33  | .667 | .0299 | .769 | 118.0 | 73.4  | 123.1 | 76.5  | 4.04 | 3.60  | 3.60 |
| 18-50- 46 | 14.67 | 25.76  | .00789 | .01611 | .00501 | .00443 | 3.37  | 1.39  | 1.33  | .667 | .0305 | .761 | 115.0 | 72.0  | 119.8 | 75.1  | 4.49 | 4.05  | 4.05 |
| 18-50- 47 | 86.56 | 179.61 | .00747 | .01799 | .00358 | .00333 | 5.08  | 1.55  | 1.50  | .667 | .0271 | .811 | 721.1 | 370.6 | 764.6 | 392.9 | 3.60 | 3.20  | 3.00 |
| 18-50- 48 | 78.57 | 160.62 | .00740 | .01757 | .00363 | .00338 | 4.89  | 1.55  | 1.50  | .667 | .0274 | .806 | 645.9 | 332.2 | 684.8 | 352.2 | 3.74 | 3.34  | 3.14 |
| 18-50- 49 | 70.13 | 141.49 | .00740 | .01740 | .00372 | .00347 | 4.76  | 1.56  | 1.50  | .667 | .0276 | .803 | 572.4 | 292.8 | 607.1 | 310.6 | 3.82 | 3.41  | 3.20 |
| 18-50- 50 | 62.88 | 126.85 | .00759 | .01790 | .00379 | .00355 | 4.80  | 1.57  | 1.51  | .667 | .0276 | .803 | 519.6 | 263.4 | 551.6 | 279.6 | 3.67 | 3.26  | 3.05 |

| VERS.NR. | RE*E4 | Q<KW/M2> | ST1+/<br>ST1*/ | STT+/<br>STT*/ | ST1F/<br>ST1F/ | H+   | G+   | GPRO1 | G*   | G*R  | GT   | GTR  | GTR1 | GTF  | GTRF | X    | YR   | YG   |       |      |
|----------|-------|----------|----------------|----------------|----------------|------|------|-------|------|------|------|------|------|------|------|------|------|------|-------|------|
| 18-50- 1 | 9.29  | 301      | 1.15           | 1.10           | 1.21           | 1.16 | 1.23 | 71.6  | 8.5  | 8.1  | 9.1  | 11.9 | 7.8  | 10.8 | 8.6  | 7.5  | 10.2 | 2.62 | 11.17 | 14.1 |
| 18-50- 2 | 8.51  | 279      | 1.15           | 1.11           | 1.21           | 1.16 | 1.24 | 65.6  | 8.2  | 7.8  | 8.7  | 11.5 | 7.5  | 10.5 | 8.3  | 7.1  | 9.8  | 2.62 | 11.17 | 13.7 |
| 18-50- 3 | 7.86  | 254      | 1.16           | 1.11           | 1.22           | 1.16 | 1.24 | 60.0  | 8.0  | 7.7  | 8.7  | 11.4 | 7.3  | 10.3 | 8.1  | 7.0  | 9.7  | 2.61 | 11.25 | 13.5 |
| 18-50- 4 | 7.17  | 241      | 1.16           | 1.11           | 1.22           | 1.17 | 1.25 | 54.4  | 7.8  | 7.4  | 8.4  | 11.0 | 7.0  | 10.0 | 7.9  | 6.7  | 9.3  | 2.59 | 11.27 | 13.2 |
| 18-50- 5 | 6.37  | 218      | 1.17           | 1.12           | 1.24           | 1.18 | 1.27 | 47.4  | 7.2  | 6.9  | 7.8  | 10.4 | 6.5  | 9.3  | 7.3  | 6.1  | 8.6  | 2.57 | 11.45 | 12.5 |
| 18-50- 6 | 5.75  | 195      | 1.18           | 1.12           | 1.25           | 1.19 | 1.29 | 41.7  | 6.9  | 6.6  | 7.6  | 10.1 | 6.2  | 9.0  | 7.0  | 5.8  | 8.2  | 2.54 | 11.68 | 12.2 |
| 18-50- 7 | 5.14  | 179      | 1.20           | 1.14           | 1.28           | 1.21 | 1.33 | 36.3  | 6.4  | 6.1  | 7.1  | 9.5  | 5.7  | 8.3  | 6.5  | 5.3  | 7.6  | 2.50 | 11.83 | 11.5 |
| 18-50- 8 | 9.12  | 472      | 1.15           | 1.09           | 1.21           | 1.15 | 1.26 | 62.5  | 8.7  | 7.6  | 9.5  | 11.0 | 8.0  | 10.3 | 8.1  | 7.4  | 8.9  | 2.56 | 11.94 | 13.8 |
| 18-50- 9 | 8.34  | 440      | 1.15           | 1.09           | 1.21           | 1.15 | 1.26 | 58.0  | 8.7  | 7.6  | 9.5  | 11.0 | 7.9  | 10.3 | 8.1  | 7.4  | 8.8  | 2.56 | 11.76 | 13.8 |
| 18-50-10 | 7.67  | 410      | 1.16           | 1.10           | 1.22           | 1.15 | 1.27 | 52.1  | 8.4  | 7.3  | 9.2  | 10.6 | 7.7  | 9.9  | 7.8  | 7.1  | 8.4  | 2.54 | 11.98 | 13.4 |
| 18-50-11 | 7.01  | 378      | 1.16           | 1.10           | 1.23           | 1.16 | 1.29 | 46.8  | 8.1  | 7.0  | 8.9  | 10.3 | 7.3  | 9.6  | 7.5  | 6.7  | 8.0  | 2.52 | 12.12 | 13.0 |
| 18-50-12 | 6.28  | 341      | 1.19           | 1.11           | 1.27           | 1.18 | 1.35 | 38.9  | 7.0  | 6.1  | 7.9  | 9.2  | 6.3  | 8.4  | 6.4  | 5.6  | 6.8  | 2.45 | 12.77 | 11.7 |
| 18-50-13 | 5.64  | 308      | 1.20           | 1.12           | 1.28           | 1.19 | 1.38 | 34.1  | 6.7  | 5.9  | 7.6  | 8.8  | 6.0  | 8.0  | 6.1  | 5.2  | 6.4  | 2.41 | 12.97 | 11.2 |
| 18-50-14 | 9.13  | 596      | 1.14           | 1.09           | 1.20           | 1.14 | 1.27 | 58.4  | 9.3  | 7.6  | 10.1 | 10.6 | 8.5  | 10.4 | 8.1  | 7.6  | 8.1  | 2.52 | 12.30 | 13.9 |
| 18-50-15 | 8.41  | 556      | 1.15           | 1.09           | 1.21           | 1.14 | 1.29 | 53.0  | 8.9  | 7.3  | 9.7  | 10.2 | 8.1  | 9.9  | 7.7  | 7.2  | 7.7  | 2.51 | 12.40 | 13.5 |
| 18-50-16 | 7.75  | 509      | 1.15           | 1.09           | 1.21           | 1.14 | 1.29 | 49.0  | 9.0  | 7.4  | 9.8  | 10.4 | 8.3  | 10.1 | 7.9  | 7.4  | 7.9  | 2.50 | 12.39 | 13.6 |
| 18-50-17 | 7.07  | 471      | 1.16           | 1.09           | 1.23           | 1.15 | 1.32 | 42.6  | 8.3  | 6.8  | 9.2  | 9.6  | 7.5  | 9.3  | 7.2  | 6.6  | 7.0  | 2.46 | 12.82 | 12.7 |
| 18-50-18 | 6.32  | 417      | 1.17           | 1.10           | 1.24           | 1.16 | 1.36 | 36.4  | 7.8  | 6.4  | 8.7  | 9.2  | 7.1  | 8.8  | 6.8  | 6.0  | 6.5  | 2.41 | 13.19 | 12.0 |
| 18-50-19 | 5.69  | 384      | 1.21           | 1.12           | 1.29           | 1.19 | 1.44 | 29.8  | 6.8  | 5.6  | 7.8  | 8.1  | 6.0  | 7.7  | 5.8  | 4.8  | 5.1  | 2.32 | 14.07 | 10.6 |
| 18-50-20 | 9.03  | 724      | 1.14           | 1.08           | 1.20           | 1.13 | 1.31 | 51.7  | 9.5  | 7.3  | 10.4 | 9.8  | 8.7  | 10.0 | 7.7  | 7.4  | 7.0  | 2.46 | 13.04 | 13.6 |
| 18-50-21 | 8.31  | 660      | 1.14           | 1.08           | 1.20           | 1.13 | 1.31 | 47.2  | 9.4  | 7.3  | 10.4 | 9.9  | 8.7  | 10.0 | 7.7  | 7.4  | 7.0  | 2.45 | 13.10 | 13.5 |
| 18-50-22 | 7.66  | 611      | 1.15           | 1.08           | 1.21           | 1.14 | 1.33 | 42.9  | 8.9  | 6.9  | 9.8  | 9.4  | 8.1  | 9.5  | 7.3  | 6.9  | 6.5  | 2.43 | 13.22 | 12.9 |
| 18-50-23 | 6.98  | 563      | 1.17           | 1.09           | 1.24           | 1.15 | 1.39 | 35.4  | 7.9  | 6.2  | 8.9  | 8.4  | 7.2  | 8.5  | 6.4  | 5.7  | 5.3  | 2.35 | 14.18 | 11.6 |
| 18-50-24 | 6.25  | 511      | 1.20           | 1.11           | 1.27           | 1.17 | 1.36 | 35.4  | 7.6  | 5.9  | 8.7  | 8.3  | 6.9  | 8.2  | 6.3  | 6.0  | 5.7  | 2.37 | 14.04 | 12.0 |
| 18-50-25 | 5.63  | 460      | 1.20           | 1.11           | 1.28           | 1.17 | 1.49 | 25.7  | 6.9  | 5.3  | 8.0  | 7.4  | 6.1  | 7.4  | 5.4  | 4.5  | 4.0  | 2.24 | 15.14 | 10.1 |
| 18-50-26 | 5.01  | 416      | 1.22           | 1.12           | 1.30           | 1.19 | 1.81 | 27.5  | 4.2  | 5.3  | 8.0  | 7.5  | 6.1  | 7.5  | 5.6  | 2.8  | 2.5  | 2.30 | 14.68 | 8.5  |
| 18-50-27 | 87.46 | 1521     | 1.09           | 1.07           | 1.13           | 1.10 | 1.12 | 745.4 | 16.7 | 16.7 | 17.2 | 22.2 | 16.0 | 21.1 | 17.3 | 16.2 | 21.1 | 2.80 | 10.51 | 23.2 |
| 18-50-28 | 79.33 | 1402     | 1.09           | 1.07           | 1.13           | 1.10 | 1.12 | 674.0 | 16.0 | 16.1 | 16.6 | 21.5 | 15.3 | 20.4 | 16.7 | 15.5 | 20.3 | 2.80 | 10.53 | 22.5 |
| 18-50-29 | 70.71 | 1295     | 1.10           | 1.07           | 1.13           | 1.10 | 1.12 | 601.2 | 15.6 | 15.7 | 16.2 | 21.0 | 14.9 | 19.9 | 16.3 | 15.2 | 19.9 | 2.79 | 10.51 | 22.1 |
| 18-50-30 | 63.81 | 1223     | 1.10           | 1.07           | 1.13           | 1.10 | 1.12 | 548.6 | 15.2 | 15.2 | 15.8 | 20.4 | 14.5 | 19.4 | 15.9 | 14.7 | 19.3 | 2.79 | 10.39 | 21.7 |
| 18-50-31 | 56.86 | 1127     | 1.10           | 1.07           | 1.14           | 1.11 | 1.13 | 486.3 | 14.8 | 14.8 | 15.4 | 19.9 | 14.1 | 18.8 | 15.4 | 14.2 | 18.7 | 2.79 | 10.43 | 21.2 |
| 18-50-32 | 51.02 | 1044     | 1.10           | 1.07           | 1.14           | 1.11 | 1.13 | 434.6 | 14.3 | 14.3 | 14.9 | 19.3 | 13.6 | 18.2 | 14.9 | 13.7 | 18.1 | 2.78 | 10.46 | 20.7 |
| 18-50-33 | 45.79 | 972      | 1.10           | 1.07           | 1.14           | 1.11 | 1.14 | 386.9 | 13.8 | 13.7 | 14.4 | 18.6 | 13.1 | 17.6 | 14.3 | 13.2 | 17.4 | 2.77 | 10.52 | 20.1 |
| 18-50-34 | 41.11 | 912      | 1.11           | 1.08           | 1.15           | 1.11 | 1.14 | 343.8 | 13.3 | 13.1 | 13.8 | 17.9 | 12.5 | 16.9 | 13.7 | 12.6 | 16.7 | 2.76 | 10.61 | 19.5 |
| 18-50-35 | 37.13 | 831      | 1.11           | 1.08           | 1.15           | 1.12 | 1.15 | 312.9 | 13.0 | 12.9 | 13.5 | 17.6 | 12.3 | 16.6 | 13.5 | 12.3 | 16.4 | 2.76 | 10.52 | 19.2 |
| 18-50-36 | 36.53 | 848      | 1.11           | 1.08           | 1.15           | 1.12 | 1.15 | 306.5 | 12.7 | 12.6 | 13.3 | 17.2 | 12.0 | 16.2 | 13.2 | 12.0 | 16.0 | 2.75 | 10.56 | 18.9 |
| 18-50-37 | 33.72 | 791      | 1.11           | 1.08           | 1.15           | 1.12 | 1.15 | 283.2 | 12.7 | 12.6 | 13.2 | 17.2 | 12.0 | 16.2 | 13.2 | 12.0 | 15.9 | 2.75 | 10.54 | 18.9 |
| 18-50-38 | 30.81 | 745      | 1.11           | 1.08           | 1.16           | 1.12 | 1.15 | 257.8 | 12.4 | 12.3 | 13.0 | 16.8 | 11.7 | 15.8 | 12.9 | 11.7 | 15.5 | 2.74 | 10.56 | 18.6 |
| 18-50-39 | 27.56 | 685      | 1.11           | 1.08           | 1.16           | 1.12 | 1.16 | 229.3 | 11.8 | 11.6 | 12.3 | 16.1 | 11.1 | 15.1 | 12.2 | 11.1 | 14.8 | 2.73 | 10.61 | 17.9 |
| 18-50-40 | 24.84 | 633      | 1.12           | 1.08           | 1.16           | 1.13 | 1.16 | 205.9 | 11.4 | 11.2 | 11.9 | 15.6 | 10.7 | 14.6 | 11.8 | 10.6 | 14.2 | 2.73 | 10.64 | 17.5 |
| 18-50-41 | 22.16 | 588      | 1.12           | 1.09           | 1.17           | 1.13 | 1.17 | 181.8 | 10.7 | 10.5 | 11.3 | 14.8 | 10.0 | 13.8 | 11.1 | 10.0 | 13.4 | 2.71 | 10.72 | 16.7 |
| 18-50-42 | 19.96 | 531      | 1.12           | 1.09           | 1.17           | 1.13 | 1.17 | 163.3 | 10.8 | 10.6 | 11.4 | 14.9 | 10.1 | 13.8 | 11.2 | 10.0 | 13.5 | 2.71 | 10.75 | 16.8 |
| 18-50-43 | 17.94 | 502      | 1.13           | 1.09           | 1.18           | 1.14 | 1.19 | 143.8 | 9.9  | 9.7  | 10.4 | 13.7 | 9.1  | 12.7 | 10.2 | 9.1  | 12.3 | 2.69 | 10.93 | 15.8 |
| 18-50-44 | 16.10 | 456      | 1.13           | 1.09           | 1.19           | 1.14 | 1.20 | 128.2 | 9.4  | 9.3  | 10.0 | 13.3 | 8.7  | 12.2 | 9.8  | 8.6  | 11.8 | 2.68 | 10.99 | 15.3 |
| 18-50-45 | 14.49 | 424      | 1.13           | 1.10           | 1.19           | 1.14 | 1.20 | 118.0 | 9.4  | 9.2  | 9.9  | 13.1 | 8.7  | 12.1 | 9.7  | 8.5  | 11.7 | 2.69 | 10.74 | 15.3 |
| 18-50-46 | 14.67 | 420      | 1.14           | 1.10           | 1.20           | 1.15 | 1.20 | 115.0 | 9.0  | 8.8  | 9.7  | 12.8 | 8.3  | 11.7 | 9.3  | 8.2  | 11.3 | 2.66 | 11.14 | 14.9 |
| 18-50-47 | 86.56 | 2528     | 1.09           | 1.06           | 1.12           | 1.09 | 1.12 | 721.1 | 17.3 | 16.1 | 18.0 | 21.7 | 16.6 | 20.9 | 17.1 | 16.8 | 20.3 | 2.79 | 10.54 | 23.7 |
| 18-50-48 | 78.57 | 2350     | 1.09           | 1.06           | 1.13           | 1.09 | 1.12 | 645.9 | 16.7 | 15.5 | 17.4 | 20.9 | 15.9 | 20.1 | 16.4 | 16.1 | 19.5 | 2.78 | 10.67 | 23.0 |
| 18-50-49 | 70.13 | 2180     | 1.09           | 1.06           | 1.13           | 1.10 | 1.13 | 572.4 | 16.0 | 14.8 | 16.7 | 20.1 | 15.2 | 19.2 | 15.7 | 15.3 | 18.6 | 2.78 | 10.72 | 22.3 |
| 18-50-50 | 62.88 | 2036     | 1.10           | 1.06           | 1.13           | 1.10 | 1.13 | 519.6 | 15.8 | 14.6 | 16.5 | 19.8 | 15.1 | 19.0 | 15.5 | 15.2 | 18.4 | 2.78 | 10.57 | 22.1 |

## HELIUM

| VERS.NR.  | RE*E4 | RE1*E4 | F      | F1     | STB    | STPR   | F1/F2 | TW/TH | TW/T1 | PR   | H/Y   | BETA | H+    | H+W   | H+R   | H+RW  | RH+  | RH+01 | RH+R |
|-----------|-------|--------|--------|--------|--------|--------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|------|-------|------|
| 18-50-51  | 56.09 | 112.21 | .00766 | .01796 | .00385 | .00362 | 4.73  | 1.58  | 1.52  | .667 | .0277 | .801 | 463.6 | 232.4 | 492.7 | 246.9 | 3.66 | 3.25  | 3.03 |
| 18-50-52  | 50.48 | 99.55  | .00764 | .01770 | .00393 | .00369 | 4.58  | 1.59  | 1.52  | .667 | .0280 | .798 | 413.3 | 207.0 | 439.2 | 220.0 | 3.75 | 3.34  | 3.13 |
| 18-50-53  | 45.38 | 88.07  | .00762 | .01745 | .00398 | .00376 | 4.44  | 1.60  | 1.53  | .667 | .0282 | .794 | 367.7 | 183.2 | 390.9 | 194.8 | 3.87 | 3.45  | 3.23 |
| 18-50-54  | 40.78 | 77.74  | .00758 | .01711 | .00401 | .00380 | 4.29  | 1.61  | 1.53  | .667 | .0285 | .789 | 326.2 | 160.9 | 347.1 | 171.2 | 4.01 | 3.59  | 3.36 |
| 18-50-55  | 36.80 | 69.86  | .00772 | .01744 | .00412 | .00391 | 4.29  | 1.62  | 1.54  | .667 | .0286 | .788 | 296.4 | 145.3 | 315.6 | 154.7 | 3.92 | 3.50  | 3.27 |
| 18-50-56  | 36.26 | 68.32  | .00763 | .01708 | .00407 | .00387 | 4.20  | 1.62  | 1.54  | .667 | .0287 | .786 | 289.1 | 141.7 | 307.9 | 150.8 | 4.03 | 3.61  | 3.37 |
| 18-50-57  | 33.35 | 62.15  | .00764 | .01694 | .00414 | .00394 | 4.11  | 1.62  | 1.54  | .667 | .0289 | .783 | 264.4 | 129.6 | 281.5 | 138.0 | 4.09 | 3.66  | 3.43 |
| 18-50-58  | 30.45 | 56.18  | .00770 | .01699 | .00427 | .00405 | 4.05  | 1.62  | 1.54  | .667 | .0291 | .781 | 241.0 | 118.4 | 256.5 | 126.0 | 4.11 | 3.69  | 3.45 |
| 18-50-59  | 27.25 | 49.51  | .00770 | .01677 | .00430 | .00409 | 3.93  | 1.63  | 1.54  | .667 | .0294 | .777 | 213.8 | 104.7 | 227.6 | 111.5 | 4.20 | 3.77  | 3.53 |
| 18-50-60  | 24.58 | 44.28  | .00779 | .01689 | .00434 | .00414 | 3.88  | 1.64  | 1.55  | .667 | .0295 | .775 | 193.1 | 93.8  | 205.7 | 100.0 | 4.18 | 3.75  | 3.51 |
| 18-50-61  | 21.93 | 38.65  | .00775 | .01649 | .00446 | .00427 | 3.73  | 1.64  | 1.55  | .667 | .0299 | .770 | 169.6 | 82.5  | 180.7 | 87.9  | 4.32 | 3.88  | 3.65 |
| 18-50-62  | 19.71 | 34.33  | .00779 | .01640 | .00454 | .00433 | 3.64  | 1.64  | 1.54  | .667 | .0301 | .767 | 151.8 | 74.5  | 161.6 | 79.3  | 4.37 | 3.92  | 3.70 |
| 18-50-63  | 17.61 | 30.09  | .00779 | .01615 | .00460 | .00440 | 3.51  | 1.64  | 1.54  | .667 | .0305 | .763 | 134.2 | 65.7  | 142.9 | 69.9  | 4.48 | 4.03  | 3.80 |
| 18-50-64  | 15.89 | 26.84  | .00784 | .01608 | .00467 | .00446 | 3.43  | 1.64  | 1.54  | .667 | .0307 | .760 | 120.6 | 59.4  | 128.4 | 63.3  | 4.52 | 4.07  | 3.85 |
| 18-50-65  | 14.33 | 23.94  | .00793 | .01618 | .00474 | .00455 | 3.39  | 1.65  | 1.55  | .667 | .0309 | .758 | 108.8 | 53.0  | 115.9 | 56.5  | 4.50 | 4.05  | 3.82 |
| 18-50-66  | 14.48 | 23.84  | .00776 | .01558 | .00473 | .00452 | 3.28  | 1.64  | 1.53  | .667 | .0312 | .754 | 107.7 | 53.2  | 114.6 | 56.6  | 4.74 | 4.28  | 4.06 |
| 18-50-67  | 13.40 | 21.53  | .00771 | .01521 | .00480 | .00460 | 3.16  | 1.65  | 1.54  | .667 | .0316 | .748 | 97.9  | 48.3  | 104.2 | 51.4  | 4.93 | 4.47  | 4.24 |
| 18-50-68  | 85.85 | 173.87 | .00741 | .01768 | .00341 | .00333 | 5.00  | 1.71  | 1.64  | .667 | .0274 | .807 | 700.2 | 310.4 | 752.1 | 333.4 | 3.74 | 3.34  | 3.00 |
| 18-50-69  | 77.61 | 154.58 | .00732 | .01719 | .00342 | .00335 | 4.80  | 1.72  | 1.64  | .667 | .0277 | .803 | 623.0 | 274.9 | 669.5 | 295.4 | 3.90 | 3.49  | 3.15 |
| 18-50-70  | 68.88 | 135.13 | .00733 | .01702 | .00348 | .00342 | 4.67  | 1.74  | 1.65  | .667 | .0279 | .799 | 548.4 | 239.6 | 589.8 | 257.7 | 3.98 | 3.57  | 3.22 |
| 18-50-71  | 62.25 | 121.77 | .00744 | .01729 | .00355 | .00350 | 4.65  | 1.74  | 1.66  | .667 | .0279 | .798 | 498.9 | 217.1 | 536.7 | 233.6 | 3.89 | 3.48  | 3.13 |
| 18-50-72  | 55.49 | 107.09 | .00747 | .01719 | .00363 | .00360 | 4.55  | 1.76  | 1.67  | .667 | .0281 | .795 | 442.1 | 190.2 | 476.1 | 204.8 | 3.93 | 3.52  | 3.16 |
| 18-50-73  | 50.01 | 94.77  | .00742 | .01683 | .00368 | .00365 | 4.38  | 1.77  | 1.67  | .667 | .0284 | .791 | 393.0 | 167.9 | 423.5 | 180.9 | 4.08 | 3.66  | 3.29 |
| 18-50-74  | 44.95 | 83.56  | .00739 | .01653 | .00372 | .00371 | 4.24  | 1.79  | 1.68  | .667 | .0288 | .786 | 348.5 | 147.5 | 375.9 | 159.1 | 4.21 | 3.79  | 3.41 |
| 18-50-75  | 39.21 | 71.02  | .00736 | .01619 | .00379 | .00380 | 4.06  | 1.81  | 1.69  | .667 | .0292 | .780 | 298.9 | 125.2 | 322.6 | 135.1 | 4.40 | 3.97  | 3.58 |
| 18-50-76  | 36.51 | 66.31  | .00748 | .01649 | .00388 | .00388 | 4.08  | 1.80  | 1.69  | .667 | .0291 | .781 | 281.1 | 118.7 | 303.3 | 128.1 | 4.27 | 3.85  | 3.47 |
| 18-50-77  | 36.01 | 66.00  | .00762 | .01697 | .00387 | .00388 | 4.18  | 1.81  | 1.70  | .667 | .0290 | .784 | 281.4 | 117.4 | 303.9 | 126.7 | 4.11 | 3.68  | 3.30 |
| 18-50-78  | 33.24 | 59.79  | .00755 | .01657 | .00391 | .00394 | 4.04  | 1.81  | 1.70  | .667 | .0293 | .779 | 255.7 | 106.6 | 276.2 | 115.2 | 4.28 | 3.85  | 3.46 |
| 18-50-79  | 30.28 | 54.07  | .00762 | .01664 | .00397 | .00400 | 3.99  | 1.82  | 1.70  | .667 | .0294 | .777 | 233.1 | 97.0  | 251.7 | 104.8 | 4.24 | 3.81  | 3.43 |
| 18-50-80  | 27.07 | 47.40  | .00760 | .01634 | .00408 | .00410 | 3.85  | 1.81  | 1.69  | .667 | .0298 | .773 | 205.7 | 86.5  | 222.0 | 93.4  | 4.38 | 3.94  | 3.57 |
| 18-50-81  | 24.36 | 42.58  | .00778 | .01679 | .00416 | .00419 | 3.87  | 1.82  | 1.70  | .667 | .0298 | .773 | 187.2 | 78.1  | 202.1 | 84.4  | 4.25 | 3.81  | 3.44 |
| 18-50-82  | 21.75 | 36.83  | .00767 | .01611 | .00421 | .00426 | 3.65  | 1.84  | 1.70  | .667 | .0303 | .765 | 162.7 | 67.5  | 175.8 | 72.9  | 4.50 | 4.06  | 3.67 |
| 18-50-83  | 19.58 | 32.58  | .00766 | .01587 | .00434 | .00438 | 3.54  | 1.82  | 1.69  | .667 | .0306 | .761 | 145.0 | 61.2  | 156.4 | 66.1  | 4.60 | 4.15  | 3.78 |
| 18-50-84  | 17.54 | 28.95  | .00777 | .01601 | .00443 | .00447 | 3.50  | 1.83  | 1.69  | .667 | .0307 | .759 | 130.2 | 55.0  | 140.5 | 59.3  | 4.55 | 4.10  | 3.74 |
| 18-50-85  | 15.72 | 25.67  | .00783 | .01601 | .00452 | .00455 | 3.43  | 1.81  | 1.67  | .667 | .0309 | .757 | 116.5 | 49.8  | 125.6 | 53.7  | 4.57 | 4.12  | 3.76 |
| 18-50-86  | 14.20 | 22.96  | .00795 | .01617 | .00456 | .00461 | 3.39  | 1.83  | 1.68  | .667 | .0311 | .755 | 105.4 | 44.6  | 113.7 | 48.1  | 4.54 | 4.08  | 3.73 |
| 18-50-87  | 14.46 | 22.42  | .00759 | .01487 | .00448 | .00455 | 3.16  | 1.85  | 1.69  | .667 | .0319 | .745 | 102.1 | 43.1  | 110.1 | 46.4  | 5.08 | 4.62  | 4.24 |
| 18-50-88  | 13.32 | 20.48  | .00764 | .01488 | .00456 | .00462 | 3.11  | 1.84  | 1.68  | .667 | .0321 | .743 | 94.0  | 40.1  | 101.3 | 43.2  | 5.09 | 4.63  | 4.26 |
| 18-50-89  | 12.19 | 18.41  | .00765 | .01469 | .00460 | .00466 | 3.02  | 1.85  | 1.68  | .667 | .0324 | .739 | 85.2  | 36.3  | 91.8  | 39.1  | 5.19 | 4.72  | 4.35 |
| 18-50-90  | 10.86 | 15.78  | .00759 | .01415 | .00467 | .00475 | 2.86  | 1.85  | 1.67  | .667 | .0332 | .731 | 73.8  | 31.6  | 79.5  | 34.0  | 5.49 | 5.01  | 4.63 |
| 18-50-91  | 9.82  | 13.59  | .00744 | .01334 | .00475 | .00482 | 2.65  | 1.85  | 1.65  | .667 | .0343 | .720 | 64.2  | 28.0  | 69.0  | 30.2  | 5.99 | 5.50  | 5.12 |
| 18-50-92  | 87.90 | 173.36 | .00729 | .01719 | .00315 | .00328 | 4.90  | 1.93  | 1.82  | .667 | .0276 | .804 | 697.7 | 259.7 | 761.0 | 283.3 | 3.91 | 3.51  | 3.01 |
| 18-50-93  | 80.25 | 155.22 | .00719 | .01667 | .00317 | .00331 | 4.70  | 1.94  | 1.83  | .667 | .0279 | .799 | 625.0 | 231.4 | 682.0 | 252.5 | 4.10 | 3.69  | 3.18 |
| 18-50-94  | 70.88 | 134.77 | .00717 | .01643 | .00325 | .00339 | 4.55  | 1.94  | 1.82  | .667 | .0282 | .795 | 546.2 | 202.5 | 595.9 | 221.0 | 4.21 | 3.79  | 3.29 |
| 18-50-95  | 63.60 | 120.60 | .00734 | .01684 | .00328 | .00346 | 4.57  | 1.97  | 1.85  | .667 | .0282 | .795 | 494.9 | 179.4 | 541.1 | 196.2 | 4.08 | 3.67  | 3.15 |
| 18-50-96  | 56.78 | 106.34 | .00735 | .01674 | .00340 | .00358 | 4.47  | 1.97  | 1.84  | .667 | .0284 | .792 | 439.4 | 160.4 | 480.2 | 175.3 | 4.11 | 3.70  | 3.19 |
| 18-50-97  | 51.17 | 93.75  | .00728 | .01630 | .00343 | .00363 | 4.29  | 1.99  | 1.85  | .667 | .0288 | .786 | 389.0 | 140.6 | 425.4 | 153.8 | 4.29 | 3.87  | 3.34 |
| 18-50-98  | 45.90 | 82.63  | .00729 | .01614 | .00350 | .00371 | 4.17  | 2.00  | 1.86  | .667 | .0291 | .782 | 345.6 | 124.3 | 378.1 | 136.0 | 4.39 | 3.96  | 3.43 |
| 18-50-99  | 41.36 | 72.28  | .00717 | .01552 | .00356 | .00379 | 3.96  | 2.01  | 1.86  | .667 | .0296 | .775 | 303.4 | 109.3 | 331.9 | 119.6 | 4.66 | 4.23  | 3.68 |
| 18-50-100 | 37.25 | 65.03  | .00735 | .01598 | .00366 | .00390 | 3.99  | 2.01  | 1.86  | .667 | .0296 | .776 | 276.5 | 99.3  | 302.6 | 108.7 | 4.51 | 4.08  | 3.55 |

| VERS.NR.  | RE*E4 | Q<KW/M2> | ST1+/<br>ST1*/* | STT+/<br>STT*/* | STIF/<br>STIF*/* | H+   | G+   | GPR01 | G*   | G*R  | GT   | GTR  | GTR1 | GTF  | GTR  | X    | YR   | YG   |       |      |
|-----------|-------|----------|-----------------|-----------------|------------------|------|------|-------|------|------|------|------|------|------|------|------|------|------|-------|------|
| 18-50- 51 | 56.09 | 1889     | 1.10            | 1.06            | 1.13             | 1.10 | 1.13 | 463.6 | 15.5 | 14.3 | 16.2 | 19.4 | 14.8 | 18.7 | 15.2 | 14.8 | 17.9 | 2.77 | 10.55 | 21.8 |
| 18-50- 52 | 50.48 | 1739     | 1.10            | 1.06            | 1.14             | 1.10 | 1.14 | 413.3 | 14.9 | 13.7 | 15.6 | 18.6 | 14.2 | 17.9 | 14.6 | 14.2 | 17.2 | 2.76 | 10.63 | 21.1 |
| 18-50- 53 | 45.38 | 1609     | 1.10            | 1.07            | 1.14             | 1.10 | 1.14 | 367.7 | 14.4 | 13.2 | 15.1 | 18.0 | 13.7 | 17.3 | 14.1 | 13.7 | 16.5 | 2.75 | 10.71 | 20.5 |
| 18-50- 54 | 40.78 | 1492     | 1.10            | 1.07            | 1.14             | 1.11 | 1.15 | 326.2 | 14.1 | 12.8 | 14.7 | 17.5 | 13.3 | 16.8 | 13.7 | 13.3 | 16.0 | 2.74 | 10.81 | 20.1 |
| 18-50- 55 | 36.80 | 1400     | 1.11            | 1.07            | 1.15             | 1.11 | 1.15 | 296.4 | 13.7 | 12.4 | 14.4 | 17.1 | 13.0 | 16.4 | 13.3 | 12.9 | 15.5 | 2.74 | 10.71 | 19.7 |
| 18-50- 56 | 36.26 | 1364     | 1.11            | 1.07            | 1.15             | 1.11 | 1.15 | 289.1 | 13.7 | 12.4 | 14.4 | 17.1 | 13.0 | 16.4 | 13.3 | 12.9 | 15.5 | 2.73 | 10.82 | 19.7 |
| 18-50- 57 | 33.35 | 1287     | 1.11            | 1.07            | 1.15             | 1.11 | 1.16 | 264.4 | 13.3 | 12.0 | 13.9 | 16.6 | 12.5 | 15.9 | 12.8 | 12.4 | 15.0 | 2.72 | 10.86 | 19.2 |
| 18-50- 58 | 30.45 | 1213     | 1.11            | 1.07            | 1.15             | 1.11 | 1.16 | 241.0 | 12.6 | 11.5 | 13.3 | 15.9 | 11.9 | 15.2 | 12.3 | 11.8 | 14.3 | 2.72 | 10.85 | 18.6 |
| 18-50- 59 | 27.25 | 1104     | 1.11            | 1.07            | 1.16             | 1.12 | 1.17 | 213.8 | 12.4 | 11.2 | 13.1 | 15.5 | 11.6 | 14.8 | 12.0 | 11.5 | 13.9 | 2.71 | 10.92 | 18.2 |
| 18-50- 60 | 24.58 | 1020     | 1.11            | 1.08            | 1.16             | 1.12 | 1.17 | 193.1 | 12.3 | 11.1 | 12.9 | 15.4 | 11.5 | 14.7 | 11.8 | 11.3 | 13.7 | 2.70 | 10.88 | 18.1 |
| 18-50- 61 | 21.93 | 946      | 1.12            | 1.08            | 1.17             | 1.12 | 1.18 | 169.6 | 11.5 | 10.3 | 12.2 | 14.5 | 10.8 | 13.8 | 11.1 | 10.5 | 12.8 | 2.69 | 11.01 | 17.2 |
| 18-50- 62 | 19.71 | 859      | 1.12            | 1.08            | 1.17             | 1.12 | 1.19 | 151.8 | 11.1 | 10.0 | 11.8 | 14.1 | 10.4 | 13.4 | 10.7 | 10.1 | 12.3 | 2.68 | 11.04 | 16.8 |
| 18-50- 63 | 17.61 | 790      | 1.13            | 1.08            | 1.18             | 1.13 | 1.19 | 134.2 | 10.7 | 9.6  | 11.4 | 13.6 | 10.0 | 12.9 | 10.3 | 9.7  | 11.8 | 2.67 | 11.13 | 16.4 |
| 18-50- 64 | 15.89 | 717      | 1.13            | 1.08            | 1.18             | 1.13 | 1.20 | 120.6 | 10.4 | 9.4  | 11.1 | 13.3 | 9.7  | 12.6 | 10.0 | 9.4  | 11.5 | 2.66 | 11.15 | 16.0 |
| 18-50- 65 | 14.33 | 676      | 1.13            | 1.09            | 1.18             | 1.13 | 1.21 | 108.8 | 10.2 | 9.1  | 10.8 | 12.9 | 9.4  | 12.3 | 9.8  | 9.1  | 11.1 | 2.65 | 11.12 | 15.7 |
| 18-50- 66 | 14.48 | 672      | 1.13            | 1.09            | 1.19             | 1.14 | 1.21 | 107.7 | 9.9  | 8.9  | 10.6 | 12.7 | 9.2  | 11.9 | 9.5  | 8.8  | 10.9 | 2.64 | 11.33 | 15.4 |
| 18-50- 67 | 13.40 | 640      | 1.14            | 1.09            | 1.20             | 1.14 | 1.22 | 97.9  | 9.4  | 8.4  | 10.1 | 12.1 | 8.7  | 11.3 | 9.0  | 8.3  | 10.2 | 2.62 | 11.47 | 14.9 |
| 18-50- 68 | 85.85 | 3210     | 1.09            | 1.05            | 1.12             | 1.08 | 1.12 | 700.2 | 18.4 | 16.2 | 19.2 | 21.9 | 17.7 | 21.3 | 17.4 | 17.7 | 20.3 | 2.78 | 10.64 | 24.6 |
| 18-50- 69 | 77.61 | 2964     | 1.09            | 1.05            | 1.12             | 1.08 | 1.12 | 623.0 | 18.0 | 15.8 | 18.8 | 21.4 | 17.2 | 20.8 | 17.0 | 17.2 | 19.8 | 2.77 | 10.79 | 24.2 |
| 18-50- 70 | 68.88 | 2737     | 1.09            | 1.05            | 1.12             | 1.09 | 1.13 | 548.4 | 17.4 | 15.3 | 18.2 | 20.6 | 16.7 | 20.1 | 16.4 | 16.6 | 19.0 | 2.76 | 10.84 | 23.5 |
| 18-50- 71 | 62.25 | 2544     | 1.09            | 1.06            | 1.12             | 1.09 | 1.13 | 494.9 | 17.1 | 15.0 | 17.9 | 20.2 | 16.4 | 19.8 | 16.1 | 16.3 | 18.6 | 2.76 | 10.76 | 23.2 |
| 18-50- 72 | 55.49 | 2372     | 1.09            | 1.06            | 1.13             | 1.09 | 1.13 | 442.1 | 16.5 | 14.4 | 17.3 | 19.5 | 15.8 | 19.0 | 15.5 | 15.7 | 17.8 | 2.75 | 10.79 | 22.6 |
| 18-50- 73 | 50.01 | 2193     | 1.09            | 1.06            | 1.13             | 1.09 | 1.14 | 393.0 | 16.0 | 13.9 | 16.7 | 18.8 | 15.2 | 18.4 | 14.9 | 15.1 | 17.1 | 2.74 | 10.90 | 21.9 |
| 18-50- 74 | 44.95 | 2032     | 1.10            | 1.06            | 1.13             | 1.10 | 1.14 | 348.5 | 15.5 | 13.4 | 16.2 | 18.2 | 14.7 | 17.8 | 14.4 | 14.6 | 16.5 | 2.73 | 11.00 | 21.4 |
| 18-50- 75 | 39.21 | 1843     | 1.10            | 1.06            | 1.14             | 1.10 | 1.15 | 298.9 | 14.8 | 12.7 | 15.6 | 17.3 | 14.1 | 17.0 | 13.7 | 13.8 | 15.5 | 2.71 | 11.11 | 20.6 |
| 18-50- 76 | 36.51 | 1737     | 1.10            | 1.06            | 1.14             | 1.10 | 1.15 | 281.1 | 14.5 | 12.5 | 15.2 | 17.0 | 13.7 | 16.6 | 13.4 | 13.5 | 15.2 | 2.71 | 11.01 | 20.3 |
| 18-50- 77 | 36.01 | 1729     | 1.10            | 1.06            | 1.14             | 1.10 | 1.15 | 281.4 | 14.9 | 12.8 | 15.6 | 17.4 | 14.1 | 17.0 | 13.8 | 13.9 | 15.6 | 2.72 | 10.85 | 20.7 |
| 18-50- 78 | 33.24 | 1634     | 1.10            | 1.06            | 1.14             | 1.10 | 1.16 | 255.7 | 14.3 | 12.3 | 15.1 | 16.7 | 13.6 | 16.4 | 13.2 | 13.3 | 15.0 | 2.71 | 10.99 | 20.1 |
| 18-50- 79 | 30.28 | 1522     | 1.10            | 1.06            | 1.14             | 1.10 | 1.16 | 233.1 | 14.1 | 12.1 | 14.8 | 16.4 | 13.3 | 16.1 | 13.0 | 13.0 | 14.6 | 2.70 | 10.96 | 19.8 |
| 18-50- 80 | 27.07 | 1387     | 1.11            | 1.07            | 1.15             | 1.11 | 1.17 | 205.7 | 13.3 | 11.4 | 14.0 | 15.6 | 12.5 | 15.2 | 12.3 | 12.2 | 13.8 | 2.69 | 11.06 | 18.9 |
| 18-50- 81 | 24.36 | 1288     | 1.11            | 1.07            | 1.15             | 1.11 | 1.17 | 187.2 | 13.2 | 11.3 | 13.9 | 15.4 | 12.4 | 15.1 | 12.1 | 12.1 | 13.6 | 2.69 | 10.91 | 18.8 |
| 18-50- 82 | 21.75 | 1189     | 1.11            | 1.07            | 1.16             | 1.11 | 1.18 | 162.7 | 12.5 | 10.7 | 13.3 | 14.7 | 11.8 | 14.3 | 11.5 | 11.4 | 12.7 | 2.67 | 11.14 | 18.1 |
| 18-50- 83 | 19.58 | 1089     | 1.12            | 1.07            | 1.16             | 1.12 | 1.19 | 145.0 | 11.7 | 10.0 | 12.4 | 13.9 | 11.0 | 13.5 | 10.8 | 10.6 | 11.9 | 2.66 | 11.22 | 17.2 |
| 18-50- 84 | 17.54 | 1006     | 1.12            | 1.08            | 1.17             | 1.12 | 1.20 | 130.2 | 11.4 | 9.8  | 12.2 | 13.5 | 10.7 | 13.2 | 10.5 | 10.3 | 11.6 | 2.66 | 11.18 | 16.9 |
| 18-50- 85 | 15.72 | 910      | 1.12            | 1.08            | 1.17             | 1.12 | 1.20 | 116.5 | 11.0 | 9.5  | 11.7 | 13.1 | 10.3 | 12.8 | 10.2 | 9.8  | 11.2 | 2.65 | 11.18 | 16.5 |
| 18-50- 86 | 14.20 | 850      | 1.12            | 1.08            | 1.17             | 1.12 | 1.21 | 105.4 | 10.9 | 9.3  | 11.7 | 13.0 | 10.2 | 12.6 | 10.1 | 9.7  | 11.0 | 2.64 | 11.12 | 16.3 |
| 18-50- 87 | 14.46 | 860      | 1.13            | 1.08            | 1.18             | 1.13 | 1.22 | 102.1 | 10.5 | 8.9  | 11.3 | 12.5 | 9.8  | 12.1 | 9.6  | 9.3  | 10.4 | 2.61 | 11.60 | 15.8 |
| 18-50- 88 | 13.32 | 796      | 1.13            | 1.08            | 1.19             | 1.13 | 1.22 | 94.0  | 10.2 | 8.7  | 11.0 | 12.2 | 9.5  | 11.8 | 9.3  | 8.9  | 10.1 | 2.61 | 11.59 | 15.5 |
| 18-50- 89 | 12.19 | 744      | 1.14            | 1.08            | 1.19             | 1.13 | 1.23 | 85.2  | 10.0 | 8.5  | 10.8 | 11.9 | 9.2  | 11.5 | 9.1  | 8.7  | 9.8  | 2.60 | 11.67 | 15.2 |
| 18-50- 90 | 10.86 | 680      | 1.14            | 1.09            | 1.20             | 1.14 | 1.25 | 73.8  | 9.4  | 7.9  | 10.2 | 11.3 | 8.6  | 10.8 | 8.5  | 8.0  | 9.0  | 2.57 | 11.89 | 14.4 |
| 18-50- 91 | 9.82  | 621      | 1.15            | 1.09            | 1.22             | 1.15 | 1.28 | 64.2  | 8.5  | 7.3  | 9.4  | 10.4 | 7.8  | 9.9  | 7.7  | 7.2  | 8.1  | 2.54 | 12.24 | 13.5 |
| 18-50- 92 | 87.90 | 3838     | 1.08            | 1.05            | 1.11             | 1.07 | 1.11 | 697.7 | 20.3 | 16.9 | 21.2 | 22.6 | 19.6 | 22.5 | 18.4 | 19.5 | 20.8 | 2.77 | 10.79 | 26.4 |
| 18-50- 93 | 80.25 | 3613     | 1.08            | 1.04            | 1.11             | 1.07 | 1.12 | 625.0 | 19.8 | 16.4 | 20.6 | 21.9 | 19.0 | 21.8 | 17.8 | 18.8 | 20.1 | 2.76 | 10.95 | 25.7 |
| 18-50- 94 | 70.88 | 3305     | 1.08            | 1.05            | 1.11             | 1.08 | 1.12 | 546.2 | 18.9 | 15.7 | 19.8 | 21.0 | 18.2 | 20.9 | 17.0 | 18.0 | 19.2 | 2.75 | 11.03 | 24.9 |
| 18-50- 95 | 63.60 | 3111     | 1.08            | 1.05            | 1.11             | 1.08 | 1.13 | 494.9 | 18.9 | 15.6 | 19.8 | 20.8 | 18.2 | 20.8 | 16.9 | 18.0 | 19.0 | 2.75 | 10.90 | 24.8 |
| 18-50- 96 | 56.78 | 2872     | 1.08            | 1.05            | 1.12             | 1.08 | 1.13 | 439.4 | 18.0 | 14.8 | 18.8 | 19.8 | 17.2 | 19.8 | 16.0 | 16.9 | 17.9 | 2.74 | 10.93 | 23.8 |
| 18-50- 97 | 51.17 | 2662     | 1.09            | 1.05            | 1.12             | 1.08 | 1.14 | 389.0 | 17.4 | 14.3 | 18.2 | 19.1 | 16.7 | 19.1 | 15.5 | 16.3 | 17.2 | 2.73 | 11.08 | 23.2 |
| 18-50- 98 | 45.90 | 2466     | 1.09            | 1.05            | 1.12             | 1.09 | 1.14 | 345.6 | 16.8 | 13.7 | 17.6 | 18.4 | 16.1 | 18.4 | 14.9 | 15.7 | 16.4 | 2.72 | 11.13 | 22.5 |
| 18-50- 99 | 41.36 | 2277     | 1.09            | 1.05            | 1.13             | 1.09 | 1.15 | 303.4 | 15.9 | 13.0 | 16.7 | 17.4 | 15.1 | 17.4 | 14.0 | 14.7 | 15.4 | 2.70 | 11.35 | 21.5 |
| 18-50-100 | 37.25 | 2117     | 1.09            | 1.06            | 1.13             | 1.09 | 1.16 | 276.5 | 15.6 | 12.7 | 16.3 | 17.0 | 14.8 | 17.0 | 13.7 | 14.4 | 15.0 | 2.70 | 11.19 | 21.1 |

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| VERS.NR.  | RE*E4 | RE1*E4 | F      | F1     | STH    | STPR   | F1/F2 | TW/TB | TW/T1 | PR   | M/Y   | RETA | H+    | H+W   | H+R   | H+RW  | RH+  | RH+01 | RH+R |
|-----------|-------|--------|--------|--------|--------|--------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|------|-------|------|
| 18-50-101 | 36.82 | 64.23  | .00735 | .01597 | .00363 | .00388 | 3.99  | 2.02  | 1.87  | .667 | .0296 | .775 | 273.4 | 97.4  | 299.3 | 106.6 | 4.51 | 4.08  | 3.54 |
| 18-50-102 | 34.02 | 58.55  | .00734 | .01579 | .00369 | .00394 | 3.89  | 2.02  | 1.86  | .667 | .0298 | .772 | 250.4 | 89.9  | 274.0 | 98.3  | 4.60 | 4.17  | 3.63 |
| 18-50-103 | 31.15 | 52.96  | .00738 | .01578 | .00372 | .00399 | 3.83  | 2.04  | 1.87  | .667 | .0300 | .770 | 228.4 | 80.9  | 250.2 | 88.6  | 4.63 | 4.19  | 3.64 |
| 18-50-104 | 27.73 | 46.25  | .00738 | .01554 | .00383 | .00410 | 3.70  | 2.03  | 1.86  | .667 | .0304 | .765 | 201.0 | 72.3  | 219.9 | 79.1  | 4.73 | 4.29  | 3.76 |
| 18-50-105 | 24.95 | 41.32  | .00752 | .01584 | .00389 | .00418 | 3.70  | 2.04  | 1.87  | .667 | .0305 | .764 | 181.8 | 64.8  | 199.1 | 71.0  | 4.67 | 4.22  | 3.69 |
| 18-50-106 | 22.23 | 35.53  | .00738 | .01509 | .00402 | .00431 | 3.47  | 2.04  | 1.85  | .667 | .0310 | .756 | 157.1 | 56.9  | 171.7 | 62.2  | 4.93 | 4.48  | 3.95 |
| 18-50-107 | 20.02 | 31.30  | .00737 | .01484 | .00407 | .00437 | 3.35  | 2.04  | 1.85  | .667 | .0314 | .752 | 139.6 | 50.6  | 152.6 | 55.3  | 5.07 | 4.61  | 4.08 |
| 18-50-108 | 17.88 | 27.62  | .00744 | .01484 | .00418 | .00447 | 3.29  | 2.03  | 1.83  | .667 | .0317 | .749 | 124.4 | 45.8  | 135.8 | 50.0  | 5.07 | 4.61  | 4.10 |
| 18-50-109 | 16.15 | 24.30  | .00743 | .01452 | .00423 | .00454 | 3.16  | 2.04  | 1.83  | .667 | .0321 | .744 | 110.4 | 40.5  | 120.6 | 44.3  | 5.23 | 4.76  | 4.24 |
| 18-50-110 | 14.53 | 21.79  | .00756 | .01479 | .00425 | .00458 | 3.15  | 2.05  | 1.84  | .667 | .0322 | .743 | 100.2 | 36.5  | 109.4 | 39.9  | 5.12 | 4.66  | 4.14 |
| 18-50-111 | 14.73 | 21.31  | .00729 | .01383 | .00423 | .00456 | 2.98  | 2.06  | 1.84  | .667 | .0328 | .735 | 97.5  | 35.8  | 106.4 | 39.0  | 5.58 | 5.10  | 4.56 |
| 18-50-112 | 13.64 | 19.07  | .00720 | .01332 | .00430 | .00464 | 2.83  | 2.06  | 1.82  | .667 | .0335 | .728 | 87.9  | 32.7  | 95.8  | 35.6  | 5.86 | 5.38  | 4.84 |
| 18-50-113 | 12.45 | 17.04  | .00719 | .01302 | .00429 | .00462 | 2.73  | 2.05  | 1.81  | .667 | .0340 | .723 | 79.1  | 29.7  | 86.2  | 32.4  | 6.05 | 5.56  | 5.03 |
| 18-50-114 | 24.10 | 49.78  | .00824 | .01856 | .0     | .0     | 4.14  | 1.00  | 1.00  | .667 | .0282 | .793 | 213.6 | 213.6 | 213.6 | 213.6 | 3.51 | 3.09  | 3.51 |
| 18-50-115 | 21.46 | 44.20  | .00839 | .01887 | .0     | .0     | 4.12  | 1.00  | 1.00  | .667 | .0282 | .792 | 191.7 | 191.7 | 191.7 | 191.7 | 3.43 | 3.01  | 3.43 |
| 18-50-116 | 21.16 | 43.15  | .00825 | .01834 | .0     | .0     | 4.00  | 1.00  | 1.00  | .667 | .0284 | .789 | 186.5 | 186.5 | 186.5 | 186.5 | 3.60 | 3.18  | 3.60 |
| 18-50-117 | 19.54 | 39.75  | .00835 | .01850 | .0     | .0     | 3.98  | 1.00  | 1.00  | .667 | .0285 | .788 | 173.0 | 173.0 | 173.0 | 173.0 | 3.56 | 3.14  | 3.56 |
| 18-50-118 | 17.92 | 36.16  | .00838 | .01841 | .0     | .0     | 3.89  | 1.00  | 1.00  | .667 | .0287 | .786 | 158.3 | 158.3 | 158.3 | 158.3 | 3.60 | 3.18  | 3.60 |
| 18-50-119 | 15.90 | 31.90  | .00850 | .01856 | .0     | .0     | 3.84  | 1.00  | 1.00  | .667 | .0288 | .784 | 141.0 | 141.0 | 141.0 | 141.0 | 3.57 | 3.15  | 3.57 |
| 18-50-120 | 14.37 | 28.61  | .00856 | .01854 | .0     | .0     | 3.76  | 1.00  | 1.00  | .667 | .0289 | .781 | 127.4 | 127.4 | 127.4 | 127.4 | 3.59 | 3.16  | 3.59 |
| 18-50-121 | 12.72 | 25.02  | .00860 | .01836 | .0     | .0     | 3.64  | 1.00  | 1.00  | .667 | .0292 | .778 | 112.3 | 112.3 | 112.3 | 112.3 | 3.66 | 3.23  | 3.66 |
| 18-50-122 | 11.43 | 22.36  | .00871 | .01850 | .0     | .0     | 3.59  | 1.00  | 1.00  | .667 | .0293 | .776 | 101.3 | 101.3 | 101.3 | 101.3 | 3.63 | 3.20  | 3.63 |
| 18-50-123 | 10.28 | 19.88  | .00873 | .01827 | .0     | .0     | 3.48  | 1.00  | 1.00  | .667 | .0296 | .772 | 90.7  | 90.7  | 90.7  | 90.7  | 3.72 | 3.29  | 3.72 |
| 18-50-124 | 9.28  | 17.87  | .00888 | .01851 | .0     | .0     | 3.45  | 1.00  | 1.00  | .667 | .0297 | .771 | 82.3  | 82.3  | 82.3  | 82.3  | 3.66 | 3.23  | 3.66 |
| 18-50-125 | 8.34  | 15.92  | .00897 | .01853 | .0     | .0     | 3.38  | 1.00  | 1.00  | .667 | .0299 | .768 | 74.0  | 74.0  | 74.0  | 74.0  | 3.68 | 3.24  | 3.68 |
| 18-50-126 | 8.58  | 16.24  | .00877 | .01794 | .0     | .0     | 3.30  | 1.00  | 1.00  | .667 | .0301 | .766 | 75.0  | 75.0  | 75.0  | 75.0  | 3.87 | 3.43  | 3.87 |
| 18-50-127 | 7.95  | 14.88  | .00875 | .01765 | .0     | .0     | 3.20  | 1.00  | 1.00  | .667 | .0304 | .762 | 69.0  | 69.0  | 69.0  | 69.0  | 3.99 | 3.54  | 3.99 |
| 18-50-128 | 7.28  | 13.40  | .00872 | .01727 | .0     | .0     | 3.08  | 1.00  | 1.00  | .667 | .0308 | .757 | 62.5  | 62.5  | 62.5  | 62.5  | 4.16 | 3.71  | 4.16 |
| 18-50-129 | 6.49  | 11.68  | .00866 | .01674 | .0     | .0     | 2.93  | 1.00  | 1.00  | .667 | .0313 | .750 | 54.9  | 54.9  | 54.9  | 54.9  | 4.40 | 3.95  | 4.40 |
| 18-50-130 | 86.49 | 194.64 | .00772 | .01907 | .0     | .0     | 5.29  | 1.00  | 1.00  | .667 | .0264 | .821 | 775.3 | 775.3 | 775.3 | 775.3 | 3.20 | 2.81  | 3.20 |
| 18-50-131 | 78.23 | 174.66 | .00772 | .01889 | .0     | .0     | 5.16  | 1.00  | 1.00  | .667 | .0266 | .818 | 698.3 | 698.3 | 698.3 | 698.3 | 3.26 | 2.87  | 3.26 |
| 18-50-132 | 70.04 | 154.38 | .00764 | .01843 | .0     | .0     | 4.95  | 1.00  | 1.00  | .667 | .0268 | .814 | 617.9 | 617.9 | 617.9 | 617.9 | 3.41 | 3.01  | 3.41 |
| 18-50-133 | 63.13 | 140.32 | .00797 | .01943 | .0     | .0     | 5.11  | 1.00  | 1.00  | .667 | .0267 | .817 | 571.3 | 571.3 | 571.3 | 571.3 | 3.12 | 2.73  | 3.12 |
| 18-50-134 | 56.31 | 124.13 | .00799 | .01932 | .0     | .0     | 4.98  | 1.00  | 1.00  | .667 | .0268 | .814 | 508.2 | 508.2 | 508.2 | 508.2 | 3.17 | 2.78  | 3.17 |
| 18-50-135 | 50.64 | 111.12 | .00808 | .01945 | .0     | .0     | 4.92  | 1.00  | 1.00  | .667 | .0269 | .813 | 458.4 | 458.4 | 458.4 | 458.4 | 3.15 | 2.75  | 3.15 |
| 18-50-136 | 45.41 | 98.25  | .00799 | .01895 | .0     | .0     | 4.72  | 1.00  | 1.00  | .667 | .0272 | .808 | 405.9 | 405.9 | 405.9 | 405.9 | 3.31 | 2.91  | 3.31 |
| 18-50-137 | 40.90 | 87.86  | .00804 | .01892 | .0     | .0     | 4.63  | 1.00  | 1.00  | .667 | .0273 | .806 | 365.3 | 365.3 | 365.3 | 365.3 | 3.35 | 2.95  | 3.35 |
| 18-50-138 | 36.95 | 79.03  | .00813 | .01905 | .0     | .0     | 4.58  | 1.00  | 1.00  | .667 | .0274 | .804 | 331.2 | 331.2 | 331.2 | 331.2 | 3.32 | 2.92  | 3.32 |
| 18-50-139 | 36.48 | 77.92  | .00812 | .01900 | .0     | .0     | 4.56  | 1.00  | 1.00  | .667 | .0275 | .804 | 326.6 | 326.6 | 326.6 | 326.6 | 3.33 | 2.93  | 3.33 |
| 18-50-140 | 33.75 | 71.87  | .00819 | .01910 | .0     | .0     | 4.52  | 1.00  | 1.00  | .667 | .0275 | .803 | 303.0 | 303.0 | 303.0 | 303.0 | 3.31 | 2.90  | 3.31 |
| 18-50-141 | 30.79 | 64.98  | .00819 | .01890 | .0     | .0     | 4.40  | 1.00  | 1.00  | .667 | .0277 | .800 | 275.1 | 275.1 | 275.1 | 275.1 | 3.38 | 2.97  | 3.38 |
| 18-50-142 | 27.48 | 57.60  | .00826 | .01894 | .0     | .0     | 4.32  | 1.00  | 1.00  | .667 | .0278 | .798 | 245.8 | 245.8 | 245.8 | 245.8 | 3.38 | 2.97  | 3.38 |
| 18-50-143 | 24.82 | 51.59  | .00830 | .01885 | .0     | .0     | 4.22  | 1.00  | 1.00  | .667 | .0280 | .795 | 221.5 | 221.5 | 221.5 | 221.5 | 3.42 | 3.01  | 3.42 |
| 18-50-144 | 22.14 | 45.27  | .00821 | .01828 | .0     | .0     | 4.02  | 1.00  | 1.00  | .667 | .0284 | .790 | 194.8 | 194.8 | 194.8 | 194.8 | 3.60 | 3.18  | 3.60 |
| 18-50-145 | 19.89 | 40.45  | .00831 | .01840 | .0     | .0     | 3.97  | 1.00  | 1.00  | .667 | .0285 | .788 | 175.6 | 175.6 | 175.6 | 175.6 | 3.58 | 3.16  | 3.58 |
| 18-50-146 | 17.84 | 35.93  | .00834 | .01827 | .0     | .0     | 3.86  | 1.00  | 1.00  | .667 | .0287 | .785 | 157.1 | 157.1 | 157.1 | 157.1 | 3.64 | 3.22  | 3.64 |
| 18-50-147 | 16.10 | 31.99  | .00833 | .01799 | .0     | .0     | 3.74  | 1.00  | 1.00  | .667 | .0290 | .781 | 140.6 | 140.6 | 140.6 | 140.6 | 3.76 | 3.33  | 3.76 |
| 18-50-148 | 14.46 | 28.62  | .00846 | .01820 | .0     | .0     | 3.70  | 1.00  | 1.00  | .667 | .0291 | .780 | 127.0 | 127.0 | 127.0 | 127.0 | 3.70 | 3.28  | 3.70 |

| VERS.NR.  | RE*E4 | Q<KW/M2> | ST1+/<br>ST1*/ | STT+/<br>STT*/ | ST1F/<br>ST1F/ | H+   | G+   | GPR01 | G*   | G*R  | GT   | GTR  | GTR1 | GTF  | GTR  | X    | YR   | YG   |       |      |
|-----------|-------|----------|----------------|----------------|----------------|------|------|-------|------|------|------|------|------|------|------|------|------|------|-------|------|
| 18-50-101 | 35.82 | 2084     | 1.09           | 1.06           | 1.13           | 1.09 | 1.16 | 273.4 | 15.8 | 12.8 | 16.5 | 17.1 | 15.0 | 17.2 | 13.9 | 14.6 | 15.2 | 2.70 | 11.19 | 21.3 |
| 18-50-102 | 34.02 | 1956     | 1.10           | 1.06           | 1.14           | 1.09 | 1.16 | 250.4 | 15.3 | 12.4 | 16.0 | 16.6 | 14.5 | 16.7 | 13.4 | 14.0 | 14.6 | 2.69 | 11.25 | 20.7 |
| 18-50-103 | 31.15 | 1847     | 1.10           | 1.06           | 1.14           | 1.09 | 1.16 | 228.4 | 15.1 | 12.2 | 15.9 | 16.3 | 14.3 | 16.4 | 13.2 | 13.8 | 14.3 | 2.68 | 11.26 | 20.5 |
| 18-50-104 | 27.73 | 1677     | 1.10           | 1.06           | 1.14           | 1.10 | 1.17 | 201.0 | 14.2 | 11.6 | 15.0 | 15.5 | 13.5 | 15.6 | 12.5 | 12.9 | 13.5 | 2.67 | 11.34 | 19.6 |
| 18-50-105 | 24.95 | 1559     | 1.10           | 1.06           | 1.14           | 1.10 | 1.18 | 181.8 | 14.1 | 11.4 | 14.9 | 15.3 | 13.3 | 15.4 | 12.3 | 12.8 | 13.2 | 2.67 | 11.24 | 19.4 |
| 18-50-106 | 22.23 | 1437     | 1.11           | 1.06           | 1.15           | 1.11 | 1.19 | 157.1 | 12.9 | 10.4 | 13.7 | 14.1 | 12.1 | 14.1 | 11.2 | 11.5 | 11.9 | 2.64 | 11.51 | 18.1 |
| 18-50-107 | 20.02 | 1323     | 1.11           | 1.07           | 1.16           | 1.11 | 1.20 | 139.6 | 12.5 | 10.1 | 13.3 | 13.6 | 11.7 | 13.7 | 10.9 | 11.1 | 11.4 | 2.63 | 11.61 | 17.7 |
| 18-50-108 | 17.88 | 1197     | 1.12           | 1.07           | 1.16           | 1.11 | 1.21 | 124.4 | 12.0 | 9.7  | 12.7 | 13.2 | 11.2 | 13.1 | 10.4 | 10.5 | 11.0 | 2.62 | 11.61 | 17.1 |
| 18-50-109 | 16.15 | 1111     | 1.12           | 1.07           | 1.17           | 1.11 | 1.21 | 110.4 | 11.5 | 9.3  | 12.3 | 12.7 | 10.8 | 12.6 | 10.0 | 10.1 | 10.4 | 2.61 | 11.74 | 16.6 |
| 18-50-110 | 14.53 | 1016     | 1.12           | 1.07           | 1.17           | 1.12 | 1.22 | 100.2 | 11.6 | 9.3  | 12.4 | 12.7 | 10.8 | 12.7 | 10.0 | 10.1 | 10.4 | 2.60 | 11.63 | 16.6 |
| 18-50-111 | 14.73 | 1031     | 1.12           | 1.07           | 1.17           | 1.12 | 1.23 | 97.5  | 11.1 | 8.9  | 11.9 | 12.1 | 10.3 | 12.1 | 9.6  | 9.6  | 9.8  | 2.58 | 12.02 | 16.0 |
| 18-50-112 | 13.64 | 973      | 1.13           | 1.08           | 1.18           | 1.12 | 1.24 | 87.9  | 10.4 | 8.4  | 11.3 | 11.5 | 9.6  | 11.4 | 8.9  | 8.8  | 9.1  | 2.56 | 12.25 | 15.2 |
| 18-50-113 | 12.45 | 879      | 1.13           | 1.08           | 1.19           | 1.12 | 1.25 | 79.1  | 10.2 | 8.3  | 11.1 | 11.4 | 9.5  | 11.2 | 8.8  | 8.7  | 8.9  | 2.54 | 12.40 | 15.0 |
| 18-50-114 | 24.10 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 213.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.75 | 10.38 | 0.0  |
| 18-50-115 | 21.46 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 191.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.75 | 10.29 | 0.0  |
| 18-50-116 | 21.16 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 186.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.74 | 10.44 | 0.0  |
| 18-50-117 | 19.54 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 173.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.74 | 10.40 | 0.0  |
| 18-50-118 | 17.92 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 158.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.73 | 10.42 | 0.0  |
| 18-50-119 | 15.90 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 141.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.73 | 10.38 | 0.0  |
| 18-50-120 | 14.37 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 127.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.72 | 10.39 | 0.0  |
| 18-50-121 | 12.72 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 112.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.71 | 10.44 | 0.0  |
| 18-50-122 | 11.43 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 101.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.71 | 10.40 | 0.0  |
| 18-50-123 | 10.28 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 90.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.70 | 10.46 | 0.0  |
| 18-50-124 | 9.28  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 82.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.69 | 10.39 | 0.0  |
| 18-50-125 | 8.34  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 74.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.69 | 10.39 | 0.0  |
| 18-50-126 | 8.58  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 75.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.68 | 10.56 | 0.0  |
| 18-50-127 | 7.95  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 69.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.67 | 10.64 | 0.0  |
| 18-50-128 | 7.28  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 62.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.65 | 10.76 | 0.0  |
| 18-50-129 | 6.49  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 54.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.63 | 10.93 | 0.0  |
| 18-50-130 | 86.49 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 775.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.82 | 10.24 | 0.0  |
| 18-50-131 | 78.23 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 698.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.82 | 10.29 | 0.0  |
| 18-50-132 | 70.04 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 617.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.81 | 10.42 | 0.0  |
| 18-50-133 | 63.13 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 571.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.81 | 10.15 | 0.0  |
| 18-50-134 | 56.31 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 508.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.81 | 10.17 | 0.0  |
| 18-50-135 | 50.64 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 458.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.80 | 10.14 | 0.0  |
| 18-50-136 | 45.41 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 405.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.79 | 10.27 | 0.0  |
| 18-50-137 | 40.90 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 365.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.79 | 10.28 | 0.0  |
| 18-50-138 | 36.95 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 331.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.78 | 10.25 | 0.0  |
| 18-50-139 | 36.48 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 326.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.78 | 10.26 | 0.0  |
| 18-50-140 | 33.75 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 303.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.78 | 10.23 | 0.0  |
| 18-50-141 | 30.79 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 275.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.77 | 10.29 | 0.0  |
| 18-50-142 | 27.48 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 245.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.77 | 10.28 | 0.0  |
| 18-50-143 | 24.82 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 221.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.76 | 10.30 | 0.0  |
| 18-50-144 | 22.14 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 194.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.75 | 10.46 | 0.0  |
| 18-50-145 | 19.89 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 175.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.74 | 10.43 | 0.0  |
| 18-50-146 | 17.84 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 157.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.73 | 10.46 | 0.0  |
| 18-50-147 | 16.10 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 140.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.72 | 10.54 | 0.0  |
| 18-50-148 | 14.46 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 127.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.72 | 10.48 | 0.0  |

NITROGEN

| VERS.NR. | RE*E4 | RE1*E4 | F      | F1     | STB    | STPR   | F1/F2  | TW/TH | TW/T1 | PR   | H/Y  | RETA  | H+   | H+W    | H+R         | H+RW  | RH+  | RH+01 | RH+R |
|----------|-------|--------|--------|--------|--------|--------|--------|-------|-------|------|------|-------|------|--------|-------------|-------|------|-------|------|
| 1A-50-   | 1     | 131.83 | 283.31 | .00713 | .01745 | .00336 | .00298 | 5.27  | 1.40  | 1.37 | .690 | .0267 | .817 | 1097.1 | 643.51148.2 | 673.5 | 3.70 | 3.31  | 3.23 |
| 1A-50-   | 2     | 117.30 | 252.07 | .00728 | .01786 | .00345 | .00306 | 5.28  | 1.40  | 1.37 | .690 | .0267 | .817 | 987.2  | 580.61033.0 | 607.5 | 3.58 | 3.19  | 3.11 |
| 1A-50-   | 3     | 104.94 | 223.55 | .00733 | .01785 | .00354 | .00314 | 5.19  | 1.40  | 1.37 | .690 | .0268 | .815 | 881.2  | 518.8 922.1 | 542.8 | 3.59 | 3.20  | 3.12 |
| 1A-50-   | 4     | 94.37  | 198.17 | .00728 | .01747 | .00352 | .00313 | 5.00  | 1.41  | 1.37 | .690 | .0271 | .811 | 782.9  | 456.1 819.9 | 477.7 | 3.72 | 3.32  | 3.24 |
| 1A-50-   | 5     | 84.45  | 175.97 | .00734 | .01754 | .00365 | .00325 | 4.93  | 1.41  | 1.38 | .690 | .0272 | .809 | 700.8  | 407.6 734.0 | 426.9 | 3.73 | 3.33  | 3.25 |
| 1A-50-   | 6     | 75.70  | 156.15 | .00736 | .01744 | .00378 | .00336 | 4.82  | 1.41  | 1.37 | .690 | .0274 | .806 | 625.5  | 366.5 654.7 | 383.6 | 3.78 | 3.37  | 3.30 |
| 1A-50-   | 7     | 68.39  | 140.87 | .00749 | .01777 | .00385 | .00342 | 4.82  | 1.41  | 1.37 | .690 | .0274 | .806 | 569.8  | 334.0 596.5 | 349.6 | 3.68 | 3.28  | 3.21 |
| 1A-50-   | 8     | 67.45  | 138.37 | .00744 | .01757 | .00389 | .00345 | 4.76  | 1.41  | 1.37 | .690 | .0275 | .804 | 559.1  | 328.7 585.1 | 344.0 | 3.75 | 3.35  | 3.28 |
| 1A-50-   | 9     | 62.39  | 127.49 | .00751 | .01769 | .00393 | .00349 | 4.73  | 1.41  | 1.37 | .690 | .0276 | .803 | 518.4  | 303.0 542.8 | 317.2 | 3.72 | 3.32  | 3.25 |
| 1A-50-   | 10    | 57.09  | 114.85 | .00744 | .01729 | .00401 | .00357 | 4.57  | 1.41  | 1.37 | .690 | .0278 | .799 | 468.0  | 273.7 489.9 | 286.6 | 3.87 | 3.46  | 3.39 |
| 1A-50-   | 11    | 51.15  | 102.37 | .00751 | .01734 | .00399 | .00354 | 4.49  | 1.41  | 1.37 | .690 | .0279 | .797 | 420.1  | 247.4 439.6 | 258.9 | 3.86 | 3.45  | 3.39 |
| 1A-50-   | 12    | 45.66  | 90.44  | .00757 | .01736 | .00417 | .00371 | 4.41  | 1.41  | 1.37 | .690 | .0281 | .795 | 374.4  | 220.3 391.8 | 230.5 | 3.88 | 3.47  | 3.40 |
| 1A-50-   | 13    | 40.77  | 80.12  | .00763 | .01736 | .00420 | .00373 | 4.33  | 1.41  | 1.37 | .690 | .0283 | .793 | 334.2  | 196.9 349.6 | 206.0 | 3.88 | 3.47  | 3.41 |
| 1A-50-   | 14    | 36.85  | 71.54  | .00761 | .01713 | .00427 | .00379 | 4.20  | 1.41  | 1.36 | .690 | .0285 | .789 | 299.8  | 177.2 313.6 | 185.3 | 3.97 | 3.56  | 3.50 |
| 1A-50-   | 15    | 33.05  | 63.81  | .00771 | .01729 | .00437 | .00388 | 4.16  | 1.40  | 1.36 | .690 | .0286 | .788 | 269.9  | 160.2 282.3 | 167.5 | 3.94 | 3.52  | 3.47 |
| 1A-50-   | 16    | 26.71  | 49.88  | .00768 | .01672 | .00451 | .00402 | 3.89  | 1.43  | 1.37 | .690 | .0292 | .779 | 213.5  | 124.6 223.5 | 130.5 | 4.16 | 3.73  | 3.66 |
| 1A-50-   | 17    | 27.13  | 51.55  | .00787 | .01744 | .00461 | .00410 | 4.05  | 1.41  | 1.36 | .690 | .0288 | .784 | 221.7  | 130.9 232.0 | 136.9 | 3.90 | 3.48  | 3.43 |
| 1A-50-   | 18    | 25.18  | 47.16  | .00784 | .01717 | .00468 | .00417 | 3.94  | 1.42  | 1.37 | .690 | .0291 | .781 | 203.7  | 119.3 213.2 | 124.8 | 4.01 | 3.58  | 3.53 |
| 1A-50-   | 19    | 23.11  | 43.28  | .00793 | .01729 | .00455 | .00404 | 3.90  | 1.41  | 1.36 | .690 | .0291 | .780 | 188.1  | 111.6 196.6 | 116.7 | 3.98 | 3.55  | 3.51 |
| 1A-50-   | 20    | 20.67  | 37.12  | .00768 | .01614 | .00477 | .00425 | 3.60  | 1.42  | 1.36 | .690 | .0299 | .769 | 161.5  | 95.4 168.9  | 99.8  | 4.43 | 3.99  | 3.94 |
| 1A-50-   | 21    | 131.52 | 270.19 | .00699 | .01685 | .00318 | .00308 | 5.13  | 1.73  | 1.66 | .689 | .0271 | .811 | 1050.5 | 441.71130.9 | 475.5 | 3.94 | 3.54  | 3.17 |
| 1A-50-   | 22    | 116.62 | 237.78 | .00707 | .01695 | .00327 | .00317 | 5.06  | 1.73  | 1.66 | .689 | .0272 | .809 | 932.5  | 394.31003.3 | 424.2 | 3.93 | 3.52  | 3.16 |
| 1A-50-   | 23    | 103.58 | 209.59 | .00715 | .01703 | .00333 | .00323 | 4.99  | 1.74  | 1.66 | .689 | .0273 | .808 | 828.7  | 348.5 892.1 | 375.2 | 3.89 | 3.49  | 3.12 |
| 1A-50-   | 24    | 92.86  | 184.65 | .00708 | .01664 | .00340 | .00330 | 4.80  | 1.74  | 1.66 | .689 | .0276 | .803 | 732.4  | 309.1 788.1 | 332.6 | 4.05 | 3.64  | 3.27 |
| 1A-50-   | 25    | 83.16  | 163.80 | .00713 | .01663 | .00347 | .00337 | 4.72  | 1.74  | 1.66 | .689 | .0278 | .800 | 654.4  | 277.0 704.1 | 298.0 | 4.08 | 3.67  | 3.30 |
| 1A-50-   | 26    | 74.24  | 144.95 | .00719 | .01669 | .00356 | .00345 | 4.64  | 1.74  | 1.65 | .689 | .0279 | .798 | 583.9  | 248.6 627.9 | 267.3 | 4.08 | 3.67  | 3.31 |
| 1A-50-   | 27    | 67.14  | 130.61 | .00729 | .01689 | .00365 | .00353 | 4.62  | 1.73  | 1.65 | .689 | .0280 | .797 | 530.8  | 226.9 570.6 | 243.9 | 4.02 | 3.61  | 3.26 |
| 1A-50-   | 28    | 66.11  | 129.96 | .00743 | .01741 | .00366 | .00354 | 4.74  | 1.74  | 1.65 | .689 | .0278 | .800 | 531.5  | 225.7 571.6 | 242.8 | 3.84 | 3.43  | 3.09 |
| 1A-50-   | 29    | 61.27  | 118.96 | .00739 | .01714 | .00372 | .00360 | 4.61  | 1.73  | 1.64 | .689 | .0280 | .797 | 487.8  | 208.7 524.3 | 224.3 | 3.95 | 3.54  | 3.20 |
| 1A-50-   | 30    | 56.03  | 107.60 | .00740 | .01698 | .00377 | .00365 | 4.51  | 1.73  | 1.64 | .689 | .0282 | .794 | 443.1  | 190.2 476.2 | 204.4 | 4.00 | 3.59  | 3.25 |
| 1A-50-   | 31    | 49.56  | 94.21  | .00746 | .01700 | .00386 | .00372 | 4.42  | 1.72  | 1.63 | .689 | .0284 | .791 | 391.5  | 170.0 420.2 | 182.5 | 4.04 | 3.62  | 3.30 |
| 1A-50-   | 32    | 44.73  | 83.92  | .00749 | .01692 | .00397 | .00383 | 4.33  | 1.72  | 1.63 | .689 | .0286 | .788 | 351.3  | 152.7 377.1 | 163.9 | 4.09 | 3.67  | 3.35 |
| 1A-50-   | 33    | 39.97  | 73.68  | .00745 | .01655 | .00399 | .00386 | 4.16  | 1.73  | 1.63 | .689 | .0289 | .784 | 309.8  | 134.7 332.6 | 144.5 | 4.21 | 3.79  | 3.46 |
| 1A-50-   | 34    | 35.96  | 65.30  | .00746 | .01642 | .00407 | .00394 | 4.06  | 1.74  | 1.63 | .689 | .0292 | .780 | 276.6  | 119.7 297.1 | 128.5 | 4.29 | 3.86  | 3.53 |
| 1A-50-   | 35    | 32.06  | 58.11  | .00762 | .01678 | .00418 | .00404 | 4.06  | 1.73  | 1.63 | .689 | .0292 | .780 | 249.1  | 108.6 267.3 | 116.6 | 4.17 | 3.75  | 3.43 |
| 1A-50-   | 36    | 29.11  | 51.52  | .00750 | .01616 | .00421 | .00407 | 3.85  | 1.73  | 1.62 | .689 | .0296 | .774 | 221.4  | 97.3 237.4  | 104.3 | 4.42 | 3.98  | 3.66 |
| 1A-50-   | 37    | 26.16  | 45.41  | .00750 | .01594 | .00436 | .00422 | 3.74  | 1.73  | 1.62 | .688 | .0299 | .770 | 196.6  | 86.4 210.9  | 92.6  | 4.50 | 4.06  | 3.74 |
| 1A-50-   | 38    | 26.74  | 46.33  | .00747 | .01582 | .00435 | .00420 | 3.73  | 1.73  | 1.62 | .688 | .0300 | .769 | 200.1  | 88.3 214.5  | 94.6  | 4.55 | 4.11  | 3.79 |
| 1A-50-   | 39    | 24.69  | 42.45  | .00752 | .01582 | .00443 | .00427 | 3.67  | 1.73  | 1.61 | .688 | .0301 | .767 | 184.5  | 82.0 197.7  | 87.8  | 4.56 | 4.12  | 3.81 |
| 1A-50-   | 40    | 22.61  | 38.18  | .00749 | .01551 | .00445 | .00430 | 3.55  | 1.73  | 1.60 | .688 | .0305 | .763 | 166.8  | 74.5 178.7  | 79.8  | 4.71 | 4.26  | 3.95 |
| 1A-50-   | 41    | 20.10  | 33.09  | .00743 | .01507 | .00453 | .00436 | 3.39  | 1.72  | 1.59 | .688 | .0310 | .756 | 145.7  | 65.8 155.8  | 70.4  | 4.92 | 4.47  | 4.17 |
| 1A-50-   | 42    | 18.20  | 28.66  | .00728 | .01429 | .00457 | .00442 | 3.17  | 1.74  | 1.59 | .688 | .0319 | .746 | 127.1  | 57.3 136.0  | 61.3  | 5.37 | 4.91  | 4.60 |
| 1A-50-   | 43    | 129.13 | 253.90 | .00681 | .01607 | .00307 | .00317 | 4.92  | 1.99  | 1.87 | .689 | .0276 | .804 | 987.8  | 342.21081.9 | 374.8 | 4.25 | 3.85  | 3.28 |
| 1A-50-   | 44    | 114.95 | 226.36 | .00697 | .01649 | .00315 | .00324 | 4.94  | 1.97  | 1.85 | .689 | .0276 | .805 | 890.8  | 313.8 974.2 | 343.2 | 4.11 | 3.71  | 3.17 |
| 1A-50-   | 45    | 102.43 | 199.37 | .00702 | .01647 | .00321 | .00331 | 4.85  | 1.99  | 1.86 | .689 | .0277 | .802 | 790.7  | 276.0 865.5 | 302.1 | 4.13 | 3.72  | 3.17 |
| 1A-50-   | 46    | 92.00  | 175.96 | .00698 | .01616 | .00330 | .00340 | 4.69  | 1.98  | 1.86 | .688 | .0280 | .798 | 700.8  | 246.6 766.6 | 269.8 | 4.25 | 3.84  | 3.30 |
| 1A-50-   | 47    | 82.03  | 155.41 | .00704 | .01619 | .00338 | .00348 | 4.61  | 1.98  | 1.85 | .688 | .0282 | .795 | 624.0  | 221.1 682.2 | 241.7 | 4.26 | 3.85  | 3.32 |
| 1A-50-   | 48    | 73.49  | 137.14 | .00705 | .01607 | .00343 | .00354 | 4.50  | 1.99  | 1.85 | .688 | .0284 | .792 | 554.7  | 195.5 606.7 | 213.8 | 4.34 | 3.93  | 3.39 |
| 1A-50-   | 49    | 66.39  | 122.71 | .00709 | .01605 | .00348 | .00360 | 4.42  | 1.99  | 1.85 | .688 | .0286 | .790 | 499.8  | 176.4 546.6 | 192.9 | 4.36 | 3.94  | 3.40 |
| 1A-50-   | 50    | 65.57  | 123.40 | .00730 | .01681 | .00353 | .00364 | 4.60  | 1.98  | 1.85 | .688 | .0283 | .794 | 506.6  | 178.8 554.0 | 195.5 | 4.07 | 3.66  | 3.14 |



| VERS.NR. | RE*E4 | Q<Kw/M2> | ST1*/ | ST1*/ | SIT*/ | SIT*/ | ST1F/ | H*   | G*     | GPR01 | G*   | G*R  | GT   | GTR  | GTR1 | GTF  | GTFR | X    | YR   | YG    |      |
|----------|-------|----------|-------|-------|-------|-------|-------|------|--------|-------|------|------|------|------|------|------|------|------|------|-------|------|
| 14-50-   | 1     | 131.43   | 433   | 1.09  | 1.06  | 1.12  | 1.09  | 1.11 | 1097.1 | 18.6  | 17.9 | 19.2 | 24.1 | 17.9 | 23.0 | 18.9 | 18.1 | 22.9 | 2.81 | 10.71 | 25.1 |
| 14-50-   | 2     | 117.30   | 395   | 1.09  | 1.06  | 1.12  | 1.09  | 1.11 | 987.2  | 18.2  | 17.5 | 18.7 | 23.5 | 17.4 | 22.6 | 18.5 | 17.6 | 22.4 | 2.81 | 10.58 | 24.6 |
| 14-50-   | 3     | 104.94   | 364   | 1.09  | 1.06  | 1.12  | 1.09  | 1.11 | 881.2  | 17.5  | 16.8 | 18.1 | 22.8 | 16.8 | 21.7 | 17.8 | 17.0 | 21.6 | 2.81 | 10.59 | 24.0 |
| 14-50-   | 4     | 94.37    | 334   | 1.09  | 1.06  | 1.13  | 1.09  | 1.11 | 782.9  | 17.4  | 16.6 | 18.0 | 22.7 | 16.6 | 21.6 | 17.7 | 16.9 | 21.4 | 2.80 | 10.70 | 23.9 |
| 14-50-   | 5     | 84.45    | 313   | 1.09  | 1.06  | 1.13  | 1.10  | 1.12 | 700.8  | 16.5  | 15.8 | 17.1 | 21.6 | 15.8 | 20.5 | 16.8 | 16.0 | 20.4 | 2.79 | 10.68 | 22.9 |
| 14-50-   | 6     | 75.70    | 287   | 1.10  | 1.07  | 1.13  | 1.10  | 1.12 | 625.5  | 15.6  | 14.9 | 16.2 | 20.5 | 14.9 | 19.4 | 15.9 | 15.0 | 19.3 | 2.78 | 10.71 | 22.0 |
| 14-50-   | 7     | 68.39    | 264   | 1.10  | 1.07  | 1.13  | 1.10  | 1.13 | 569.8  | 15.4  | 14.7 | 16.0 | 20.3 | 14.6 | 19.2 | 15.7 | 14.8 | 19.0 | 2.78 | 10.61 | 21.8 |
| 14-50-   | 8     | 67.45    | 263   | 1.10  | 1.07  | 1.14  | 1.10  | 1.13 | 559.1  | 15.0  | 14.4 | 15.6 | 19.8 | 14.3 | 18.8 | 15.3 | 14.4 | 18.5 | 2.78 | 10.67 | 21.3 |
| 14-50-   | 9     | 62.39    | 249   | 1.10  | 1.07  | 1.14  | 1.11  | 1.13 | 518.4  | 14.9  | 14.3 | 15.4 | 19.6 | 14.2 | 18.6 | 15.2 | 14.2 | 18.4 | 2.78 | 10.63 | 21.2 |
| 14-50-   | 10    | 57.09    | 233   | 1.10  | 1.07  | 1.14  | 1.11  | 1.14 | 468.0  | 14.1  | 13.5 | 14.7 | 18.7 | 13.4 | 17.7 | 14.4 | 13.5 | 17.4 | 2.77 | 10.76 | 20.4 |
| 14-50-   | 11    | 51.15    | 205   | 1.10  | 1.07  | 1.14  | 1.11  | 1.14 | 420.1  | 14.3  | 13.7 | 14.9 | 18.9 | 13.5 | 17.9 | 14.6 | 13.6 | 17.6 | 2.76 | 10.74 | 20.5 |
| 14-50-   | 12    | 45.66    | 192   | 1.11  | 1.07  | 1.15  | 1.11  | 1.14 | 374.4  | 13.3  | 12.8 | 13.9 | 17.8 | 12.6 | 16.7 | 13.6 | 12.6 | 16.5 | 2.76 | 10.73 | 19.5 |
| 14-50-   | 13    | 40.77    | 173   | 1.11  | 1.07  | 1.15  | 1.11  | 1.15 | 334.2  | 13.2  | 12.6 | 13.8 | 17.6 | 12.4 | 16.6 | 13.5 | 12.5 | 16.3 | 2.75 | 10.73 | 19.4 |
| 14-50-   | 14    | 36.85    | 158   | 1.11  | 1.08  | 1.15  | 1.12  | 1.15 | 299.8  | 12.7  | 12.2 | 13.3 | 17.0 | 12.0 | 16.0 | 13.0 | 12.0 | 15.7 | 2.74 | 10.80 | 18.8 |
| 14-50-   | 15    | 33.05    | 144   | 1.11  | 1.08  | 1.16  | 1.12  | 1.16 | 269.9  | 12.3  | 11.8 | 12.9 | 16.6 | 11.6 | 15.6 | 12.6 | 11.6 | 15.2 | 2.74 | 10.76 | 18.4 |
| 14-50-   | 16    | 26.71    | 126   | 1.12  | 1.08  | 1.17  | 1.13  | 1.17 | 213.5  | 11.4  | 10.8 | 12.0 | 15.4 | 10.6 | 14.4 | 11.6 | 10.6 | 14.0 | 2.71 | 10.94 | 17.4 |
| 14-50-   | 17    | 27.13    | 123   | 1.12  | 1.08  | 1.16  | 1.13  | 1.16 | 221.7  | 11.3  | 10.8 | 11.9 | 15.4 | 10.6 | 14.4 | 11.6 | 10.6 | 14.0 | 2.73 | 10.71 | 17.4 |
| 14-50-   | 18    | 25.18    | 123   | 1.12  | 1.08  | 1.17  | 1.13  | 1.17 | 203.7  | 10.9  | 10.4 | 11.5 | 14.9 | 10.2 | 13.8 | 11.2 | 10.1 | 13.5 | 2.72 | 10.79 | 16.9 |
| 14-50-   | 19    | 23.11    | 106   | 1.12  | 1.08  | 1.17  | 1.13  | 1.17 | 188.1  | 11.5  | 11.0 | 12.1 | 15.6 | 10.7 | 14.6 | 11.7 | 10.7 | 14.2 | 2.71 | 10.75 | 17.5 |
| 14-50-   | 20    | 20.67    | 103   | 1.13  | 1.09  | 1.18  | 1.14  | 1.19 | 161.5  | 9.9   | 9.5  | 10.6 | 13.8 | 9.2  | 12.6 | 10.2 | 9.1  | 12.3 | 2.68 | 11.13 | 15.8 |
| 14-50-   | 21    | 131.52   | 775   | 1.08  | 1.05  | 1.11  | 1.08  | 1.11 | 1050.5 | 19.8  | 17.1 | 20.5 | 23.7 | 19.0 | 23.1 | 18.9 | 19.0 | 22.1 | 2.79 | 10.89 | 26.0 |
| 14-50-   | 22    | 116.62   | 703   | 1.08  | 1.05  | 1.11  | 1.08  | 1.11 | 932.5  | 19.0  | 16.4 | 19.7 | 22.8 | 18.3 | 22.3 | 18.2 | 18.3 | 21.3 | 2.79 | 10.86 | 25.2 |
| 14-50-   | 23    | 103.58   | 647   | 1.08  | 1.05  | 1.12  | 1.08  | 1.12 | 828.7  | 18.6  | 16.1 | 19.4 | 22.4 | 17.9 | 21.8 | 17.9 | 17.9 | 20.8 | 2.79 | 10.84 | 24.9 |
| 14-50-   | 24    | 92.86    | 595   | 1.09  | 1.05  | 1.12  | 1.09  | 1.12 | 732.4  | 17.8  | 15.3 | 18.5 | 21.4 | 17.0 | 20.8 | 17.0 | 17.0 | 19.8 | 2.77 | 10.96 | 23.9 |
| 14-50-   | 25    | 83.16    | 545   | 1.09  | 1.05  | 1.12  | 1.09  | 1.12 | 654.4  | 17.2  | 14.9 | 18.0 | 20.8 | 16.5 | 20.2 | 16.5 | 16.4 | 19.2 | 2.77 | 10.97 | 23.4 |
| 14-50-   | 26    | 74.24    | 497   | 1.09  | 1.06  | 1.13  | 1.09  | 1.13 | 583.9  | 16.6  | 14.4 | 17.4 | 20.2 | 15.9 | 19.6 | 15.9 | 15.8 | 18.5 | 2.76 | 10.95 | 22.7 |
| 14-50-   | 27    | 67.14    | 458   | 1.09  | 1.06  | 1.13  | 1.09  | 1.13 | 530.8  | 16.2  | 14.0 | 16.9 | 19.7 | 15.5 | 19.1 | 15.5 | 15.4 | 18.1 | 2.76 | 10.88 | 22.3 |
| 14-50-   | 28    | 66.11    | 457   | 1.09  | 1.06  | 1.13  | 1.09  | 1.13 | 531.5  | 16.5  | 14.3 | 17.2 | 20.0 | 15.8 | 19.4 | 15.8 | 15.6 | 18.4 | 2.77 | 10.72 | 22.6 |
| 14-50-   | 29    | 61.27    | 429   | 1.09  | 1.06  | 1.13  | 1.09  | 1.14 | 487.8  | 15.9  | 13.7 | 16.6 | 19.3 | 15.1 | 18.7 | 15.3 | 15.0 | 17.7 | 2.76 | 10.80 | 21.9 |
| 14-50-   | 30    | 56.03    | 398   | 1.10  | 1.06  | 1.13  | 1.10  | 1.14 | 443.1  | 15.4  | 13.4 | 16.2 | 18.8 | 14.7 | 18.2 | 14.8 | 14.6 | 17.2 | 2.75 | 10.85 | 21.5 |
| 14-50-   | 31    | 49.56    | 355   | 1.10  | 1.06  | 1.14  | 1.10  | 1.14 | 391.5  | 14.9  | 12.9 | 15.6 | 18.2 | 14.1 | 17.6 | 14.3 | 14.0 | 16.6 | 2.74 | 10.85 | 20.9 |
| 14-50-   | 32    | 44.73    | 332   | 1.10  | 1.06  | 1.14  | 1.10  | 1.15 | 351.3  | 14.2  | 12.3 | 14.9 | 17.5 | 13.5 | 16.9 | 13.7 | 13.3 | 15.8 | 2.73 | 10.87 | 20.1 |
| 14-50-   | 33    | 39.97    | 300   | 1.10  | 1.06  | 1.14  | 1.10  | 1.15 | 309.8  | 13.9  | 12.0 | 14.6 | 17.1 | 13.1 | 16.5 | 13.3 | 12.9 | 15.4 | 2.72 | 10.99 | 19.7 |
| 14-50-   | 34    | 35.96    | 279   | 1.11  | 1.07  | 1.15  | 1.11  | 1.16 | 276.6  | 13.4  | 11.5 | 14.1 | 16.5 | 12.6 | 15.9 | 12.8 | 12.4 | 14.7 | 2.71 | 11.04 | 19.2 |
| 14-50-   | 35    | 32.06    | 253   | 1.11  | 1.07  | 1.15  | 1.11  | 1.16 | 249.1  | 13.0  | 11.3 | 13.7 | 16.1 | 12.3 | 15.5 | 12.5 | 12.1 | 14.4 | 2.71 | 10.92 | 18.8 |
| 14-50-   | 36    | 29.11    | 230   | 1.11  | 1.07  | 1.16  | 1.11  | 1.17 | 221.4  | 12.5  | 10.8 | 13.2 | 15.5 | 11.7 | 14.9 | 12.0 | 11.5 | 13.8 | 2.70 | 11.12 | 18.2 |
| 14-50-   | 37    | 26.16    | 218   | 1.12  | 1.07  | 1.16  | 1.12  | 1.18 | 196.6  | 11.6  | 10.1 | 12.4 | 14.6 | 10.9 | 13.9 | 11.2 | 10.6 | 12.7 | 2.68 | 11.20 | 17.3 |
| 14-50-   | 38    | 26.74    | 222   | 1.12  | 1.07  | 1.16  | 1.12  | 1.18 | 200.1  | 11.6  | 10.0 | 12.4 | 14.6 | 10.9 | 13.9 | 11.1 | 10.6 | 12.8 | 2.68 | 11.24 | 17.3 |
| 14-50-   | 39    | 24.69    | 206   | 1.12  | 1.07  | 1.17  | 1.12  | 1.18 | 184.5  | 11.3  | 9.8  | 12.0 | 14.2 | 10.5 | 13.5 | 10.8 | 10.3 | 12.4 | 2.68 | 11.24 | 17.0 |
| 14-50-   | 40    | 22.61    | 189   | 1.12  | 1.07  | 1.17  | 1.12  | 1.19 | 166.8  | 10.9  | 9.5  | 11.7 | 13.9 | 10.2 | 13.1 | 10.5 | 9.9  | 12.0 | 2.67 | 11.36 | 16.6 |
| 14-50-   | 41    | 20.10    | 170   | 1.13  | 1.08  | 1.18  | 1.13  | 1.20 | 145.7  | 10.3  | 9.0  | 11.1 | 13.3 | 9.6  | 12.5 | 9.9  | 9.3  | 11.3 | 2.65 | 11.52 | 15.9 |
| 14-50-   | 42    | 18.20    | 159   | 1.14  | 1.08  | 1.19  | 1.13  | 1.22 | 127.1  | 9.7   | 8.4  | 10.5 | 12.5 | 8.9  | 11.6 | 9.2  | 8.6  | 10.5 | 2.62 | 11.83 | 15.1 |
| 14-50-   | 43    | 129.13   | 1008  | 1.08  | 1.04  | 1.11  | 1.07  | 1.11 | 987.8  | 20.2  | 16.3 | 21.0 | 22.8 | 19.5 | 22.7 | 18.5 | 19.3 | 21.0 | 2.78 | 11.16 | 26.2 |
| 14-50-   | 44    | 114.95   | 910   | 1.08  | 1.05  | 1.11  | 1.07  | 1.12 | 890.8  | 19.8  | 16.1 | 20.6 | 22.4 | 19.0 | 22.3 | 18.2 | 18.9 | 20.6 | 2.78 | 11.01 | 25.8 |
| 14-50-   | 45    | 102.43   | 840   | 1.08  | 1.05  | 1.11  | 1.08  | 1.12 | 790.7  | 19.3  | 15.6 | 20.1 | 21.8 | 18.6 | 21.7 | 17.7 | 18.4 | 20.0 | 2.77 | 11.02 | 25.3 |
| 14-50-   | 46    | 92.00    | 776   | 1.08  | 1.05  | 1.11  | 1.08  | 1.12 | 700.8  | 18.3  | 14.8 | 19.2 | 20.8 | 17.6 | 20.6 | 16.8 | 17.4 | 18.9 | 2.76 | 11.12 | 24.3 |
| 14-50-   | 47    | 82.03    | 708   | 1.08  | 1.05  | 1.12  | 1.08  | 1.13 | 624.0  | 17.7  | 14.4 | 18.5 | 20.2 | 17.0 | 20.0 | 16.3 | 16.7 | 18.3 | 2.75 | 11.11 | 23.6 |
| 14-50-   | 48    | 73.49    | 652   | 1.08  | 1.05  | 1.12  | 1.08  | 1.13 | 554.7  | 17.3  | 13.9 | 18.1 | 19.6 | 16.5 | 19.4 | 15.8 | 16.2 | 17.7 | 2.74 | 11.16 | 23.1 |
| 14-50-   | 49    | 66.39    | 599   | 1.09  | 1.05  | 1.12  | 1.08  | 1.14 | 499.8  | 16.8  | 13.6 | 17.6 | 19.1 | 16.1 | 19.0 | 15.4 | 15.8 | 17.2 | 2.74 | 11.16 | 22.6 |
| 14-50-   | 50    | 65.57    | 595   | 1.09  | 1.05  | 1.12  | 1.08  | 1.13 | 506.6  | 17.0  | 13.8 | 17.8 | 19.3 | 16.3 | 19.2 | 15.6 | 16.0 | 17.5 | 2.75 | 10.91 | 22.9 |

NITROGEN

| VERS.NR.  | RE*E4  | RE1*E4 | F      | F1     | STB    | STPR   | F1/F2 | TW/TB | TW/T1 | PR   | H/Y   | BETA | H+      | H+W    | H+R    | H+RW   | RH+  | RH+01 | RH+R |
|-----------|--------|--------|--------|--------|--------|--------|-------|-------|-------|------|-------|------|---------|--------|--------|--------|------|-------|------|
| 18-50- 51 | 60.48  | 112.53 | .00730 | .01669 | .00361 | .00372 | 4.51  | 1.98  | 1.84  | .688 | .0284 | .792 | 464.3   | 165.1  | 507.4  | 180.4  | 4.14 | 3.72  | 3.21 |
| 18-50- 52 | 55.54  | 102.63 | .00733 | .01666 | .00365 | .00375 | 4.44  | 1.97  | 1.83  | .688 | .0286 | .790 | 425.7   | 152.6  | 464.8  | 166.7  | 4.16 | 3.74  | 3.23 |
| 18-50- 53 | 49.30  | 88.63  | .00724 | .01611 | .00372 | .00383 | 4.23  | 1.98  | 1.83  | .688 | .0290 | .783 | 369.3   | 132.5  | 403.3  | 144.6  | 4.38 | 3.95  | 3.44 |
| 18-50- 54 | 44.36  | 79.55  | .00739 | .01648 | .00379 | .00391 | 4.24  | 1.98  | 1.83  | .688 | .0290 | .783 | 335.4   | 120.4  | 366.2  | 131.4  | 4.28 | 3.86  | 3.35 |
| 18-50- 55 | 39.47  | 69.73  | .00740 | .01627 | .00385 | .00396 | 4.11  | 1.98  | 1.83  | .688 | .0293 | .779 | 295.9   | 107.0  | 322.9  | 116.7  | 4.35 | 3.92  | 3.42 |
| 18-50- 56 | 35.70  | 61.87  | .00737 | .01598 | .00394 | .00405 | 3.97  | 1.97  | 1.82  | .688 | .0296 | .775 | 264.1   | 96.2   | 288.0  | 104.9  | 4.47 | 4.04  | 3.54 |
| 18-50- 57 | 32.04  | 54.89  | .00742 | .01593 | .00400 | .00411 | 3.89  | 1.97  | 1.81  | .688 | .0298 | .772 | 236.2   | 86.8   | 257.3  | 94.6   | 4.51 | 4.07  | 3.58 |
| 18-50- 58 | 28.70  | 47.82  | .00736 | .01551 | .00411 | .00423 | 3.72  | 1.98  | 1.81  | .688 | .0303 | .766 | 207.2   | 76.3   | 225.8  | 83.1   | 4.69 | 4.24  | 3.75 |
| 18-50- 59 | 25.94  | 43.21  | .00752 | .01585 | .00419 | .00430 | 3.73  | 1.97  | 1.80  | .687 | .0302 | .766 | 189.2   | 69.9   | 206.1  | 76.2   | 4.56 | 4.12  | 3.64 |
| 18-50- 60 | 14.36  | 19.84  | .00750 | .01441 | .00479 | .00490 | 3.05  | 1.96  | 1.71  | .687 | .0352 | .723 | 93.5    | 37.1   | 101.3  | 40.2   | 6.44 | 5.94  | 5.51 |
| 18-50- 61 | 128.96 | 245.44 | .00670 | .01561 | .00292 | .00320 | 4.80  | 2.22  | 2.07  | .688 | .0279 | .800 | 957.0   | 283.31 | 1063.2 | 314.7  | 4.46 | 4.05  | 3.32 |
| 18-50- 62 | 114.72 | 215.42 | .00675 | .01560 | .00301 | .00330 | 4.71  | 2.23  | 2.06  | .688 | .0281 | .797 | 846.9   | 252.0  | 940.5  | 279.9  | 4.49 | 4.07  | 3.36 |
| 18-50- 63 | 102.01 | 190.64 | .00686 | .01581 | .00305 | .00335 | 4.69  | 2.23  | 2.06  | .688 | .0282 | .796 | 757.1   | 224.6  | 840.9  | 249.5  | 4.40 | 3.99  | 3.28 |
| 18-50- 64 | 91.13  | 165.97 | .00678 | .01532 | .00314 | .00345 | 4.47  | 2.23  | 2.05  | .688 | .0286 | .790 | 661.5   | 198.2  | 734.2  | 220.0  | 4.61 | 4.20  | 3.48 |
| 18-50- 65 | 81.91  | 147.39 | .00679 | .01521 | .00321 | .00351 | 4.37  | 2.22  | 2.03  | .688 | .0288 | .787 | 591.1   | 179.7  | 655.2  | 199.2  | 4.68 | 4.25  | 3.55 |
| 18-50- 66 | 73.45  | 130.12 | .00683 | .01519 | .00326 | .00358 | 4.29  | 2.23  | 2.04  | .687 | .0290 | .784 | 526.6   | 159.2  | 584.0  | 176.6  | 4.74 | 4.32  | 3.61 |
| 18-50- 67 | 66.10  | 116.21 | .00689 | .01524 | .00334 | .00365 | 4.23  | 2.22  | 2.03  | .687 | .0291 | .782 | 474.1   | 144.8  | 525.3  | 160.4  | 4.72 | 4.29  | 3.60 |
| 18-50- 68 | 65.05  | 115.25 | .00698 | .01554 | .00334 | .00365 | 4.29  | 2.22  | 2.03  | .687 | .0290 | .784 | 471.9   | 144.2  | 522.8  | 159.8  | 4.61 | 4.18  | 3.50 |
| 18-50- 69 | 59.74  | 104.34 | .00697 | .01534 | .00340 | .00370 | 4.18  | 2.21  | 2.01  | .687 | .0293 | .780 | 429.2   | 132.5  | 475.1  | 146.7  | 4.70 | 4.27  | 3.60 |
| 18-50- 70 | 54.66  | 93.74  | .00694 | .01508 | .00345 | .00377 | 4.06  | 2.21  | 2.01  | .687 | .0295 | .776 | 387.5   | 119.9  | 428.9  | 132.7  | 4.81 | 4.38  | 3.70 |
| 18-50- 71 | 49.08  | 82.18  | .00689 | .01471 | .00352 | .00383 | 3.90  | 2.21  | 2.00  | .687 | .0300 | .771 | 341.7   | 107.1  | 377.8  | 118.4  | 5.01 | 4.57  | 3.89 |
| 18-50- 72 | 43.98  | 72.94  | .00699 | .01488 | .00362 | .00394 | 3.87  | 2.21  | 1.99  | .687 | .0301 | .769 | 306.6   | 96.6   | 338.9  | 106.7  | 4.97 | 4.53  | 3.86 |
| 18-50- 73 | 39.23  | 63.00  | .00690 | .01430 | .00370 | .00403 | 3.66  | 2.21  | 1.98  | .686 | .0306 | .762 | 266.2   | 84.7   | 294.0  | 93.5   | 5.21 | 4.76  | 4.09 |
| 18-50- 74 | 35.21  | 55.23  | .00689 | .01407 | .00382 | .00415 | 3.54  | 2.20  | 1.96  | .686 | .0310 | .757 | 235.4   | 76.1   | 259.6  | 83.9   | 5.34 | 4.89  | 4.23 |
| 18-50- 75 | 31.69  | 48.46  | .00685 | .01369 | .00384 | .00418 | 3.39  | 2.21  | 1.96  | .686 | .0314 | .752 | 207.9   | 67.4   | 229.2  | 74.3   | 5.52 | 5.06  | 4.40 |
| 18-50- 76 | 28.41  | 42.70  | .00688 | .01358 | .00389 | .00422 | 3.30  | 2.20  | 1.94  | .686 | .0317 | .748 | 184.9   | 60.8   | 203.5  | 66.9   | 5.60 | 5.14  | 4.49 |
| 18-50- 77 | 26.00  | 38.08  | .00685 | .01324 | .00397 | .00429 | 3.17  | 2.18  | 1.92  | .686 | .0322 | .743 | 166.0   | 55.6   | 182.5  | 61.1   | 5.79 | 5.32  | 4.68 |
| 18-50- 78 | 24.13  | 35.19  | .00694 | .01340 | .00398 | .00432 | 3.17  | 2.19  | 1.93  | .686 | .0323 | .742 | 154.6   | 51.5   | 170.1  | 56.6   | 5.74 | 5.27  | 4.63 |
| 18-50- 79 | 22.14  | 31.22  | .00687 | .01293 | .00405 | .00439 | 3.02  | 2.19  | 1.91  | .685 | .0329 | .735 | 138.1   | 46.6   | 151.8  | 51.2   | 6.01 | 5.53  | 4.89 |
| 18-50- 80 | 19.62  | 26.80  | .00685 | .01259 | .00411 | .00445 | 2.88  | 2.19  | 1.90  | .685 | .0335 | .728 | 119.9   | 41.1   | 131.6  | 45.1   | 6.23 | 5.74  | 5.11 |
| 18-50- 81 | 17.74  | 25.98  | .00676 | .01232 | .00420 | .00455 | 2.75  | 2.19  | 1.99  | .685 | .0336 | .728 | 114.3   | 36.0   | 126.4  | 39.8   | 6.42 | 5.94  | 5.22 |
| 18-50- 82 | 15.82  | 22.28  | .00671 | .01184 | .00425 | .00461 | 2.59  | 2.19  | 1.97  | .685 | .0345 | .720 | 99.1    | 31.6   | 109.4  | 34.9   | 6.76 | 6.27  | 5.55 |
| 18-50- 83 | 14.31  | 21.64  | .00660 | .01143 | .00424 | .00459 | 2.44  | 2.19  | 2.09  | .685 | .0347 | .718 | 94.4    | 27.7   | 105.1  | 30.7   | 7.31 | 6.82  | 5.92 |
| 18-50- 84 | 124.88 | 284.51 | .00742 | .01852 | .0     | .0     | 5.46  | 1.00  | 1.00  | .690 | .0262 | .825 | 1103.91 | 103.91 | 103.91 | 103.9  | 3.32 | 2.94  | 3.32 |
| 18-50- 85 | 116.22 | 264.03 | .00747 | .01858 | .0     | .0     | 5.42  | 1.00  | 1.00  | .690 | .0262 | .824 | 1029.1  | 1029.1 | 1029.1 | 1029.1 | 3.31 | 2.92  | 3.31 |
| 18-50- 86 | 103.53 | 233.86 | .00752 | .01861 | .0     | .0     | 5.32  | 1.00  | 1.00  | .690 | .0264 | .822 | 917.5   | 917.5  | 917.5  | 917.5  | 3.31 | 2.92  | 3.31 |
| 18-50- 87 | 93.53  | 210.00 | .00756 | .01858 | .0     | .0     | 5.23  | 1.00  | 1.00  | .690 | .0265 | .820 | 828.3   | 828.3  | 828.3  | 828.3  | 3.33 | 2.94  | 3.33 |
| 18-50- 88 | 83.48  | 186.66 | .00766 | .01876 | .0     | .0     | 5.18  | 1.00  | 1.00  | .690 | .0266 | .819 | 742.6   | 742.6  | 742.6  | 742.6  | 3.30 | 2.91  | 3.30 |
| 18-50- 89 | 75.51  | 167.20 | .00762 | .01848 | .0     | .0     | 5.03  | 1.00  | 1.00  | .690 | .0267 | .816 | 666.8   | 666.8  | 666.8  | 666.8  | 3.40 | 3.00  | 3.40 |
| 18-50- 90 | 67.08  | 148.66 | .00783 | .01902 | .0     | .0     | 5.06  | 1.00  | 1.00  | .689 | .0267 | .816 | 600.6   | 600.6  | 600.6  | 600.6  | 3.25 | 2.86  | 3.25 |
| 18-50- 91 | 66.08  | 145.77 | .00775 | .01873 | .0     | .0     | 4.98  | 1.00  | 1.00  | .689 | .0268 | .814 | 587.4   | 587.4  | 587.4  | 587.4  | 3.33 | 2.94  | 3.33 |
| 18-50- 92 | 61.17  | 134.40 | .00780 | .01878 | .0     | .0     | 4.93  | 1.00  | 1.00  | .689 | .0269 | .813 | 544.4   | 544.4  | 544.4  | 544.4  | 3.33 | 2.93  | 3.33 |
| 18-50- 93 | 55.83  | 121.82 | .00782 | .01868 | .0     | .0     | 4.83  | 1.00  | 1.00  | .689 | .0270 | .811 | 495.6   | 495.6  | 495.6  | 495.6  | 3.38 | 2.98  | 3.38 |
| 18-50- 94 | 50.00  | 108.46 | .00788 | .01873 | .0     | .0     | 4.75  | 1.00  | 1.00  | .689 | .0272 | .809 | 444.4   | 444.4  | 444.4  | 444.4  | 3.38 | 2.98  | 3.38 |
| 18-50- 95 | 45.31  | 97.17  | .00783 | .01834 | .0     | .0     | 4.58  | 1.00  | 1.00  | .689 | .0274 | .805 | 399.0   | 399.0  | 399.0  | 399.0  | 3.49 | 3.09  | 3.49 |
| 18-50- 96 | 40.14  | 85.43  | .00789 | .01835 | .0     | .0     | 4.49  | 1.00  | 1.00  | .689 | .0275 | .803 | 353.5   | 353.5  | 353.5  | 353.5  | 3.51 | 3.10  | 3.51 |
| 18-50- 97 | 36.25  | 76.58  | .00793 | .01828 | .0     | .0     | 4.39  | 1.00  | 1.00  | .689 | .0277 | .800 | 318.8   | 318.8  | 318.8  | 318.8  | 3.54 | 3.13  | 3.54 |
| 18-50- 98 | 32.51  | 68.08  | .00795 | .01816 | .0     | .0     | 4.29  | 1.00  | 1.00  | .689 | .0279 | .797 | 285.1   | 285.1  | 285.1  | 285.1  | 3.59 | 3.18  | 3.59 |
| 18-50- 99 | 29.29  | 61.02  | .00804 | .01826 | .0     | .0     | 4.23  | 1.00  | 1.00  | .690 | .0280 | .796 | 257.5   | 257.5  | 257.5  | 257.5  | 3.57 | 3.16  | 3.57 |
| 18-50-100 | 26.33  | 54.60  | .00814 | .01841 | .0     | .0     | 4.18  | 1.00  | 1.00  | .690 | .0281 | .794 | 232.5   | 232.5  | 232.5  | 232.5  | 3.53 | 3.12  | 3.53 |

| VERS.NR.  | RE*E4  | Q<Kw/M2> | ST1+/<br>ST1*/<br>STI+/<br>STT*/<br>STIF/ | H+   | G+   | GPR01 | G*     | G*R  | GT   | GTR  | GTR1 | GTF  | GTR  | X    | YR   | YG   |      |       |      |
|-----------|--------|----------|---|------|------|-------|--------|------|------|------|------|------|------|------|------|------|------|-------|------|
| 18-50-51  | 60.48  | 560      | 1.09 1.05                                 | 1.12 | 1.09 | 1.14  | 464.3  | 16.4 | 13.3 | 17.1 | 18.7 | 15.6 | 18.5 | 15.0 | 15.3 | 16.8 | 2.74 | 10.95 | 22.2 |
| 18-50-52  | 55.54  | 516      | 1.09 1.05                                 | 1.13 | 1.09 | 1.14  | 425.7  | 16.1 | 13.1 | 16.9 | 18.4 | 15.4 | 18.3 | 14.8 | 15.0 | 16.6 | 2.74 | 10.96 | 21.9 |
| 18-50-53  | 49.30  | 472      | 1.09 1.05                                 | 1.13 | 1.09 | 1.15  | 369.3  | 15.3 | 12.4 | 16.1 | 17.5 | 14.6 | 17.4 | 14.0 | 14.2 | 15.6 | 2.72 | 11.14 | 21.0 |
| 18-50-54  | 44.36  | 435      | 1.09 1.06                                 | 1.13 | 1.09 | 1.15  | 335.4  | 15.1 | 12.2 | 15.8 | 17.3 | 14.3 | 17.1 | 13.8 | 13.9 | 15.3 | 2.72 | 11.02 | 20.7 |
| 18-50-55  | 39.47  | 392      | 1.10 1.06                                 | 1.14 | 1.09 | 1.16  | 295.9  | 14.6 | 11.8 | 15.4 | 16.8 | 13.8 | 16.6 | 13.4 | 13.4 | 14.8 | 2.71 | 11.09 | 20.2 |
| 18-50-56  | 35.70  | 362      | 1.10 1.06                                 | 1.14 | 1.10 | 1.17  | 264.1  | 13.9 | 11.3 | 14.7 | 16.0 | 13.1 | 15.8 | 12.7 | 12.7 | 14.0 | 2.70 | 11.19 | 19.5 |
| 18-50-57  | 32.04  | 327      | 1.10 1.06                                 | 1.15 | 1.10 | 1.17  | 236.2  | 13.5 | 11.0 | 14.3 | 15.7 | 12.8 | 15.4 | 12.4 | 12.3 | 13.7 | 2.69 | 11.21 | 19.1 |
| 18-50-58  | 28.70  | 305      | 1.11 1.06                                 | 1.15 | 1.10 | 1.18  | 207.2  | 12.7 | 10.3 | 13.5 | 14.8 | 11.9 | 14.5 | 11.6 | 11.5 | 12.7 | 2.67 | 11.36 | 18.1 |
| 18-50-59  | 25.94  | 280      | 1.11 1.06                                 | 1.15 | 1.10 | 1.18  | 189.2  | 12.5 | 10.2 | 13.3 | 14.6 | 11.8 | 14.3 | 11.5 | 11.3 | 12.5 | 2.67 | 11.23 | 18.0 |
| 18-50-60  | 14.36  | 177      | 1.17 1.09                                 | 1.24 | 1.15 | 1.31  | 93.5   | 8.7  | 7.1  | 9.6  | 10.6 | 7.9  | 10.2 | 7.9  | 7.2  | 8.2  | 2.53 | 11.78 | 13.5 |
| 18-50-61  | 128.96 | 1202     | 1.07 1.04                                 | 1.10 | 1.07 | 1.12  | 957.0  | 21.4 | 16.3 | 22.2 | 22.6 | 20.6 | 23.0 | 18.7 | 20.2 | 20.6 | 2.76 | 11.32 | 27.1 |
| 18-50-62  | 114.72 | 1111     | 1.07 1.04                                 | 1.10 | 1.07 | 1.12  | 846.9  | 20.5 | 15.7 | 21.4 | 21.8 | 19.8 | 22.1 | 18.0 | 19.3 | 19.7 | 2.75 | 11.32 | 26.2 |
| 18-50-63  | 102.01 | 1012     | 1.07 1.04                                 | 1.10 | 1.07 | 1.12  | 757.1  | 20.3 | 15.5 | 21.2 | 21.5 | 19.5 | 21.9 | 17.8 | 19.1 | 19.4 | 2.75 | 11.25 | 26.0 |
| 18-50-64  | 91.13  | 935      | 1.07 1.04                                 | 1.11 | 1.07 | 1.13  | 661.5  | 19.1 | 14.5 | 19.9 | 20.2 | 18.3 | 20.6 | 16.7 | 17.8 | 18.1 | 2.74 | 11.42 | 24.7 |
| 18-50-65  | 81.91  | 845      | 1.08 1.04                                 | 1.11 | 1.07 | 1.13  | 591.1  | 18.4 | 14.1 | 19.3 | 19.7 | 17.6 | 20.0 | 16.2 | 17.2 | 17.5 | 2.73 | 11.47 | 24.0 |
| 18-50-66  | 73.45  | 784      | 1.08 1.04                                 | 1.11 | 1.07 | 1.14  | 526.6  | 18.0 | 13.7 | 18.8 | 19.1 | 17.2 | 19.4 | 15.7 | 16.7 | 17.0 | 2.72 | 11.48 | 23.5 |
| 18-50-67  | 66.10  | 718      | 1.08 1.04                                 | 1.12 | 1.08 | 1.14  | 474.1  | 17.4 | 13.3 | 18.3 | 18.6 | 16.6 | 18.9 | 15.2 | 16.1 | 16.4 | 2.71 | 11.45 | 22.9 |
| 18-50-68  | 65.05  | 708      | 1.08 1.04                                 | 1.12 | 1.08 | 1.14  | 471.9  | 17.6 | 13.5 | 18.5 | 18.9 | 16.9 | 19.2 | 15.5 | 16.4 | 16.7 | 2.72 | 11.34 | 23.2 |
| 18-50-69  | 59.74  | 658      | 1.08 1.04                                 | 1.12 | 1.08 | 1.15  | 429.2  | 17.0 | 13.1 | 17.9 | 18.3 | 16.3 | 18.5 | 15.0 | 15.7 | 16.1 | 2.71 | 11.42 | 22.5 |
| 18-50-70  | 54.66  | 617      | 1.09 1.04                                 | 1.12 | 1.08 | 1.15  | 387.5  | 16.4 | 12.6 | 17.3 | 17.6 | 15.6 | 17.9 | 14.4 | 15.1 | 15.4 | 2.70 | 11.52 | 21.8 |
| 18-50-71  | 49.08  | 560      | 1.09 1.04                                 | 1.13 | 1.08 | 1.16  | 341.7  | 15.7 | 12.0 | 16.6 | 16.9 | 14.9 | 17.1 | 13.7 | 14.3 | 14.7 | 2.68 | 11.66 | 21.0 |
| 18-50-72  | 43.98  | 519      | 1.09 1.05                                 | 1.13 | 1.08 | 1.16  | 306.6  | 15.1 | 11.6 | 16.0 | 16.4 | 14.4 | 16.5 | 13.3 | 13.8 | 14.1 | 2.68 | 11.59 | 20.5 |
| 18-50-73  | 39.23  | 476      | 1.10 1.05                                 | 1.14 | 1.09 | 1.17  | 266.2  | 14.2 | 10.9 | 15.2 | 15.5 | 13.5 | 15.6 | 12.5 | 12.8 | 13.1 | 2.66 | 11.83 | 19.5 |
| 18-50-74  | 35.21  | 439      | 1.10 1.05                                 | 1.14 | 1.09 | 1.18  | 235.4  | 13.3 | 10.3 | 14.3 | 14.6 | 12.6 | 14.7 | 11.7 | 11.9 | 12.2 | 2.65 | 11.92 | 18.5 |
| 18-50-75  | 31.69  | 400      | 1.10 1.05                                 | 1.15 | 1.09 | 1.19  | 207.9  | 13.0 | 10.0 | 14.0 | 14.2 | 12.2 | 14.3 | 11.3 | 11.5 | 11.8 | 2.63 | 12.09 | 18.1 |
| 18-50-76  | 28.41  | 361      | 1.10 1.05                                 | 1.15 | 1.09 | 1.20  | 184.9  | 12.7 | 9.8  | 13.6 | 13.9 | 11.9 | 13.9 | 11.1 | 11.2 | 11.5 | 2.62 | 12.14 | 17.7 |
| 18-50-77  | 26.00  | 336      | 1.11 1.05                                 | 1.16 | 1.10 | 1.21  | 166.0  | 12.0 | 9.3  | 13.0 | 13.3 | 11.2 | 13.2 | 10.5 | 10.5 | 10.8 | 2.60 | 12.29 | 17.0 |
| 18-50-78  | 24.13  | 315      | 1.11 1.05                                 | 1.16 | 1.09 | 1.21  | 154.6  | 12.1 | 9.3  | 13.1 | 13.3 | 11.3 | 13.3 | 10.5 | 10.5 | 10.8 | 2.60 | 12.22 | 17.0 |
| 18-50-79  | 22.14  | 295      | 1.11 1.05                                 | 1.17 | 1.10 | 1.22  | 139.1  | 11.4 | 8.8  | 12.4 | 12.7 | 10.6 | 12.6 | 9.9  | 9.8  | 10.1 | 2.58 | 12.44 | 16.3 |
| 18-50-80  | 19.62  | 265      | 1.12 1.05                                 | 1.17 | 1.10 | 1.23  | 119.9  | 10.8 | 8.4  | 11.9 | 12.1 | 10.0 | 12.0 | 9.4  | 9.2  | 9.5  | 2.56 | 12.60 | 15.6 |
| 18-50-81  | 17.74  | 246      | 1.15 1.08                                 | 1.21 | 1.13 | 1.24  | 114.3  | 9.8  | 7.6  | 10.9 | 11.3 | 9.0  | 11.0 | 8.6  | 8.7  | 9.1  | 2.56 | 12.74 | 15.1 |
| 18-50-82  | 15.82  | 222      | 1.16 1.08                                 | 1.22 | 1.13 | 1.25  | 99.1   | 9.3  | 7.1  | 10.4 | 10.7 | 8.5  | 10.4 | 8.1  | 8.1  | 8.4  | 2.53 | 13.00 | 14.4 |
| 18-50-83  | 14.31  | 199      | 1.20 1.11                                 | 1.27 | 1.17 | 1.25  | 94.4   | 8.5  | 6.6  | 9.7  | 10.2 | 7.7  | 9.7  | 7.5  | 8.0  | 8.4  | 2.52 | 13.23 | 14.3 |
| 18-50-84  | 124.88 | 0        | 0.0 0.0                                   | 0.0  | 0.0  | 0.0   | 1103.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.83 | 10.39 | 0.0  |
| 18-50-85  | 116.22 | 0        | 0.0 0.0                                   | 0.0  | 0.0  | 0.0   | 1029.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.83 | 10.38 | 0.0  |
| 18-50-86  | 103.53 | 0        | 0.0 0.0                                   | 0.0  | 0.0  | 0.0   | 917.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.83 | 10.37 | 0.0  |
| 18-50-87  | 93.53  | 0        | 0.0 0.0                                   | 0.0  | 0.0  | 0.0   | 828.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.82 | 10.37 | 0.0  |
| 18-50-88  | 83.48  | 0        | 0.0 0.0                                   | 0.0  | 0.0  | 0.0   | 742.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.82 | 10.32 | 0.0  |
| 18-50-89  | 75.51  | 0        | 0.0 0.0                                   | 0.0  | 0.0  | 0.0   | 666.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.81 | 10.40 | 0.0  |
| 18-50-90  | 67.08  | 0        | 0.0 0.0                                   | 0.0  | 0.0  | 0.0   | 600.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.81 | 10.25 | 0.0  |
| 18-50-91  | 66.08  | 0        | 0.0 0.0                                   | 0.0  | 0.0  | 0.0   | 587.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.81 | 10.33 | 0.0  |
| 18-50-92  | 61.17  | 0        | 0.0 0.0                                   | 0.0  | 0.0  | 0.0   | 544.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.80 | 10.35 | 0.0  |
| 18-50-93  | 55.83  | 0        | 0.0 0.0                                   | 0.0  | 0.0  | 0.0   | 495.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.80 | 10.35 | 0.0  |
| 18-50-94  | 50.00  | 0        | 0.0 0.0                                   | 0.0  | 0.0  | 0.0   | 444.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.79 | 10.33 | 0.0  |
| 18-50-95  | 45.31  | 0        | 0.0 0.0                                   | 0.0  | 0.0  | 0.0   | 399.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.78 | 10.44 | 0.0  |
| 18-50-96  | 40.14  | 0        | 0.0 0.0                                   | 0.0  | 0.0  | 0.0   | 353.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.78 | 10.44 | 0.0  |
| 18-50-97  | 36.25  | 0        | 0.0 0.0                                   | 0.0  | 0.0  | 0.0   | 318.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.77 | 10.46 | 0.0  |
| 18-50-98  | 32.51  | 0        | 0.0 0.0                                   | 0.0  | 0.0  | 0.0   | 285.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.76 | 10.49 | 0.0  |
| 18-50-99  | 29.29  | 0        | 0.0 0.0                                   | 0.0  | 0.0  | 0.0   | 257.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.76 | 10.47 | 0.0  |
| 18-50-100 | 26.33  | 0        | 0.0 0.0                                   | 0.0  | 0.0  | 0.0   | 232.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.76 | 10.42 | 0.0  |

NITROGEN

| VERS.NR.  | RE*E4 | RE1*E4 | F      | F1     | STB | STPR | F1/F2 | TW/TA | TW/T1 | PR   | H/Y   | BETA | H+    | H+W   | H+R   | H+RW  | RH+  | RH+01 | RH+R |
|-----------|-------|--------|--------|--------|-----|------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|------|-------|------|
| 18-50-101 | 26.94 | 55.81  | .00809 | .01826 | .0  | .0   | 4.16  | 1.00  | 1.00  | .690 | .0281 | .794 | 236.9 | 236.9 | 236.9 | 236.9 | 3.58 | 3.17  | 3.58 |
| 18-50-102 | 24.97 | 51.45  | .00814 | .01827 | .0  | .0   | 4.11  | 1.00  | 1.00  | .690 | .0282 | .792 | 219.6 | 219.6 | 219.6 | 219.6 | 3.60 | 3.18  | 3.60 |
| 18-50-103 | 22.79 | 46.39  | .00811 | .01799 | .0  | .0   | 3.98  | 1.00  | 1.00  | .690 | .0285 | .788 | 198.9 | 198.9 | 198.9 | 198.9 | 3.72 | 3.30  | 3.72 |

| VERS.NR.  | RE*E4 | Q<KW/M2> | ST1*/ | ST1*/ | STT*/ | STT*/ | ST1F/ | H*    | G*  | GPR01 | G*  | G*R | GT  | GTR | GTR1 | GTF | GTFR | X    | YR    | YG  |
|-----------|-------|----------|-------|-------|-------|-------|-------|-------|-----|-------|-----|-----|-----|-----|------|-----|------|------|-------|-----|
| 18-50-101 | 26.94 | 0        | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 236.9 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.76 | 10.47 | 0.0 |
| 18-50-102 | 24.97 | 0        | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 219.6 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.75 | 10.46 | 0.0 |
| 18-50-103 | 22.79 | 0        | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 198.9 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 2.74 | 10.54 | 0.0 |

AIR

| VERS.NR. | RE*E4 | RE1*E4 | F     | F1     | STB    | STPR   | F1/F2  | TW/TB | TW/T1 | PR   | H/Y  | BETA  | H+   | H+W   | H+R   | H+RW  | RH+   | RH+01 | RH+R |      |
|----------|-------|--------|-------|--------|--------|--------|--------|-------|-------|------|------|-------|------|-------|-------|-------|-------|-------|------|------|
| 18-50-   | 1     | 32.67  | 65.07 | .00798 | .01814 | .00417 | .00365 | 4.32  | 1.32  | 1.29 | .704 | .0282 | .794 | 276.7 | 178.8 | 287.0 | 185.5 | 3.62  | 3.21 | 3.25 |
| 18-50-   | 2     | 24.37  | 47.36 | .00814 | .01808 | .00439 | .00384 | 4.09  | 1.32  | 1.28 | .704 | .0286 | .787 | 205.5 | 133.8 | 213.1 | 138.7 | 3.68  | 3.26 | 3.31 |
| 18-50-   | 3     | 18.78  | 35.64 | .00826 | .01797 | .00460 | .00402 | 3.88  | 1.32  | 1.28 | .704 | .0291 | .780 | 157.6 | 102.8 | 163.3 | 106.5 | 3.76  | 3.33 | 3.39 |
| 18-50-   | 4     | 14.79  | 27.44 | .00842 | .01794 | .00475 | .00415 | 3.71  | 1.32  | 1.28 | .704 | .0295 | .774 | 123.6 | 80.7  | 128.1 | 83.6  | 3.81  | 3.38 | 3.44 |
| 18-50-   | 5     | 11.82  | 21.40 | .00852 | .01777 | .00487 | .00426 | 3.52  | 1.32  | 1.28 | .704 | .0300 | .768 | 98.1  | 63.9  | 101.7 | 66.2  | 3.91  | 3.47 | 3.53 |
| 18-50-   | 6     | 9.51   | 16.79 | .00866 | .01767 | .00518 | .00454 | 3.36  | 1.33  | 1.28 | .704 | .0305 | .762 | 78.4  | 51.1  | 81.3  | 53.0  | 3.98  | 3.53 | 3.60 |
| 18-50-   | 7     | 7.69   | 13.29 | .00881 | .01762 | .00535 | .00468 | 3.22  | 1.32  | 1.27 | .704 | .0310 | .756 | 63.2  | 41.6  | 65.5  | 43.1  | 4.03  | 3.58 | 3.67 |
| 18-50-   | 8     | 6.15   | 10.36 | .00895 | .01746 | .00549 | .00480 | 3.05  | 1.32  | 1.27 | .704 | .0315 | .749 | 50.3  | 33.2  | 52.0  | 34.4  | 4.14  | 3.68 | 3.77 |
| 18-50-   | 9     | 6.17   | 10.39 | .00897 | .01750 | .00544 | .00476 | 3.06  | 1.33  | 1.27 | .704 | .0315 | .749 | 50.4  | 33.2  | 52.2  | 34.4  | 4.12  | 3.66 | 3.75 |
| 18-50-   | 10    | 5.11   | 8.41  | .00913 | .01743 | .00557 | .00487 | 2.93  | 1.33  | 1.27 | .704 | .0320 | .744 | 41.6  | 27.5  | 43.0  | 28.4  | 4.18  | 3.72 | 3.82 |
| 18-50-   | 11    | 33.62  | 67.03 | .00799 | .01815 | .00407 | .00357 | 4.34  | 1.33  | 1.29 | .705 | .0281 | .795 | 284.5 | 182.5 | 295.2 | 189.4 | 3.61  | 3.20 | 3.23 |
| 18-50-   | 12    | 32.67  | 57.81 | .00759 | .01660 | .00382 | .00388 | 4.04  | 1.90  | 1.77 | .702 | .0293 | .779 | 248.5 | 94.2  | 270.0 | 102.4 | 4.21  | 3.78 | 3.34 |
| 18-50-   | 13    | 24.06  | 41.10 | .00773 | .01646 | .00404 | .00408 | 3.80  | 1.89  | 1.75 | .702 | .0299 | .770 | 180.9 | 70.0  | 196.2 | 75.9  | 4.31  | 3.88 | 3.45 |
| 18-50-   | 14    | 18.41  | 30.26 | .00783 | .01617 | .00421 | .00425 | 3.56  | 1.88  | 1.73 | .701 | .0306 | .761 | 135.9 | 53.7  | 147.2 | 58.1  | 4.47  | 4.03 | 3.62 |
| 18-50-   | 15    | 14.43  | 22.79 | .00792 | .01585 | .00439 | .00443 | 3.34  | 1.88  | 1.71 | .701 | .0313 | .753 | 104.5 | 41.9  | 113.0 | 45.4  | 4.65  | 4.19 | 3.80 |
| 18-50-   | 16    | 11.56  | 17.56 | .00798 | .01552 | .00449 | .00454 | 3.15  | 1.89  | 1.71 | .702 | .0320 | .744 | 82.1  | 33.1  | 88.8  | 35.7  | 4.83  | 4.36 | 3.98 |
| 18-50-   | 17    | 9.28   | 13.69 | .00813 | .01544 | .00460 | .00465 | 3.00  | 1.89  | 1.70 | .702 | .0326 | .738 | 65.4  | 26.6  | 70.6  | 28.7  | 4.91  | 4.43 | 4.06 |
| 18-50-   | 18    | 7.50   | 10.64 | .00822 | .01510 | .00467 | .00471 | 2.82  | 1.89  | 1.69 | .702 | .0334 | .729 | 51.9  | 21.4  | 55.9  | 23.1  | 5.10  | 4.62 | 4.26 |
| 18-50-   | 19    | 5.99   | 8.16  | .00829 | .01473 | .00475 | .00478 | 2.63  | 1.88  | 1.68 | .701 | .0343 | .720 | 40.7  | 17.0  | 43.8  | 18.3  | 5.32  | 4.82 | 4.47 |
| 18-50-   | 20    | 4.96   | 6.43  | .00835 | .01415 | .00472 | .00476 | 2.44  | 1.89  | 1.66 | .702 | .0353 | .709 | 32.7  | 13.8  | 35.2  | 14.9  | 5.64  | 5.13 | 4.79 |
| 18-50-   | 21    | 31.79  | 50.17 | .00726 | .01516 | .00356 | .00406 | 3.73  | 2.40  | 2.13 | .701 | .0306 | .763 | 218.1 | 61.5  | 243.4 | 68.6  | 4.84  | 4.39 | 3.64 |
| 18-50-   | 22    | 23.64  | 35.47 | .00737 | .01484 | .00373 | .00425 | 3.47  | 2.39  | 2.10 | .700 | .0314 | .753 | 158.1 | 45.9  | 176.0 | 51.1  | 5.03  | 4.58 | 3.85 |
| 18-50-   | 23    | 18.06  | 25.86 | .00747 | .01455 | .00386 | .00439 | 3.25  | 2.39  | 2.07 | .700 | .0322 | .743 | 118.1 | 34.9  | 131.2 | 38.8  | 5.22  | 4.75 | 4.04 |
| 18-50-   | 24    | 14.20  | 19.41 | .00754 | .01420 | .00398 | .00452 | 3.04  | 2.37  | 2.04 | .699 | .0330 | .734 | 90.6  | 27.5  | 100.5 | 30.5  | 5.43  | 4.95 | 4.26 |
| 18-50-   | 25    | 5.23   | 8.53  | .00904 | .01721 | .00546 | .00483 | 2.92  | 1.36  | 1.30 | .705 | .0321 | .742 | 42.1  | 26.7  | 43.8  | 27.8  | 4.26  | 3.79 | 3.86 |
| 18-50-   | 26    | 4.13   | 6.54  | .00920 | .01698 | .00566 | .00498 | 2.74  | 1.35  | 1.29 | .705 | .0328 | .734 | 33.0  | 21.3  | 34.2  | 22.1  | 4.40  | 3.92 | 4.01 |
| 18-50-   | 27    | 3.32   | 5.07  | .00933 | .01660 | .00568 | .00499 | 2.56  | 1.35  | 1.28 | .705 | .0336 | .725 | 26.1  | 17.0  | 27.1  | 17.6  | 4.58  | 4.10 | 4.20 |
| 18-50-   | 28    | 2.65   | 3.86  | .00938 | .01590 | .00568 | .00500 | 2.34  | 1.35  | 1.28 | .705 | .0347 | .714 | 20.4  | 13.3  | 21.1  | 13.8  | 4.92  | 4.42 | 4.53 |
| 18-50-   | 29    | 33.38  | 71.79 | .00840 | .01980 | .0     | .0     | 4.65  | 1.00  | 1.00 | .706 | .0273 | .806 | 305.6 | 305.6 | 305.6 | 305.6 | 3.09  | 2.68 | 3.09 |
| 18-50-   | 30    | 24.57  | 51.61 | .00850 | .01955 | .0     | .0     | 4.36  | 1.00  | 1.00 | .705 | .0278 | .799 | 223.6 | 223.6 | 223.6 | 223.6 | 3.20  | 2.79 | 3.20 |
| 18-50-   | 31    | 18.98  | 39.04 | .00860 | .01931 | .0     | .0     | 4.11  | 1.00  | 1.00 | .705 | .0283 | .792 | 171.8 | 171.8 | 171.8 | 171.8 | 3.31  | 2.89 | 3.31 |
| 18-50-   | 32    | 14.92  | 30.23 | .00879 | .01943 | .0     | .0     | 3.95  | 1.00  | 1.00 | .705 | .0286 | .787 | 135.5 | 135.5 | 135.5 | 135.5 | 3.30  | 2.88 | 3.30 |
| 18-50-   | 33    | 11.97  | 23.86 | .00894 | .01941 | .0     | .0     | 3.79  | 1.00  | 1.00 | .705 | .0289 | .782 | 108.7 | 108.7 | 108.7 | 108.7 | 3.35  | 2.92 | 3.35 |
| 18-50-   | 34    | 9.63   | 18.85 | .00908 | .01931 | .0     | .0     | 3.61  | 1.00  | 1.00 | .706 | .0293 | .776 | 87.3  | 87.3  | 87.3  | 87.3  | 3.41  | 2.98 | 3.41 |
| 18-50-   | 35    | 7.96   | 15.36 | .00923 | .01931 | .0     | .0     | 3.48  | 1.00  | 1.00 | .706 | .0297 | .772 | 72.3  | 72.3  | 72.3  | 72.3  | 3.44  | 3.01 | 3.44 |
| 18-50-   | 36    | 6.37   | 12.09 | .00943 | .01938 | .0     | .0     | 3.34  | 1.00  | 1.00 | .706 | .0301 | .767 | 58.0  | 58.0  | 58.0  | 58.0  | 3.46  | 3.02 | 3.46 |
| 18-50-   | 37    | 5.26   | 9.81  | .00958 | .01929 | .0     | .0     | 3.19  | 1.00  | 1.00 | .707 | .0305 | .761 | 47.8  | 47.8  | 47.8  | 47.8  | 3.52  | 3.07 | 3.52 |
| 18-50-   | 38    | 5.34   | 10.00 | .00963 | .01952 | .0     | .0     | 3.24  | 1.00  | 1.00 | .707 | .0304 | .763 | 48.8  | 48.8  | 48.8  | 48.8  | 3.45  | 3.00 | 3.45 |
| 18-50-   | 39    | 4.24   | 7.80  | .00989 | .01964 | .0     | .0     | 3.10  | 1.00  | 1.00 | .707 | .0308 | .758 | 38.9  | 38.9  | 38.9  | 38.9  | 3.46  | 3.01 | 3.46 |
| 18-50-   | 40    | 3.37   | 6.05  | .01004 | .01934 | .0     | .0     | 2.91  | 1.00  | 1.00 | .708 | .0314 | .750 | 30.7  | 30.7  | 30.7  | 30.7  | 3.59  | 3.13 | 3.59 |
| 18-50-   | 41    | 2.72   | 4.76  | .01019 | .01904 | .0     | .0     | 2.74  | 1.00  | 1.00 | .708 | .0320 | .742 | 24.6  | 24.6  | 24.6  | 24.6  | 3.73  | 3.26 | 3.73 |
| 18-50-   | 42    | 2.22   | 3.75  | .01020 | .01826 | .0     | .0     | 2.52  | 1.00  | 1.00 | .708 | .0330 | .732 | 19.8  | 19.8  | 19.8  | 19.8  | 4.02  | 3.54 | 4.02 |
| 18-50-   | 43    | 1.80   | 2.92  | .01017 | .01727 | .0     | .0     | 2.28  | 1.00  | 1.00 | .708 | .0341 | .719 | 15.6  | 15.6  | 15.6  | 15.6  | 4.41  | 3.92 | 4.41 |

| VERS.NR. | RE*E4 | Q<KW/M2> | ST1+/<br>ST1*/ | STT+/<br>STT*/ | ST1F/<br>ST1F/ | H+   | G+   | GPR01 | G*   | G*R  | GT   | GTR  | GTR1 | GTF  | GTFR | X    | YR   | YG   |       |      |
|----------|-------|----------|----------------|----------------|----------------|------|------|-------|------|------|------|------|------|------|------|------|------|------|-------|------|
| 18-50- 1 | 32.67 | 82.7     | 1.11           | 1.07           | 1.15           | 1.11 | 1.14 | 276.7 | 13.7 | 13.4 | 14.4 | 14.5 | 12.9 | 17.3 | 14.1 | 13.2 | 17.3 | 2.75 | 10.50 | 20.1 |
| 18-50- 2 | 24.37 | 64.8     | 1.12           | 1.08           | 1.16           | 1.12 | 1.15 | 205.5 | 12.5 | 12.3 | 13.3 | 17.2 | 11.8 | 16.0 | 12.9 | 12.0 | 15.9 | 2.73 | 10.52 | 18.9 |
| 18-50- 3 | 18.78 | 52.6     | 1.13           | 1.08           | 1.17           | 1.12 | 1.16 | 157.6 | 11.5 | 11.3 | 12.3 | 16.0 | 10.8 | 14.8 | 12.0 | 11.0 | 14.7 | 2.72 | 10.55 | 17.8 |
| 18-50- 4 | 14.79 | 42.6     | 1.13           | 1.09           | 1.18           | 1.13 | 1.17 | 123.6 | 10.9 | 10.7 | 11.6 | 15.3 | 10.1 | 14.0 | 11.3 | 10.3 | 13.9 | 2.70 | 10.56 | 17.1 |
| 18-50- 5 | 11.82 | 35.5     | 1.14           | 1.09           | 1.19           | 1.13 | 1.18 | 98.1  | 10.3 | 10.1 | 11.1 | 14.6 | 9.6  | 13.4 | 10.7 | 9.7  | 13.2 | 2.68 | 10.61 | 16.4 |
| 18-50- 6 | 9.51  | 30.6     | 1.15           | 1.10           | 1.20           | 1.14 | 1.20 | 78.4  | 9.2  | 9.0  | 9.9  | 13.2 | 8.5  | 12.0 | 9.6  | 8.5  | 11.7 | 2.66 | 10.64 | 15.2 |
| 18-50- 7 | 7.69  | 25.2     | 1.15           | 1.10           | 1.21           | 1.15 | 1.21 | 63.2  | 8.6  | 8.4  | 9.3  | 12.5 | 7.9  | 11.3 | 9.0  | 7.9  | 11.0 | 2.65 | 10.65 | 14.5 |
| 18-50- 8 | 6.15  | 20.7     | 1.16           | 1.11           | 1.22           | 1.16 | 1.22 | 50.3  | 8.1  | 7.9  | 8.8  | 11.9 | 7.4  | 10.7 | 8.5  | 7.3  | 10.4 | 2.63 | 10.70 | 13.9 |
| 18-50- 9 | 6.17  | 20.7     | 1.16           | 1.10           | 1.22           | 1.15 | 1.22 | 50.4  | 8.2  | 8.1  | 9.0  | 12.1 | 7.5  | 10.9 | 8.6  | 7.5  | 10.6 | 2.63 | 10.69 | 14.1 |
| 18-50-10 | 5.11  | 17.5     | 1.17           | 1.11           | 1.23           | 1.16 | 1.23 | 41.6  | 7.8  | 7.6  | 8.6  | 11.7 | 7.1  | 10.4 | 8.2  | 7.1  | 10.1 | 2.61 | 10.71 | 13.6 |
| 18-50-11 | 33.62 | 83.9     | 1.11           | 1.07           | 1.15           | 1.11 | 1.13 | 284.5 | 14.1 | 13.8 | 15.0 | 19.2 | 13.4 | 17.9 | 14.5 | 13.8 | 17.9 | 2.75 | 10.50 | 20.7 |
| 18-50-12 | 32.67 | 224.6    | 1.10           | 1.06           | 1.14           | 1.09 | 1.15 | 248.5 | 15.0 | 12.3 | 15.8 | 17.4 | 14.2 | 17.2 | 13.8 | 13.9 | 15.5 | 2.71 | 10.98 | 20.7 |
| 18-50-13 | 24.06 | 173.7    | 1.10           | 1.06           | 1.15           | 1.10 | 1.17 | 180.9 | 13.6 | 11.2 | 14.4 | 16.1 | 12.9 | 15.8 | 12.7 | 12.6 | 14.1 | 2.68 | 11.02 | 19.3 |
| 18-50-14 | 18.41 | 138.9    | 1.11           | 1.06           | 1.16           | 1.11 | 1.18 | 135.9 | 12.5 | 10.3 | 13.4 | 15.0 | 11.8 | 14.6 | 11.6 | 11.4 | 12.9 | 2.66 | 11.12 | 18.1 |
| 18-50-15 | 14.43 | 113.5    | 1.12           | 1.07           | 1.17           | 1.11 | 1.20 | 104.5 | 11.5 | 9.5  | 12.4 | 13.9 | 10.8 | 13.4 | 10.7 | 10.4 | 11.8 | 2.63 | 11.23 | 16.9 |
| 18-50-16 | 11.56 | 93.0     | 1.13           | 1.07           | 1.18           | 1.11 | 1.21 | 82.1  | 10.9 | 9.0  | 11.8 | 13.2 | 10.2 | 12.7 | 10.1 | 9.7  | 11.0 | 2.61 | 11.35 | 16.2 |
| 18-50-17 | 9.28  | 76.5     | 1.13           | 1.07           | 1.18           | 1.12 | 1.22 | 65.4  | 10.4 | 8.5  | 11.3 | 12.7 | 9.7  | 12.2 | 9.6  | 9.1  | 10.4 | 2.59 | 11.38 | 15.6 |
| 18-50-18 | 7.50  | 62.4     | 1.14           | 1.07           | 1.19           | 1.12 | 1.24 | 51.9  | 9.9  | 8.2  | 10.9 | 12.2 | 9.2  | 11.7 | 9.2  | 8.6  | 9.9  | 2.56 | 11.51 | 15.0 |
| 18-50-19 | 5.99  | 50.7     | 1.14           | 1.08           | 1.20           | 1.13 | 1.26 | 40.7  | 9.5  | 7.8  | 10.4 | 11.7 | 8.7  | 11.2 | 8.7  | 8.1  | 9.3  | 2.53 | 11.65 | 14.4 |
| 18-50-20 | 4.96  | 41.9     | 1.15           | 1.08           | 1.21           | 1.13 | 1.27 | 32.7  | 9.3  | 7.6  | 10.3 | 11.5 | 8.5  | 10.9 | 8.5  | 7.8  | 9.0  | 2.50 | 11.89 | 14.1 |
| 18-50-21 | 31.79 | 330.2    | 1.08           | 1.04           | 1.12           | 1.08 | 1.17 | 218.1 | 15.9 | 11.6 | 16.8 | 16.3 | 15.2 | 16.9 | 13.5 | 14.4 | 13.8 | 2.66 | 11.49 | 21.0 |
| 18-50-22 | 23.64 | 257.4    | 1.09           | 1.04           | 1.13           | 1.08 | 1.18 | 158.1 | 14.6 | 10.7 | 15.6 | 15.1 | 13.9 | 15.6 | 12.4 | 13.0 | 12.5 | 2.63 | 11.61 | 19.6 |
| 18-50-23 | 18.06 | 204.7    | 1.09           | 1.04           | 1.14           | 1.08 | 1.20 | 118.1 | 13.7 | 10.0 | 14.7 | 14.1 | 12.9 | 14.6 | 11.6 | 12.0 | 11.5 | 2.60 | 11.72 | 18.5 |
| 18-50-24 | 14.20 | 165.3    | 1.10           | 1.04           | 1.15           | 1.09 | 1.21 | 90.6  | 12.8 | 9.4  | 13.8 | 13.3 | 12.0 | 13.8 | 10.8 | 11.0 | 10.6 | 2.57 | 11.87 | 17.5 |
| 18-50-25 | 5.23  | 19.1     | 1.16           | 1.11           | 1.22           | 1.16 | 1.23 | 42.1  | 8.1  | 7.8  | 8.8  | 11.8 | 7.4  | 10.6 | 8.4  | 7.3  | 10.2 | 2.61 | 10.78 | 13.8 |
| 18-50-26 | 4.13  | 15.0     | 1.17           | 1.11           | 1.24           | 1.17 | 1.25 | 33.0  | 7.4  | 7.2  | 8.2  | 11.1 | 6.7  | 9.8  | 7.8  | 6.6  | 9.4  | 2.58 | 10.85 | 13.0 |
| 18-50-27 | 3.32  | 12.1     | 1.19           | 1.11           | 1.25           | 1.17 | 1.26 | 26.1  | 7.1  | 6.9  | 8.0  | 10.9 | 6.5  | 9.5  | 7.5  | 6.3  | 9.1  | 2.56 | 10.97 | 12.7 |
| 18-50-28 | 2.65  | 9.6      | 1.20           | 1.12           | 1.26           | 1.18 | 1.28 | 20.4  | 6.8  | 6.6  | 7.7  | 10.5 | 6.1  | 9.1  | 7.1  | 6.0  | 8.7  | 2.52 | 11.22 | 12.3 |
| 18-50-29 | 33.38 | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 305.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.79 | 10.05 | 0.0  |
| 18-50-30 | 24.57 | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 223.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.77 | 10.12 | 0.0  |
| 18-50-31 | 18.98 | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 171.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.75 | 10.18 | 0.0  |
| 18-50-32 | 14.92 | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 135.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.74 | 10.15 | 0.0  |
| 18-50-33 | 11.97 | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 108.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.72 | 10.15 | 0.0  |
| 18-50-34 | 9.63  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 87.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.71 | 10.18 | 0.0  |
| 18-50-35 | 7.96  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 72.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.69 | 10.18 | 0.0  |
| 18-50-36 | 6.37  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 58.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.68 | 10.16 | 0.0  |
| 18-50-37 | 5.26  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 47.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.67 | 10.18 | 0.0  |
| 18-50-38 | 5.34  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 48.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.67 | 10.12 | 0.0  |
| 18-50-39 | 4.24  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 38.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.65 | 10.09 | 0.0  |
| 18-50-40 | 3.37  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 30.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.63 | 10.17 | 0.0  |
| 18-50-41 | 2.72  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 24.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.61 | 10.25 | 0.0  |
| 18-50-42 | 2.22  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 19.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.58 | 10.46 | 0.0  |
| 18-50-43 | 1.80  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 15.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.54 | 10.76 | 0.0  |

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| VERS.NR. | RE*E4 | RE1*E4 | F      | F1     | STB    | STPR   | F1/F2 | TW/TR | TW/T1 | PR   | H/Y   | RETA | H+    | H+W   | H+R   | H+RW  | RH+  | RH+01 | RH+R |
|----------|-------|--------|--------|--------|--------|--------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|------|-------|------|
| 19-50- 1 | 5.93  | 9.66   | .00834 | .01521 | .00574 | .00504 | 2.66  | 1.44  | 1.39  | .667 | .0328 | .734 | 46.1  | 26.6  | 48.3  | 27.9  | 5.01 | 4.54  | 4.47 |
| 19-50- 2 | 6.53  | 9.95   | .00790 | .01386 | .00523 | .00502 | 2.50  | 1.75  | 1.66  | .667 | .0339 | .723 | 47.2  | 20.4  | 50.8  | 22.0  | 5.64 | 5.16  | 4.80 |
| 19-50- 3 | 5.86  | 7.41   | .00783 | .01276 | .00537 | .00516 | 2.29  | 1.75  | 1.53  | .667 | .0361 | .701 | 36.8  | 18.2  | 39.2  | 19.3  | 6.35 | 5.83  | 5.60 |
| 19-50- 4 | 5.21  | 6.30   | .00779 | .01223 | .00543 | .00522 | 2.15  | 1.76  | 1.52  | .667 | .0371 | .692 | 31.8  | 15.8  | 33.8  | 16.8  | 6.69 | 6.16  | 5.93 |
| 19-50- 5 | 9.05  | 13.63  | .00753 | .01338 | .00503 | .00516 | 2.59  | 1.98  | 1.85  | .667 | .0337 | .726 | 63.1  | 22.8  | 69.0  | 24.9  | 5.85 | 5.36  | 4.82 |
| 19-50- 6 | 8.05  | 11.88  | .00758 | .01324 | .00512 | .00525 | 2.51  | 1.99  | 1.85  | .667 | .0342 | .721 | 55.6  | 20.1  | 60.8  | 21.9  | 5.95 | 5.46  | 4.92 |
| 19-50- 7 | 7.18  | 8.43   | .00751 | .01207 | .00513 | .00525 | 2.28  | 1.99  | 1.67  | .667 | .0368 | .696 | 41.8  | 17.9  | 45.0  | 19.2  | 6.73 | 6.21  | 5.81 |
| 19-50- 8 | 6.33  | 7.16   | .00754 | .01178 | .00521 | .00533 | 2.17  | 1.99  | 1.66  | .667 | .0376 | .688 | 36.1  | 15.6  | 38.8  | 16.8  | 6.97 | 6.44  | 6.05 |
| 19-50- 9 | 5.66  | 6.05   | .00747 | .01117 | .00527 | .00537 | 2.02  | 1.97  | 1.63  | .667 | .0390 | .678 | 31.0  | 13.8  | 33.3  | 14.8  | 7.44 | 6.89  | 6.52 |
| 19-50-10 | 5.10  | 5.25   | .00748 | .01085 | .00531 | .00541 | 1.93  | 1.98  | 1.62  | .667 | .0400 | .670 | 27.3  | 12.3  | 29.3  | 13.2  | 7.72 | 7.17  | 6.80 |
| 19-50-11 | 3.63  | 3.71   | .00804 | .01156 | .00541 | .00550 | 1.90  | 1.98  | 1.62  | .667 | .0401 | .669 | 20.1  | 9.0   | 21.5  | 9.6   | 7.29 | 6.74  | 6.40 |
| 19-50-12 | 8.87  | 10.08  | .00729 | .01172 | .00478 | .00518 | 2.32  | 2.20  | 1.80  | .667 | .0369 | .696 | 49.4  | 18.6  | 53.8  | 20.3  | 6.93 | 6.41  | 5.86 |
| 19-50-13 | 7.90  | 8.64   | .00733 | .01149 | .00488 | .00529 | 2.23  | 2.20  | 1.79  | .667 | .0376 | .689 | 43.1  | 16.4  | 46.8  | 17.9  | 7.11 | 6.59  | 6.05 |
| 19-50-14 | 7.15  | 7.66   | .00736 | .01131 | .00486 | .00525 | 2.15  | 2.19  | 1.78  | .667 | .0382 | .684 | 38.6  | 14.9  | 42.0  | 16.2  | 7.27 | 6.73  | 6.20 |
| 19-50-15 | 6.25  | 6.17   | .00726 | .01050 | .00495 | .00534 | 1.95  | 2.19  | 1.75  | .667 | .0400 | .670 | 31.8  | 12.6  | 34.5  | 13.7  | 7.90 | 7.34  | 6.83 |
| 19-50-16 | 5.55  | 6.63   | .00718 | .01034 | .00497 | .00536 | 1.84  | 2.20  | 1.94  | .667 | .0395 | .677 | 32.5  | 10.8  | 35.9  | 11.8  | 8.01 | 7.47  | 6.77 |
| 19-50-17 | 5.01  | 4.27   | .00712 | .00924 | .00504 | .00543 | 1.65  | 2.19  | 1.69  | .667 | .0437 | .645 | 23.0  | 9.6   | 24.9  | 10.4  | 9.07 | 8.48  | 7.99 |
| 19-50-18 | 4.38  | 3.76   | .00733 | .00948 | .00505 | .00542 | 1.65  | 2.18  | 1.69  | .667 | .0436 | .646 | 20.5  | 8.6   | 22.2  | 9.3   | 8.85 | 8.27  | 7.79 |
| 19-50-19 | 85.59 | 179.47 | .00749 | .01788 | .00378 | .00332 | 5.02  | 1.40  | 1.36  | .667 | .0271 | .811 | 716.8 | 433.5 | 749.2 | 453.2 | 3.59 | 3.19  | 3.13 |
| 19-50-20 | 78.17 | 162.31 | .00748 | .01772 | .00383 | .00337 | 4.90  | 1.40  | 1.36  | .667 | .0272 | .808 | 650.8 | 393.0 | 680.4 | 410.9 | 3.65 | 3.25  | 3.19 |
| 19-50-21 | 68.67 | 140.69 | .00751 | .01761 | .00394 | .00348 | 4.77  | 1.42  | 1.37  | .667 | .0274 | .805 | 568.4 | 339.5 | 594.8 | 355.2 | 3.71 | 3.30  | 3.23 |
| 19-50-22 | 61.38 | 125.68 | .00770 | .01809 | .00404 | .00357 | 4.80  | 1.42  | 1.37  | .667 | .0274 | .805 | 514.0 | 305.4 | 538.2 | 319.7 | 3.56 | 3.16  | 3.09 |
| 19-50-23 | 55.35 | 112.38 | .00775 | .01808 | .00415 | .00367 | 4.72  | 1.43  | 1.37  | .667 | .0276 | .803 | 462.8 | 274.9 | 484.5 | 287.8 | 3.58 | 3.17  | 3.11 |
| 19-50-24 | 48.25 | 96.10  | .00771 | .01770 | .00424 | .00375 | 4.53  | 1.43  | 1.38  | .667 | .0279 | .798 | 398.0 | 235.0 | 416.9 | 246.1 | 3.72 | 3.31  | 3.24 |
| 19-50-25 | 38.37 | 73.58  | .00762 | .01693 | .00440 | .00391 | 4.18  | 1.45  | 1.39  | .667 | .0285 | .788 | 307.8 | 179.8 | 322.7 | 188.5 | 4.03 | 3.61  | 3.52 |
| 19-50-26 | 34.14 | 64.92  | .00774 | .01711 | .00451 | .00402 | 4.14  | 1.47  | 1.40  | .667 | .0287 | .787 | 274.5 | 158.5 | 288.1 | 166.3 | 3.98 | 3.56  | 3.47 |
| 19-50-27 | 30.59 | 57.25  | .00774 | .01689 | .00457 | .00409 | 4.02  | 1.47  | 1.40  | .667 | .0289 | .783 | 243.7 | 140.1 | 255.8 | 147.1 | 4.08 | 3.65  | 3.56 |
| 19-50-28 | 27.06 | 49.84  | .00777 | .01672 | .00464 | .00415 | 3.89  | 1.48  | 1.40  | .667 | .0292 | .779 | 213.9 | 122.6 | 224.6 | 128.7 | 4.16 | 3.73  | 3.64 |
| 19-50-29 | 24.29 | 44.21  | .00781 | .01664 | .00473 | .00423 | 3.81  | 1.48  | 1.40  | .667 | .0294 | .776 | 191.2 | 110.0 | 200.7 | 115.5 | 4.20 | 3.77  | 3.68 |
| 19-50-30 | 21.72 | 39.30  | .00796 | .01692 | .00482 | .00432 | 3.79  | 1.49  | 1.41  | .667 | .0295 | .775 | 172.0 | 97.9  | 180.7 | 102.9 | 4.12 | 3.69  | 3.60 |
| 19-50-31 | 19.17 | 33.80  | .00790 | .01641 | .00493 | .00443 | 3.60  | 1.49  | 1.40  | .667 | .0300 | .768 | 148.9 | 85.1  | 156.4 | 89.4  | 4.33 | 3.89  | 3.80 |
| 19-50-32 | 15.72 | 27.31  | .00813 | .01677 | .00512 | .00462 | 3.54  | 1.51  | 1.42  | .667 | .0302 | .765 | 122.8 | 69.2  | 129.1 | 72.8  | 4.24 | 3.79  | 3.70 |
| 19-50-33 | 14.02 | 24.05  | .00821 | .01675 | .00523 | .00471 | 3.47  | 1.51  | 1.41  | .667 | .0304 | .762 | 109.2 | 61.8  | 114.8 | 64.9  | 4.26 | 3.82  | 3.73 |
| 19-50-34 | 12.56 | 20.87  | .00808 | .01601 | .00536 | .00482 | 3.26  | 1.51  | 1.40  | .667 | .0311 | .754 | 95.2  | 54.6  | 100.0 | 57.3  | 4.57 | 4.12  | 4.04 |
| 19-50-35 | 9.88  | 15.76  | .00817 | .01568 | .00556 | .00501 | 3.06  | 1.52  | 1.41  | .667 | .0318 | .745 | 73.5  | 41.9  | 77.2  | 44.1  | 4.75 | 4.29  | 4.21 |
| 19-50-36 | 8.85  | 14.60  | .00786 | .01464 | .00563 | .00507 | 2.79  | 1.52  | 1.46  | .667 | .0323 | .740 | 67.0  | 35.8  | 70.8  | 37.9  | 5.19 | 4.72  | 4.56 |
| 19-50-37 | 7.72  | 12.03  | .00844 | .01591 | .00580 | .00523 | 2.95  | 1.52  | 1.40  | .667 | .0323 | .740 | 57.6  | 33.0  | 60.5  | 34.6  | 4.71 | 4.24  | 4.17 |
| 19-50-38 | 86.62 | 175.21 | .00734 | .01729 | .00363 | .00340 | 4.89  | 1.62  | 1.54  | .667 | .0274 | .806 | 700.2 | 342.4 | 745.6 | 364.6 | 3.80 | 3.40  | 3.14 |
| 19-50-39 | 77.13 | 153.86 | .00733 | .01706 | .00370 | .00346 | 4.75  | 1.62  | 1.54  | .667 | .0276 | .803 | 618.1 | 302.8 | 658.1 | 322.4 | 3.90 | 3.49  | 3.24 |
| 19-50-40 | 67.89 | 132.95 | .00732 | .01677 | .00378 | .00355 | 4.58  | 1.63  | 1.55  | .667 | .0279 | .798 | 537.3 | 262.2 | 572.3 | 279.3 | 4.02 | 3.61  | 3.35 |
| 19-50-41 | 60.81 | 118.69 | .00745 | .01707 | .00387 | .00364 | 4.57  | 1.64  | 1.55  | .667 | .0280 | .798 | 484.8 | 235.4 | 516.6 | 250.9 | 3.92 | 3.51  | 3.26 |
| 19-50-42 | 54.68 | 106.28 | .00758 | .01734 | .00396 | .00372 | 4.56  | 1.64  | 1.55  | .667 | .0280 | .797 | 438.5 | 212.0 | 467.5 | 226.0 | 3.84 | 3.43  | 3.18 |
| 19-50-43 | 47.74 | 90.37  | .00750 | .01680 | .00404 | .00382 | 4.33  | 1.66  | 1.56  | .667 | .0284 | .790 | 374.9 | 179.5 | 399.9 | 191.5 | 4.06 | 3.64  | 3.37 |
| 19-50-44 | 37.87 | 68.64  | .00742 | .01604 | .00419 | .00398 | 3.99  | 1.68  | 1.57  | .667 | .0292 | .780 | 288.0 | 137.3 | 307.4 | 146.6 | 4.38 | 3.96  | 3.68 |
| 19-50-45 | 33.34 | 59.32  | .00744 | .01587 | .00432 | .00410 | 3.87  | 1.68  | 1.56  | .667 | .0295 | .775 | 251.2 | 120.3 | 268.0 | 128.3 | 4.48 | 4.04  | 3.77 |
| 19-50-46 | 30.35 | 53.36  | .00747 | .01579 | .00436 | .00414 | 3.79  | 1.69  | 1.57  | .667 | .0297 | .773 | 227.5 | 108.5 | 242.8 | 115.8 | 4.52 | 4.09  | 3.81 |
| 19-50-47 | 26.56 | 45.72  | .00751 | .01564 | .00445 | .00426 | 3.67  | 1.71  | 1.58  | .667 | .0300 | .768 | 197.0 | 93.0  | 210.5 | 99.3  | 4.61 | 4.17  | 3.88 |
| 19-50-48 | 23.83 | 40.54  | .00758 | .01565 | .00454 | .00434 | 3.60  | 1.71  | 1.57  | .667 | .0302 | .766 | 176.3 | 83.4  | 188.3 | 89.1  | 4.62 | 4.18  | 3.90 |
| 19-50-49 | 21.46 | 35.84  | .00762 | .01556 | .00467 | .00448 | 3.52  | 1.72  | 1.58  | .667 | .0305 | .762 | 157.4 | 74.0  | 168.2 | 79.1  | 4.68 | 4.23  | 3.95 |
| 19-50-50 | 18.78 | 30.40  | .00754 | .01497 | .00472 | .00452 | 3.32  | 1.72  | 1.57  | .667 | .0311 | .754 | 134.5 | 63.9  | 143.6 | 68.2  | 4.96 | 4.50  | 4.22 |



| VFRS.NR. | RE*E4 | Q<KW/M2> | ST1+/<br>ST1*/ | STT+/<br>STT*/ | ST1F/<br>ST1F/ | H+   | G+   | GPR01 | G*    | G*R  | GT   | GTR  | GTR1 | GTF  | GTR  | X    | YR   | YG   |      |       |      |
|----------|-------|----------|----------------|----------------|----------------|------|------|-------|-------|------|------|------|------|------|------|------|------|------|------|-------|------|
| 19-50-   | 1     | 5.93     | 160            | 1.22           | 1.12           | 1.30 | 1.19 | 1.26  | 46.1  | 6.0  | 5.8  | 7.1  | 10.0 | 5.3  | 8.5  | 6.7  | 5.6  | 8.5  | 2.58 | 11.47 | 12.1 |
| 19-50-   | 2     | 6.53     | 289            | 1.21           | 1.11           | 1.29 | 1.17 | 1.26  | 47.2  | 6.8  | 5.9  | 8.0  | 9.9  | 6.0  | 8.8  | 6.9  | 6.2  | 8.1  | 2.55 | 12.01 | 12.6 |
| 19-50-   | 3     | 5.86     | 267            | 1.20           | 1.09           | 1.28 | 1.16 | 1.33  | 36.8  | 6.2  | 5.4  | 7.4  | 9.1  | 5.5  | 8.0  | 6.2  | 5.0  | 6.5  | 2.48 | 12.52 | 11.2 |
| 19-50-   | 4     | 5.21     | 242            | 1.21           | 1.10           | 1.30 | 1.17 | 1.36  | 31.8  | 5.8  | 5.0  | 7.0  | 8.6  | 5.0  | 7.5  | 5.7  | 4.5  | 6.0  | 2.45 | 12.79 | 10.6 |
| 19-50-   | 5     | 9.05     | 509            | 1.20           | 1.10           | 1.27 | 1.16 | 1.26  | 63.1  | 7.2  | 5.9  | 8.4  | 9.5  | 6.5  | 8.8  | 6.9  | 6.5  | 7.6  | 2.55 | 12.22 | 12.9 |
| 19-50-   | 6     | 8.05     | 466            | 1.21           | 1.10           | 1.28 | 1.16 | 1.27  | 55.6  | 6.8  | 5.6  | 8.1  | 9.1  | 6.1  | 8.4  | 6.6  | 6.1  | 7.1  | 2.54 | 12.29 | 12.5 |
| 19-50-   | 7     | 7.18     | 414            | 1.18           | 1.08           | 1.25 | 1.14 | 1.34  | 41.8  | 6.7  | 5.5  | 7.9  | 8.8  | 6.0  | 8.1  | 6.3  | 5.2  | 5.9  | 2.46 | 12.87 | 11.3 |
| 19-50-   | 8     | 6.33     | 372            | 1.19           | 1.08           | 1.27 | 1.15 | 1.37  | 36.1  | 6.3  | 5.2  | 7.6  | 8.3  | 5.6  | 7.7  | 5.9  | 4.7  | 5.4  | 2.43 | 13.03 | 10.8 |
| 19-50-   | 9     | 5.66     | 332            | 1.21           | 1.09           | 1.29 | 1.16 | 1.40  | 31.0  | 5.8  | 4.7  | 7.0  | 7.8  | 5.0  | 7.1  | 5.4  | 4.1  | 4.8  | 2.39 | 13.38 | 10.1 |
| 19-50-   | 10    | 5.10     | 303            | 1.22           | 1.10           | 1.31 | 1.17 | 1.43  | 27.3  | 5.5  | 4.5  | 6.8  | 7.5  | 4.7  | 6.8  | 5.1  | 3.8  | 4.5  | 2.37 | 13.58 | 9.7  |
| 19-50-   | 11    | 3.63     | 217            | 1.22           | 1.09           | 1.30 | 1.16 | 1.42  | 20.1  | 5.7  | 4.7  | 7.0  | 7.8  | 5.0  | 7.1  | 5.3  | 4.0  | 4.7  | 2.36 | 13.15 | 9.9  |
| 19-50-   | 12    | 8.87     | 599            | 1.16           | 1.06           | 1.22 | 1.11 | 1.32  | 49.4  | 7.7  | 6.0  | 9.0  | 9.1  | 7.0  | 8.9  | 6.9  | 6.0  | 6.0  | 2.45 | 13.06 | 12.1 |
| 19-50-   | 13    | 7.90     | 549            | 1.16           | 1.06           | 1.23 | 1.12 | 1.35  | 43.1  | 7.3  | 5.7  | 8.6  | 8.6  | 6.5  | 8.4  | 6.5  | 5.4  | 5.5  | 2.43 | 13.19 | 11.5 |
| 19-50-   | 14    | 7.15     | 489            | 1.17           | 1.06           | 1.24 | 1.12 | 1.36  | 38.6  | 7.2  | 5.6  | 8.5  | 8.6  | 6.5  | 8.4  | 6.4  | 5.4  | 5.5  | 2.41 | 13.30 | 11.4 |
| 19-50-   | 15    | 6.25     | 436            | 1.19           | 1.07           | 1.27 | 1.13 | 1.41  | 31.8  | 6.4  | 5.0  | 7.8  | 7.8  | 5.7  | 7.5  | 5.7  | 4.5  | 4.6  | 2.36 | 13.80 | 10.4 |
| 19-50-   | 16    | 5.55     | 390            | 1.24           | 1.11           | 1.33 | 1.18 | 1.37  | 32.5  | 5.7  | 4.5  | 7.1  | 7.4  | 5.0  | 6.8  | 5.2  | 4.6  | 4.9  | 2.38 | 13.91 | 10.6 |
| 19-50-   | 17    | 5.01     | 356            | 1.23           | 1.09           | 1.32 | 1.16 | 1.51  | 23.0  | 5.4  | 4.2  | 6.8  | 6.8  | 4.6  | 6.3  | 4.7  | 3.2  | 3.3  | 2.27 | 14.71 | 8.9  |
| 19-50-   | 18    | 4.38     | 309            | 1.22           | 1.08           | 1.31 | 1.15 | 1.50  | 20.5  | 5.5  | 4.3  | 6.9  | 7.0  | 4.8  | 6.5  | 4.9  | 3.4  | 3.5  | 2.27 | 14.52 | 9.1  |
| 19-50-   | 19    | 85.59    | 1514           | 1.11           | 1.06           | 1.14 | 1.09 | 1.12  | 716.8 | 15.6 | 15.2 | 16.6 | 21.3 | 14.9 | 19.9 | 16.3 | 15.4 | 20.0 | 2.80 | 10.58 | 22.4 |
| 19-50-   | 20    | 78.17    | 1412           | 1.11           | 1.06           | 1.15 | 1.09 | 1.12  | 650.8 | 15.2 | 14.8 | 16.2 | 20.8 | 14.5 | 19.4 | 15.9 | 15.0 | 19.5 | 2.79 | 10.62 | 22.0 |
| 19-50-   | 21    | 68.67    | 1315           | 1.11           | 1.06           | 1.15 | 1.10 | 1.12  | 568.4 | 14.5 | 14.0 | 15.5 | 19.9 | 13.7 | 18.5 | 15.1 | 14.2 | 18.5 | 2.78 | 10.66 | 21.2 |
| 19-50-   | 22    | 61.38    | 1227           | 1.11           | 1.06           | 1.15 | 1.10 | 1.13  | 514.0 | 14.2 | 13.7 | 15.2 | 19.5 | 13.5 | 18.1 | 14.8 | 13.9 | 18.1 | 2.78 | 10.52 | 20.9 |
| 19-50-   | 23    | 55.35    | 1143           | 1.12           | 1.06           | 1.16 | 1.10 | 1.13  | 462.8 | 13.6 | 13.1 | 14.6 | 18.8 | 12.9 | 17.4 | 14.2 | 13.3 | 17.4 | 2.78 | 10.52 | 20.3 |
| 19-50-   | 24    | 48.25    | 1041           | 1.12           | 1.06           | 1.16 | 1.10 | 1.14  | 398.0 | 12.9 | 12.5 | 14.0 | 18.0 | 12.2 | 16.6 | 13.5 | 12.6 | 16.5 | 2.76 | 10.63 | 19.5 |
| 19-50-   | 25    | 38.37    | 883            | 1.13           | 1.07           | 1.17 | 1.11 | 1.15  | 307.8 | 11.7 | 11.2 | 12.8 | 16.5 | 11.0 | 15.1 | 12.2 | 11.3 | 15.0 | 2.74 | 10.87 | 18.2 |
| 19-50-   | 26    | 34.14    | 832            | 1.13           | 1.07           | 1.18 | 1.11 | 1.15  | 274.5 | 11.3 | 10.8 | 12.4 | 16.0 | 10.6 | 14.6 | 11.8 | 10.9 | 14.4 | 2.73 | 10.81 | 17.8 |
| 19-50-   | 27    | 30.59    | 769            | 1.13           | 1.07           | 1.18 | 1.11 | 1.16  | 243.7 | 10.9 | 10.4 | 12.0 | 15.4 | 10.2 | 14.1 | 11.4 | 10.5 | 13.9 | 2.72 | 10.88 | 17.3 |
| 19-50-   | 28    | 27.06    | 697            | 1.14           | 1.07           | 1.19 | 1.12 | 1.17  | 213.9 | 10.6 | 10.0 | 11.6 | 15.0 | 9.8  | 13.7 | 11.0 | 10.1 | 13.4 | 2.71 | 10.94 | 16.9 |
| 19-50-   | 29    | 24.29    | 635            | 1.14           | 1.07           | 1.19 | 1.12 | 1.17  | 191.2 | 10.1 | 9.6  | 11.2 | 14.5 | 9.4  | 13.2 | 10.6 | 9.7  | 12.9 | 2.70 | 10.96 | 16.4 |
| 19-50-   | 30    | 21.72    | 592            | 1.14           | 1.07           | 1.19 | 1.12 | 1.18  | 172.0 | 10.0 | 9.4  | 11.0 | 14.3 | 9.2  | 13.0 | 10.4 | 9.5  | 12.6 | 2.70 | 10.87 | 16.2 |
| 19-50-   | 31    | 19.17    | 537            | 1.15           | 1.08           | 1.21 | 1.12 | 1.19  | 148.9 | 9.3  | 8.8  | 10.4 | 13.5 | 8.5  | 12.1 | 9.7  | 8.8  | 11.8 | 2.68 | 11.04 | 15.5 |
| 19-50-   | 32    | 15.72    | 470            | 1.15           | 1.08           | 1.21 | 1.13 | 1.20  | 122.8 | 8.8  | 8.3  | 9.9  | 12.9 | 8.1  | 11.6 | 9.3  | 8.2  | 11.1 | 2.67 | 10.92 | 14.9 |
| 19-50-   | 33    | 14.02    | 429            | 1.16           | 1.08           | 1.22 | 1.13 | 1.20  | 109.2 | 8.4  | 7.9  | 9.5  | 12.4 | 7.7  | 11.1 | 8.9  | 7.9  | 10.7 | 2.67 | 10.93 | 14.5 |
| 19-50-   | 34    | 12.56    | 390            | 1.17           | 1.09           | 1.23 | 1.14 | 1.22  | 95.2  | 7.7  | 7.2  | 8.8  | 11.6 | 6.9  | 10.2 | 8.1  | 7.1  | 9.8  | 2.64 | 11.18 | 13.7 |
| 19-50-   | 35    | 9.88     | 328            | 1.18           | 1.09           | 1.25 | 1.15 | 1.24  | 73.5  | 6.9  | 6.5  | 8.1  | 10.7 | 6.2  | 9.3  | 7.4  | 6.3  | 8.8  | 2.62 | 11.29 | 12.8 |
| 19-50-   | 36    | 8.85     | 297            | 1.22           | 1.12           | 1.30 | 1.18 | 1.25  | 67.0  | 6.0  | 5.6  | 7.1  | 9.7  | 5.2  | 8.2  | 6.5  | 5.6  | 8.2  | 2.60 | 11.69 | 12.1 |
| 19-50-   | 37    | 7.72     | 269            | 1.19           | 1.10           | 1.26 | 1.16 | 1.26  | 57.6  | 6.4  | 6.0  | 7.5  | 10.1 | 5.7  | 8.7  | 6.9  | 5.7  | 8.2  | 2.60 | 11.21 | 12.2 |
| 19-50-   | 38    | 86.62    | 2255           | 1.10           | 1.05           | 1.13 | 1.08 | 1.12  | 700.2 | 16.4 | 14.9 | 17.4 | 20.9 | 15.7 | 19.9 | 16.3 | 16.0 | 19.4 | 2.78 | 10.76 | 22.9 |
| 19-50-   | 39    | 77.13    | 2057           | 1.10           | 1.05           | 1.14 | 1.09 | 1.12  | 618.1 | 15.8 | 14.3 | 16.8 | 20.2 | 15.1 | 19.2 | 15.7 | 15.3 | 18.7 | 2.77 | 10.83 | 22.3 |
| 19-50-   | 40    | 67.89    | 1886           | 1.10           | 1.05           | 1.14 | 1.09 | 1.13  | 537.3 | 15.0 | 13.6 | 16.1 | 19.3 | 14.3 | 18.3 | 14.9 | 14.6 | 17.7 | 2.76 | 10.92 | 21.5 |
| 19-50-   | 41    | 60.81    | 1747           | 1.10           | 1.05           | 1.14 | 1.09 | 1.13  | 484.8 | 14.7 | 13.3 | 15.7 | 18.9 | 14.0 | 17.9 | 14.6 | 14.2 | 17.3 | 2.76 | 10.82 | 21.1 |
| 19-50-   | 42    | 54.68    | 1621           | 1.11           | 1.05           | 1.14 | 1.09 | 1.13  | 438.5 | 14.4 | 13.0 | 15.4 | 18.5 | 13.7 | 17.6 | 14.3 | 13.9 | 16.9 | 2.76 | 10.74 | 20.8 |
| 19-50-   | 43    | 47.74    | 1483           | 1.11           | 1.06           | 1.15 | 1.09 | 1.14  | 374.9 | 13.6 | 12.2 | 14.7 | 17.6 | 12.9 | 16.6 | 13.5 | 13.1 | 15.9 | 2.74 | 10.91 | 19.9 |
| 19-50-   | 44    | 37.87    | 1247           | 1.12           | 1.06           | 1.16 | 1.10 | 1.16  | 288.0 | 12.3 | 11.0 | 13.4 | 16.1 | 11.6 | 15.1 | 12.2 | 11.7 | 14.3 | 2.71 | 11.17 | 18.5 |
| 19-50-   | 45    | 33.34    | 1137           | 1.12           | 1.06           | 1.17 | 1.10 | 1.16  | 251.2 | 11.6 | 10.4 | 12.7 | 15.3 | 10.9 | 14.3 | 11.5 | 11.0 | 13.4 | 2.70 | 11.23 | 17.7 |
| 19-50-   | 46    | 30.35    | 1056           | 1.12           | 1.06           | 1.17 | 1.10 | 1.17  | 227.5 | 11.4 | 10.1 | 12.5 | 15.0 | 10.7 | 14.0 | 11.3 | 10.7 | 13.1 | 2.69 | 11.25 | 17.5 |
| 19-50-   | 47    | 26.56    | 972            | 1.13           | 1.06           | 1.18 | 1.11 | 1.18  | 197.0 | 10.9 | 9.6  | 12.0 | 14.3 | 10.2 | 13.4 | 10.7 | 10.2 | 12.4 | 2.68 | 11.31 | 16.9 |
| 19-50-   | 48    | 23.83    | 889            | 1.13           | 1.06           | 1.18 | 1.11 | 1.18  | 176.3 | 10.5 | 9.3  | 11.6 | 13.9 | 9.8  | 13.0 | 10.4 | 9.8  | 12.0 | 2.67 | 11.30 | 16.5 |
| 19-50-   | 49    | 21.46    | 841            | 1.14           | 1.07           | 1.19 | 1.11 | 1.19  | 157.4 | 10.0 | 8.8  | 11.1 | 13.2 | 9.2  | 12.3 | 9.9  | 9.2  | 11.3 | 2.66 | 11.34 | 15.8 |
| 19-50-   | 50    | 18.78    | 740            | 1.14           | 1.07           | 1.20 | 1.12 | 1.20  | 134.5 | 9.4  | 8.3  | 10.5 | 12.7 | 8.7  | 11.7 | 9.3  | 8.6  | 10.6 | 2.64 | 11.56 | 15.2 |

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| VERS.NR.  | RE*E4 | RE1*E4 | F      | F1     | STH    | STPR   | F1/F2 | TW/T8 | TW/T1 | PR   | H/Y   | RETA | H+    | H+W   | H+R   | H+RW  | RH+  | RH+01 | RH+R |
|-----------|-------|--------|--------|--------|--------|--------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|------|-------|------|
| 19-50- 51 | 15.12 | 24.35  | .00787 | .01561 | .00490 | .00468 | 3.31  | 1.72  | 1.57  | .667 | .0312 | .753 | 110.3 | 52.4  | 117.8 | 56.0  | 4.72 | 4.27  | 4.01 |
| 19-50- 52 | 13.45 | 21.38  | .00795 | .01563 | .00511 | .00486 | 3.24  | 1.70  | 1.55  | .667 | .0314 | .750 | 97.9  | 47.6  | 104.3 | 50.7  | 4.74 | 4.28  | 4.04 |
| 19-50- 53 | 12.24 | 19.07  | .00793 | .01533 | .00515 | .00490 | 3.13  | 1.70  | 1.55  | .667 | .0318 | .746 | 88.0  | 42.8  | 93.7  | 45.6  | 4.88 | 4.42  | 4.18 |
| 19-50- 54 | 10.64 | 15.74  | .00779 | .01443 | .00526 | .00501 | 2.89  | 1.71  | 1.54  | .667 | .0328 | .734 | 73.4  | 36.0  | 78.1  | 38.3  | 5.32 | 4.85  | 4.61 |
| 19-50- 55 | 9.54  | 15.91  | .00803 | .01543 | .00529 | .00506 | 2.98  | 1.73  | 1.65  | .667 | .0318 | .746 | 73.3  | 32.1  | 78.8  | 34.5  | 4.86 | 4.40  | 4.06 |
| 19-50- 56 | 8.66  | 14.31  | .00814 | .01552 | .00541 | .00517 | 2.94  | 1.73  | 1.65  | .667 | .0319 | .744 | 66.6  | 29.2  | 71.6  | 31.4  | 4.82 | 4.36  | 4.03 |
| 19-50- 57 | 7.55  | 11.98  | .00807 | .01485 | .00557 | .00530 | 2.74  | 1.72  | 1.62  | .667 | .0329 | .735 | 56.4  | 25.3  | 60.6  | 27.1  | 5.17 | 4.70  | 4.39 |
| 19-50- 58 | 84.65 | 164.46 | .00720 | .01661 | .00349 | .00346 | 4.72  | 1.83  | 1.72  | .667 | .0278 | .800 | 658.3 | 270.2 | 711.9 | 292.2 | 4.06 | 3.65  | 3.23 |
| 19-50- 59 | 75.78 | 144.90 | .00720 | .01640 | .00353 | .00352 | 4.58  | 1.85  | 1.72  | .667 | .0281 | .796 | 583.4 | 237.9 | 631.2 | 257.4 | 4.15 | 3.74  | 3.32 |
| 19-50- 60 | 67.18 | 126.16 | .00719 | .01615 | .00359 | .00359 | 4.43  | 1.85  | 1.73  | .667 | .0284 | .792 | 511.1 | 207.9 | 553.2 | 225.0 | 4.27 | 3.85  | 3.42 |
| 19-50- 61 | 59.76 | 111.32 | .00730 | .01636 | .00367 | .00368 | 4.40  | 1.87  | 1.74  | .667 | .0284 | .791 | 456.0 | 183.0 | 494.1 | 198.3 | 4.21 | 3.79  | 3.35 |
| 19-50- 62 | 53.72 | 99.41  | .00741 | .01654 | .00374 | .00376 | 4.37  | 1.88  | 1.74  | .667 | .0285 | .790 | 411.1 | 164.5 | 445.6 | 178.3 | 4.15 | 3.73  | 3.30 |
| 19-50- 63 | 47.34 | 85.18  | .00731 | .01596 | .00381 | .00384 | 4.14  | 1.89  | 1.74  | .667 | .0290 | .783 | 353.9 | 142.1 | 383.5 | 153.9 | 4.40 | 3.97  | 3.54 |
| 19-50- 64 | 36.86 | 62.82  | .00722 | .01516 | .00398 | .00403 | 3.79  | 1.92  | 1.75  | .667 | .0299 | .771 | 265.0 | 105.2 | 287.4 | 114.1 | 4.77 | 4.33  | 3.88 |
| 19-50- 65 | 32.98 | 55.04  | .00720 | .01486 | .00407 | .00412 | 3.65  | 1.91  | 1.74  | .667 | .0303 | .766 | 233.8 | 94.0  | 253.3 | 101.8 | 4.92 | 4.48  | 4.03 |
| 19-50- 66 | 29.65 | 49.33  | .00734 | .01516 | .00416 | .00421 | 3.65  | 1.91  | 1.74  | .667 | .0303 | .765 | 211.9 | 85.3  | 229.6 | 92.4  | 4.81 | 4.37  | 3.93 |
| 19-50- 67 | 26.02 | 42.17  | .00734 | .01485 | .00422 | .00428 | 3.50  | 1.93  | 1.74  | .667 | .0308 | .759 | 182.9 | 73.5  | 198.1 | 79.6  | 4.97 | 4.52  | 4.08 |
| 19-50- 68 | 23.21 | 36.90  | .00738 | .01476 | .00437 | .00443 | 3.41  | 1.92  | 1.73  | .667 | .0311 | .756 | 161.7 | 65.6  | 175.1 | 71.0  | 5.04 | 4.58  | 4.15 |
| 19-50- 69 | 20.86 | 32.63  | .00745 | .01475 | .00441 | .00449 | 3.35  | 1.95  | 1.74  | .667 | .0313 | .753 | 144.5 | 57.7  | 156.6 | 62.6  | 5.06 | 4.60  | 4.16 |
| 19-50- 70 | 18.42 | 27.92  | .00742 | .01436 | .00450 | .00460 | 3.20  | 1.96  | 1.74  | .667 | .0319 | .746 | 124.9 | 50.2  | 135.3 | 54.4  | 5.27 | 4.80  | 4.36 |
| 19-50- 71 | 15.09 | 22.27  | .00758 | .01441 | .00469 | .00478 | 3.09  | 1.96  | 1.73  | .667 | .0323 | .741 | 101.7 | 41.2  | 110.1 | 44.6  | 5.28 | 4.81  | 4.38 |
| 19-50- 72 | 13.36 | 19.41  | .00766 | .01439 | .00480 | .00489 | 3.02  | 1.95  | 1.72  | .667 | .0326 | .737 | 89.7  | 36.7  | 97.0  | 39.7  | 5.31 | 4.84  | 4.42 |
| 19-50- 73 | 11.98 | 19.94  | .00785 | .01528 | .00486 | .00495 | 3.09  | 1.95  | 1.84  | .667 | .0315 | .750 | 90.5  | 32.9  | 98.9  | 36.0  | 4.87 | 4.41  | 3.90 |
| 19-50- 74 | 10.59 | 16.95  | .00772 | .01449 | .00497 | .00506 | 2.87  | 1.96  | 1.84  | .667 | .0324 | .740 | 77.5  | 28.3  | 84.7  | 31.0  | 5.26 | 4.79  | 4.27 |
| 19-50- 75 | 9.44  | 14.97  | .00784 | .01460 | .00509 | .00519 | 2.83  | 1.97  | 1.85  | .667 | .0325 | .738 | 69.2  | 25.2  | 75.7  | 27.5  | 5.23 | 4.76  | 4.24 |
| 19-50- 76 | 8.52  | 11.20  | .00784 | .01377 | .00516 | .00524 | 2.66  | 1.95  | 1.68  | .667 | .0346 | .717 | 54.4  | 23.1  | 58.6  | 24.9  | 5.81 | 5.32  | 4.94 |
| 19-50- 77 | 7.50  | 11.29  | .00781 | .01384 | .00521 | .00530 | 2.57  | 1.96  | 1.83  | .667 | .0338 | .725 | 53.3  | 19.6  | 58.2  | 21.4  | 5.64 | 5.16  | 4.64 |
| 19-50- 78 | 84.36 | 159.51 | .00710 | .01617 | .00316 | .00332 | 4.61  | 2.05  | 1.90  | .667 | .0281 | .796 | 639.2 | 222.1 | 701.4 | 243.7 | 4.24 | 3.83  | 3.25 |
| 19-50- 79 | 75.37 | 139.58 | .00708 | .01588 | .00322 | .00341 | 4.45  | 2.07  | 1.91  | .667 | .0284 | .792 | 562.7 | 193.4 | 618.1 | 212.4 | 4.37 | 3.95  | 3.37 |
| 19-50- 80 | 66.43 | 120.48 | .00708 | .01565 | .00329 | .00350 | 4.31  | 2.09  | 1.92  | .667 | .0287 | .787 | 489.5 | 167.2 | 537.9 | 183.8 | 4.48 | 4.06  | 3.47 |
| 19-50- 81 | 59.54 | 107.03 | .00719 | .01584 | .00340 | .00363 | 4.28  | 2.10  | 1.92  | .667 | .0288 | .786 | 439.5 | 149.6 | 483.2 | 164.5 | 4.42 | 4.00  | 3.41 |
| 19-50- 82 | 53.07 | 94.59  | .00731 | .01605 | .00345 | .00370 | 4.25  | 2.13  | 1.94  | .667 | .0289 | .785 | 392.8 | 131.4 | 432.4 | 144.6 | 4.36 | 3.93  | 3.33 |
| 19-50- 83 | 46.29 | 80.05  | .00723 | .01552 | .00354 | .00380 | 4.03  | 2.13  | 1.93  | .667 | .0294 | .778 | 334.6 | 113.0 | 368.0 | 124.3 | 4.60 | 4.16  | 3.56 |
| 19-50- 84 | 36.71 | 59.50  | .00709 | .01456 | .00373 | .00404 | 3.66  | 2.16  | 1.93  | .667 | .0304 | .764 | 252.3 | 85.1  | 277.6 | 93.6  | 5.06 | 4.62  | 3.99 |
| 19-50- 85 | 32.98 | 52.33  | .00710 | .01437 | .00380 | .00412 | 3.55  | 2.17  | 1.93  | .667 | .0308 | .760 | 223.8 | 75.7  | 246.2 | 83.2  | 5.17 | 4.72  | 4.10 |
| 19-50- 86 | 29.46 | 45.85  | .00715 | .01431 | .00391 | .00424 | 3.47  | 2.18  | 1.93  | .667 | .0311 | .756 | 198.2 | 67.2  | 218.0 | 73.9  | 5.22 | 4.77  | 4.15 |
| 19-50- 87 | 25.95 | 39.29  | .00716 | .01405 | .00401 | .00435 | 3.34  | 2.19  | 1.92  | .667 | .0315 | .750 | 171.7 | 58.5  | 188.7 | 64.3  | 5.37 | 4.91  | 4.29 |
| 19-50- 88 | 23.22 | 34.63  | .00721 | .01400 | .00409 | .00443 | 3.27  | 2.18  | 1.91  | .667 | .0318 | .747 | 152.8 | 52.6  | 167.8 | 57.8  | 5.41 | 4.95  | 4.34 |
| 19-50- 89 | 20.93 | 30.47  | .00723 | .01383 | .00418 | .00453 | 3.17  | 2.19  | 1.90  | .667 | .0322 | .743 | 135.8 | 46.9  | 149.1 | 51.5  | 5.52 | 5.05  | 4.45 |
| 19-50- 90 | 18.30 | 30.03  | .00723 | .01403 | .00425 | .00462 | 3.09  | 2.20  | 2.05  | .667 | .0317 | .749 | 131.2 | 39.9  | 145.7 | 44.3  | 5.40 | 4.94  | 4.22 |
| 19-50- 91 | 14.57 | 23.55  | .00745 | .01430 | .00448 | .00485 | 3.02  | 2.18  | 2.04  | .667 | .0320 | .746 | 105.1 | 32.4  | 116.6 | 35.9  | 5.30 | 4.84  | 4.15 |
| 19-50- 92 | 13.18 | 20.85  | .00742 | .01393 | .00456 | .00491 | 2.89  | 2.16  | 2.01  | .667 | .0325 | .740 | 93.6  | 29.4  | 103.7 | 32.5  | 5.50 | 5.03  | 4.35 |
| 19-50- 93 | 11.85 | 18.43  | .00749 | .01387 | .00463 | .00502 | 2.82  | 2.19  | 2.03  | .667 | .0328 | .737 | 83.6  | 25.9  | 92.8  | 28.7  | 5.55 | 5.08  | 4.39 |
| 19-50- 94 | 10.40 | 12.44  | .00729 | .01215 | .00475 | .00513 | 2.47  | 2.18  | 1.81  | .667 | .0358 | .705 | 59.8  | 22.5  | 65.1  | 24.5  | 6.62 | 6.11  | 5.57 |
| 19-50- 95 | 9.27  | 11.18  | .00750 | .01259 | .00479 | .00516 | 2.50  | 2.18  | 1.81  | .667 | .0357 | .706 | 54.4  | 20.4  | 59.3  | 22.2  | 6.41 | 5.90  | 5.37 |
| 19-50- 96 | 8.36  | 9.79   | .00754 | .01240 | .00487 | .00525 | 2.41  | 2.19  | 1.80  | .667 | .0362 | .701 | 48.2  | 18.2  | 52.5  | 19.8  | 6.54 | 6.02  | 5.50 |
| 19-50- 97 | 21.07 | 43.38  | .00841 | .01889 | .0     | .0     | 4.11  | 1.00  | 1.00  | .667 | .0282 | .792 | 188.2 | 188.2 | 188.2 | 188.2 | 3.41 | 3.00  | 3.41 |
| 19-50- 98 | 24.27 | 50.10  | .00820 | .01844 | .0     | .0     | 4.12  | 1.00  | 1.00  | .667 | .0281 | .793 | 214.4 | 214.4 | 214.4 | 214.4 | 3.53 | 3.12  | 3.53 |
| 19-50- 99 | 27.14 | 56.45  | .00813 | .01845 | .0     | .0     | 4.21  | 1.00  | 1.00  | .667 | .0280 | .795 | 239.7 | 239.7 | 239.7 | 239.7 | 3.51 | 3.10  | 3.51 |
| 19-50-100 | 29.47 | 62.06  | .00821 | .01890 | .0     | .0     | 4.37  | 1.00  | 1.00  | .667 | .0277 | .799 | 263.2 | 263.2 | 263.2 | 263.2 | 3.36 | 2.95  | 3.36 |

| VERS.NR.  | RE*E4 | Q<KW/M2> | ST1+/<br>ST1*/ | STT+/<br>STT*/ | ST1F/<br>ST1F/ | H+   | G+   | GPR01 | G*   | G*R  | GT   | GTR  | GTR1 | GTF  | GTFR | X    | YR   | YG   |       |      |
|-----------|-------|----------|----------------|----------------|----------------|------|------|-------|------|------|------|------|------|------|------|------|------|------|-------|------|
| 19-50- 51 | 15.12 | 627      | 1.15           | 1.07           | 1.20           | 1.12 | 1.21 | 110.3 | 9.2  | 8.1  | 10.3 | 12.4 | 8.4  | 11.4 | 9.1  | 8.3  | 10.3 | 2.64 | 11.32 | 14.9 |
| 19-50- 52 | 13.45 | 566      | 1.15           | 1.07           | 1.21           | 1.13 | 1.22 | 97.9  | 8.4  | 7.5  | 9.5  | 11.6 | 7.7  | 10.6 | 8.5  | 7.6  | 9.6  | 2.63 | 11.31 | 14.2 |
| 19-50- 53 | 12.24 | 523      | 1.16           | 1.08           | 1.22           | 1.13 | 1.23 | 88.0  | 8.1  | 7.2  | 9.2  | 11.3 | 7.4  | 10.3 | 8.2  | 7.3  | 9.2  | 2.62 | 11.42 | 13.8 |
| 19-50- 54 | 10.64 | 469      | 1.17           | 1.08           | 1.24           | 1.14 | 1.26 | 73.4  | 7.3  | 6.5  | 8.5  | 10.4 | 6.6  | 9.3  | 7.4  | 6.4  | 8.2  | 2.58 | 11.77 | 12.8 |
| 19-50- 55 | 9.54  | 434      | 1.20           | 1.10           | 1.26           | 1.16 | 1.23 | 73.3  | 7.4  | 6.5  | 8.5  | 10.5 | 6.7  | 9.5  | 7.5  | 7.0  | 8.9  | 2.62 | 11.39 | 13.5 |
| 19-50- 56 | 8.66  | 403      | 1.20           | 1.11           | 1.27           | 1.16 | 1.24 | 66.6  | 7.1  | 6.2  | 8.2  | 10.2 | 6.4  | 9.2  | 7.3  | 6.6  | 8.6  | 2.61 | 11.35 | 13.2 |
| 19-50- 57 | 7.55  | 356      | 1.22           | 1.11           | 1.29           | 1.17 | 1.26 | 56.4  | 6.3  | 5.5  | 7.5  | 9.4  | 5.6  | 8.3  | 6.5  | 5.8  | 7.7  | 2.58 | 11.61 | 12.3 |
| 19-50- 58 | 84.65 | 2888     | 1.09           | 1.04           | 1.12           | 1.07 | 1.12 | 658.3 | 17.1 | 14.6 | 18.1 | 20.5 | 16.3 | 19.8 | 16.2 | 16.4 | 18.7 | 2.77 | 10.97 | 23.3 |
| 19-50- 59 | 75.78 | 2659     | 1.09           | 1.04           | 1.13           | 1.08 | 1.12 | 583.4 | 16.6 | 14.1 | 17.7 | 19.9 | 15.9 | 19.3 | 15.7 | 16.0 | 18.1 | 2.76 | 11.04 | 22.9 |
| 19-50- 60 | 67.18 | 2430     | 1.09           | 1.04           | 1.13           | 1.08 | 1.13 | 511.1 | 16.0 | 13.6 | 17.1 | 19.2 | 15.3 | 18.6 | 15.1 | 15.3 | 17.3 | 2.74 | 11.13 | 22.2 |
| 19-50- 61 | 59.76 | 2261     | 1.09           | 1.04           | 1.13           | 1.08 | 1.13 | 456.0 | 15.7 | 13.2 | 16.8 | 18.7 | 14.9 | 18.2 | 14.7 | 14.9 | 16.8 | 2.74 | 11.06 | 21.8 |
| 19-50- 62 | 53.72 | 2088     | 1.10           | 1.04           | 1.13           | 1.08 | 1.13 | 411.1 | 15.3 | 12.9 | 16.4 | 18.4 | 14.6 | 17.8 | 14.4 | 14.6 | 16.4 | 2.74 | 11.00 | 21.4 |
| 19-50- 63 | 47.34 | 1887     | 1.10           | 1.05           | 1.14           | 1.08 | 1.14 | 353.9 | 14.5 | 12.2 | 15.6 | 17.4 | 13.7 | 16.8 | 13.6 | 13.7 | 15.4 | 2.72 | 11.20 | 20.5 |
| 19-50- 64 | 36.86 | 1598     | 1.11           | 1.05           | 1.15           | 1.09 | 1.16 | 265.0 | 13.1 | 10.9 | 14.2 | 15.7 | 12.3 | 15.2 | 12.2 | 12.1 | 13.6 | 2.69 | 11.48 | 18.9 |
| 19-50- 65 | 32.98 | 1455     | 1.11           | 1.05           | 1.16           | 1.09 | 1.17 | 233.8 | 12.4 | 10.3 | 13.5 | 15.0 | 11.6 | 14.4 | 11.6 | 11.4 | 12.9 | 2.67 | 11.60 | 18.1 |
| 19-50- 66 | 29.65 | 1340     | 1.11           | 1.05           | 1.16           | 1.09 | 1.17 | 211.9 | 12.1 | 10.1 | 13.2 | 14.7 | 11.4 | 14.2 | 11.4 | 11.2 | 12.6 | 2.67 | 11.49 | 17.8 |
| 19-50- 67 | 26.02 | 1210     | 1.12           | 1.05           | 1.17           | 1.09 | 1.18 | 182.9 | 11.6 | 9.7  | 12.8 | 14.2 | 10.9 | 13.6 | 10.9 | 10.7 | 12.0 | 2.65 | 11.61 | 17.3 |
| 19-50- 68 | 23.21 | 1114     | 1.12           | 1.05           | 1.17           | 1.10 | 1.19 | 161.7 | 10.9 | 9.1  | 12.0 | 13.4 | 10.1 | 12.8 | 10.2 | 9.9  | 11.2 | 2.64 | 11.64 | 16.5 |
| 19-50- 69 | 20.86 | 1040     | 1.12           | 1.05           | 1.18           | 1.10 | 1.20 | 144.5 | 10.8 | 8.9  | 11.9 | 13.1 | 10.0 | 12.6 | 10.1 | 9.7  | 10.9 | 2.63 | 11.64 | 16.3 |
| 19-50- 70 | 18.42 | 944      | 1.13           | 1.06           | 1.18           | 1.10 | 1.21 | 124.9 | 10.1 | 8.4  | 11.3 | 12.5 | 9.4  | 11.9 | 9.5  | 9.0  | 10.1 | 2.61 | 11.80 | 15.5 |
| 19-50- 71 | 15.09 | 803      | 1.14           | 1.06           | 1.19           | 1.11 | 1.23 | 101.7 | 9.4  | 7.8  | 10.6 | 11.7 | 8.7  | 11.2 | 8.8  | 8.3  | 9.3  | 2.60 | 11.78 | 14.8 |
| 19-50- 72 | 13.36 | 727      | 1.14           | 1.06           | 1.20           | 1.11 | 1.24 | 89.7  | 9.0  | 7.4  | 10.2 | 11.3 | 8.2  | 10.7 | 8.5  | 7.8  | 8.9  | 2.59 | 11.79 | 14.3 |
| 19-50- 73 | 11.98 | 660      | 1.17           | 1.09           | 1.23           | 1.14 | 1.21 | 90.5  | 8.8  | 7.3  | 9.9  | 11.2 | 8.0  | 10.6 | 8.4  | 8.3  | 9.6  | 2.63 | 11.44 | 14.8 |
| 19-50- 74 | 10.59 | 600      | 1.19           | 1.10           | 1.25           | 1.15 | 1.23 | 77.5  | 8.0  | 6.6  | 9.1  | 10.4 | 7.2  | 9.7  | 7.7  | 7.4  | 8.6  | 2.60 | 11.75 | 13.9 |
| 19-50- 75 | 9.44  | 554      | 1.19           | 1.10           | 1.26           | 1.15 | 1.24 | 69.2  | 7.6  | 6.3  | 8.8  | 10.0 | 6.9  | 9.3  | 7.4  | 7.1  | 8.2  | 2.59 | 11.71 | 13.6 |
| 19-50- 76 | 8.52  | 499      | 1.17           | 1.07           | 1.24           | 1.13 | 1.29 | 54.4  | 7.5  | 6.2  | 8.7  | 9.7  | 6.7  | 9.1  | 7.1  | 6.1  | 7.1  | 2.53 | 12.05 | 12.4 |
| 19-50- 77 | 7.50  | 449      | 1.21           | 1.11           | 1.28           | 1.16 | 1.27 | 53.3  | 6.8  | 5.6  | 8.1  | 9.2  | 6.1  | 8.5  | 6.6  | 6.2  | 7.3  | 2.55 | 12.02 | 12.6 |
| 19-50- 78 | 84.36 | 3348     | 1.08           | 1.03           | 1.11           | 1.06 | 1.11 | 639.2 | 19.5 | 15.8 | 20.7 | 21.9 | 18.8 | 21.7 | 17.7 | 18.7 | 19.9 | 2.75 | 11.12 | 25.6 |
| 19-50- 79 | 75.37 | 3117     | 1.08           | 1.03           | 1.11           | 1.06 | 1.12 | 562.7 | 18.8 | 15.1 | 19.9 | 21.0 | 18.0 | 20.8 | 16.9 | 17.9 | 18.9 | 2.74 | 11.22 | 24.7 |
| 19-50- 80 | 66.43 | 2864     | 1.08           | 1.03           | 1.12           | 1.07 | 1.13 | 489.5 | 18.0 | 14.4 | 19.1 | 20.1 | 17.2 | 19.9 | 16.1 | 17.0 | 17.9 | 2.73 | 11.31 | 23.9 |
| 19-50- 81 | 59.54 | 2688     | 1.08           | 1.03           | 1.12           | 1.07 | 1.13 | 439.5 | 17.3 | 13.8 | 18.5 | 19.3 | 16.6 | 19.2 | 15.5 | 16.3 | 17.1 | 2.73 | 11.24 | 23.2 |
| 19-50- 82 | 53.07 | 2487     | 1.08           | 1.03           | 1.12           | 1.07 | 1.13 | 392.8 | 17.2 | 13.6 | 18.3 | 19.0 | 16.4 | 19.0 | 15.3 | 16.2 | 16.8 | 2.72 | 11.16 | 23.0 |
| 19-50- 83 | 46.29 | 2226     | 1.09           | 1.04           | 1.12           | 1.07 | 1.14 | 334.6 | 16.1 | 12.8 | 17.2 | 17.9 | 15.3 | 17.8 | 14.4 | 15.0 | 15.6 | 2.70 | 11.35 | 21.8 |
| 19-50- 84 | 36.71 | 1903     | 1.10           | 1.04           | 1.14           | 1.08 | 1.16 | 252.3 | 14.2 | 11.2 | 15.4 | 15.8 | 13.4 | 15.7 | 12.6 | 13.0 | 13.4 | 2.67 | 11.72 | 19.7 |
| 19-50- 85 | 32.98 | 1758     | 1.10           | 1.04           | 1.14           | 1.08 | 1.17 | 223.8 | 13.7 | 10.7 | 14.8 | 15.2 | 12.9 | 15.2 | 12.1 | 12.4 | 12.8 | 2.65 | 11.80 | 19.1 |
| 19-50- 86 | 29.46 | 1629     | 1.10           | 1.04           | 1.15           | 1.08 | 1.18 | 198.2 | 13.0 | 10.2 | 14.2 | 14.5 | 12.3 | 14.5 | 11.5 | 11.8 | 12.0 | 2.64 | 11.82 | 18.4 |
| 19-50- 87 | 25.95 | 1478     | 1.11           | 1.04           | 1.15           | 1.08 | 1.19 | 171.7 | 12.3 | 9.6  | 13.5 | 13.8 | 11.6 | 13.7 | 10.9 | 11.0 | 11.3 | 2.63 | 11.93 | 17.6 |
| 19-50- 88 | 23.22 | 1341     | 1.11           | 1.04           | 1.16           | 1.09 | 1.20 | 152.8 | 11.9 | 9.3  | 13.1 | 13.4 | 11.1 | 13.3 | 10.6 | 10.6 | 10.8 | 2.62 | 11.95 | 17.1 |
| 19-50- 89 | 20.93 | 1246     | 1.11           | 1.04           | 1.16           | 1.09 | 1.21 | 135.8 | 11.4 | 8.9  | 12.6 | 12.8 | 10.6 | 12.7 | 10.1 | 10.0 | 10.2 | 2.60 | 12.02 | 16.5 |
| 19-50- 90 | 18.30 | 1114     | 1.15           | 1.08           | 1.21           | 1.12 | 1.19 | 131.2 | 10.5 | 8.2  | 11.8 | 12.2 | 9.8  | 12.0 | 9.5  | 9.9  | 10.4 | 2.62 | 11.94 | 16.5 |
| 19-50- 91 | 14.57 | 946      | 1.16           | 1.08           | 1.22           | 1.13 | 1.21 | 105.1 | 9.7  | 7.6  | 11.0 | 11.4 | 9.0  | 11.1 | 8.8  | 9.1  | 9.6  | 2.61 | 11.83 | 15.6 |
| 19-50- 92 | 13.18 | 856      | 1.17           | 1.08           | 1.23           | 1.13 | 1.22 | 93.6  | 9.1  | 7.2  | 10.4 | 10.9 | 8.4  | 10.6 | 8.4  | 8.5  | 9.0  | 2.60 | 11.98 | 15.0 |
| 19-50- 93 | 11.85 | 802      | 1.17           | 1.08           | 1.23           | 1.13 | 1.23 | 83.6  | 8.9  | 6.9  | 10.1 | 10.5 | 8.1  | 10.3 | 8.1  | 8.2  | 8.6  | 2.58 | 12.01 | 14.7 |
| 19-50- 94 | 10.40 | 718      | 1.15           | 1.05           | 1.21           | 1.11 | 1.30 | 59.8  | 8.1  | 6.3  | 9.3  | 9.5  | 7.3  | 9.3  | 7.2  | 6.4  | 6.5  | 2.49 | 12.83 | 12.6 |
| 19-50- 95 | 9.27  | 643      | 1.15           | 1.06           | 1.21           | 1.11 | 1.30 | 54.4  | 8.2  | 6.4  | 9.5  | 9.7  | 7.5  | 9.5  | 7.3  | 6.6  | 6.7  | 2.49 | 12.60 | 12.8 |
| 19-50- 96 | 8.36  | 594      | 1.15           | 1.06           | 1.22           | 1.11 | 1.31 | 48.2  | 7.9  | 6.1  | 9.1  | 9.3  | 7.1  | 9.1  | 7.0  | 6.2  | 6.3  | 2.47 | 12.70 | 12.3 |
| 19-50- 97 | 21.07 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 188.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.75 | 10.29 | 0.0  |
| 19-50- 98 | 24.27 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 214.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.75 | 10.41 | 0.0  |
| 19-50- 99 | 27.14 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 239.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.76 | 10.41 | 0.0  |
| 19-50-100 | 29.47 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 263.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.77 | 10.29 | 0.0  |

HELIUM

| VFRS-NR.  | RE*E4 | RE1*E4 | F      | F1     | STR | STPR | F1/F2 | TW/TH | TW/T1 | PR   | H/Y   | BETA | H+    | H+W   | H+R   | H+RW  | RH+  | RH+01 | RH+R |
|-----------|-------|--------|--------|--------|-----|------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|------|-------|------|
| 19-50-101 | 8.96  | 17.21  | .00891 | .01853 | .0  | .0   | 3.43  | 1.00  | 1.00  | .667 | .0297 | .770 | 79.5  | 79.5  | 79.5  | 79.5  | 3.66 | 3.22  | 3.66 |
| 19-50-102 | 7.92  | 15.03  | .00497 | .01839 | .0  | .0   | 3.32  | 1.00  | 1.00  | .667 | .0300 | .766 | 70.1  | 70.1  | 70.1  | 70.1  | 3.72 | 3.28  | 3.72 |
| 19-50-103 | 7.10  | 13.41  | .00912 | .01861 | .0  | .0   | 3.29  | 1.00  | 1.00  | .667 | .0301 | .765 | 63.2  | 63.2  | 63.2  | 63.2  | 3.67 | 3.23  | 3.67 |
| 19-50-104 | 6.23  | 11.48  | .00903 | .01789 | .0  | .0   | 3.09  | 1.00  | 1.00  | .667 | .0307 | .757 | 54.5  | 54.5  | 54.5  | 54.5  | 3.93 | 3.48  | 3.93 |
| 19-50-105 | 5.59  | 10.22  | .00915 | .01797 | .0  | .0   | 3.03  | 1.00  | 1.00  | .667 | .0309 | .755 | 49.0  | 49.0  | 49.0  | 49.0  | 3.93 | 3.48  | 3.93 |
| 19-50-106 | 5.03  | 9.25   | .00947 | .01875 | .0  | .0   | 3.08  | 1.00  | 1.00  | .667 | .0308 | .757 | 45.0  | 45.0  | 45.0  | 45.0  | 3.69 | 3.24  | 3.69 |
| 19-50-107 | 4.45  | 8.06   | .00953 | .01854 | .0  | .0   | 2.97  | 1.00  | 1.00  | .667 | .0311 | .752 | 39.6  | 39.6  | 39.6  | 39.6  | 3.78 | 3.33  | 3.78 |
| 19-50-108 | 87.26 | 196.91 | .00776 | .01921 | .0  | .0   | 5.33  | 1.00  | 1.00  | .667 | .0263 | .822 | 784.8 | 784.8 | 784.8 | 784.8 | 3.14 | 2.75  | 3.14 |
| 19-50-109 | 77.29 | 172.58 | .00774 | .01894 | .0  | .0   | 5.15  | 1.00  | 1.00  | .667 | .0265 | .818 | 690.4 | 690.4 | 690.4 | 690.4 | 3.23 | 2.84  | 3.23 |
| 19-50-110 | 68.96 | 153.02 | .00780 | .01896 | .0  | .0   | 5.06  | 1.00  | 1.00  | .667 | .0267 | .816 | 616.3 | 616.3 | 616.3 | 616.3 | 3.24 | 2.85  | 3.24 |
| 19-50-111 | 61.87 | 138.22 | .00811 | .01989 | .0  | .0   | 5.19  | 1.00  | 1.00  | .667 | .0265 | .819 | 565.9 | 565.9 | 565.9 | 565.9 | 2.98 | 2.59  | 2.98 |
| 19-50-112 | 55.45 | 124.01 | .00831 | .02043 | .0  | .0   | 5.22  | 1.00  | 1.00  | .667 | .0265 | .819 | 513.8 | 513.8 | 513.8 | 513.8 | 2.84 | 2.45  | 2.84 |
| 19-50-113 | 49.59 | 109.79 | .00829 | .02017 | .0  | .0   | 5.07  | 1.00  | 1.00  | .667 | .0267 | .816 | 456.7 | 456.7 | 456.7 | 456.7 | 2.93 | 2.53  | 2.93 |
| 19-50-114 | 44.18 | 96.89  | .00829 | .01996 | .0  | .0   | 4.92  | 1.00  | 1.00  | .667 | .0269 | .813 | 404.9 | 404.9 | 404.9 | 404.9 | 3.00 | 2.60  | 3.00 |
| 19-50-115 | 34.11 | 72.83  | .00822 | .01920 | .0  | .0   | 4.54  | 1.00  | 1.00  | .667 | .0274 | .804 | 306.9 | 306.9 | 306.9 | 306.9 | 3.25 | 2.85  | 3.25 |
| 19-50-116 | 30.56 | 64.42  | .00818 | .01884 | .0  | .0   | 4.38  | 1.00  | 1.00  | .667 | .0277 | .800 | 272.5 | 272.5 | 272.5 | 272.5 | 3.37 | 2.97  | 3.37 |
| 19-50-117 | 27.55 | 57.53  | .00818 | .01865 | .0  | .0   | 4.26  | 1.00  | 1.00  | .667 | .0279 | .797 | 244.5 | 244.5 | 244.5 | 244.5 | 3.45 | 3.04  | 3.45 |
| 19-50-118 | 24.22 | 50.83  | .00851 | .01954 | .0  | .0   | 4.34  | 1.00  | 1.00  | .667 | .0278 | .798 | 219.8 | 219.8 | 219.8 | 219.8 | 3.20 | 2.79  | 3.20 |
| 19-50-119 | 21.63 | 45.14  | .00861 | .01965 | .0  | .0   | 4.28  | 1.00  | 1.00  | .667 | .0279 | .797 | 197.0 | 197.0 | 197.0 | 197.0 | 3.18 | 2.77  | 3.18 |
| 19-50-120 | 19.52 | 40.25  | .00859 | .01934 | .0  | .0   | 4.14  | 1.00  | 1.00  | .667 | .0281 | .793 | 176.4 | 176.4 | 176.4 | 176.4 | 3.28 | 2.87  | 3.28 |
| 19-50-121 | 17.20 | 35.17  | .00867 | .01935 | .0  | .0   | 4.04  | 1.00  | 1.00  | .667 | .0283 | .790 | 155.5 | 155.5 | 155.5 | 155.5 | 3.30 | 2.88  | 3.30 |
| 19-50-122 | 14.24 | 28.70  | .00877 | .01926 | .0  | .0   | 3.89  | 1.00  | 1.00  | .667 | .0286 | .785 | 128.6 | 128.6 | 128.6 | 128.6 | 3.36 | 2.93  | 3.36 |
| 19-50-123 | 12.49 | 24.93  | .00887 | .01929 | .0  | .0   | 3.80  | 1.00  | 1.00  | .667 | .0288 | .782 | 112.8 | 112.8 | 112.8 | 112.8 | 3.37 | 2.94  | 3.37 |
| 19-50-124 | 11.32 | 22.32  | .00886 | .01897 | .0  | .0   | 3.67  | 1.00  | 1.00  | .667 | .0291 | .778 | 101.5 | 101.5 | 101.5 | 101.5 | 3.48 | 3.05  | 3.48 |

| VERS.NR.  | RE*E4 Q<KW/M2> | ST1+/<br>ST1*/ | STT+/<br>STT*/ | ST1F/<br>ST1F*/ | H+  | G+  | GPR01 | G*    | G*R | GT  | GTR | GTR1 | GTF | GTFR | X   | YR   | YG    |     |
|-----------|----------------|----------------|----------------|-----------------|-----|-----|-------|-------|-----|-----|-----|------|-----|------|-----|------|-------|-----|
| 19-50-101 | 8.96           | 0              | 0.0            | 0.0             | 0.0 | 0.0 | 0.0   | 79.5  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 2.69 | 10.39 | 0.0 |
| 19-50-102 | 7.92           | 0              | 0.0            | 0.0             | 0.0 | 0.0 | 0.0   | 70.1  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 2.68 | 10.43 | 0.0 |
| 19-50-103 | 7.10           | 0              | 0.0            | 0.0             | 0.0 | 0.0 | 0.0   | 63.2  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 2.68 | 10.37 | 0.0 |
| 19-50-104 | 6.23           | 0              | 0.0            | 0.0             | 0.0 | 0.0 | 0.0   | 54.5  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 2.66 | 10.57 | 0.0 |
| 19-50-105 | 5.59           | 0              | 0.0            | 0.0             | 0.0 | 0.0 | 0.0   | 49.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 2.65 | 10.55 | 0.0 |
| 19-50-106 | 5.03           | 0              | 0.0            | 0.0             | 0.0 | 0.0 | 0.0   | 45.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 2.65 | 10.33 | 0.0 |
| 19-50-107 | 4.45           | 0              | 0.0            | 0.0             | 0.0 | 0.0 | 0.0   | 39.6  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 2.64 | 10.39 | 0.0 |
| 19-50-108 | 87.26          | 0              | 0.0            | 0.0             | 0.0 | 0.0 | 0.0   | 784.8 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 2.83 | 10.20 | 0.0 |
| 19-50-109 | 17.29          | 0              | 0.0            | 0.0             | 0.0 | 0.0 | 0.0   | 690.4 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 2.82 | 10.27 | 0.0 |
| 19-50-110 | 68.96          | 0              | 0.0            | 0.0             | 0.0 | 0.0 | 0.0   | 616.3 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 2.81 | 10.27 | 0.0 |
| 19-50-111 | 61.87          | 0              | 0.0            | 0.0             | 0.0 | 0.0 | 0.0   | 565.9 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 2.82 | 10.03 | 0.0 |
| 19-50-112 | 55.45          | 0              | 0.0            | 0.0             | 0.0 | 0.0 | 0.0   | 513.8 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 2.82 | 9.89  | 0.0 |
| 19-50-113 | 49.59          | 0              | 0.0            | 0.0             | 0.0 | 0.0 | 0.0   | 456.7 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 2.81 | 9.96  | 0.0 |
| 19-50-114 | 44.18          | 0              | 0.0            | 0.0             | 0.0 | 0.0 | 0.0   | 404.9 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 2.81 | 10.01 | 0.0 |
| 19-50-115 | 34.11          | 0              | 0.0            | 0.0             | 0.0 | 0.0 | 0.0   | 306.9 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 2.78 | 10.21 | 0.0 |
| 19-50-116 | 30.56          | 0              | 0.0            | 0.0             | 0.0 | 0.0 | 0.0   | 272.5 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 2.77 | 10.30 | 0.0 |
| 19-50-117 | 27.55          | 0              | 0.0            | 0.0             | 0.0 | 0.0 | 0.0   | 244.5 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 2.76 | 10.36 | 0.0 |
| 19-50-118 | 24.22          | 0              | 0.0            | 0.0             | 0.0 | 0.0 | 0.0   | 219.8 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 2.77 | 10.12 | 0.0 |
| 19-50-119 | 21.63          | 0              | 0.0            | 0.0             | 0.0 | 0.0 | 0.0   | 197.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 2.76 | 10.09 | 0.0 |
| 19-50-120 | 19.52          | 0              | 0.0            | 0.0             | 0.0 | 0.0 | 0.0   | 176.4 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 2.75 | 10.17 | 0.0 |
| 19-50-121 | 17.20          | 0              | 0.0            | 0.0             | 0.0 | 0.0 | 0.0   | 155.5 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 2.75 | 10.17 | 0.0 |
| 19-50-122 | 14.24          | 0              | 0.0            | 0.0             | 0.0 | 0.0 | 0.0   | 128.6 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 2.73 | 10.19 | 0.0 |
| 19-50-123 | 12.49          | 0              | 0.0            | 0.0             | 0.0 | 0.0 | 0.0   | 112.8 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 2.73 | 10.18 | 0.0 |
| 19-50-124 | 11.32          | 0              | 0.0            | 0.0             | 0.0 | 0.0 | 0.0   | 101.5 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 2.72 | 10.27 | 0.0 |

NITROGEN

| VERS.NR.  | RE*E4  | RE1*E4 | F      | F1     | STB    | STPR   | F1/F2 | TW/TB | TW/T1 | PR   | H/Y   | BETA | H+     | H+W    | H+R    | H+RW  | RH+  | RH+01 | RH+R |
|-----------|--------|--------|--------|--------|--------|--------|-------|-------|-------|------|-------|------|--------|--------|--------|-------|------|-------|------|
| 19-50- 1  | 140.39 | 297.54 | .00710 | .01720 | .00308 | .00280 | 5.24  | 1.53  | 1.48  | .689 | .0268 | .816 | 1149.1 | 585.71 | 216.5  | 620.0 | 3.77 | 3.37  | 3.17 |
| 19-50- 2  | 122.26 | 256.08 | .00711 | .01704 | .00321 | .00290 | 5.09  | 1.52  | 1.47  | .689 | .0270 | .813 | 995.0  | 515.81 | 1051.9 | 545.3 | 3.84 | 3.44  | 3.25 |
| 19-50- 3  | 108.72 | 226.74 | .00724 | .01733 | .00334 | .00303 | 5.07  | 1.53  | 1.47  | .689 | .0270 | .812 | 890.4  | 460.3  | 941.4  | 486.7 | 3.75 | 3.35  | 3.17 |
| 19-50- 4  | 97.07  | 200.59 | .00729 | .01731 | .00346 | .00313 | 4.98  | 1.52  | 1.46  | .689 | .0272 | .810 | 793.1  | 412.0  | 838.2  | 435.4 | 3.77 | 3.37  | 3.19 |
| 19-50- 5  | 85.37  | 174.06 | .00732 | .01723 | .00369 | .00333 | 4.86  | 1.52  | 1.46  | .689 | .0274 | .806 | 693.5  | 362.5  | 732.6  | 382.9 | 3.82 | 3.41  | 3.24 |
| 19-50- 6  | 67.71  | 134.41 | .00734 | .01689 | .00382 | .00346 | 4.60  | 1.53  | 1.46  | .689 | .0278 | .800 | 542.0  | 282.3  | 572.7  | 298.3 | 3.97 | 3.56  | 3.39 |
| 19-50- 7  | 60.68  | 119.43 | .00741 | .01695 | .00391 | .00354 | 4.53  | 1.53  | 1.46  | .689 | .0279 | .798 | 485.5  | 252.8  | 513.0  | 267.2 | 3.96 | 3.55  | 3.38 |
| 19-50- 8  | 54.20  | 104.79 | .00738 | .01664 | .00411 | .00372 | 4.37  | 1.53  | 1.45  | .689 | .0282 | .793 | 428.2  | 224.9  | 452.1  | 237.5 | 4.09 | 3.68  | 3.51 |
| 19-50- 9  | 47.21  | 90.01  | .00743 | .01655 | .00421 | .00380 | 4.25  | 1.53  | 1.45  | .689 | .0285 | .789 | 371.2  | 194.9  | 391.9  | 205.8 | 4.14 | 3.73  | 3.56 |
| 19-50- 10 | 42.27  | 79.84  | .00749 | .01655 | .00429 | .00387 | 4.17  | 1.53  | 1.45  | .689 | .0286 | .787 | 331.8  | 175.2  | 350.1  | 184.9 | 4.16 | 3.74  | 3.58 |
| 19-50- 11 | 38.19  | 70.67  | .00740 | .01604 | .00433 | .00391 | 3.99  | 1.53  | 1.44  | .689 | .0290 | .781 | 294.5  | 157.0  | 310.6  | 165.5 | 4.38 | 3.95  | 3.80 |
| 19-50- 12 | 33.37  | 61.17  | .00754 | .01628 | .00447 | .00404 | 3.95  | 1.54  | 1.45  | .689 | .0292 | .780 | 258.3  | 135.6  | 272.7  | 143.2 | 4.30 | 3.87  | 3.71 |
| 19-50- 13 | 27.17  | 48.79  | .00764 | .01620 | .00472 | .00425 | 3.79  | 1.53  | 1.44  | .689 | .0295 | .774 | 209.1  | 112.1  | 220.4  | 118.1 | 4.36 | 3.93  | 3.80 |
| 19-50- 14 | 24.28  | 42.98  | .00768 | .01611 | .00485 | .00437 | 3.70  | 1.53  | 1.43  | .689 | .0298 | .771 | 185.8  | 99.9   | 195.8  | 105.2 | 4.42 | 3.98  | 3.85 |
| 19-50- 15 | 21.98  | 38.13  | .00764 | .01573 | .00491 | .00442 | 3.56  | 1.53  | 1.43  | .689 | .0302 | .766 | 165.7  | 89.6   | 174.5  | 94.4  | 4.59 | 4.14  | 4.02 |
| 19-50- 16 | 136.37 | 278.10 | .00697 | .01656 | .00302 | .00290 | 5.06  | 1.78  | 1.69  | .689 | .0272 | .810 | 1076.2 | 442.4  | 1160.9 | 477.2 | 4.01 | 3.61  | 3.21 |
| 19-50- 17 | 119.70 | 240.73 | .00700 | .01645 | .00314 | .00302 | 4.93  | 1.77  | 1.68  | .688 | .0274 | .807 | 938.2  | 388.9  | 1011.2 | 419.2 | 4.07 | 3.67  | 3.28 |
| 19-50- 18 | 107.23 | 213.49 | .00705 | .01645 | .00325 | .00312 | 4.85  | 1.77  | 1.68  | .688 | .0275 | .805 | 838.0  | 348.2  | 903.1  | 375.3 | 4.09 | 3.68  | 3.29 |
| 19-50- 19 | 96.22  | 190.36 | .00713 | .01658 | .00332 | .00319 | 4.80  | 1.78  | 1.67  | .688 | .0276 | .803 | 753.5  | 313.4  | 812.0  | 337.8 | 4.05 | 3.64  | 3.26 |
| 19-50- 20 | 84.38  | 163.84 | .00714 | .01636 | .00346 | .00333 | 4.65  | 1.78  | 1.67  | .688 | .0279 | .799 | 653.2  | 272.3  | 703.7  | 293.3 | 4.15 | 3.74  | 3.36 |
| 19-50- 21 | 67.48  | 127.35 | .00718 | .01615 | .00370 | .00356 | 4.43  | 1.79  | 1.67  | .688 | .0283 | .792 | 515.0  | 215.9  | 554.6  | 232.5 | 4.27 | 3.85  | 3.47 |
| 19-50- 22 | 59.59  | 111.86 | .00730 | .01635 | .00380 | .00365 | 4.39  | 1.78  | 1.66  | .688 | .0284 | .791 | 457.1  | 193.4  | 491.8  | 208.1 | 4.20 | 3.79  | 3.42 |
| 19-50- 23 | 53.11  | 97.54  | .00726 | .01601 | .00394 | .00378 | 4.23  | 1.78  | 1.65  | .688 | .0288 | .786 | 400.9  | 170.6  | 431.2  | 183.5 | 4.36 | 3.94  | 3.57 |
| 19-50- 24 | 46.37  | 83.90  | .00730 | .01589 | .00398 | .00382 | 4.10  | 1.78  | 1.65  | .688 | .0290 | .782 | 347.9  | 148.9  | 374.0  | 160.0 | 4.42 | 4.00  | 3.64 |
| 19-50- 25 | 41.46  | 74.56  | .00739 | .01600 | .00406 | .00388 | 4.05  | 1.77  | 1.64  | .688 | .0291 | .781 | 311.9  | 134.8  | 335.0  | 144.8 | 4.40 | 3.97  | 3.63 |
| 19-50- 26 | 38.21  | 67.05  | .00733 | .01560 | .00416 | .00400 | 3.91  | 1.79  | 1.64  | .689 | .0295 | .776 | 281.7  | 120.9  | 302.7  | 130.0 | 4.57 | 4.14  | 3.78 |
| 19-50- 27 | 33.28  | 57.10  | .00734 | .01536 | .00434 | .00416 | 3.76  | 1.78  | 1.63  | .689 | .0299 | .770 | 242.2  | 105.4  | 259.9  | 113.2 | 4.69 | 4.26  | 3.92 |
| 19-50- 28 | 27.85  | 51.02  | .00741 | .01563 | .00446 | .00430 | 3.67  | 1.81  | 1.73  | .689 | .0297 | .773 | 215.8  | 85.0   | 233.7  | 92.0  | 4.58 | 4.15  | 3.72 |
| 19-50- 29 | 24.83  | 44.88  | .00742 | .01543 | .00452 | .00436 | 3.56  | 1.80  | 1.72  | .689 | .0300 | .770 | 191.1  | 75.8   | 206.8  | 82.0  | 4.68 | 4.24  | 3.82 |
| 19-50- 30 | 22.17  | 39.02  | .00732 | .01482 | .00461 | .00444 | 3.36  | 1.79  | 1.71  | .689 | .0305 | .762 | 166.8  | 66.8   | 180.4  | 72.2  | 4.96 | 4.51  | 4.09 |
| 19-50- 31 | 138.77 | 270.63 | .00679 | .01577 | .00285 | .00294 | 4.87  | 2.07  | 1.92  | .689 | .0276 | .804 | 1045.7 | 346.7  | 1149.8 | 381.3 | 4.33 | 3.92  | 3.31 |
| 19-50- 32 | 121.80 | 232.41 | .00676 | .01546 | .00298 | .00308 | 4.69  | 2.07  | 1.91  | .689 | .0279 | .799 | 903.3  | 302.6  | 992.3  | 332.4 | 4.47 | 4.06  | 3.45 |
| 19-50- 33 | 109.25 | 205.52 | .00679 | .01535 | .00307 | .00317 | 4.59  | 2.07  | 1.91  | .689 | .0281 | .796 | 804.0  | 270.5  | 882.9  | 297.1 | 4.53 | 4.12  | 3.51 |
| 19-50- 34 | 98.26  | 184.47 | .00694 | .01573 | .00317 | .00327 | 4.61  | 2.07  | 1.91  | .689 | .0281 | .796 | 729.8  | 246.0  | 801.4  | 270.1 | 4.39 | 3.98  | 3.39 |
| 19-50- 35 | 86.27  | 157.83 | .00688 | .01529 | .00329 | .00339 | 4.40  | 2.07  | 1.89  | .689 | .0285 | .790 | 627.7  | 214.2  | 688.5  | 235.0 | 4.60 | 4.18  | 3.59 |
| 19-50- 36 | 66.31  | 117.67 | .00697 | .01517 | .00357 | .00365 | 4.19  | 2.04  | 1.86  | .688 | .0290 | .783 | 476.8  | 168.0  | 521.6  | 183.8 | 4.69 | 4.26  | 3.70 |
| 19-50- 37 | 59.46  | 103.05 | .00693 | .01482 | .00367 | .00375 | 4.03  | 2.04  | 1.84  | .688 | .0294 | .778 | 420.0  | 149.6  | 459.0  | 163.5 | 4.86 | 4.43  | 3.87 |
| 19-50- 38 | 52.77  | 91.52  | .00711 | .01524 | .00378 | .00384 | 4.05  | 2.03  | 1.83  | .687 | .0293 | .778 | 377.6  | 135.7  | 412.4  | 148.2 | 4.69 | 4.26  | 3.73 |
| 19-50- 39 | 46.86  | 87.42  | .00704 | .01523 | .00386 | .00394 | 3.93  | 2.03  | 1.94  | .688 | .0292 | .781 | 356.4  | 116.9  | 392.5  | 128.6 | 4.69 | 4.26  | 3.65 |
| 19-50- 40 | 41.95  | 77.87  | .00713 | .01535 | .00393 | .00400 | 3.88  | 2.02  | 1.92  | .688 | .0293 | .780 | 320.3  | 106.2  | 352.3  | 116.8 | 4.65 | 4.22  | 3.63 |
| 19-50- 41 | 37.73  | 68.94  | .00715 | .01519 | .00405 | .00413 | 3.78  | 2.04  | 1.93  | .688 | .0295 | .776 | 285.6  | 94.0   | 314.4  | 103.4 | 4.74 | 4.31  | 3.70 |
| 19-50- 42 | 33.23  | 59.49  | .00712 | .01483 | .00415 | .00422 | 3.61  | 2.03  | 1.92  | .688 | .0299 | .771 | 248.0  | 82.4   | 272.7  | 90.6  | 4.91 | 4.47  | 3.87 |
| 19-50- 43 | 27.44  | 42.47  | .00728 | .01439 | .00428 | .00438 | 3.44  | 2.06  | 1.81  | .688 | .0311 | .755 | 184.4  | 67.8   | 201.0  | 73.9  | 5.19 | 4.74  | 4.22 |
| 19-50- 44 | 24.34  | 37.15  | .00743 | .01459 | .00448 | .00459 | 3.42  | 2.07  | 1.80  | .688 | .0313 | .753 | 163.5  | 60.5   | 178.1  | 65.9  | 5.12 | 4.66  | 4.16 |
| 19-50- 45 | 21.71  | 32.23  | .00736 | .01411 | .00456 | .00464 | 3.24  | 2.04  | 1.77  | .688 | .0318 | .746 | 142.8  | 54.5   | 155.1  | 59.2  | 5.37 | 4.91  | 4.42 |
| 19-50- 46 | 19.28  | 27.72  | .00742 | .01395 | .00477 | .00486 | 3.14  | 2.04  | 1.76  | .688 | .0323 | .741 | 124.4  | 48.2   | 135.0  | 52.2  | 5.48 | 5.01  | 4.54 |
| 19-50- 47 | 17.13  | 23.21  | .00723 | .01296 | .00481 | .00489 | 2.87  | 2.04  | 1.73  | .688 | .0334 | .729 | 105.1  | 41.7   | 113.8  | 45.2  | 6.02 | 5.54  | 5.07 |
| 19-50- 48 | 135.33 | 254.44 | .00672 | .01535 | .00285 | .00307 | 4.75  | 2.27  | 2.08  | .687 | .0280 | .799 | 988.6  | 289.5  | 1099.5 | 322.0 | 4.52 | 4.11  | 3.37 |
| 19-50- 49 | 119.26 | 219.67 | .00671 | .01511 | .00295 | .00319 | 4.59  | 2.28  | 2.08  | .687 | .0283 | .795 | 858.1  | 252.2  | 954.2  | 280.4 | 4.64 | 4.22  | 3.48 |
| 19-50- 50 | 106.47 | 192.69 | .00671 | .01492 | .00304 | .00329 | 4.46  | 2.28  | 2.06  | .687 | .0285 | .791 | 757.5  | 225.2  | 841.3  | 250.2 | 4.74 | 4.32  | 3.58 |

| VERS.NR. | RE*E4 | Q<KW/M2> | ST1*/* | ST1*/* | STT*/* | STT*/* | ST1F/* | H*   | G*     | GPR01 | G*   | G*R  | GT   | GTR  | GTR1 | GTF  | GTFR | X    | YR   | YG    |      |
|----------|-------|----------|--------|--------|--------|--------|--------|------|--------|-------|------|------|------|------|------|------|------|------|------|-------|------|
| 19-50-   | 1     | 140.39   | 462    | 1.09   | 1.05   | 1.12   | 1.07   | 1.10 | 1149.1 | 20.7  | 19.0 | 21.7 | 26.7 | 19.9 | 25.4 | 20.9 | 20.4 | 25.2 | 2.81 | 10.78 | 27.4 |
| 19-50-   | 2     | 122.26   | 411    | 1.09   | 1.05   | 1.12   | 1.08   | 1.10 | 995.0  | 19.4  | 17.9 | 20.4 | 25.2 | 18.6 | 24.0 | 19.6 | 19.1 | 23.8 | 2.80 | 10.83 | 26.1 |
| 19-50-   | 3     | 108.72   | 384    | 1.09   | 1.05   | 1.13   | 1.08   | 1.11 | 890.4  | 18.5  | 17.0 | 19.5 | 24.2 | 17.7 | 22.9 | 18.8 | 18.2 | 22.7 | 2.80 | 10.74 | 25.2 |
| 19-50-   | 4     | 97.07    | 354    | 1.10   | 1.05   | 1.13   | 1.08   | 1.11 | 793.1  | 17.5  | 16.2 | 18.6 | 23.1 | 16.8 | 21.8 | 17.9 | 17.2 | 21.6 | 2.79 | 10.75 | 24.2 |
| 19-50-   | 5     | 85.37    | 332    | 1.10   | 1.05   | 1.14   | 1.09   | 1.12 | 693.5  | 15.9  | 14.7 | 16.9 | 21.2 | 15.2 | 19.8 | 16.2 | 15.6 | 19.7 | 2.78 | 10.77 | 22.5 |
| 19-50-   | 6     | 67.71    | 274    | 1.11   | 1.06   | 1.15   | 1.09   | 1.13 | 542.0  | 14.8  | 13.6 | 15.9 | 19.9 | 14.1 | 18.6 | 15.1 | 14.4 | 18.3 | 2.77 | 10.88 | 21.4 |
| 19-50-   | 7     | 60.68    | 253    | 1.11   | 1.06   | 1.15   | 1.09   | 1.13 | 485.5  | 14.3  | 13.1 | 15.4 | 19.3 | 13.5 | 17.9 | 14.6 | 13.9 | 17.7 | 2.76 | 10.86 | 20.8 |
| 19-50-   | 8     | 54.20    | 237    | 1.12   | 1.06   | 1.16   | 1.10   | 1.14 | 428.2  | 13.0  | 12.0 | 14.1 | 17.8 | 12.3 | 16.4 | 13.3 | 12.6 | 16.2 | 2.75 | 10.96 | 19.5 |
| 19-50-   | 9     | 47.21    | 213    | 1.12   | 1.06   | 1.16   | 1.10   | 1.15 | 371.2  | 12.4  | 11.4 | 13.5 | 17.1 | 11.7 | 15.8 | 12.8 | 12.0 | 15.5 | 2.74 | 10.99 | 18.9 |
| 19-50-   | 10    | 42.27    | 194    | 1.12   | 1.06   | 1.17   | 1.10   | 1.15 | 331.8  | 12.0  | 11.1 | 13.2 | 16.7 | 11.3 | 15.3 | 12.4 | 11.6 | 15.1 | 2.73 | 10.99 | 18.5 |
| 19-50-   | 11    | 38.19    | 175    | 1.13   | 1.06   | 1.18   | 1.11   | 1.16 | 294.5  | 11.5  | 10.6 | 12.6 | 16.1 | 10.8 | 14.7 | 11.9 | 11.1 | 14.5 | 2.72 | 11.17 | 17.9 |
| 19-50-   | 12    | 33.37    | 164    | 1.13   | 1.06   | 1.18   | 1.11   | 1.16 | 258.3  | 11.1  | 10.1 | 12.2 | 15.5 | 10.3 | 14.1 | 11.4 | 10.6 | 13.9 | 2.71 | 11.08 | 17.4 |
| 19-50-   | 13    | 27.17    | 138    | 1.14   | 1.07   | 1.19   | 1.12   | 1.18 | 209.1  | 10.0  | 9.2  | 11.1 | 14.3 | 9.2  | 12.9 | 10.4 | 9.5  | 12.6 | 2.70 | 11.11 | 16.2 |
| 19-50-   | 14    | 24.28    | 127    | 1.15   | 1.07   | 1.20   | 1.12   | 1.18 | 185.8  | 9.4   | 8.7  | 10.6 | 13.7 | 8.7  | 12.2 | 9.8  | 8.9  | 12.0 | 2.69 | 11.14 | 15.7 |
| 19-50-   | 15    | 21.98    | 116    | 1.15   | 1.07   | 1.21   | 1.12   | 1.19 | 165.7  | 9.0   | 8.3  | 10.1 | 13.2 | 8.2  | 11.7 | 9.4  | 8.4  | 11.4 | 2.68 | 11.28 | 15.1 |
| 19-50-   | 16    | 136.37   | 655    | 1.08   | 1.04   | 1.11   | 1.07   | 1.10 | 1076.2 | 21.0  | 17.9 | 22.1 | 25.7 | 20.2 | 24.9 | 20.4 | 20.4 | 24.0 | 2.79 | 10.99 | 27.4 |
| 19-50-   | 17    | 119.70   | 598    | 1.08   | 1.04   | 1.11   | 1.07   | 1.11 | 938.2  | 19.7  | 16.8 | 20.8 | 24.3 | 18.9 | 23.4 | 19.1 | 19.1 | 22.5 | 2.78 | 11.03 | 26.1 |
| 19-50-   | 18    | 107.23   | 555    | 1.09   | 1.04   | 1.12   | 1.07   | 1.11 | 838.0  | 18.8  | 16.1 | 19.9 | 23.3 | 18.0 | 22.4 | 18.3 | 18.2 | 21.5 | 2.78 | 11.03 | 25.2 |
| 19-50-   | 19    | 96.22    | 510    | 1.09   | 1.04   | 1.12   | 1.07   | 1.11 | 753.5  | 18.3  | 15.7 | 19.4 | 22.8 | 17.6 | 21.9 | 17.8 | 17.8 | 21.0 | 2.77 | 10.98 | 24.7 |
| 19-50-   | 20    | 84.38    | 470    | 1.09   | 1.04   | 1.13   | 1.07   | 1.12 | 653.2  | 17.1  | 14.6 | 18.2 | 21.3 | 16.3 | 20.4 | 16.6 | 16.5 | 19.5 | 2.76 | 11.06 | 23.4 |
| 19-50-   | 21    | 67.48    | 403    | 1.10   | 1.04   | 1.14   | 1.08   | 1.13 | 515.0  | 15.3  | 13.0 | 16.4 | 19.3 | 14.5 | 18.4 | 14.9 | 14.6 | 17.4 | 2.75 | 11.13 | 21.5 |
| 19-50-   | 22    | 59.59    | 363    | 1.10   | 1.05   | 1.14   | 1.08   | 1.13 | 457.1  | 14.8  | 12.6 | 15.9 | 18.8 | 14.0 | 17.8 | 14.5 | 14.1 | 16.9 | 2.74 | 11.06 | 21.0 |
| 19-50-   | 23    | 53.11    | 338    | 1.11   | 1.05   | 1.15   | 1.09   | 1.14 | 400.9  | 13.7  | 11.7 | 14.9 | 17.6 | 13.0 | 16.6 | 13.5 | 13.1 | 15.7 | 2.73 | 11.18 | 19.9 |
| 19-50-   | 24    | 46.37    | 298    | 1.11   | 1.05   | 1.15   | 1.09   | 1.15 | 347.9  | 13.4  | 11.4 | 14.5 | 17.3 | 12.6 | 16.3 | 13.2 | 12.7 | 15.3 | 2.72 | 11.22 | 19.5 |
| 19-50-   | 25    | 41.46    | 268    | 1.11   | 1.05   | 1.15   | 1.09   | 1.15 | 311.9  | 13.1  | 11.2 | 14.2 | 16.9 | 12.3 | 15.9 | 12.9 | 12.4 | 15.0 | 2.71 | 11.18 | 19.2 |
| 19-50-   | 26    | 38.21    | 252    | 1.12   | 1.05   | 1.16   | 1.09   | 1.16 | 281.7  | 12.3  | 10.4 | 13.4 | 16.0 | 11.5 | 15.0 | 12.0 | 11.5 | 14.0 | 2.70 | 11.32 | 18.3 |
| 19-50-   | 27    | 33.28    | 228    | 1.12   | 1.05   | 1.17   | 1.10   | 1.17 | 242.2  | 11.3  | 9.6  | 12.5 | 14.9 | 10.5 | 13.8 | 11.1 | 10.5 | 12.9 | 2.69 | 11.41 | 17.3 |
| 19-50-   | 28    | 27.85    | 199    | 1.15   | 1.08   | 1.21   | 1.12   | 1.17 | 215.8  | 10.4  | 8.8  | 11.7 | 14.1 | 9.7  | 12.9 | 10.4 | 10.2 | 12.6 | 2.69 | 11.31 | 17.0 |
| 19-50-   | 29    | 24.83    | 179    | 1.16   | 1.08   | 1.21   | 1.12   | 1.18 | 191.1  | 10.1  | 8.5  | 11.3 | 13.7 | 9.3  | 12.5 | 10.0 | 9.8  | 12.1 | 2.68 | 11.39 | 16.5 |
| 19-50-   | 30    | 22.17    | 161    | 1.17   | 1.08   | 1.23   | 1.13   | 1.19 | 166.8  | 9.3   | 7.9  | 10.6 | 12.9 | 8.6  | 11.7 | 9.3  | 9.1  | 11.3 | 2.66 | 11.62 | 15.7 |
| 19-50-   | 31    | 138.77   | 855    | 1.07   | 1.03   | 1.10   | 1.06   | 1.10 | 1045.7 | 22.2  | 17.6 | 23.4 | 25.4 | 21.4 | 25.1 | 20.5 | 21.4 | 23.4 | 2.77 | 11.26 | 28.3 |
| 19-50-   | 32    | 121.80   | 785    | 1.07   | 1.03   | 1.10   | 1.06   | 1.11 | 903.3  | 20.5  | 16.3 | 21.7 | 23.7 | 19.8 | 23.3 | 19.0 | 19.7 | 21.6 | 2.76 | 11.37 | 26.6 |
| 19-50-   | 33    | 109.25   | 726    | 1.08   | 1.03   | 1.11   | 1.06   | 1.11 | 804.0  | 19.7  | 15.6 | 20.9 | 22.7 | 18.9 | 22.3 | 18.2 | 18.8 | 20.6 | 2.75 | 11.41 | 25.7 |
| 19-50-   | 34    | 98.26    | 674    | 1.08   | 1.03   | 1.11   | 1.06   | 1.11 | 729.8  | 19.1  | 15.1 | 20.3 | 22.1 | 18.3 | 21.7 | 17.7 | 18.2 | 20.0 | 2.75 | 11.28 | 25.1 |
| 19-50-   | 35    | 86.27    | 614    | 1.08   | 1.03   | 1.12   | 1.06   | 1.12 | 627.7  | 17.7  | 14.0 | 18.9 | 20.7 | 16.9 | 20.2 | 16.4 | 16.8 | 18.5 | 2.74 | 11.44 | 23.7 |
| 19-50-   | 36    | 66.31    | 511    | 1.09   | 1.03   | 1.13   | 1.07   | 1.14 | 476.8  | 15.6  | 12.4 | 16.8 | 18.6 | 14.8 | 18.0 | 14.6 | 14.7 | 16.4 | 2.72 | 11.48 | 21.5 |
| 19-50-   | 37    | 59.46    | 472    | 1.09   | 1.03   | 1.14   | 1.07   | 1.14 | 420.0  | 14.7  | 11.7 | 15.9 | 17.6 | 13.9 | 17.0 | 13.7 | 13.7 | 15.3 | 2.70 | 11.62 | 20.5 |
| 19-50-   | 38    | 52.77    | 430    | 1.10   | 1.04   | 1.14   | 1.07   | 1.15 | 377.6  | 14.3  | 11.5 | 15.6 | 17.3 | 13.6 | 16.7 | 13.5 | 13.4 | 15.0 | 2.71 | 11.45 | 20.2 |
| 19-50-   | 39    | 46.86    | 391    | 1.13   | 1.06   | 1.17   | 1.10   | 1.15 | 356.4  | 13.2  | 10.6 | 14.5 | 16.3 | 12.5 | 15.5 | 12.5 | 12.9 | 14.7 | 2.71 | 11.46 | 19.7 |
| 19-50-   | 40    | 41.95    | 352    | 1.13   | 1.06   | 1.18   | 1.10   | 1.15 | 320.3  | 12.9  | 10.3 | 14.2 | 16.0 | 12.1 | 15.2 | 12.3 | 12.6 | 14.4 | 2.71 | 11.42 | 19.4 |
| 19-50-   | 41    | 37.73    | 329    | 1.14   | 1.06   | 1.18   | 1.11   | 1.16 | 285.6  | 12.2  | 9.7  | 13.5 | 15.2 | 11.4 | 14.4 | 11.6 | 11.9 | 13.5 | 2.70 | 11.48 | 18.6 |
| 19-50-   | 42    | 33.23    | 294    | 1.15   | 1.07   | 1.20   | 1.11   | 1.16 | 248.0  | 11.4  | 9.1  | 12.7 | 14.4 | 10.6 | 13.6 | 10.9 | 11.1 | 12.7 | 2.68 | 11.61 | 17.8 |
| 19-50-   | 43    | 27.44    | 256    | 1.12   | 1.04   | 1.17   | 1.08   | 1.19 | 184.4  | 11.2  | 8.8  | 12.5 | 13.8 | 10.4 | 13.2 | 10.5 | 10.1 | 11.3 | 2.64 | 11.79 | 16.7 |
| 19-50-   | 44    | 24.34    | 238    | 1.12   | 1.04   | 1.17   | 1.08   | 1.20 | 163.5  | 10.4  | 8.3  | 11.8 | 13.1 | 9.7  | 12.4 | 9.9  | 9.4  | 10.5 | 2.64 | 11.71 | 16.0 |
| 19-50-   | 45    | 21.71    | 211    | 1.13   | 1.04   | 1.19   | 1.09   | 1.21 | 142.8  | 9.7   | 7.8  | 11.2 | 12.5 | 9.0  | 11.7 | 9.3  | 8.7  | 9.9  | 2.62 | 11.91 | 15.2 |
| 19-50-   | 46    | 19.28    | 196    | 1.14   | 1.04   | 1.20   | 1.09   | 1.22 | 124.4  | 8.9   | 7.1  | 10.3 | 11.5 | 8.1  | 10.7 | 8.5  | 7.8  | 8.9  | 2.60 | 11.97 | 14.3 |
| 19-50-   | 47    | 17.13    | 175    | 1.15   | 1.04   | 1.21   | 1.09   | 1.25 | 105.1  | 8.2   | 6.6  | 9.7  | 10.8 | 7.4  | 9.9  | 7.8  | 7.0  | 8.1  | 2.56 | 12.42 | 13.4 |
| 19-50-   | 48    | 135.33   | 1041   | 1.06   | 1.02   | 1.09   | 1.05   | 1.10 | 988.6  | 22.0  | 16.6 | 23.2 | 24.2 | 21.2 | 24.2 | 19.7 | 21.0 | 21.9 | 2.76 | 11.41 | 27.9 |
| 19-50-   | 49    | 119.26   | 957    | 1.07   | 1.02   | 1.10   | 1.05   | 1.11 | 858.1  | 20.7  | 15.6 | 22.0 | 22.8 | 20.0 | 22.8 | 18.6 | 19.7 | 20.5 | 2.75 | 11.50 | 26.5 |
| 19-50-   | 50    | 106.47   | 874    | 1.07   | 1.02   | 1.10   | 1.05   | 1.12 | 757.5  | 19.7  | 14.9 | 20.9 | 21.8 | 18.9 | 21.8 | 17.7 | 18.6 | 19.4 | 2.74 | 11.58 | 25.5 |

NITROGEN

| VERS.NR.  | RE*E4  | RE1*E4 | F      | F1     | STH    | STPR   | F1/F2 | TW/TH | TW/T1 | PR   | H/Y   | BETA | H+     | H+W    | H+R    | H+RW   | RH+  | RH+01 | RH+R |
|-----------|--------|--------|--------|--------|--------|--------|-------|-------|-------|------|-------|------|--------|--------|--------|--------|------|-------|------|
| 19-50- 51 | 95.67  | 172.78 | .00688 | .01532 | .00314 | .00340 | 4.50  | 2.29  | 2.07  | .687 | .0285 | .791 | 687.4  | 203.5  | 763.9  | 226.2  | 4.58 | 4.16  | 3.44 |
| 19-50- 52 | 83.32  | 145.43 | .00678 | .01475 | .00327 | .00353 | 4.25  | 2.29  | 2.05  | .687 | .0290 | .784 | 581.8  | 174.8  | 645.7  | 194.0  | 4.85 | 4.43  | 3.70 |
| 19-50- 53 | 67.15  | 113.34 | .00687 | .01463 | .00348 | .00377 | 4.08  | 2.29  | 2.04  | .687 | .0295 | .777 | 461.3  | 140.1  | 511.5  | 155.3  | 4.94 | 4.51  | 3.80 |
| 19-50- 54 | 58.94  | 110.50 | .00696 | .01525 | .00359 | .00387 | 4.09  | 2.27  | 2.15  | .687 | .0289 | .786 | 445.6  | 123.5  | 498.2  | 137.9  | 4.66 | 4.24  | 3.46 |
| 19-50- 55 | 52.71  | 96.99  | .00691 | .01490 | .00365 | .00394 | 3.93  | 2.28  | 2.15  | .687 | .0293 | .781 | 392.9  | 108.8  | 439.4  | 121.6  | 4.83 | 4.40  | 3.61 |
| 19-50- 56 | 46.05  | 82.47  | .00685 | .01441 | .00378 | .00407 | 3.73  | 2.27  | 2.13  | .687 | .0298 | .774 | 336.1  | 94.2   | 375.5  | 105.1  | 5.08 | 4.64  | 3.85 |
| 19-50- 57 | 41.39  | 73.12  | .00688 | .01431 | .00386 | .00416 | 3.64  | 2.28  | 2.13  | .687 | .0300 | .770 | 300.2  | 84.1   | 335.4  | 93.9   | 5.14 | 4.70  | 3.91 |
| 19-50- 58 | 37.14  | 55.58  | .00691 | .01353 | .00403 | .00432 | 3.44  | 2.26  | 1.95  | .687 | .0313 | .753 | 236.4  | 77.5   | 260.3  | 85.3   | 5.58 | 5.12  | 4.46 |
| 19-50- 59 | 32.50  | 47.53  | .00693 | .01334 | .00409 | .00438 | 3.32  | 2.25  | 1.93  | .686 | .0318 | .748 | 204.2  | 67.9   | 224.7  | 74.7   | 5.70 | 5.24  | 4.59 |
| 19-50- 60 | 27.21  | 38.40  | .00705 | .01326 | .00422 | .00454 | 3.20  | 2.28  | 1.93  | .687 | .0323 | .742 | 168.0  | 56.2   | 184.7  | 61.8   | 5.78 | 5.31  | 4.67 |
| 19-50- 61 | 23.92  | 32.82  | .00708 | .01303 | .00431 | .00463 | 3.08  | 2.27  | 1.91  | .687 | .0328 | .736 | 145.2  | 49.4   | 159.5  | 54.2   | 5.93 | 5.46  | 4.82 |
| 19-50- 62 | 21.44  | 34.13  | .00711 | .01343 | .00448 | .00479 | 3.06  | 2.27  | 2.07  | .686 | .0319 | .747 | 147.0  | 43.6   | 163.6  | 48.4   | 5.68 | 5.21  | 4.47 |
| 19-50- 63 | 18.88  | 29.25  | .00712 | .01316 | .00455 | .00487 | 2.93  | 2.26  | 2.05  | .686 | .0325 | .740 | 127.4  | 38.3   | 141.6  | 42.4   | 5.88 | 5.41  | 4.67 |
| 19-50- 64 | 133.97 | 307.45 | .00747 | .01878 | .0     | .0     | 5.59  | 1.00  | 1.00  | .685 | .0260 | .827 | 1192.2 | 1192.2 | 1192.2 | 1192.2 | 3.22 | 2.84  | 3.22 |
| 19-50- 65 | 116.94 | 266.42 | .00752 | .01877 | .0     | .0     | 5.47  | 1.00  | 1.00  | .685 | .0262 | .825 | 1040.5 | 1040.5 | 1040.5 | 1040.5 | 3.24 | 2.85  | 3.24 |
| 19-50- 66 | 103.98 | 237.00 | .00770 | .01924 | .0     | .0     | 5.49  | 1.00  | 1.00  | .685 | .0262 | .825 | 936.4  | 936.4  | 936.4  | 936.4  | 3.11 | 2.72  | 3.11 |
| 19-50- 67 | 93.14  | 210.11 | .00766 | .01894 | .0     | .0     | 5.31  | 1.00  | 1.00  | .685 | .0264 | .822 | 832.3  | 832.3  | 832.3  | 832.3  | 3.21 | 2.83  | 3.21 |
| 19-50- 68 | 81.63  | 182.13 | .00765 | .01868 | .0     | .0     | 5.14  | 1.00  | 1.00  | .685 | .0266 | .818 | 724.7  | 724.7  | 724.7  | 724.7  | 3.31 | 2.92  | 3.31 |
| 19-50- 69 | 65.34  | 144.63 | .00784 | .01901 | .0     | .0     | 5.03  | 1.00  | 1.00  | .685 | .0267 | .816 | 585.0  | 585.0  | 585.0  | 585.0  | 3.23 | 2.84  | 3.23 |
| 19-50- 70 | 57.42  | 126.52 | .00796 | .01922 | .0     | .0     | 4.97  | 1.00  | 1.00  | .685 | .0268 | .814 | 516.8  | 516.8  | 516.8  | 516.8  | 3.18 | 2.79  | 3.18 |
| 19-50- 71 | 51.40  | 112.51 | .00801 | .01920 | .0     | .0     | 4.87  | 1.00  | 1.00  | .685 | .0269 | .812 | 462.5  | 462.5  | 462.5  | 462.5  | 3.20 | 2.81  | 3.20 |
| 19-50- 72 | 44.91  | 97.61  | .00809 | .01927 | .0     | .0     | 4.78  | 1.00  | 1.00  | .685 | .0271 | .810 | 404.8  | 404.8  | 404.8  | 404.8  | 3.20 | 2.80  | 3.20 |
| 19-50- 73 | 40.29  | 86.71  | .00809 | .01905 | .0     | .0     | 4.64  | 1.00  | 1.00  | .685 | .0273 | .806 | 361.3  | 361.3  | 361.3  | 361.3  | 3.28 | 2.87  | 3.28 |
| 19-50- 74 | 36.15  | 77.24  | .00814 | .01902 | .0     | .0     | 4.55  | 1.00  | 1.00  | .685 | .0274 | .804 | 323.9  | 323.9  | 323.9  | 323.9  | 3.30 | 2.90  | 3.30 |
| 19-50- 75 | 31.77  | 67.07  | .00814 | .01877 | .0     | .0     | 4.39  | 1.00  | 1.00  | .685 | .0277 | .800 | 282.9  | 282.9  | 282.9  | 282.9  | 3.39 | 2.99  | 3.39 |
| 19-50- 76 | 26.53  | 55.80  | .00838 | .01927 | .0     | .0     | 4.36  | 1.00  | 1.00  | .685 | .0278 | .799 | 239.3  | 239.3  | 239.3  | 239.3  | 3.26 | 2.86  | 3.26 |
| 19-50- 77 | 23.34  | 48.49  | .00839 | .01902 | .0     | .0     | 4.21  | 1.00  | 1.00  | .685 | .0280 | .795 | 209.3  | 209.3  | 209.3  | 209.3  | 3.36 | 2.94  | 3.36 |
| 19-50- 78 | 20.95  | 43.05  | .00839 | .01880 | .0     | .0     | 4.08  | 1.00  | 1.00  | .685 | .0282 | .791 | 186.9  | 186.9  | 186.9  | 186.9  | 3.44 | 3.02  | 3.44 |
| 19-50- 79 | 18.36  | 37.60  | .00858 | .01918 | .0     | .0     | 4.06  | 1.00  | 1.00  | .685 | .0283 | .791 | 165.3  | 165.3  | 165.3  | 165.3  | 3.34 | 2.93  | 3.34 |



| VERS.NR.  | HE*E4  | Q<KW/M2> | ST1+/<br>ST1*/ | STT+/<br>STT*/ | STIF/<br>STIF/ | H*   | G*   | GPR01  | G*   | G*R  | GT   | GTR  | GTR1 | GTF  | GTFR | X    | YR   | YG   |       |      |
|-----------|--------|----------|----------------|----------------|----------------|------|------|--------|------|------|------|------|------|------|------|------|------|------|-------|------|
| 19-50- 51 | 95.67  | 820      | 1.07           | 1.02           | 1.10           | 1.05 | 1.12 | 687.4  | 19.2 | 14.5 | 20.5 | 21.2 | 18.4 | 21.2 | 17.2 | 18.1 | 18.8 | 2.74 | 11.43 | 25.0 |
| 19-50- 52 | 83.32  | 743      | 1.07           | 1.02           | 1.11           | 1.05 | 1.13 | 581.8  | 17.7 | 13.3 | 18.9 | 19.6 | 16.9 | 19.6 | 15.8 | 16.5 | 17.2 | 2.72 | 11.65 | 23.3 |
| 19-50- 53 | 67.15  | 636      | 1.08           | 1.02           | 1.12           | 1.06 | 1.14 | 461.3  | 16.0 | 12.0 | 17.3 | 17.9 | 15.2 | 17.8 | 14.4 | 14.8 | 15.4 | 2.70 | 11.69 | 21.6 |
| 19-50- 54 | 58.94  | 570      | 1.12           | 1.05           | 1.16           | 1.09 | 1.14 | 445.6  | 14.9 | 11.3 | 16.2 | 17.1 | 14.2 | 16.8 | 13.6 | 14.6 | 15.5 | 2.72 | 11.45 | 21.4 |
| 19-50- 55 | 52.71  | 521      | 1.12           | 1.05           | 1.16           | 1.09 | 1.14 | 392.9  | 14.3 | 10.8 | 15.6 | 16.5 | 13.6 | 16.2 | 13.0 | 13.9 | 14.8 | 2.71 | 11.59 | 20.7 |
| 19-50- 56 | 46.05  | 471      | 1.13           | 1.06           | 1.17           | 1.10 | 1.15 | 336.1  | 13.1 | 9.9  | 14.5 | 15.3 | 12.4 | 14.9 | 12.0 | 12.7 | 13.6 | 2.69 | 11.78 | 19.5 |
| 19-50- 57 | 41.39  | 435      | 1.13           | 1.06           | 1.18           | 1.10 | 1.16 | 300.2  | 12.6 | 9.5  | 14.0 | 14.8 | 11.8 | 14.4 | 11.5 | 12.2 | 13.0 | 2.68 | 11.82 | 18.9 |
| 19-50- 58 | 37.14  | 402      | 1.10           | 1.02           | 1.15           | 1.07 | 1.18 | 236.4  | 12.0 | 9.1  | 13.4 | 13.9 | 11.2 | 13.6 | 10.9 | 10.7 | 11.2 | 2.63 | 12.16 | 17.3 |
| 19-50- 59 | 32.50  | 356      | 1.10           | 1.02           | 1.15           | 1.07 | 1.19 | 204.2  | 11.5 | 8.7  | 12.9 | 13.5 | 10.7 | 13.2 | 10.5 | 10.2 | 10.7 | 2.62 | 12.25 | 16.7 |
| 19-50- 60 | 27.21  | 311      | 1.11           | 1.02           | 1.16           | 1.07 | 1.20 | 168.0  | 10.9 | 8.3  | 12.4 | 12.8 | 10.1 | 12.5 | 9.9  | 9.5  | 10.0 | 2.60 | 12.28 | 16.0 |
| 19-50- 61 | 23.92  | 279      | 1.11           | 1.02           | 1.17           | 1.07 | 1.21 | 145.2  | 10.4 | 7.9  | 11.9 | 12.3 | 9.6  | 12.0 | 9.4  | 9.0  | 9.4  | 2.58 | 12.39 | 15.4 |
| 19-50- 62 | 21.44  | 259      | 1.16           | 1.06           | 1.22           | 1.11 | 1.20 | 147.0  | 9.3  | 7.0  | 10.8 | 11.5 | 8.5  | 10.9 | 8.6  | 8.7  | 9.4  | 2.61 | 12.20 | 15.3 |
| 19-50- 63 | 18.88  | 230      | 1.17           | 1.06           | 1.23           | 1.11 | 1.21 | 127.4  | 8.8  | 6.7  | 10.3 | 11.0 | 8.0  | 10.4 | 8.2  | 8.2  | 8.9  | 2.59 | 12.33 | 14.7 |
| 19-50- 64 | 133.97 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 1192.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.84 | 10.32 | 0.0  |
| 19-50- 65 | 116.94 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 1040.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.83 | 10.32 | 0.0  |
| 19-50- 66 | 103.98 | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 936.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.84 | 10.19 | 0.0  |
| 19-50- 67 | 93.14  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 832.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.83 | 10.28 | 0.0  |
| 19-50- 68 | 81.63  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 724.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.82 | 10.35 | 0.0  |
| 19-50- 69 | 65.34  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 585.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.81 | 10.26 | 0.0  |
| 19-50- 70 | 57.42  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 516.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.81 | 10.20 | 0.0  |
| 19-50- 71 | 51.40  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 462.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.80 | 10.21 | 0.0  |
| 19-50- 72 | 44.91  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 404.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.80 | 10.19 | 0.0  |
| 19-50- 73 | 40.29  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 361.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.79 | 10.25 | 0.0  |
| 19-50- 74 | 36.15  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 323.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.78 | 10.26 | 0.0  |
| 19-50- 75 | 31.77  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 282.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.77 | 10.32 | 0.0  |
| 19-50- 76 | 26.53  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 239.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.77 | 10.19 | 0.0  |
| 19-50- 77 | 23.34  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 209.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.76 | 10.25 | 0.0  |
| 19-50- 78 | 20.95  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 186.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.75 | 10.31 | 0.0  |
| 19-50- 79 | 18.36  | 0        | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 165.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.75 | 10.21 | 0.0  |

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| VERS.NR.  | RE*E4 | RE1*E4 | F      | F1     | STB    | STPR   | F1/F2 | TW/TB | TW/T1 | PR   | H/Y   | BETA | H+    | H+W   | H+R   | H+RW  | RH+  | RH+01 | RH+R |
|-----------|-------|--------|--------|--------|--------|--------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|------|-------|------|
| 19-50- 1  | 21.74 | 43.52  | .00862 | .01951 | .00465 | .00398 | 4.28  | 1.34  | 1.31  | .704 | .0282 | .793 | 192.1 | 120.8 | 199.7 | 125.6 | 3.25 | 2.84  | 2.87 |
| 19-50- 2  | 17.24 | 33.55  | .00863 | .01900 | .00481 | .00413 | 4.01  | 1.34  | 1.31  | .704 | .0288 | .785 | 150.0 | 93.7  | 156.1 | 97.5  | 3.44 | 3.02  | 3.04 |
| 19-50- 3  | 13.67 | 25.93  | .00879 | .01898 | .00497 | .00427 | 3.83  | 1.36  | 1.32  | .705 | .0292 | .780 | 118.1 | 72.7  | 123.0 | 75.7  | 3.48 | 3.06  | 3.08 |
| 19-50- 4  | 11.27 | 20.28  | .00893 | .01873 | .00527 | .00455 | 3.66  | 1.38  | 1.31  | .707 | .0298 | .771 | 94.5  | 59.1  | 98.2  | 61.5  | 3.61 | 3.17  | 3.21 |
| 19-50- 5  | 9.00  | 15.81  | .00906 | .01860 | .00546 | .00469 | 3.49  | 1.37  | 1.31  | .706 | .0303 | .765 | 75.0  | 47.2  | 78.0  | 49.1  | 3.69 | 3.24  | 3.29 |
| 19-50- 6  | 7.55  | 13.12  | .00929 | .01889 | .00564 | .00482 | 3.41  | 1.37  | 1.30  | .706 | .0305 | .762 | 63.3  | 40.2  | 65.7  | 41.7  | 3.63 | 3.18  | 3.25 |
| 19-50- 7  | 6.12  | 10.38  | .00944 | .01875 | .00580 | .00495 | 3.25  | 1.37  | 1.30  | .706 | .0310 | .756 | 51.0  | 32.5  | 53.0  | 33.8  | 3.71 | 3.26  | 3.33 |
| 19-50- 8  | 4.68  | 7.67   | .00962 | .01850 | .00600 | .00509 | 3.04  | 1.36  | 1.29  | .705 | .0317 | .747 | 38.6  | 25.0  | 40.0  | 25.9  | 3.85 | 3.38  | 3.47 |
| 19-50- 9  | 20.95 | 35.65  | .00836 | .01778 | .00438 | .00431 | 3.97  | 1.92  | 1.74  | .702 | .0296 | .775 | 160.6 | 62.7  | 174.1 | 68.0  | 3.87 | 3.43  | 3.05 |
| 19-50- 10 | 16.98 | 27.76  | .00840 | .01734 | .00462 | .00454 | 3.73  | 1.92  | 1.72  | .702 | .0302 | .766 | 127.1 | 50.7  | 137.5 | 54.8  | 4.06 | 3.62  | 3.25 |
| 19-50- 11 | 13.43 | 22.71  | .00840 | .01699 | .00472 | .00467 | 3.49  | 1.95  | 1.80  | .703 | .0305 | .762 | 104.1 | 38.4  | 113.4 | 41.8  | 4.19 | 3.75  | 3.31 |
| 19-50- 12 | 11.07 | 18.00  | .00844 | .01661 | .00486 | .00482 | 3.29  | 1.97  | 1.81  | .704 | .0312 | .754 | 83.8  | 30.7  | 91.4  | 33.4  | 4.37 | 3.92  | 3.48 |
| 19-50- 13 | 8.62  | 11.90  | .00836 | .01513 | .00496 | .00490 | 2.90  | 1.96  | 1.69  | .704 | .0332 | .731 | 57.7  | 23.7  | 62.3  | 25.5  | 5.07 | 4.59  | 4.23 |
| 19-50- 14 | 29.88 | 56.78  | .00813 | .01816 | .00423 | .00408 | 4.27  | 1.83  | 1.73  | .699 | .0286 | .790 | 245.8 | 96.7  | 266.3 | 104.7 | 3.66 | 3.24  | 2.86 |
| 19-50- 15 | 22.59 | 39.28  | .00827 | .01769 | .00446 | .00427 | 4.00  | 1.82  | 1.66  | .698 | .0294 | .777 | 175.1 | 74.3  | 188.5 | 80.0  | 3.88 | 3.44  | 3.12 |
| 19-50- 16 | 3.42  | 3.92   | .00881 | .01338 | .00537 | .00512 | 2.13  | 1.89  | 1.58  | .701 | .0375 | .690 | 20.9  | 9.7   | 22.4  | 10.4  | 6.14 | 5.61  | 5.36 |
| 19-50- 17 | 31.96 | 66.47  | .00850 | .01992 | .00445 | .00379 | 4.67  | 1.30  | 1.28  | .703 | .0275 | .804 | 286.7 | 186.9 | 297.1 | 193.7 | 3.08 | 2.67  | 2.73 |
| 19-50- 18 | 3.60  | 5.91   | .00964 | .01782 | .00618 | .00517 | 2.76  | 1.33  | 1.28  | .704 | .0324 | .738 | 30.1  | 19.6  | 31.2  | 20.3  | 4.11 | 3.64  | 3.74 |
| 19-50- 19 | 6.85  | 9.49   | .00871 | .01571 | .00524 | .00505 | 2.86  | 1.89  | 1.64  | .701 | .0333 | .730 | 47.0  | 20.4  | 50.5  | 21.9  | 4.87 | 4.39  | 4.09 |
| 19-50- 20 | 5.79  | 7.72   | .00874 | .01524 | .00530 | .00510 | 2.69  | 1.89  | 1.63  | .701 | .0341 | .721 | 38.9  | 17.1  | 41.7  | 18.4  | 5.10 | 4.61  | 4.32 |
| 19-50- 21 | 4.60  | 5.81   | .00883 | .01466 | .00537 | .00515 | 2.47  | 1.89  | 1.61  | .701 | .0352 | .710 | 30.0  | 13.5  | 32.1  | 14.4  | 5.42 | 4.92  | 4.64 |
| 19-50- 22 | 30.85 | 49.08  | .00784 | .01632 | .00391 | .00427 | 3.95  | 2.38  | 2.07  | .700 | .0300 | .770 | 216.0 | 64.2  | 240.0 | 71.4  | 4.37 | 3.93  | 3.26 |
| 19-50- 23 | 21.01 | 31.14  | .00793 | .01566 | .00418 | .00453 | 3.56  | 2.36  | 2.01  | .699 | .0312 | .756 | 141.2 | 44.1  | 156.2 | 48.8  | 4.70 | 4.25  | 3.62 |
| 19-50- 24 | 16.20 | 22.82  | .00802 | .01525 | .00439 | .00472 | 3.31  | 2.34  | 1.97  | .698 | .0320 | .745 | 105.8 | 34.3  | 116.7 | 37.8  | 4.93 | 4.46  | 3.86 |
| 19-50- 25 | 12.98 | 19.51  | .00806 | .01516 | .00445 | .00482 | 3.12  | 2.37  | 2.09  | .699 | .0321 | .745 | 90.1  | 26.3  | 100.4 | 29.2  | 4.98 | 4.52  | 3.83 |
| 19-50- 26 | 10.24 | 12.75  | .00810 | .01403 | .00458 | .00494 | 2.81  | 2.37  | 1.93  | .699 | .0341 | .722 | 61.8  | 20.7  | 68.0  | 22.7  | 5.60 | 5.10  | 4.51 |
| 19-50- 27 | 8.39  | 9.77   | .00811 | .01334 | .00466 | .00503 | 2.57  | 2.39  | 1.91  | .699 | .0354 | .709 | 48.5  | 16.6  | 53.2  | 18.2  | 6.00 | 5.50  | 4.91 |
| 19-50- 28 | 6.69  | 7.27   | .00818 | .01271 | .00474 | .00510 | 2.35  | 2.38  | 1.87  | .699 | .0368 | .696 | 37.1  | 13.1  | 40.6  | 14.3  | 6.41 | 5.89  | 5.32 |
| 19-50- 29 | 5.69  | 5.75   | .00814 | .01189 | .00474 | .00509 | 2.13  | 2.39  | 1.84  | .700 | .0384 | .683 | 29.9  | 10.8  | 32.7  | 11.8  | 6.95 | 6.42  | 5.85 |
| 19-50- 30 | 4.48  | 4.07   | .00814 | .01085 | .00477 | .00510 | 1.86  | 2.38  | 1.80  | .700 | .0409 | .664 | 22.0  | 8.3   | 23.9  | 9.1   | 7.74 | 7.18  | 6.63 |
| 19-50- 31 | 3.45  | 2.77   | .00819 | .00974 | .00472 | .00504 | 1.59  | 2.40  | 1.75  | .700 | .0442 | .642 | 15.6  | 6.2   | 16.9  | 6.7   | 8.71 | 8.11  | 7.58 |
| 19-50- 32 | 4.01  | 6.53   | .00978 | .01859 | .00621 | .00521 | 2.95  | 1.33  | 1.26  | .704 | .0320 | .743 | 33.3  | 22.3  | 34.4  | 23.1  | 3.85 | 3.39  | 3.51 |
| 19-50- 33 | 3.20  | 5.00   | .00986 | .01798 | .00632 | .00530 | 2.73  | 1.34  | 1.26  | .705 | .0329 | .733 | 26.0  | 17.4  | 26.9  | 18.0  | 4.10 | 3.62  | 3.75 |
| 19-50- 34 | 2.61  | 3.94   | .00995 | .01747 | .00627 | .00524 | 2.54  | 1.34  | 1.26  | .705 | .0337 | .724 | 20.9  | 14.0  | 21.6  | 14.5  | 4.32 | 3.84  | 3.97 |
| 19-50- 35 | 2.10  | 3.14   | .00989 | .01655 | .00623 | .00518 | 2.29  | 1.34  | 1.28  | .705 | .0347 | .714 | 16.9  | 10.9  | 17.5  | 11.3  | 4.70 | 4.20  | 4.31 |
| 19-50- 36 | 1.75  | 2.38   | .00995 | .01568 | .00620 | .00515 | 2.10  | 1.34  | 1.25  | .705 | .0363 | .699 | 13.2  | 9.0   | 13.6  | 9.3   | 5.11 | 4.60  | 4.75 |
| 19-50- 37 | 1.43  | 1.98   | .01019 | .01569 | .00615 | .00508 | 1.99  | 1.35  | 1.28  | .705 | .0367 | .696 | 11.1  | 7.2   | 11.5  | 7.5   | 5.14 | 4.62  | 4.75 |
| 19-50- 38 | 1.16  | 1.44   | .01016 | .01438 | .00602 | .00496 | 1.76  | 1.35  | 1.25  | .705 | .0390 | .676 | 8.4   | 5.7   | 8.7   | 5.9   | 5.82 | 5.27  | 5.44 |
| 19-50- 39 | 0.96  | 1.12   | .01042 | .01406 | .00601 | .00495 | 1.64  | 1.37  | 1.25  | .706 | .0403 | .666 | 6.7   | 4.6   | 7.0   | 4.7   | 6.06 | 5.50  | 5.68 |
| 19-50- 40 | 0.74  | 0.81   | .01060 | .01323 | .00576 | .00472 | 1.45  | 1.37  | 1.25  | .706 | .0425 | .651 | 5.1   | 3.4   | 5.2   | 3.5   | 6.57 | 5.99  | 6.17 |
| 19-50- 41 | 0.64  | 0.71   | .01110 | .01397 | .00576 | .00470 | 1.47  | 1.37  | 1.25  | .706 | .0423 | .652 | 4.5   | 3.1   | 4.7   | 3.2   | 6.25 | 5.67  | 5.86 |
| 19-50- 42 | 0.52  | 0.54   | .01134 | .01327 | .00570 | .00462 | 1.32  | 1.37  | 1.24  | .706 | .0449 | .637 | 3.5   | 2.4   | 3.7   | 2.5   | 6.84 | 6.24  | 6.46 |
| 19-50- 43 | 0.43  | 0.50   | .01282 | .01670 | .00587 | .00473 | 1.56  | 1.37  | 1.26  | .706 | .0411 | .661 | 3.3   | 2.2   | 3.4   | 2.3   | 5.14 | 4.57  | 4.78 |
| 19-50- 44 | 3.98  | 4.77   | .00879 | .01397 | .00532 | .00512 | 2.29  | 1.91  | 1.61  | .702 | .0364 | .699 | 25.0  | 11.2  | 26.8  | 12.0  | 5.80 | 5.29  | 5.01 |
| 19-50- 45 | 3.13  | 3.46   | .00886 | .01314 | .00531 | .00510 | 2.06  | 1.92  | 1.59  | .703 | .0381 | .684 | 18.8  | 8.5   | 20.1  | 9.1   | 6.30 | 5.77  | 5.50 |
| 19-50- 46 | 2.57  | 2.67   | .00894 | .01251 | .00530 | .00507 | 1.88  | 1.92  | 1.58  | .703 | .0397 | .672 | 14.9  | 6.9   | 15.9  | 7.3   | 6.72 | 6.17  | 5.91 |
| 19-50- 47 | 2.06  | 2.01   | .00908 | .01191 | .00529 | .00504 | 1.71  | 1.92  | 1.56  | .703 | .0415 | .659 | 11.5  | 5.5   | 12.3  | 5.8   | 7.15 | 6.58  | 6.34 |
| 19-50- 48 | 1.73  | 1.57   | .00916 | .01121 | .00524 | .00499 | 1.55  | 1.94  | 1.55  | .703 | .0435 | .645 | 9.3   | 4.4   | 9.9   | 4.7   | 7.68 | 7.09  | 6.86 |
| 19-50- 49 | 1.41  | 1.22   | .00950 | .01115 | .00523 | .00499 | 1.47  | 1.96  | 1.55  | .704 | .0447 | .638 | 7.5   | 3.6   | 8.0   | 3.8   | 7.80 | 7.20  | 6.98 |
| 19-50- 50 | 1.14  | 0.96   | .00998 | .01132 | .00522 | .00495 | 1.41  | 1.96  | 1.54  | .704 | .0454 | .633 | 6.1   | 2.9   | 6.5   | 3.1   | 7.74 | 7.13  | 6.93 |

| VERS.NR. | RE*E4 | Q<Kw/M2> | ST1+/<br>ST1*/ | STT+/<br>STT*/ | ST1F/<br>ST1F/ | H+   | G+   | GPR01 | G*   | G*R  | GT   | GTR  | GTR1 | GTF  | GTR  | X    | YR   | YG   |       |      |
|----------|-------|----------|----------------|----------------|----------------|------|------|-------|------|------|------|------|------|------|------|------|------|------|-------|------|
| 19-50- 1 | 21.74 | 64.2     | 1.15           | 1.08           | 1.19           | 1.12 | 1.14 | 192.1 | 11.7 | 11.4 | 12.8 | 17.3 | 11.0 | 15.5 | 12.6 | 11.7 | 16.1 | 2.75 | 10.12 | 18.6 |
| 19-50- 2 | 17.24 | 53.4     | 1.16           | 1.08           | 1.20           | 1.12 | 1.16 | 150.0 | 10.7 | 10.4 | 11.9 | 16.1 | 10.0 | 14.4 | 11.6 | 10.7 | 14.9 | 2.73 | 10.26 | 17.5 |
| 19-50- 3 | 13.62 | 44.8     | 1.17           | 1.09           | 1.21           | 1.13 | 1.17 | 118.1 | 10.1 | 9.8  | 11.3 | 15.4 | 9.4  | 13.6 | 11.0 | 10.0 | 14.1 | 2.71 | 10.27 | 16.8 |
| 19-50- 4 | 11.27 | 39.7     | 1.16           | 1.08           | 1.22           | 1.13 | 1.18 | 94.5  | 9.1  | 8.7  | 10.3 | 14.0 | 8.4  | 12.3 | 9.9  | 8.8  | 12.5 | 2.69 | 10.33 | 15.5 |
| 19-50- 5 | 9.00  | 32.9     | 1.17           | 1.09           | 1.23           | 1.13 | 1.20 | 75.0  | 8.4  | 8.1  | 9.6  | 13.3 | 7.7  | 11.6 | 9.3  | 8.1  | 11.7 | 2.67 | 10.37 | 14.8 |
| 19-50- 6 | 7.55  | 28.2     | 1.18           | 1.09           | 1.24           | 1.14 | 1.20 | 63.3  | 8.0  | 7.7  | 9.2  | 12.8 | 7.3  | 11.1 | 8.9  | 7.7  | 11.2 | 2.66 | 10.29 | 14.3 |
| 19-50- 7 | 6.12  | 23.5     | 1.19           | 1.09           | 1.25           | 1.14 | 1.22 | 51.0  | 7.5  | 7.2  | 8.7  | 12.3 | 6.8  | 10.5 | 8.4  | 7.1  | 10.6 | 2.65 | 10.33 | 13.7 |
| 19-50- 8 | 4.68  | 18.5     | 1.20           | 1.10           | 1.27           | 1.15 | 1.23 | 38.6  | 6.8  | 6.6  | 8.1  | 11.6 | 6.1  | 9.8  | 7.8  | 6.4  | 9.9  | 2.62 | 10.40 | 13.0 |
| 19-50- 9 | 20.95 | 168.9    | 1.11           | 1.04           | 1.15           | 1.08 | 1.16 | 160.6 | 12.7 | 10.3 | 13.9 | 16.1 | 11.9 | 15.3 | 12.3 | 11.9 | 13.9 | 2.70 | 10.61 | 18.6 |
| 19-50-10 | 16.98 | 142.5    | 1.12           | 1.04           | 1.17           | 1.08 | 1.17 | 127.1 | 11.3 | 9.2  | 12.6 | 14.7 | 10.6 | 13.9 | 11.1 | 10.5 | 12.4 | 2.67 | 10.74 | 17.2 |
| 19-50-11 | 13.48 | 117.1    | 1.15           | 1.06           | 1.20           | 1.10 | 1.18 | 104.1 | 10.4 | 8.4  | 11.8 | 13.8 | 9.7  | 12.8 | 10.2 | 9.9  | 11.8 | 2.66 | 10.85 | 16.6 |
| 19-50-12 | 11.07 | 98.7     | 1.15           | 1.06           | 1.21           | 1.11 | 1.19 | 83.8  | 9.7  | 7.8  | 11.1 | 12.9 | 8.9  | 12.0 | 9.5  | 9.1  | 10.9 | 2.64 | 10.97 | 15.7 |
| 19-50-13 | 8.62  | 77.9     | 1.15           | 1.05           | 1.20           | 1.09 | 1.23 | 57.7  | 8.9  | 7.2  | 10.3 | 12.0 | 8.2  | 11.1 | 8.7  | 7.8  | 9.4  | 2.57 | 11.50 | 14.2 |
| 19-50-14 | 29.88 | 224.7    | 1.13           | 1.06           | 1.17           | 1.10 | 1.14 | 245.8 | 13.2 | 11.0 | 14.4 | 17.2 | 12.4 | 16.1 | 13.1 | 12.9 | 15.6 | 2.74 | 10.49 | 19.7 |
| 19-50-15 | 22.59 | 179.4    | 1.12           | 1.05           | 1.16           | 1.09 | 1.16 | 175.1 | 12.1 | 10.2 | 13.4 | 16.0 | 11.4 | 15.0 | 12.1 | 11.5 | 14.0 | 2.70 | 10.63 | 18.2 |
| 19-50-16 | 3.42  | 33.2     | 1.20           | 1.06           | 1.27           | 1.11 | 1.32 | 20.9  | 6.7  | 5.5  | 8.4  | 10.3 | 5.9  | 8.8  | 6.8  | 5.5  | 7.3  | 2.44 | 12.23 | 11.5 |
| 19-50-17 | 31.96 | 84.1     | 1.14           | 1.07           | 1.18           | 1.11 | 1.13 | 286.7 | 12.8 | 12.7 | 13.9 | 18.7 | 12.2 | 17.0 | 13.9 | 12.9 | 17.6 | 2.78 | 10.02 | 19.8 |
| 19-50-18 | 3.60  | 13.8     | 1.24           | 1.12           | 1.31           | 1.17 | 1.25 | 30.1  | 5.9  | 5.8  | 7.2  | 10.8 | 5.3  | 8.8  | 7.0  | 5.7  | 9.3  | 2.60 | 10.60 | 12.2 |
| 19-50-19 | 6.85  | 64.8     | 1.16           | 1.05           | 1.22           | 1.10 | 1.24 | 47.0  | 8.2  | 6.8  | 9.7  | 11.6 | 7.5  | 10.5 | 8.3  | 7.2  | 9.1  | 2.57 | 11.28 | 13.6 |
| 19-50-20 | 5.79  | 55.5     | 1.17           | 1.05           | 1.23           | 1.11 | 1.26 | 38.9  | 7.8  | 6.4  | 9.3  | 11.3 | 7.1  | 10.1 | 7.9  | 6.7  | 8.6  | 2.54 | 11.45 | 13.1 |
| 19-50-21 | 4.60  | 44.3     | 1.18           | 1.06           | 1.25           | 1.11 | 1.28 | 30.0  | 7.3  | 6.0  | 8.9  | 10.8 | 6.6  | 9.6  | 7.4  | 6.2  | 8.0  | 2.50 | 11.68 | 12.5 |
| 19-50-22 | 30.85 | 353.5    | 1.08           | 1.01           | 1.12           | 1.05 | 1.15 | 216.0 | 14.7 | 10.8 | 16.1 | 16.4 | 13.9 | 16.4 | 13.2 | 13.4 | 13.7 | 2.68 | 11.07 | 20.1 |
| 19-50-23 | 21.01 | 260.3    | 1.09           | 1.01           | 1.14           | 1.05 | 1.17 | 141.2 | 12.8 | 9.4  | 14.3 | 14.8 | 12.1 | 14.6 | 11.7 | 11.5 | 11.9 | 2.64 | 11.30 | 18.1 |
| 19-50-24 | 16.20 | 208.7    | 1.10           | 1.01           | 1.15           | 1.05 | 1.19 | 105.8 | 11.6 | 8.6  | 13.1 | 13.6 | 10.8 | 13.4 | 10.6 | 10.2 | 10.7 | 2.61 | 11.45 | 16.7 |
| 19-50-25 | 12.98 | 171.2    | 1.13           | 1.03           | 1.18           | 1.08 | 1.19 | 90.1  | 10.8 | 7.9  | 12.4 | 12.9 | 10.0 | 12.6 | 10.0 | 9.9  | 10.5 | 2.61 | 11.49 | 16.4 |
| 19-50-26 | 10.24 | 138.9    | 1.11           | 1.01           | 1.17           | 1.05 | 1.23 | 61.8  | 10.1 | 7.4  | 11.8 | 12.2 | 9.4  | 11.9 | 9.3  | 8.5  | 8.9  | 2.54 | 11.94 | 14.9 |
| 19-50-27 | 8.39  | 116.4    | 1.12           | 1.01           | 1.18           | 1.05 | 1.25 | 48.5  | 9.4  | 6.9  | 11.2 | 11.5 | 8.7  | 11.2 | 8.7  | 7.8  | 8.1  | 2.50 | 12.24 | 14.0 |
| 19-50-28 | 6.69  | 93.9     | 1.13           | 1.00           | 1.19           | 1.05 | 1.27 | 37.1  | 8.8  | 6.5  | 10.6 | 11.0 | 8.1  | 10.5 | 8.1  | 7.1  | 7.4  | 2.45 | 12.54 | 13.2 |
| 19-50-29 | 5.69  | 80.1     | 1.14           | 1.00           | 1.20           | 1.05 | 1.30 | 29.9  | 8.3  | 6.1  | 10.2 | 10.5 | 7.5  | 10.0 | 7.6  | 6.5  | 6.8  | 2.41 | 12.97 | 12.5 |
| 19-50-30 | 4.48  | 63.3     | 1.16           | 1.00           | 1.22           | 1.05 | 1.34 | 22.0  | 7.6  | 5.5  | 9.6  | 9.9  | 6.8  | 9.2  | 6.9  | 5.6  | 5.9  | 2.34 | 13.58 | 11.5 |
| 19-50-31 | 3.45  | 48.5     | 1.17           | 1.00           | 1.25           | 1.05 | 1.39 | 15.6  | 7.0  | 5.1  | 9.3  | 9.5  | 6.3  | 8.6  | 6.4  | 5.0  | 5.2  | 2.25 | 14.33 | 10.6 |
| 19-50-32 | 4.01  | 15.3     | 1.21           | 1.11           | 1.28           | 1.16 | 1.25 | 33.3  | 6.4  | 6.2  | 7.5  | 11.1 | 5.7  | 9.3  | 7.4  | 5.9  | 9.4  | 2.61 | 10.37 | 12.5 |
| 19-50-33 | 3.20  | 12.7     | 1.23           | 1.11           | 1.30           | 1.17 | 1.27 | 26.0  | 5.9  | 5.7  | 7.1  | 10.6 | 5.2  | 8.7  | 6.8  | 5.4  | 8.8  | 2.58 | 10.55 | 11.8 |
| 19-50-34 | 2.61  | 10.4     | 1.23           | 1.11           | 1.31           | 1.17 | 1.28 | 20.9  | 5.8  | 5.6  | 7.0  | 10.6 | 5.1  | 8.6  | 6.8  | 5.3  | 8.7  | 2.55 | 10.70 | 11.6 |
| 19-50-35 | 2.10  | 8.3      | 1.26           | 1.13           | 1.34           | 1.19 | 1.29 | 16.9  | 5.4  | 5.2  | 6.7  | 10.3 | 4.7  | 8.1  | 6.4  | 5.0  | 8.5  | 2.52 | 10.99 | 11.3 |
| 19-50-36 | 1.75  | 6.9      | 1.27           | 1.12           | 1.35           | 1.19 | 1.32 | 13.2  | 5.2  | 5.0  | 6.6  | 10.1 | 4.5  | 7.9  | 6.1  | 4.6  | 8.0  | 2.47 | 11.29 | 10.8 |
| 19-50-37 | 1.43  | 5.6      | 1.28           | 1.13           | 1.37           | 1.19 | 1.32 | 11.1  | 5.1  | 5.0  | 6.6  | 10.3 | 4.5  | 7.9  | 6.1  | 4.8  | 8.4  | 2.46 | 11.29 | 10.9 |
| 19-50-38 | 1.16  | 4.5      | 1.29           | 1.13           | 1.37           | 1.20 | 1.36 | 8.4   | 5.0  | 4.9  | 6.5  | 10.2 | 4.3  | 7.7  | 5.9  | 4.4  | 7.9  | 2.39 | 11.79 | 10.4 |
| 19-50-39 | 0.96  | 3.8      | 1.31           | 1.13           | 1.40           | 1.20 | 1.38 | 6.7   | 4.9  | 4.7  | 6.5  | 10.1 | 4.2  | 7.5  | 5.7  | 4.2  | 7.8  | 2.36 | 11.92 | 10.1 |
| 19-50-40 | 0.74  | 2.9      | 1.31           | 1.13           | 1.40           | 1.20 | 1.39 | 5.1   | 5.1  | 4.9  | 6.8  | 10.6 | 4.5  | 7.8  | 5.9  | 4.4  | 8.1  | 2.30 | 12.29 | 10.1 |
| 19-50-41 | 0.64  | 2.5      | 1.30           | 1.13           | 1.38           | 1.19 | 1.38 | 4.5   | 5.4  | 5.2  | 7.2  | 11.1 | 4.8  | 8.3  | 6.3  | 4.8  | 8.6  | 2.30 | 11.97 | 10.5 |
| 19-50-42 | 0.52  | 2.0      | 1.34           | 1.14           | 1.43           | 1.20 | 1.41 | 3.5   | 5.2  | 5.0  | 7.1  | 11.0 | 4.6  | 8.0  | 5.9  | 4.5  | 8.4  | 2.24 | 12.28 | 10.1 |
| 19-50-43 | 0.43  | 1.7      | 1.28           | 1.11           | 1.35           | 1.16 | 1.33 | 3.3   | 6.4  | 6.1  | 8.2  | 12.8 | 5.7  | 10.0 | 7.5  | 5.9  | 10.3 | 2.33 | 10.94 | 11.7 |
| 19-50-44 | 3.98  | 38.3     | 1.19           | 1.06           | 1.25           | 1.11 | 1.30 | 25.0  | 7.2  | 5.9  | 8.8  | 10.6 | 6.4  | 9.3  | 7.2  | 5.9  | 7.7  | 2.47 | 11.96 | 12.1 |
| 19-50-45 | 3.13  | 30.2     | 1.20           | 1.06           | 1.27           | 1.11 | 1.33 | 18.8  | 6.8  | 5.5  | 8.5  | 10.3 | 6.0  | 8.9  | 6.8  | 5.5  | 7.2  | 2.42 | 12.34 | 11.5 |
| 19-50-46 | 2.57  | 24.7     | 1.21           | 1.06           | 1.29           | 1.12 | 1.35 | 14.9  | 6.5  | 5.3  | 8.3  | 10.1 | 5.8  | 8.6  | 6.5  | 5.1  | 6.8  | 2.37 | 12.64 | 11.0 |
| 19-50-47 | 2.06  | 19.8     | 1.23           | 1.06           | 1.30           | 1.12 | 1.38 | 11.5  | 6.2  | 5.0  | 8.1  | 9.9  | 5.5  | 8.2  | 6.2  | 4.8  | 6.5  | 2.32 | 12.96 | 10.6 |
| 19-50-48 | 1.73  | 16.8     | 1.24           | 1.06           | 1.32           | 1.12 | 1.41 | 9.3   | 5.9  | 4.8  | 7.9  | 9.7  | 5.2  | 7.9  | 5.9  | 4.5  | 6.1  | 2.27 | 13.36 | 10.2 |
| 19-50-49 | 1.41  | 13.8     | 1.24           | 1.05           | 1.32           | 1.11 | 1.42 | 7.5   | 5.9  | 4.8  | 8.0  | 9.8  | 5.2  | 8.0  | 5.9  | 4.5  | 6.1  | 2.24 | 13.39 | 10.1 |
| 19-50-50 | 1.14  | 11.1     | 1.24           | 1.04           | 1.32           | 1.10 | 1.41 | 6.1   | 6.1  | 4.9  | 8.4  | 10.3 | 5.4  | 8.2  | 6.1  | 4.7  | 6.4  | 2.22 | 13.29 | 10.2 |

AIR

| VERS.NR.  | KE*E4 | RE1*E4 | F      | F1     | STH    | STPR   | F1/F2 | TW/TB | TW/T1 | PR   | H/Y   | RETA | H+    | H+W   | H+R   | H+RW  | RH+   | RH+01 | RH+R |
|-----------|-------|--------|--------|--------|--------|--------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|------|
| 19-50- 51 | 0.93  | 0.78   | .01053 | .01170 | .00530 | .00500 | 1.38  | 1.95  | 1.53  | .704 | .0459 | .631 | 5.0   | 2.5   | 5.3   | 2.6   | 7.55  | 6.94  | 6.77 |
| 19-50- 52 | 0.75  | 0.55   | .01072 | .01065 | .00543 | .00509 | 1.19  | 1.95  | 1.49  | .703 | .0496 | .611 | 3.8   | 1.9   | 4.0   | 2.0   | 8.42  | 7.78  | 7.65 |
| 19-50- 53 | 0.62  | 0.53   | .01211 | .01342 | .00555 | .00519 | 1.40  | 1.95  | 1.51  | .703 | .0455 | .634 | 3.6   | 1.8   | 3.8   | 1.9   | 6.71  | 6.11  | 6.00 |
| 19-50- 54 | 0.51  | 0.48   | .01379 | .01682 | .00576 | .00534 | 1.63  | 1.95  | 1.54  | .703 | .0418 | .656 | 3.3   | 1.6   | 3.6   | 1.7   | 5.12  | 4.55  | 4.46 |
| 19-50- 55 | 3.94  | 3.37   | .00818 | .01037 | .00471 | .00506 | 1.73  | 2.42  | 1.80  | .701 | .0424 | .653 | 18.6  | 7.0   | 20.2  | 7.7   | 8.15  | 7.57  | 7.02 |
| 19-50- 56 | 3.07  | 2.39   | .00837 | .00969 | .00467 | .00501 | 1.54  | 2.42  | 1.76  | .701 | .0449 | .637 | 13.7  | 5.4   | 14.9  | 5.8   | 8.78  | 8.18  | 7.65 |
| 19-50- 57 | 2.50  | 1.79   | .00857 | .00914 | .00466 | .00499 | 1.39  | 2.43  | 1.73  | .701 | .0473 | .624 | 10.7  | 4.3   | 11.6  | 4.7   | 9.34  | 8.72  | 8.21 |
| 19-50- 58 | 2.01  | 1.28   | .00475 | .00834 | .00464 | .00495 | 1.20  | 2.44  | 1.69  | .701 | .0511 | .605 | 8.0   | 3.4   | 8.6   | 3.6   | 10.26 | 9.61  | 9.13 |
| 19-50- 59 | 1.68  | 1.05   | .00917 | .00847 | .00467 | .00496 | 1.17  | 2.43  | 1.67  | .701 | .0519 | .602 | 6.7   | 2.9   | 7.3   | 3.1   | 10.22 | 9.56  | 9.12 |
| 19-50- 60 | 1.36  | 0.79   | .00957 | .00816 | .00461 | .00489 | 1.07  | 2.45  | 1.65  | .701 | .0549 | .590 | 5.3   | 2.3   | 5.7   | 2.5   | 10.74 | 10.06 | 9.64 |
| 19-50- 61 | 1.10  | 0.67   | .01033 | .00882 | .00468 | .00492 | 1.09  | 2.43  | 1.64  | .701 | .0536 | .595 | 4.5   | 2.0   | 4.8   | 2.1   | 10.05 | 9.38  | 9.00 |
| 19-50- 62 | 22.44 | 47.62  | .00888 | .02069 | .0     | .0     | 4.51  | 1.00  | 1.00  | .705 | .0276 | .802 | 209.9 | 209.9 | 209.9 | 209.9 | 2.89  | 2.49  | 2.89 |
| 19-50- 63 | 17.81 | 37.16  | .00900 | .02058 | .0     | .0     | 4.30  | 1.00  | 1.00  | .706 | .0279 | .797 | 166.2 | 166.2 | 166.2 | 166.2 | 2.95  | 2.54  | 2.95 |
| 19-50- 64 | 14.34 | 29.48  | .00915 | .02059 | .0     | .0     | 4.13  | 1.00  | 1.00  | .707 | .0283 | .792 | 133.9 | 133.9 | 133.9 | 133.9 | 2.98  | 2.57  | 2.98 |
| 19-50- 65 | 11.49 | 23.26  | .00931 | .02062 | .0     | .0     | 3.97  | 1.00  | 1.00  | .708 | .0286 | .787 | 107.4 | 107.4 | 107.4 | 107.4 | 3.01  | 2.59  | 3.01 |
| 19-50- 66 | 9.35  | 18.58  | .00942 | .02043 | .0     | .0     | 3.78  | 1.00  | 1.00  | .707 | .0290 | .782 | 87.0  | 87.0  | 87.0  | 87.0  | 3.09  | 2.67  | 3.09 |
| 19-50- 67 | 7.44  | 14.59  | .00966 | .02065 | .0     | .0     | 3.65  | 1.00  | 1.00  | .707 | .0293 | .777 | 69.7  | 69.7  | 69.7  | 69.7  | 3.07  | 2.64  | 3.07 |
| 19-50- 68 | 6.23  | 12.13  | .00994 | .02107 | .0     | .0     | 3.58  | 1.00  | 1.00  | .707 | .0295 | .775 | 59.0  | 59.0  | 59.0  | 59.0  | 2.99  | 2.56  | 2.99 |
| 19-50- 69 | 4.93  | 9.33   | .00999 | .02051 | .0     | .0     | 3.33  | 1.00  | 1.00  | .707 | .0301 | .766 | 46.1  | 46.1  | 46.1  | 46.1  | 3.18  | 2.74  | 3.18 |
| 19-50- 70 | 31.37 | 68.30  | .00877 | .02101 | .0     | .0     | 4.85  | 1.00  | 1.00  | .702 | .0271 | .811 | 295.4 | 295.4 | 295.4 | 295.4 | 2.77  | 2.37  | 2.77 |
| 19-50- 71 | 3.60  | 6.61   | .01024 | .02026 | .0     | .0     | 3.08  | 1.00  | 1.00  | .704 | .0308 | .757 | 33.5  | 33.5  | 33.5  | 33.5  | 3.31  | 2.85  | 3.31 |
| 19-50- 72 | 4.06  | 7.60   | .01028 | .02087 | .0     | .0     | 3.25  | 1.00  | 1.00  | .705 | .0304 | .763 | 38.3  | 38.3  | 38.3  | 38.3  | 3.12  | 2.68  | 3.12 |
| 19-50- 73 | 3.22  | 5.90   | .01050 | .02078 | .0     | .0     | 3.08  | 1.00  | 1.00  | .705 | .0309 | .756 | 30.4  | 30.4  | 30.4  | 30.4  | 3.19  | 2.74  | 3.19 |
| 19-50- 74 | 2.64  | 4.74   | .01067 | .02059 | .0     | .0     | 2.92  | 1.00  | 1.00  | .705 | .0314 | .750 | 24.8  | 24.8  | 24.8  | 24.8  | 3.28  | 2.82  | 3.28 |
| 19-50- 75 | 2.12  | 3.68   | .01079 | .02008 | .0     | .0     | 2.72  | 1.00  | 1.00  | .706 | .0321 | .741 | 19.7  | 19.7  | 19.7  | 19.7  | 3.47  | 3.00  | 3.47 |
| 19-50- 76 | 1.78  | 3.01   | .01079 | .01933 | .0     | .0     | 2.52  | 1.00  | 1.00  | .706 | .0330 | .732 | 16.3  | 16.3  | 16.3  | 16.3  | 3.73  | 3.25  | 3.73 |
| 19-50- 77 | 1.45  | 2.34   | .01079 | .01836 | .0     | .0     | 2.29  | 1.00  | 1.00  | .706 | .0341 | .720 | 12.9  | 12.9  | 12.9  | 12.9  | 4.08  | 3.59  | 4.08 |
| 19-50- 78 | 1.16  | 1.80   | .01090 | .01764 | .0     | .0     | 2.09  | 1.00  | 1.00  | .706 | .0352 | .708 | 10.2  | 10.2  | 10.2  | 10.2  | 4.39  | 3.88  | 4.39 |
| 19-50- 79 | 0.96  | 1.42   | .01087 | .01655 | .0     | .0     | 1.89  | 1.00  | 1.00  | .707 | .0366 | .695 | 8.2   | 8.2   | 8.2   | 8.2   | 4.84  | 4.32  | 4.84 |
| 19-50- 80 | 0.78  | 1.08   | .01074 | .01501 | .0     | .0     | 1.64  | 1.00  | 1.00  | .707 | .0388 | .677 | 6.4   | 6.4   | 6.4   | 6.4   | 5.58  | 5.03  | 5.58 |
| 19-50- 81 | 0.65  | 0.83   | .01048 | .01313 | .0     | .0     | 1.38  | 1.00  | 1.00  | .707 | .0417 | .655 | 5.0   | 5.0   | 5.0   | 5.0   | 6.58  | 6.01  | 6.58 |
| 19-50- 82 | 0.53  | 0.62   | .01039 | .01158 | .0     | .0     | 1.16  | 1.00  | 1.00  | .707 | .0450 | .634 | 3.9   | 3.9   | 3.9   | 3.9   | 7.56  | 6.95  | 7.56 |
| 19-50- 83 | 0.43  | 0.46   | .01040 | .01029 | .0     | .0     | 0.98  | 1.00  | 1.00  | .707 | .0491 | .613 | 3.0   | 3.0   | 3.0   | 3.0   | 8.67  | 8.03  | 8.67 |

| VERS.NR.  | RE*E4 | Q<KW/M2> | ST1+/<br>ST1*/ | STT+/<br>STT*/ | STIF/<br>STIF/ | H+   | G+   | GPR01 | G*  | G*R | GT   | GTR  | GTR1 | GTF  | GTFR | X   | YR  | YG   |       |      |
|-----------|-------|----------|----------------|----------------|----------------|------|------|-------|-----|-----|------|------|------|------|------|-----|-----|------|-------|------|
| 19-50- 51 | 0.93  | 9.3      | 1.25           | 1.04           | 1.33           | 1.09 | 1.40 | 5.0   | 6.2 | 5.0 | 8.6  | 10.5 | 5.5  | 8.4  | 6.2  | 4.8 | 6.6 | 2.21 | 13.08 | 10.3 |
| 19-50- 52 | 0.75  | 7.7      | 1.30           | 1.04           | 1.39           | 1.10 | 1.48 | 3.8   | 5.1 | 4.1 | 7.7  | 9.6  | 4.4  | 7.1  | 5.1  | 3.7 | 5.5 | 2.13 | 13.70 | 9.1  |
| 19-50- 53 | 0.62  | 6.6      | 1.26           | 1.01           | 1.33           | 1.06 | 1.37 | 3.6   | 6.3 | 5.1 | 9.1  | 11.3 | 5.7  | 8.9  | 6.6  | 5.2 | 7.3 | 2.22 | 12.21 | 10.8 |
| 19-50- 54 | 0.51  | 5.7      | 1.22           | 0.99           | 1.28           | 1.03 | 1.29 | 3.3   | 7.3 | 5.9 | 10.4 | 13.0 | 6.7  | 10.6 | 8.0  | 6.6 | 9.0 | 2.32 | 10.91 | 12.4 |
| 19-50- 55 | 3.94  | 55.0     | 1.16           | 1.00           | 1.23           | 1.05 | 1.36 | 18.6  | 7.6 | 5.5 | 9.7  | 9.8  | 6.8  | 9.2  | 6.9  | 5.5 | 5.7 | 2.30 | 13.89 | 11.2 |
| 19-50- 56 | 3.07  | 42.8     | 1.17           | 0.99           | 1.24           | 1.04 | 1.39 | 13.7  | 7.3 | 5.3 | 9.6  | 9.7  | 6.5  | 8.9  | 6.6  | 5.1 | 5.3 | 2.24 | 14.37 | 10.7 |
| 19-50- 57 | 2.50  | 35.2     | 1.18           | 0.98           | 1.26           | 1.04 | 1.42 | 10.7  | 6.9 | 5.0 | 9.4  | 9.5  | 6.2  | 8.5  | 6.2  | 4.8 | 5.0 | 2.18 | 14.79 | 10.2 |
| 19-50- 58 | 2.01  | 28.6     | 1.20           | 0.98           | 1.28           | 1.03 | 1.47 | 8.0   | 6.4 | 4.6 | 9.1  | 9.2  | 5.7  | 7.9  | 5.7  | 4.2 | 4.4 | 2.09 | 15.48 | 9.5  |
| 19-50- 59 | 1.68  | 24.0     | 1.20           | 0.97           | 1.28           | 1.02 | 1.46 | 6.7   | 6.4 | 4.6 | 9.3  | 9.5  | 5.7  | 8.0  | 5.7  | 4.3 | 4.6 | 2.08 | 15.36 | 9.5  |
| 19-50- 60 | 1.36  | 19.5     | 1.21           | 0.95           | 1.29           | 1.00 | 1.48 | 5.3   | 6.4 | 4.6 | 9.5  | 9.7  | 5.7  | 8.0  | 5.7  | 4.3 | 4.5 | 2.02 | 15.66 | 9.4  |
| 19-50- 61 | 1.10  | 16.2     | 1.20           | 0.93           | 1.28           | 0.98 | 1.42 | 4.5   | 6.7 | 4.9 | 10.1 | 10.4 | 6.0  | 8.5  | 6.1  | 4.9 | 5.2 | 2.05 | 15.06 | 10.0 |
| 19-50- 62 | 22.44 | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 209.9 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 2.78 | 9.83  | 0.0  |
| 19-50- 63 | 17.81 | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 166.2 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 2.76 | 9.86  | 0.0  |
| 19-50- 64 | 14.34 | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 133.9 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 2.75 | 9.85  | 0.0  |
| 19-50- 65 | 11.49 | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 107.4 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 2.74 | 9.85  | 0.0  |
| 19-50- 66 | 9.35  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 87.0  | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 2.72 | 9.89  | 0.0  |
| 19-50- 67 | 7.44  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 69.7  | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 2.71 | 9.84  | 0.0  |
| 19-50- 68 | 6.23  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 59.0  | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 2.70 | 9.74  | 0.0  |
| 19-50- 69 | 4.93  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 46.1  | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 2.68 | 9.88  | 0.0  |
| 19-50- 70 | 31.37 | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 295.4 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 2.80 | 9.76  | 0.0  |
| 19-50- 71 | 3.60  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 33.5  | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 2.65 | 9.93  | 0.0  |
| 19-50- 72 | 4.06  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 38.3  | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 2.67 | 9.79  | 0.0  |
| 19-50- 73 | 3.22  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 30.4  | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 2.65 | 9.81  | 0.0  |
| 19-50- 74 | 2.64  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 24.8  | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 2.63 | 9.86  | 0.0  |
| 19-50- 75 | 2.12  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 19.7  | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 2.61 | 9.98  | 0.0  |
| 19-50- 76 | 1.78  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 16.3  | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 2.58 | 10.17 | 0.0  |
| 19-50- 77 | 1.45  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 12.9  | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 2.54 | 10.44 | 0.0  |
| 19-50- 78 | 1.16  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 10.2  | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 2.50 | 10.65 | 0.0  |
| 19-50- 79 | 0.96  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 8.2   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 2.46 | 10.99 | 0.0  |
| 19-50- 80 | 0.78  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 6.4   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 2.40 | 11.54 | 0.0  |
| 19-50- 81 | 0.65  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 5.0   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 2.32 | 12.34 | 0.0  |
| 19-50- 82 | 0.53  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 3.9   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 2.23 | 13.14 | 0.0  |
| 19-50- 83 | 0.43  | 0.0      | 0.0            | 0.0            | 0.0            | 0.0  | 0.0  | 3.0   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 2.14 | 13.94 | 0.0  |

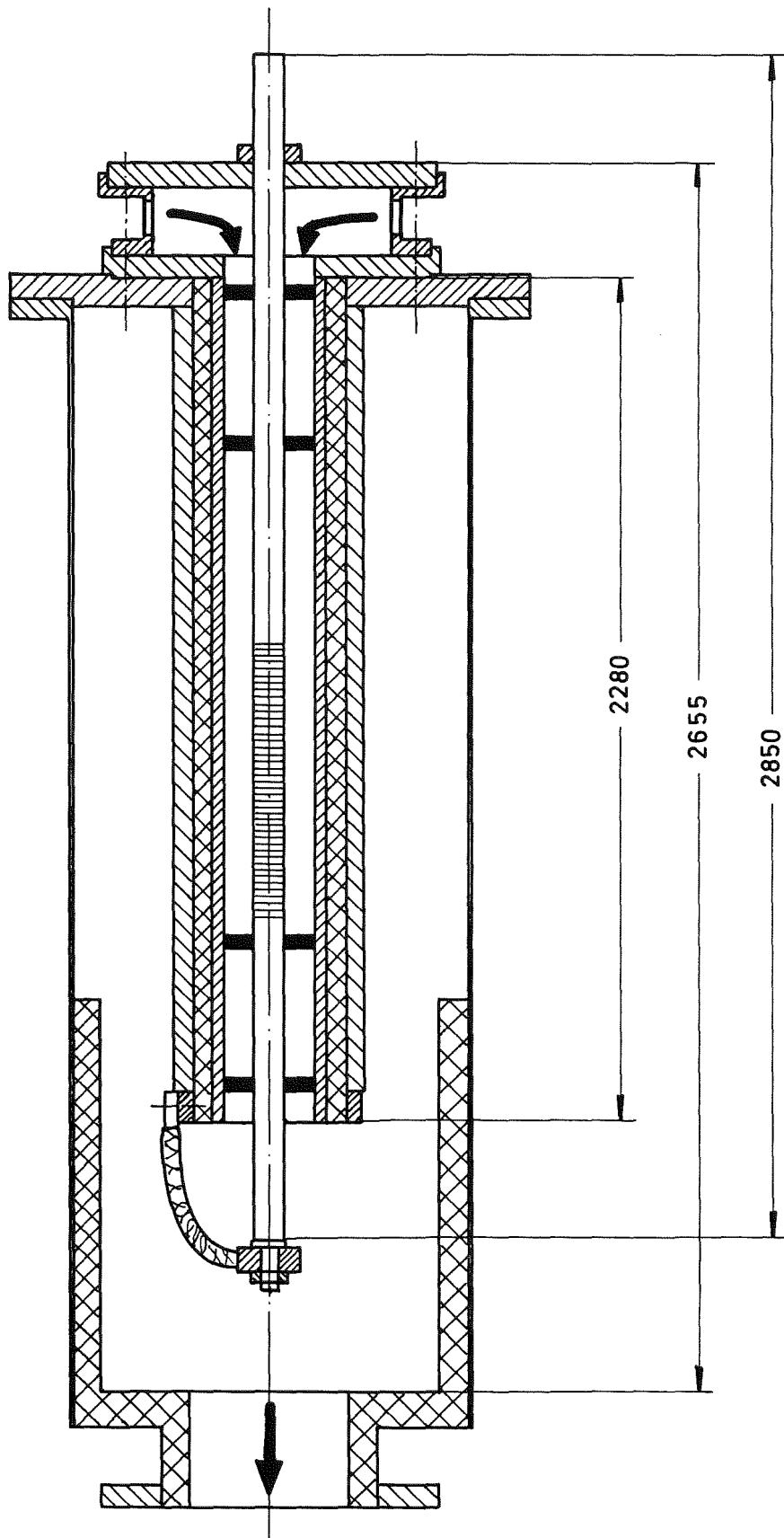


Fig.1: Test section for helium and nitrogen experiments (schematically)

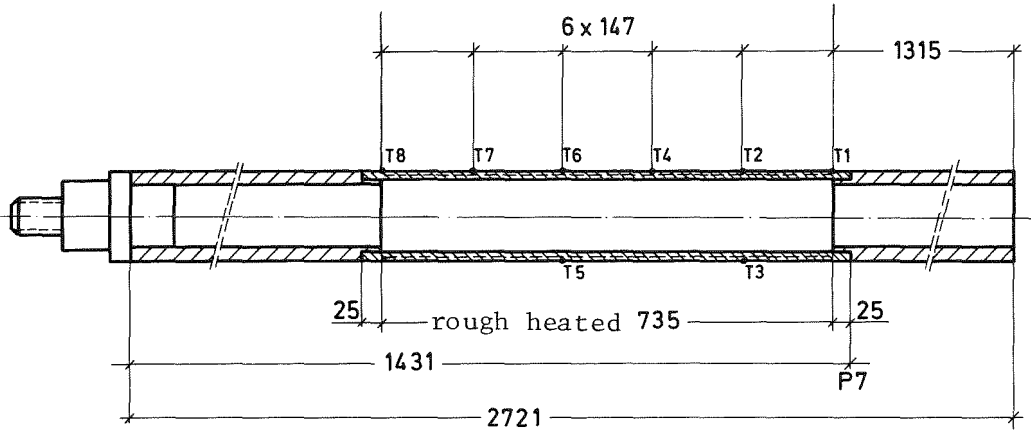


Fig.2: Instrumentation of rod 18 and 20

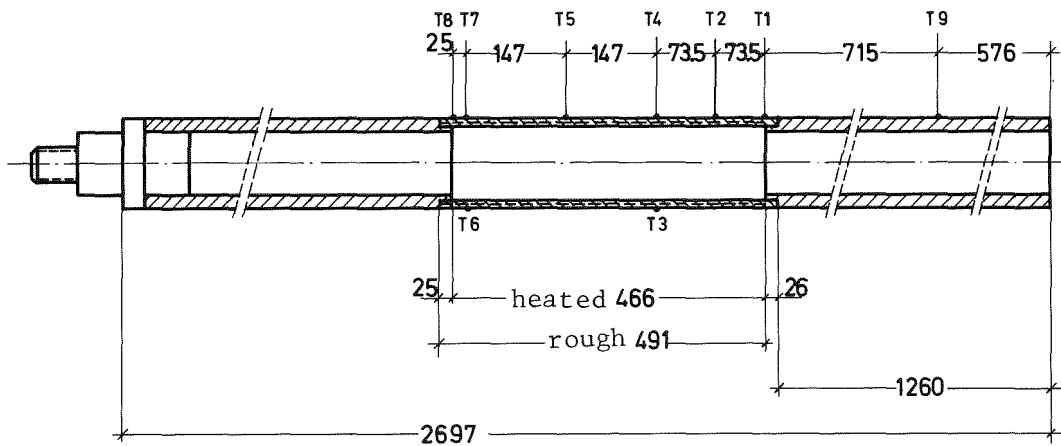


Fig.3: Instrumentation of rod 19

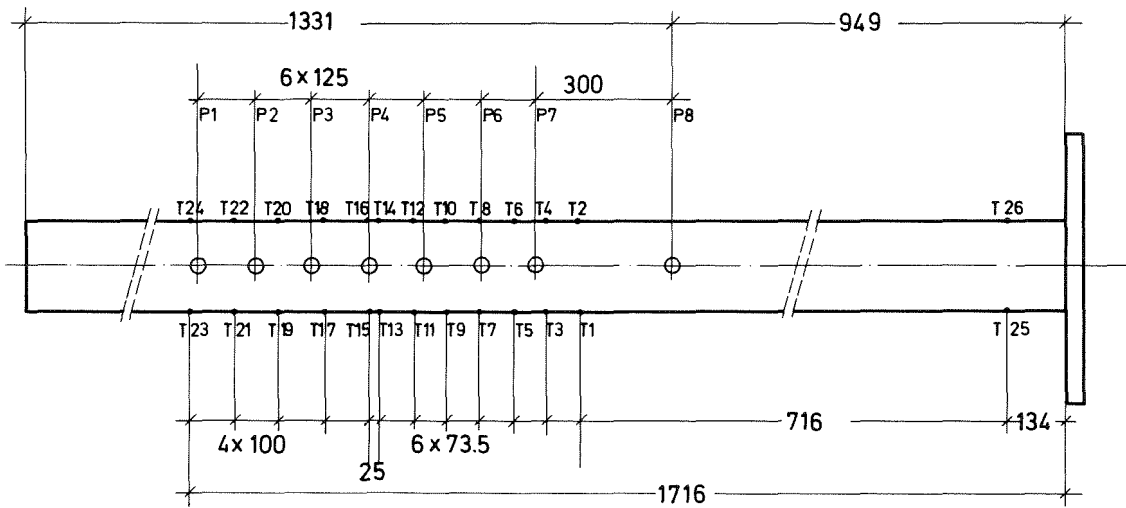


Fig.4: Instrumentation of the outer tubes



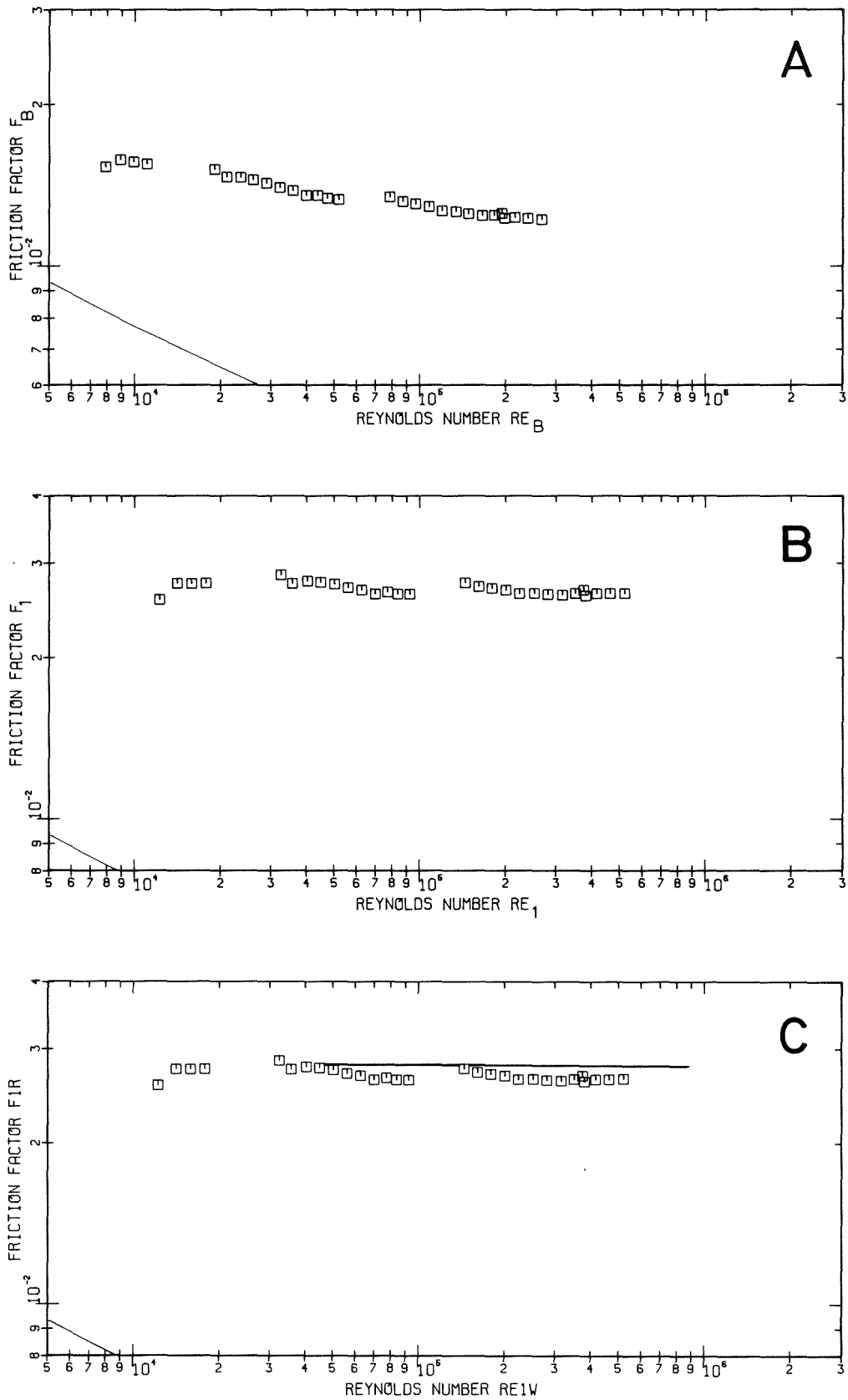


Fig.5: Friction factors versus Reynolds number rod 18 in 33, helium

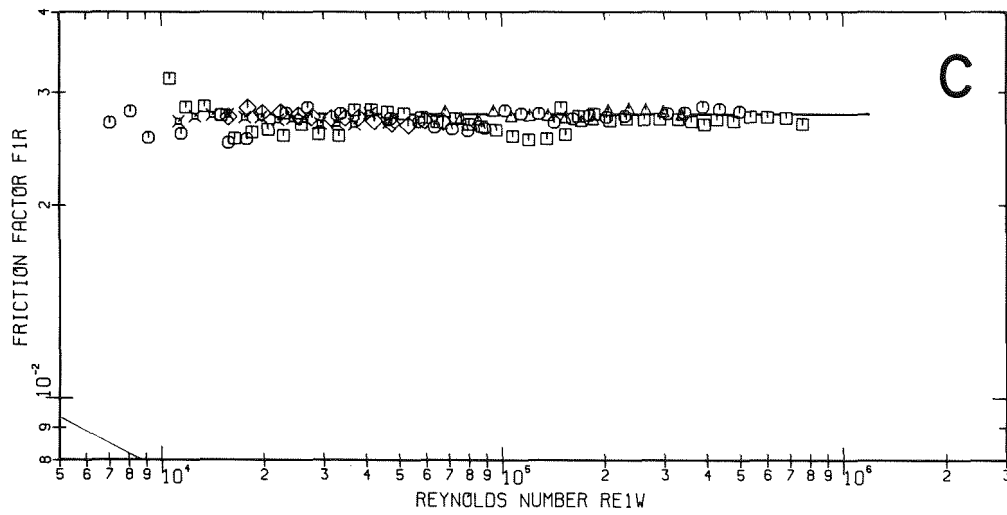
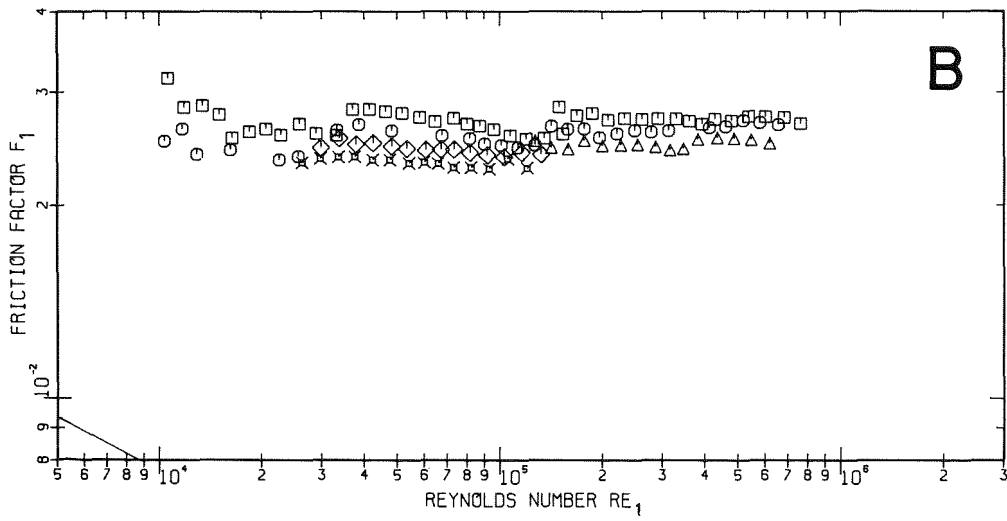
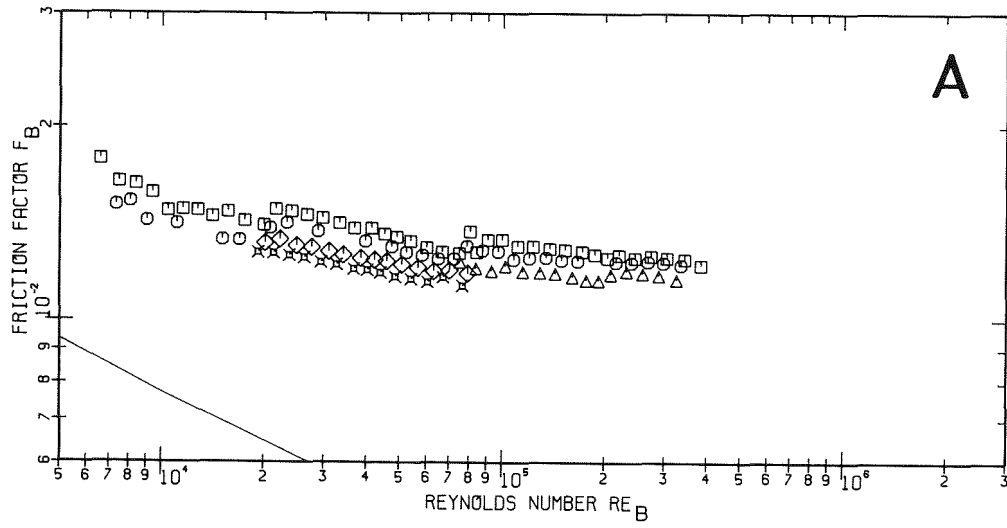


Fig.6: Friction factors versus Reynolds number rod 19 in 33, helium

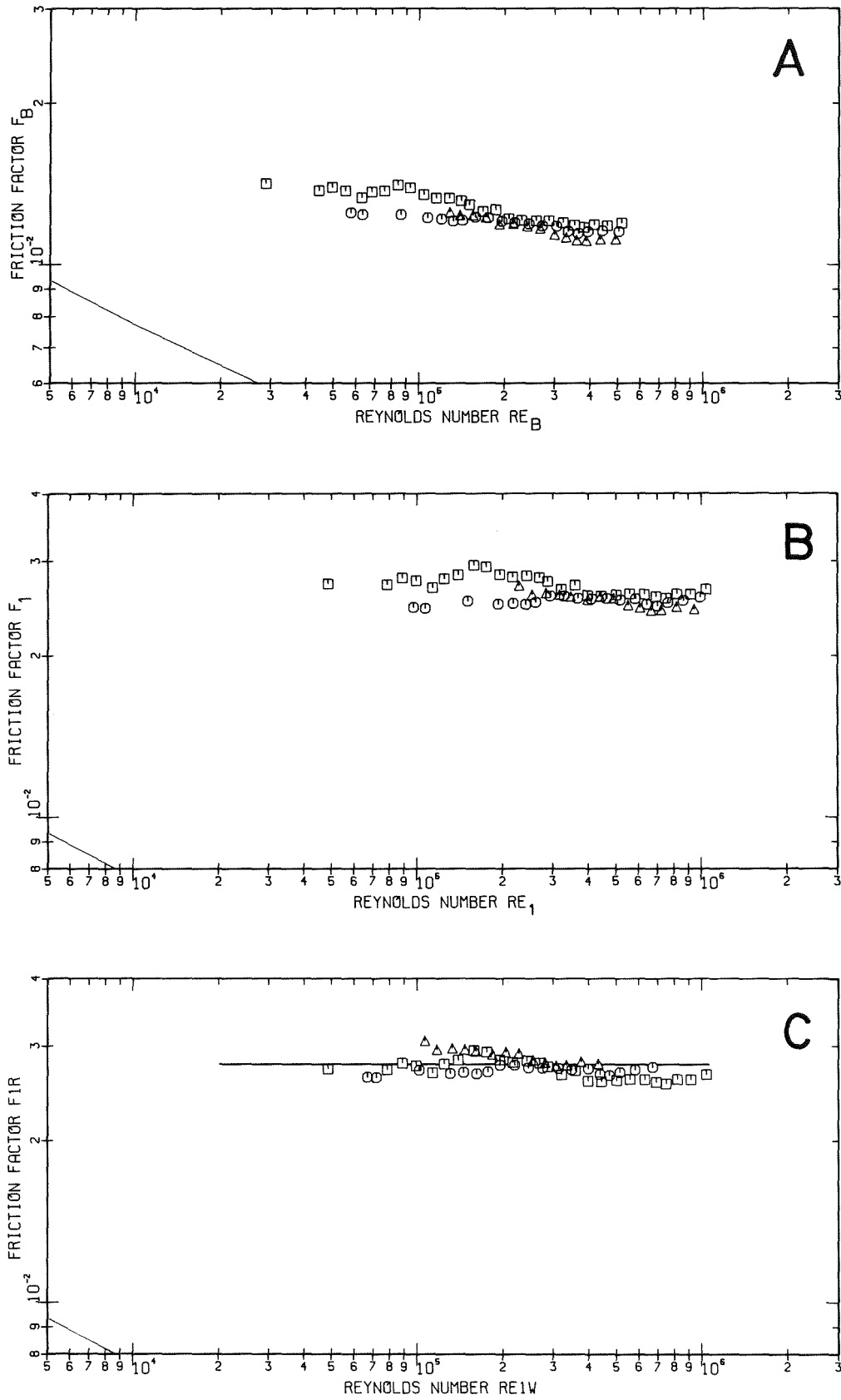


Fig.7: Friction factors versus Reynolds number rod 19 in 33, nitrogen

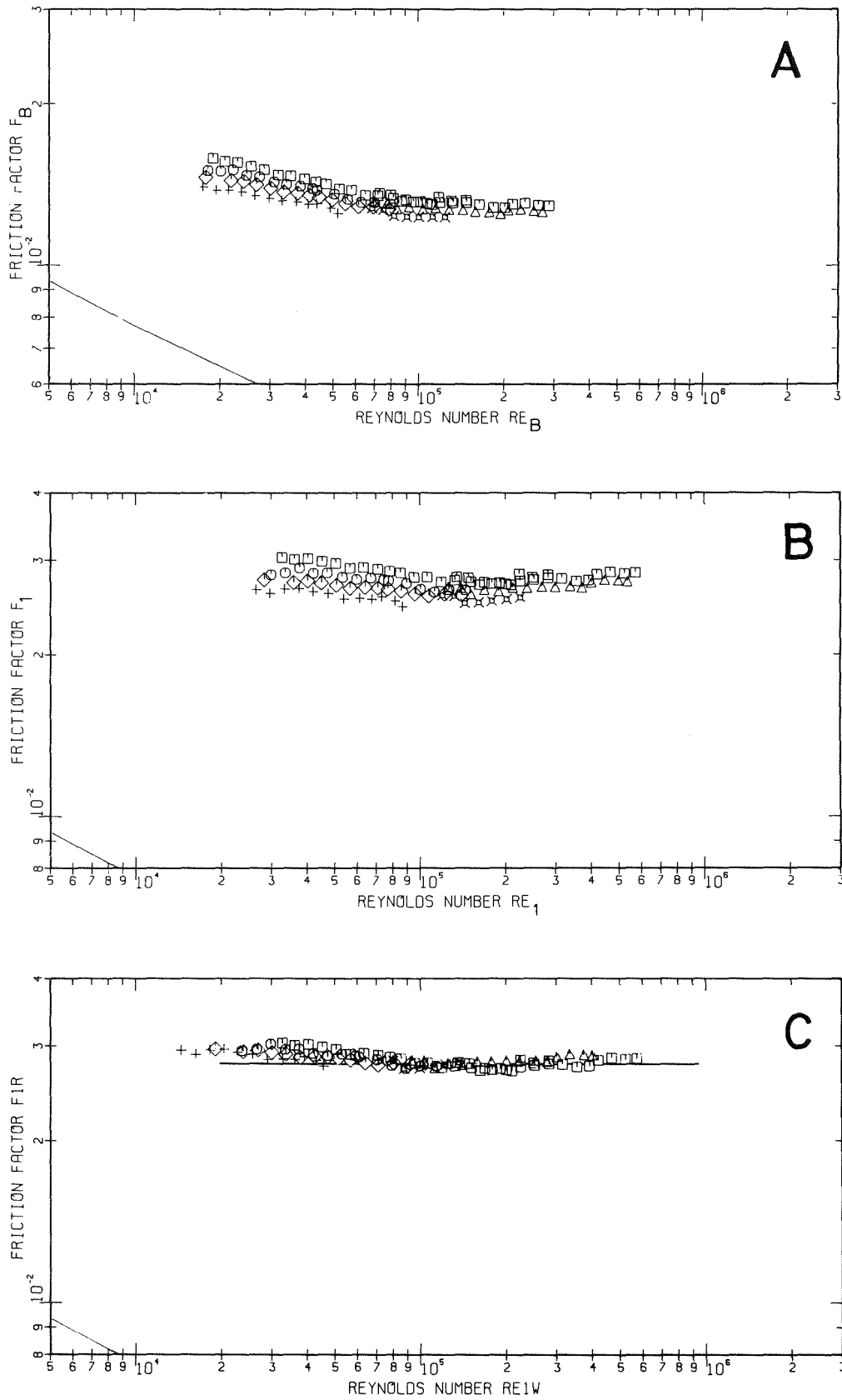


Fig.8: Friction factors versus Reynolds number rod 20 in 33, helium

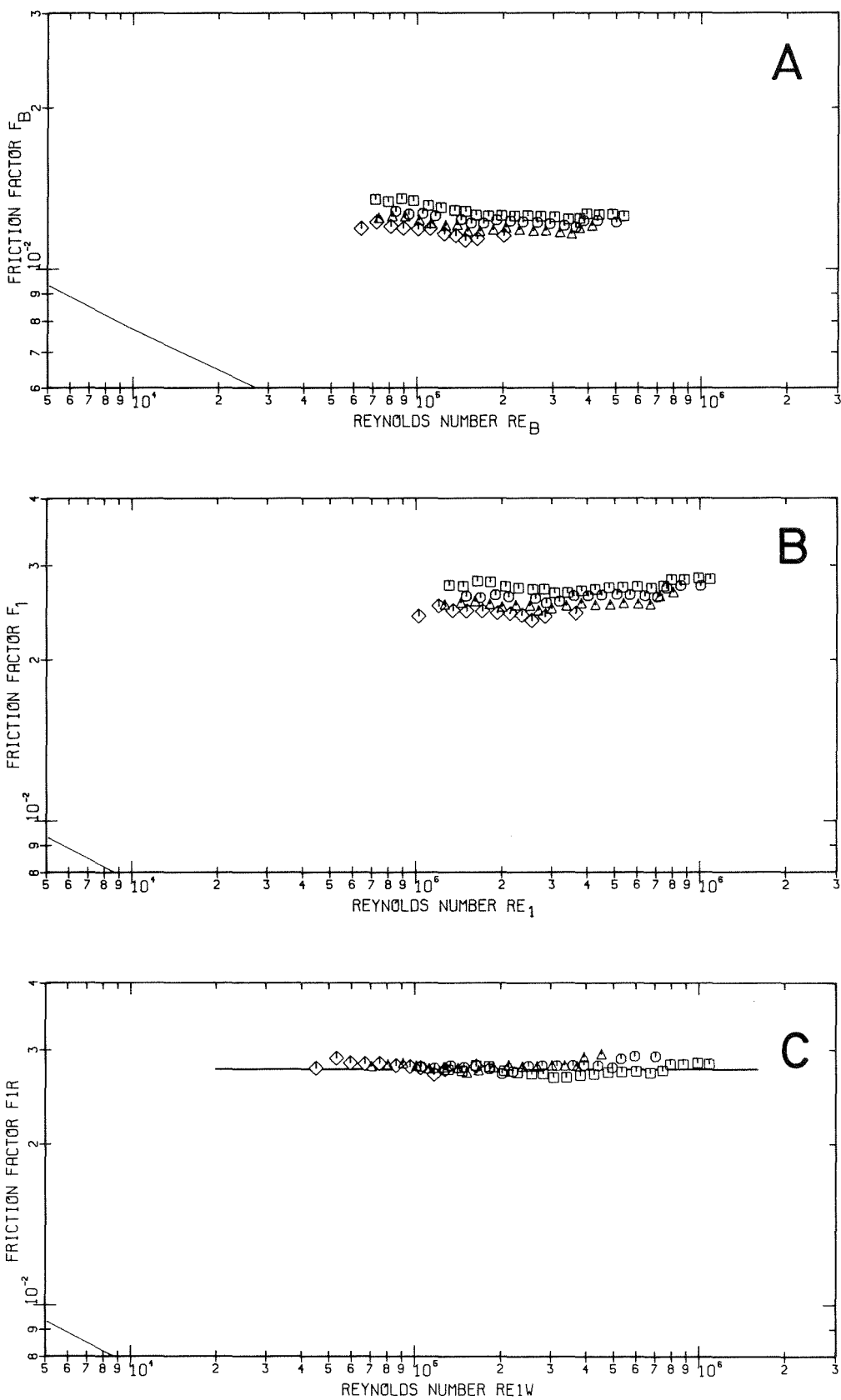


Fig.9: Friction factors versus Reynolds number rod 20 in 33, nitrogen

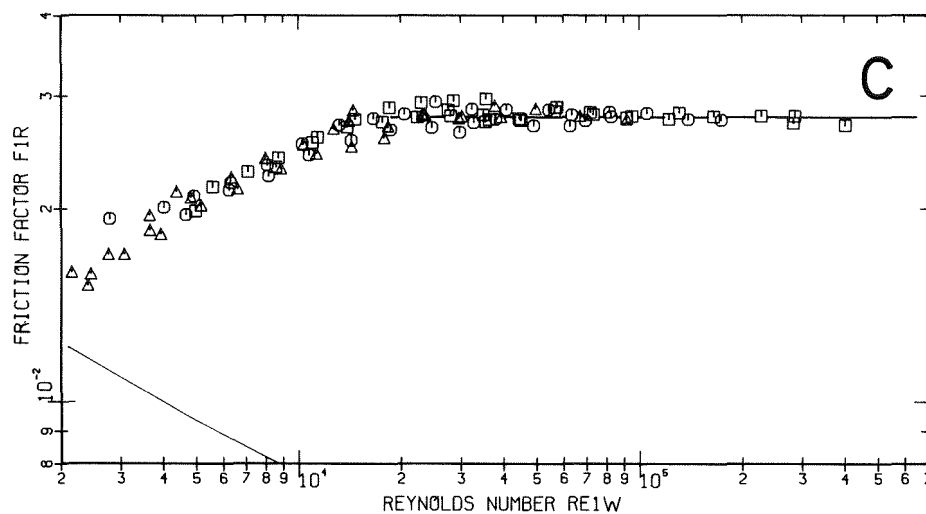
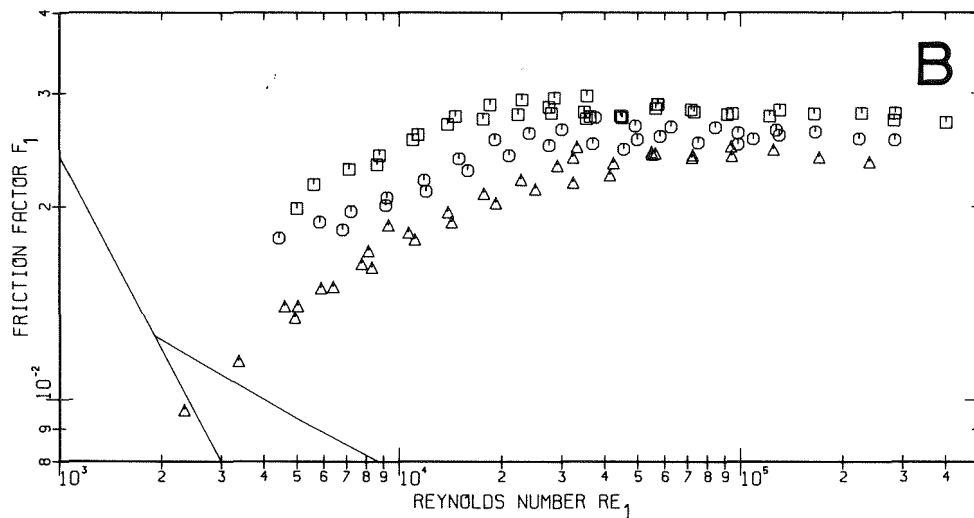
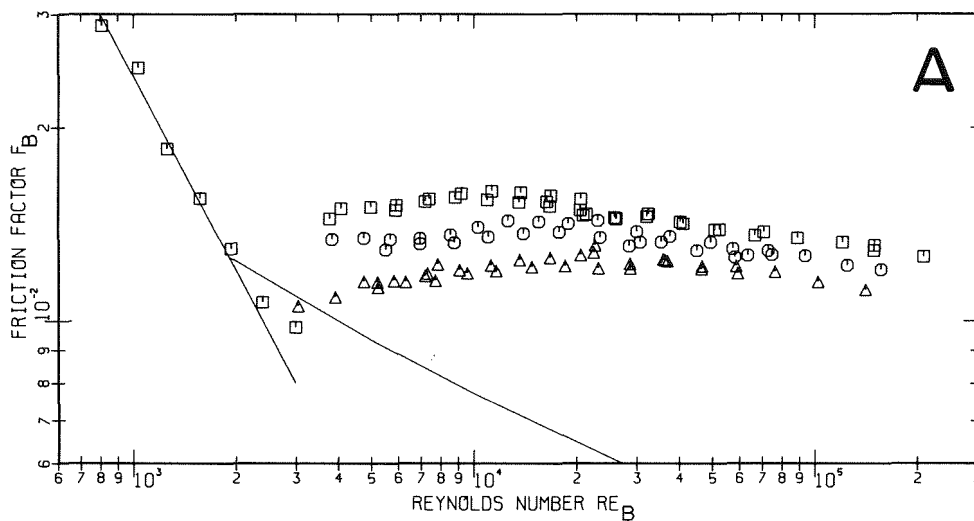


Fig.10: Friction factors versus Reynolds number rod 20 in 33, air

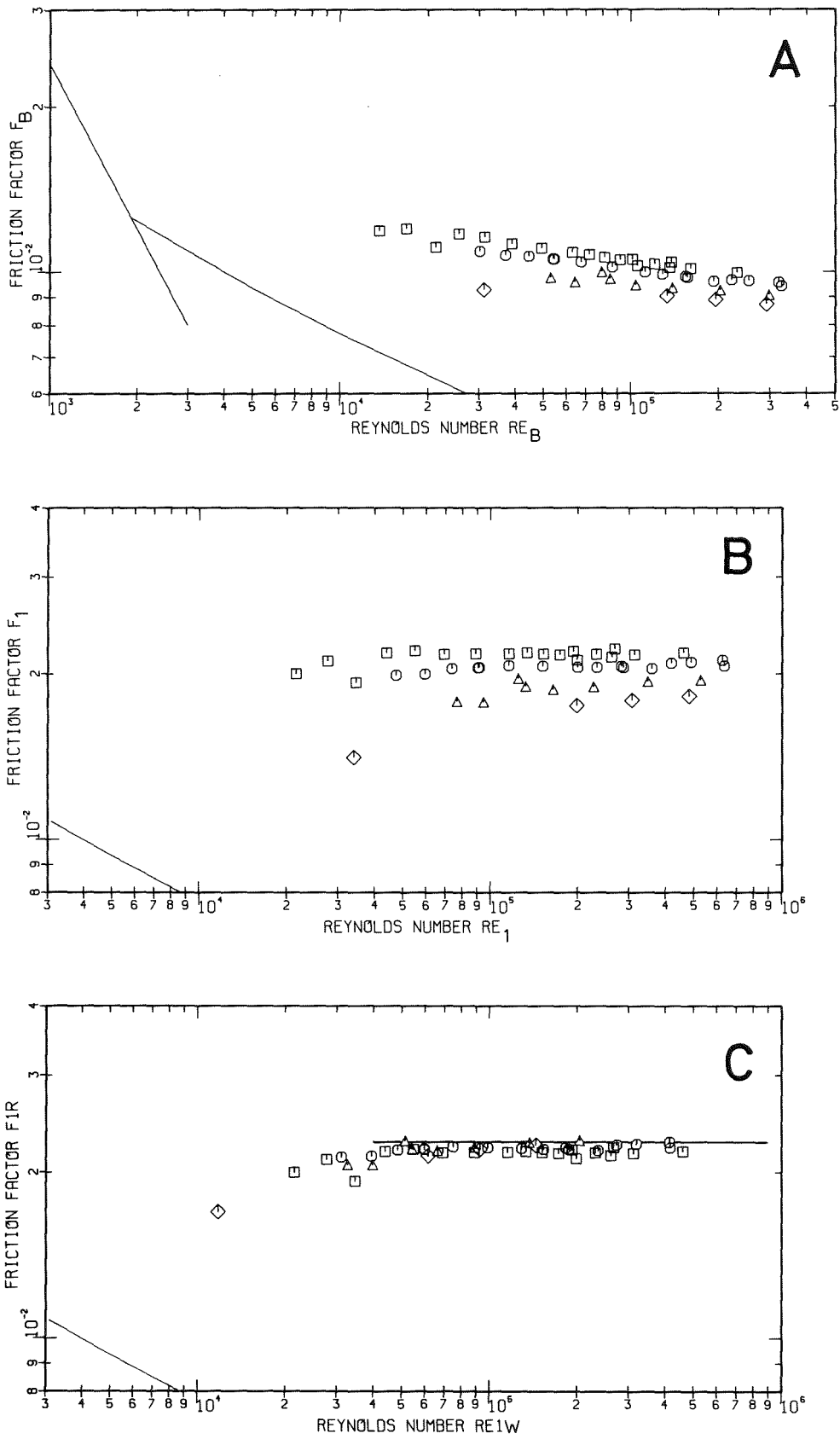


Fig.11: Friction factors versus Reynolds number rod 18 in 40, air

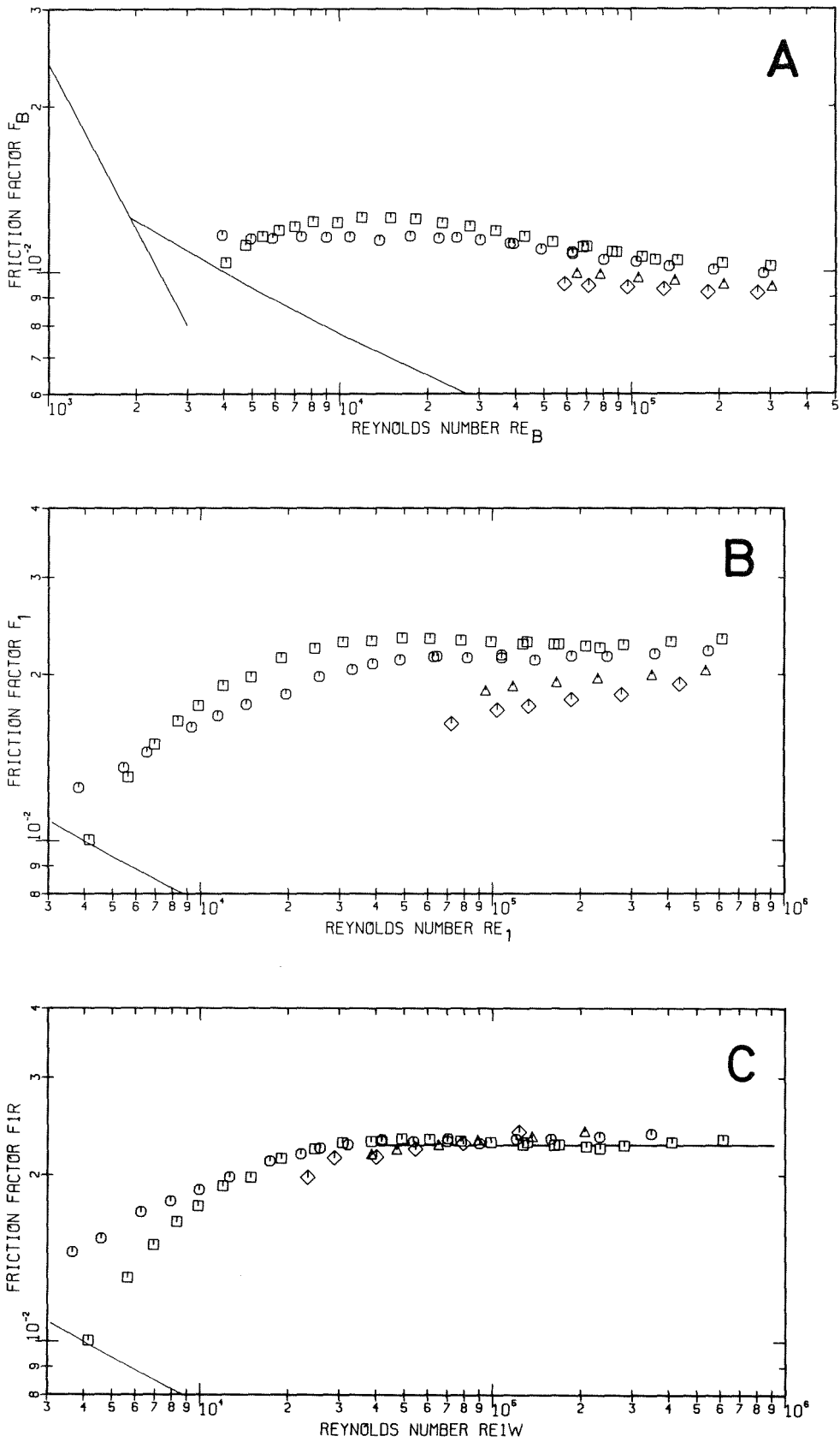


Fig.12: Friction factors versus Reynolds number rod 19 in 40, air



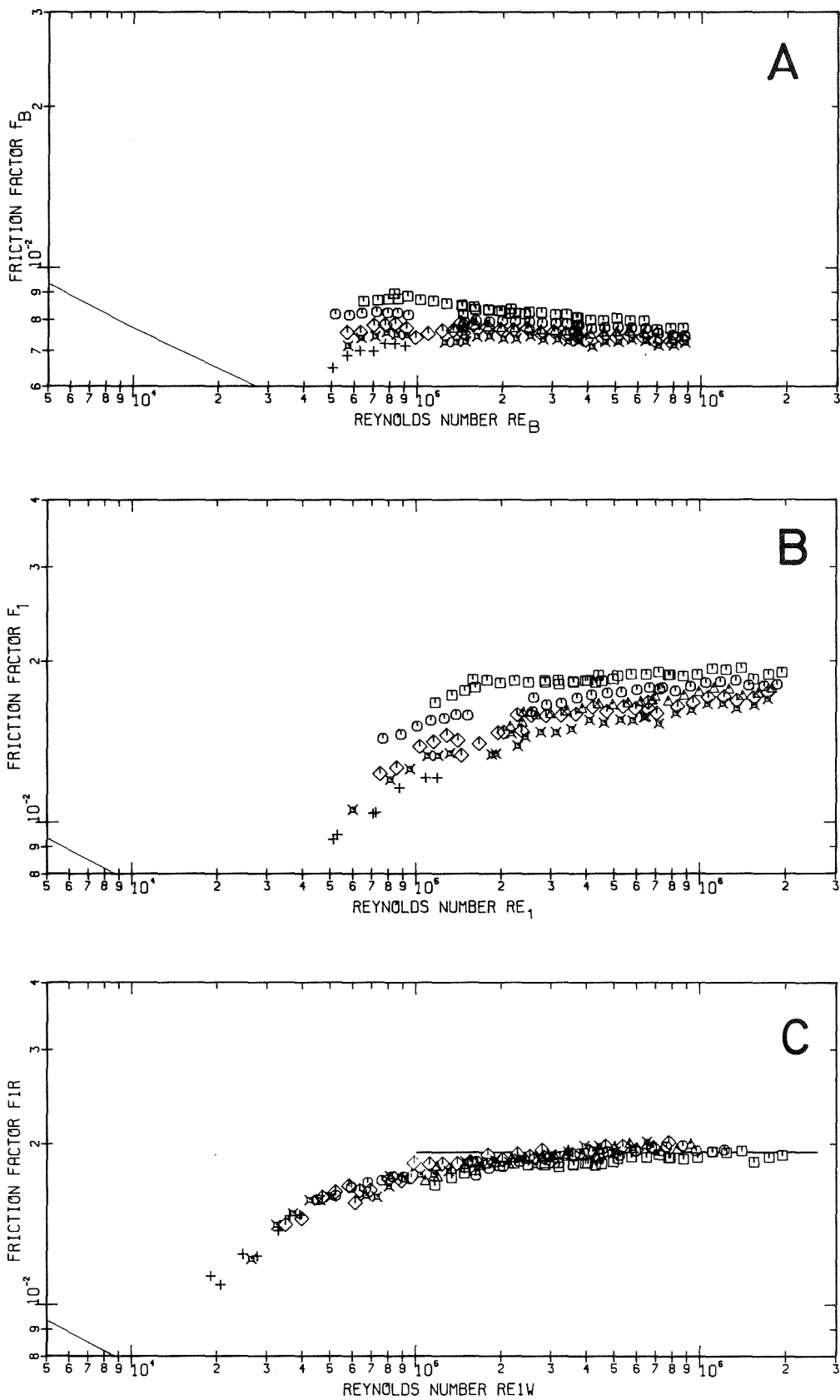


Fig.13: Friction factors versus Reynolds number rod 18 in 50, helium

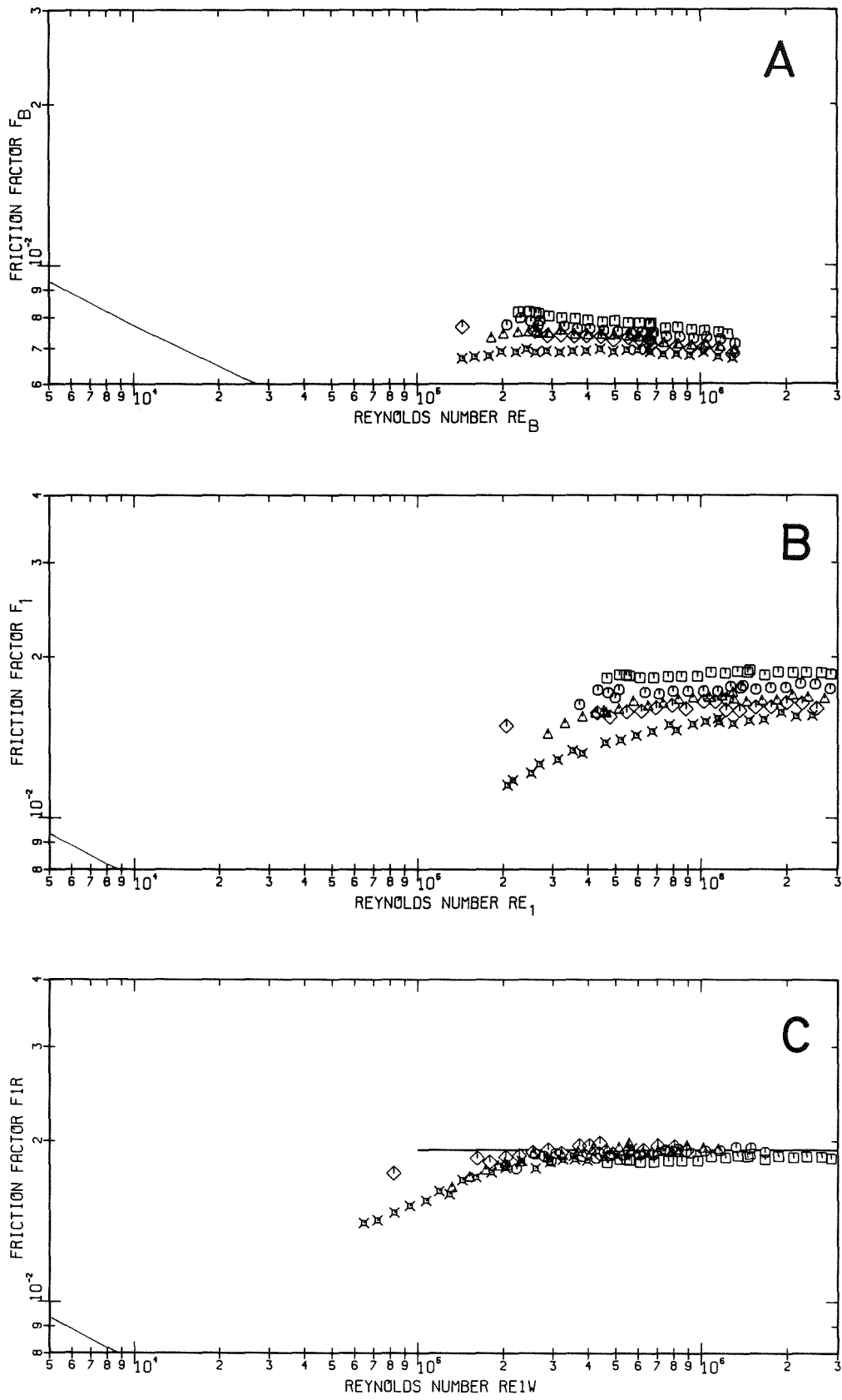


Fig.14: Friction factors versus Reynolds number rod 18 in 50, nitrogen

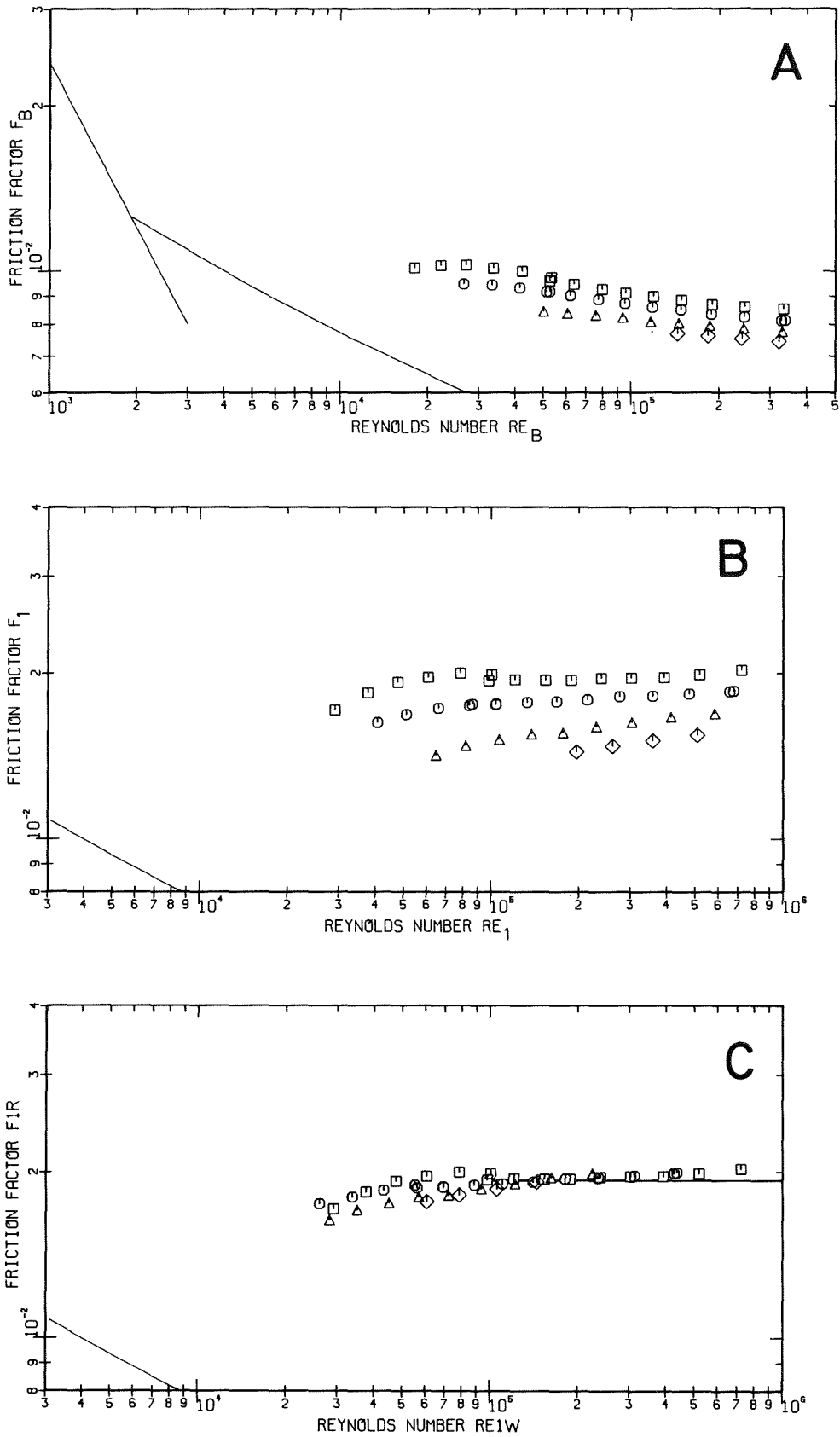


Fig.15: Friction factors versus Reynolds number  
rod 18 in 50, air

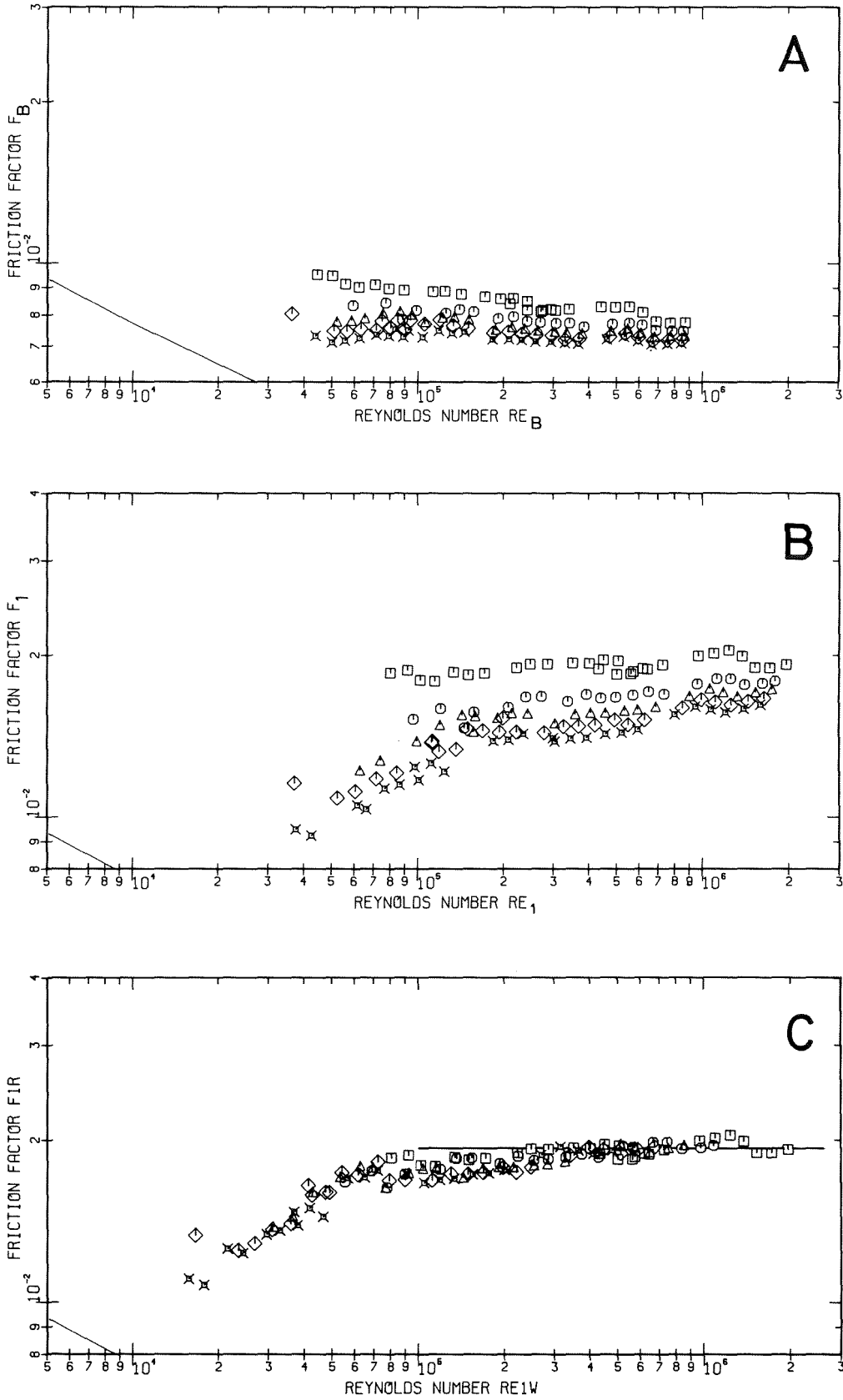


Fig.16: Friction factors versus Reynolds number rod 19 in 50, helium

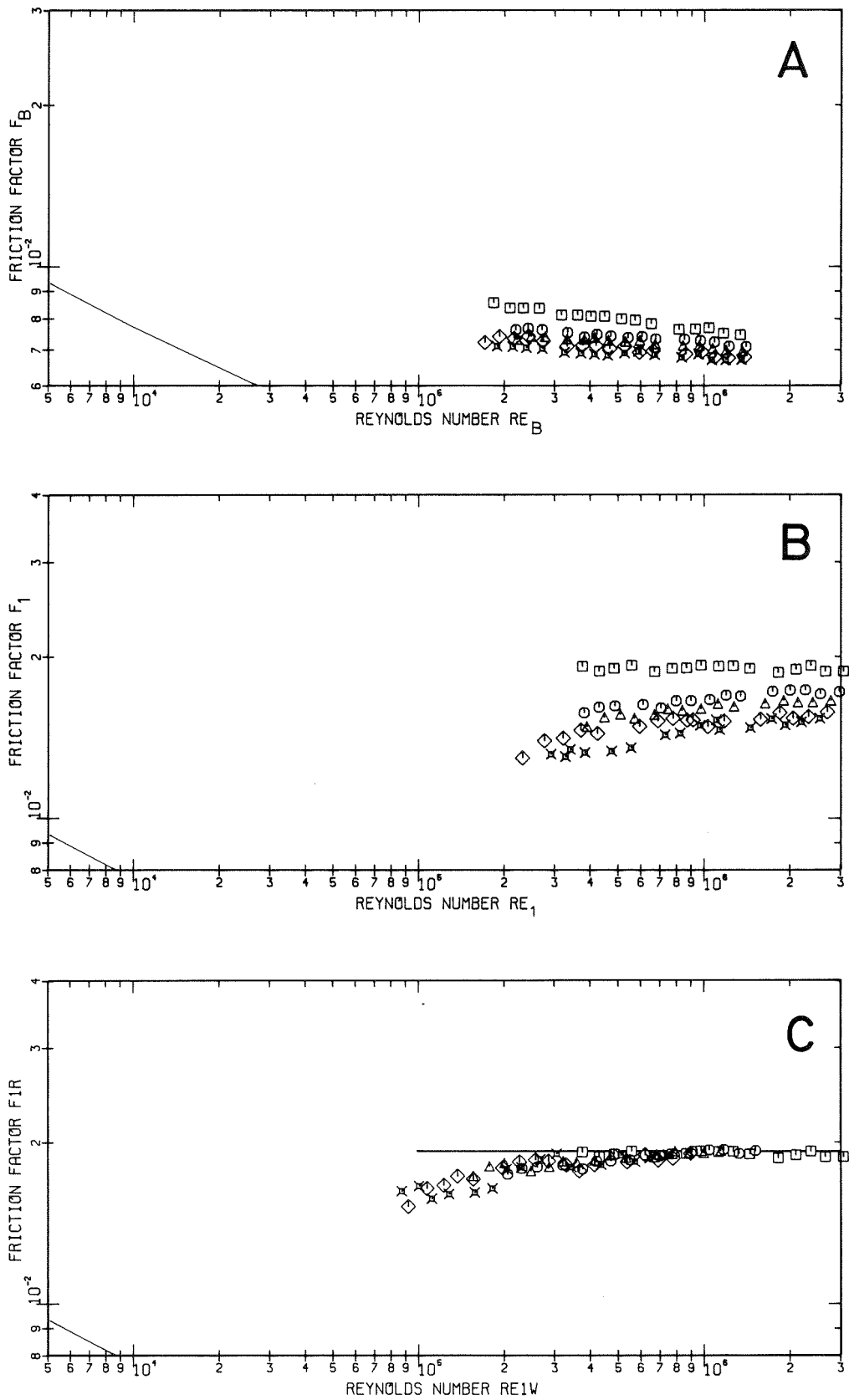


Fig.17: Friction factors versus Reynolds number rod 19 in 50, nitrogen

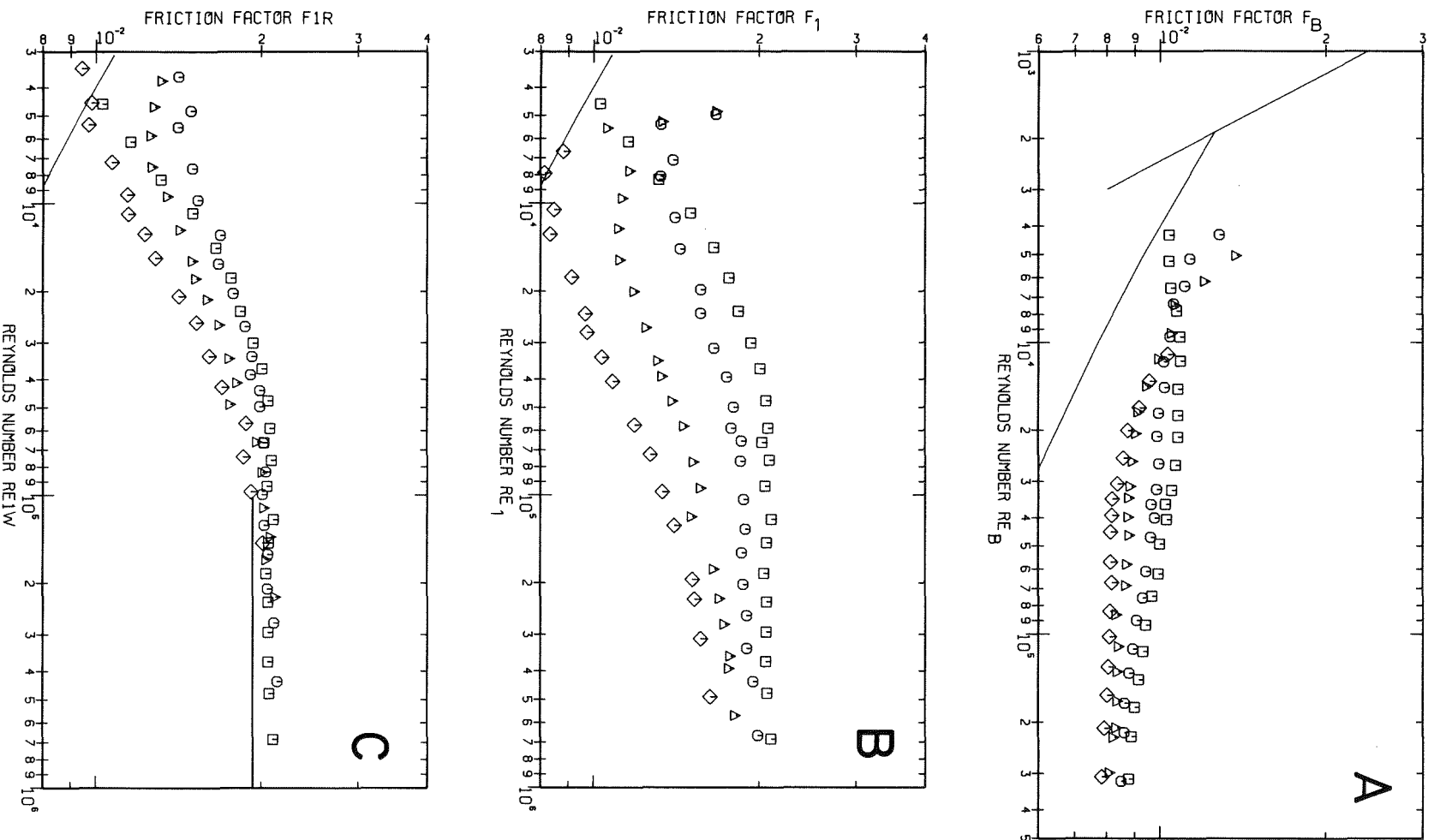


Fig. 18: Friction factors versus Reynolds number rod 19 in 50, air

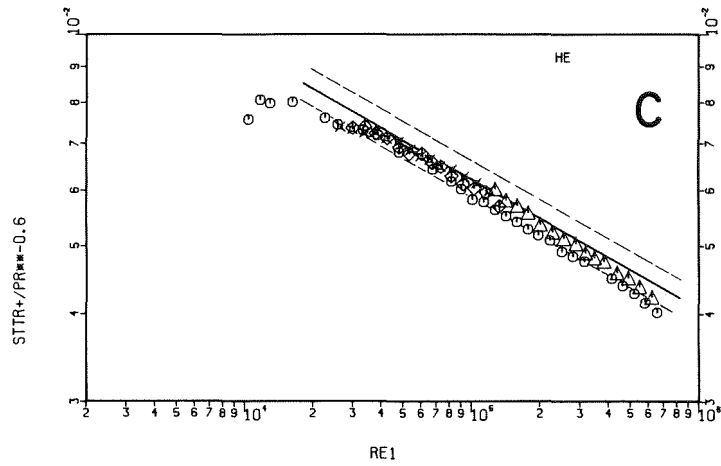
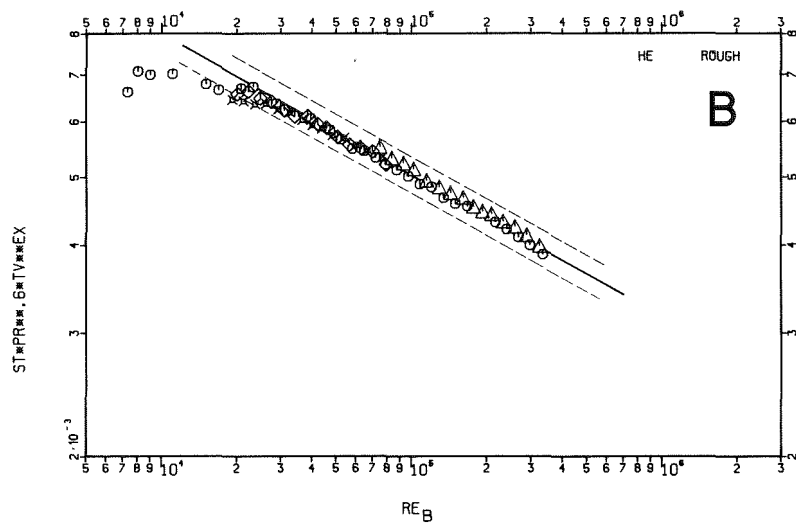
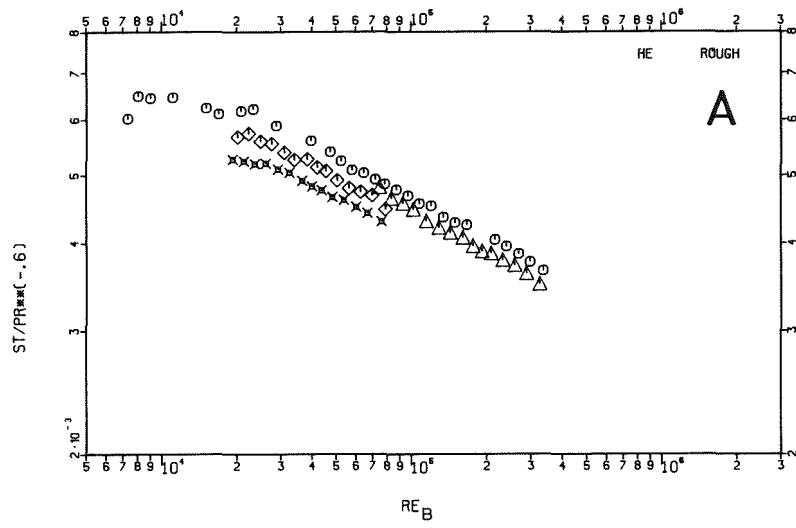


Fig.19: Stanton numbers versus Reynolds number rod 19 in 33, helium

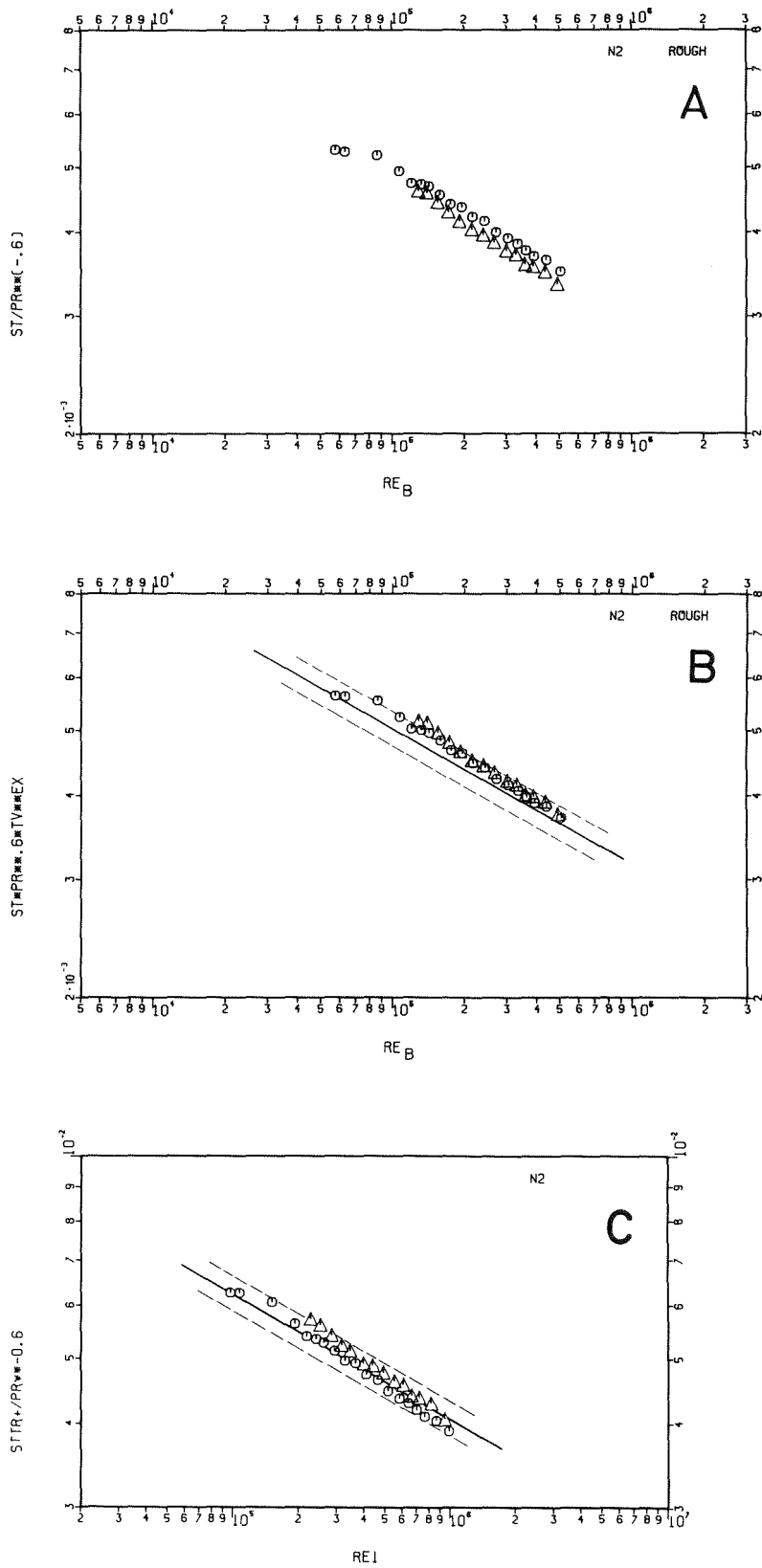


Fig.20: Stanton numbers versus Reynolds number rod 19 in 33, nitrogen



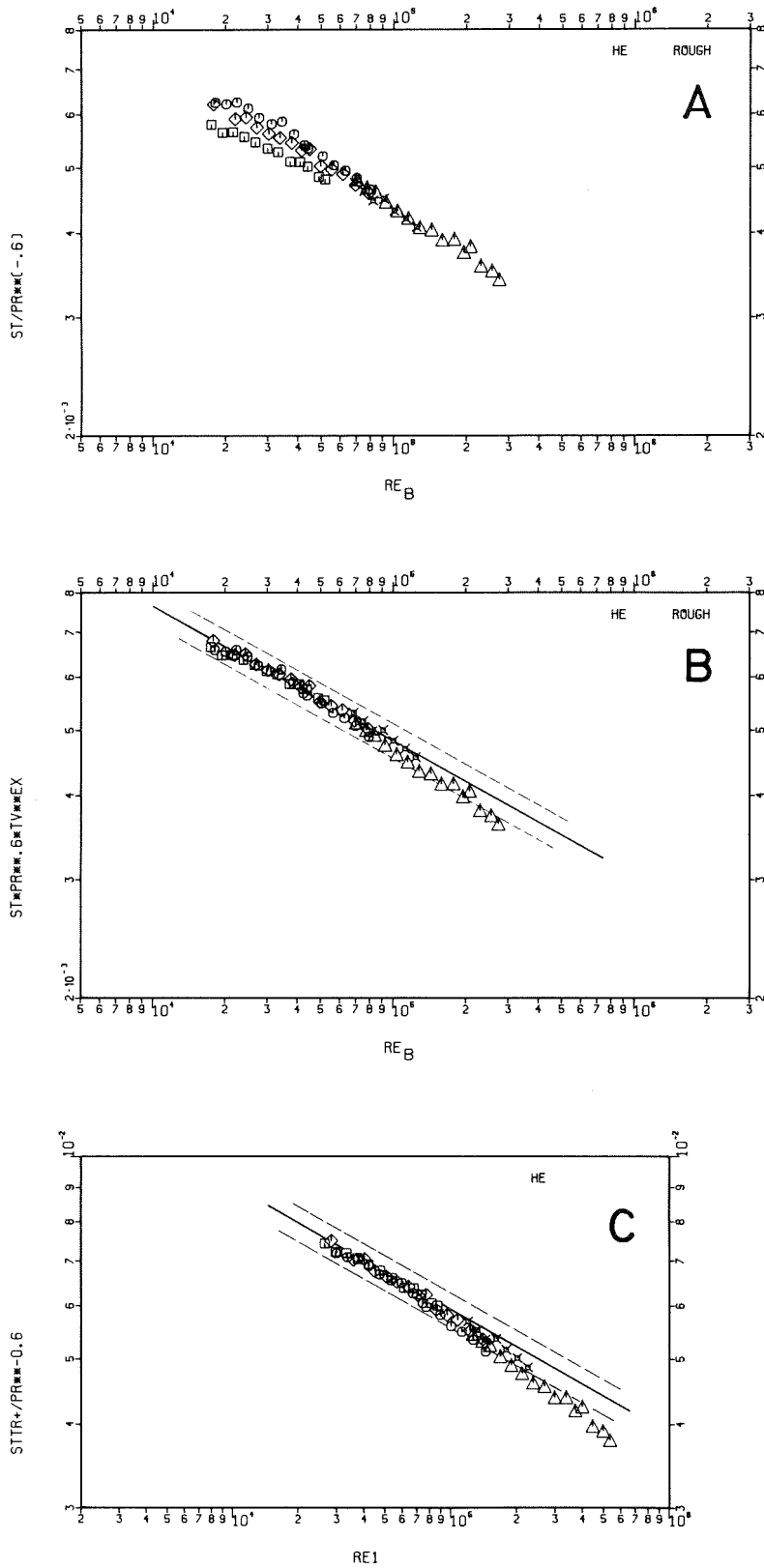


Fig.21: Stanton numbers versus Reynolds number rod 20 in 33, helium

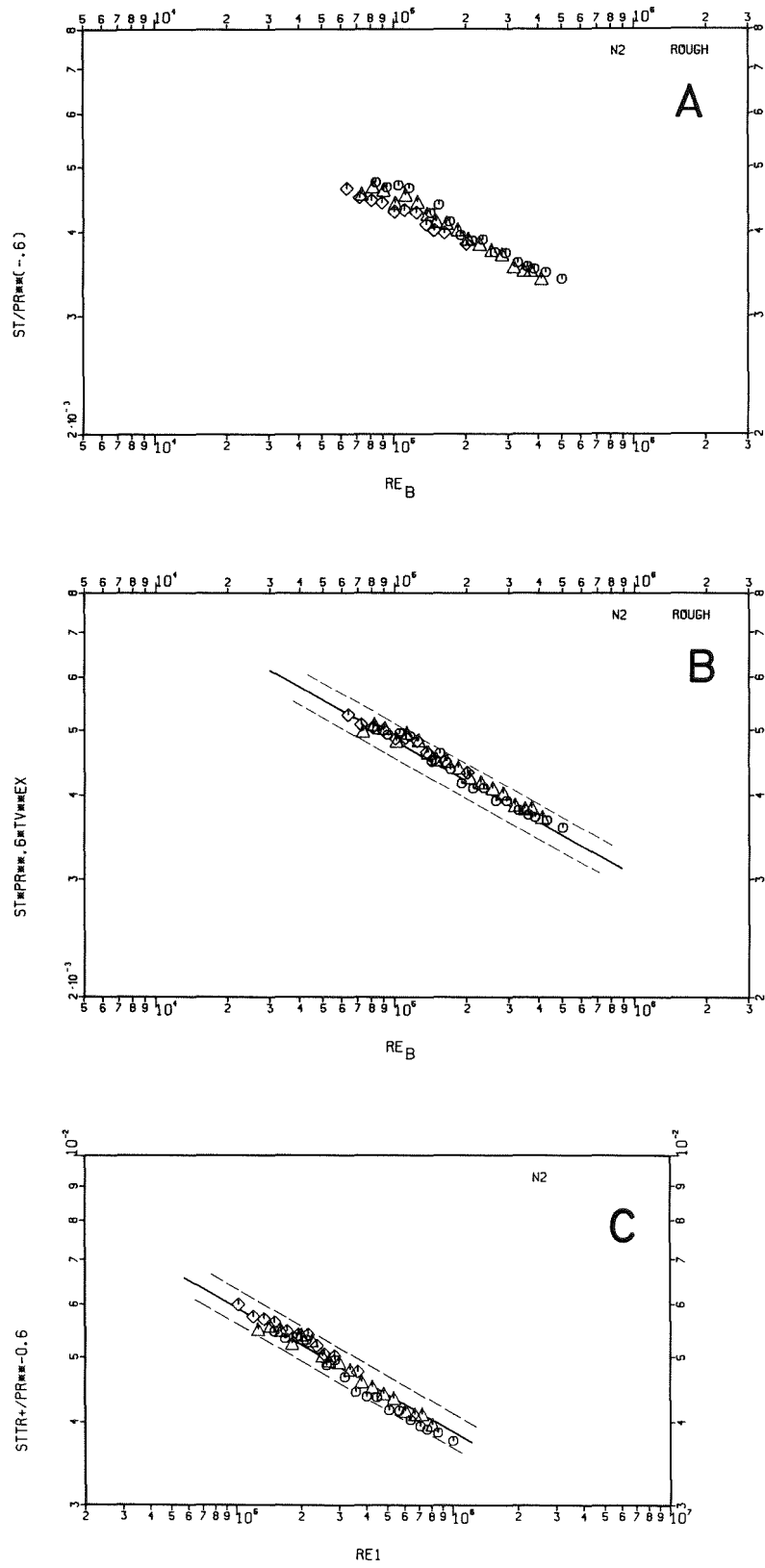


Fig.22: Stanton numbers versus Reynolds number rod 20 in 33, nitrogen

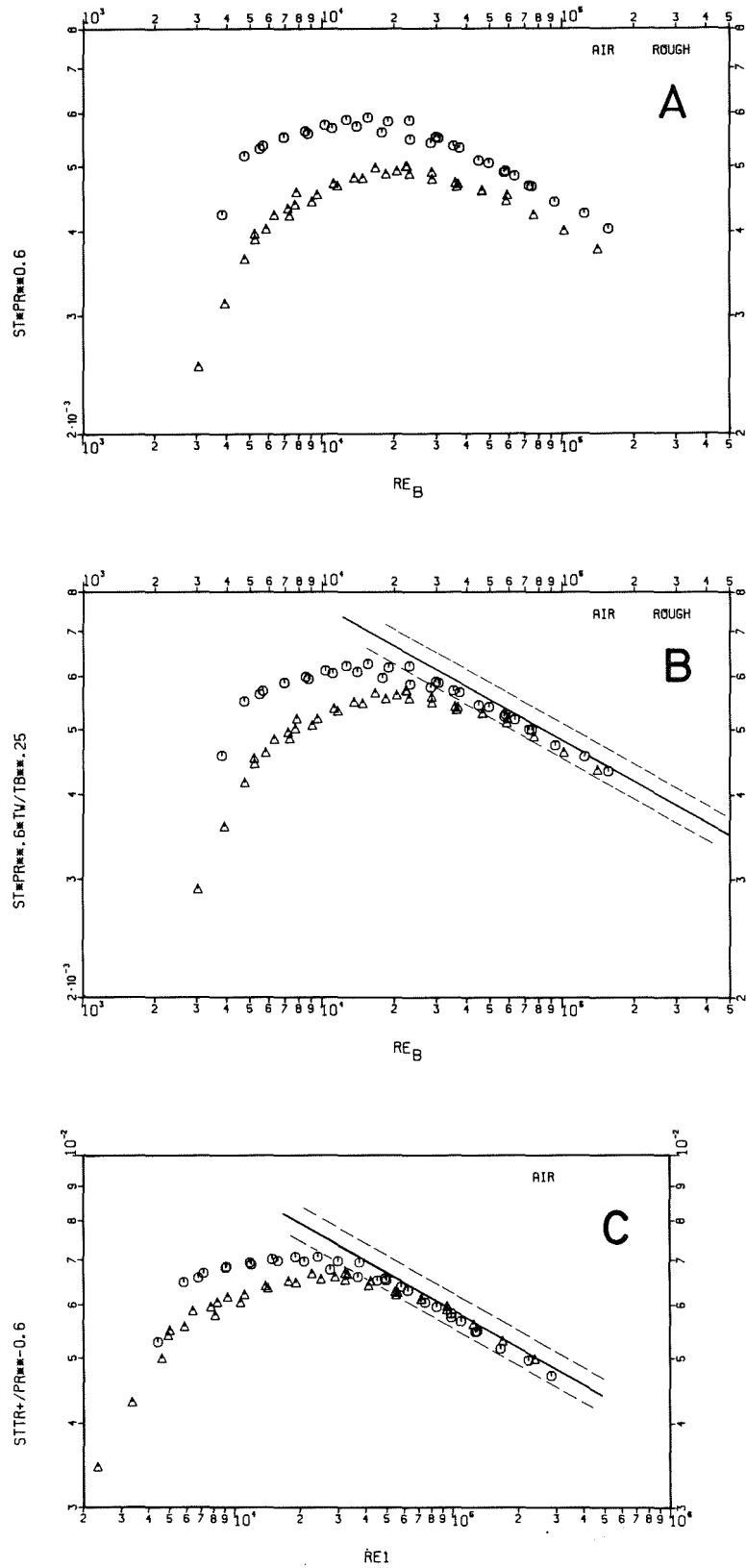


Fig.23: Stanton numbers versus Reynolds number rod 20 in 33, air

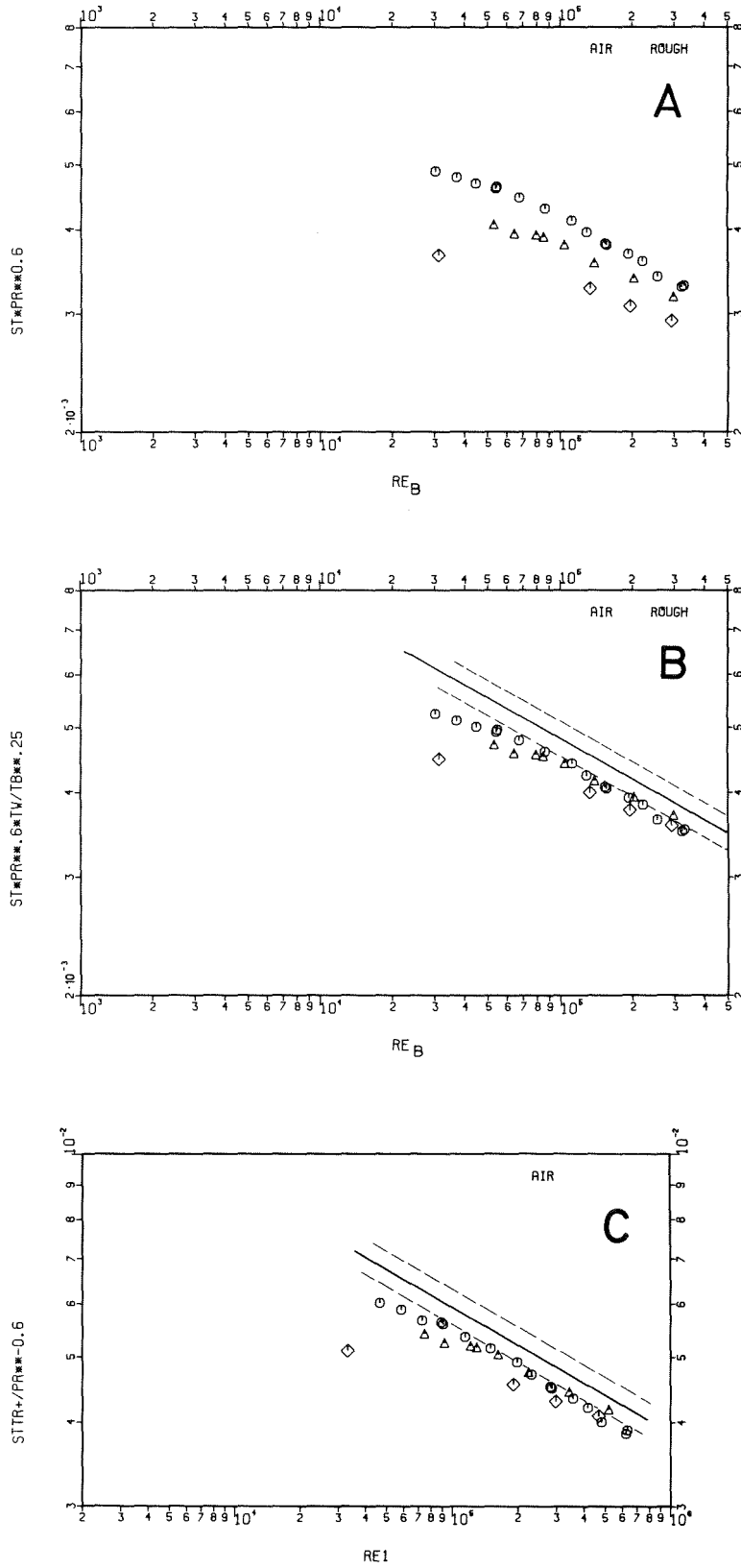


Fig.24: Stanton numbers versus Reynolds number rod 18 in 40, air

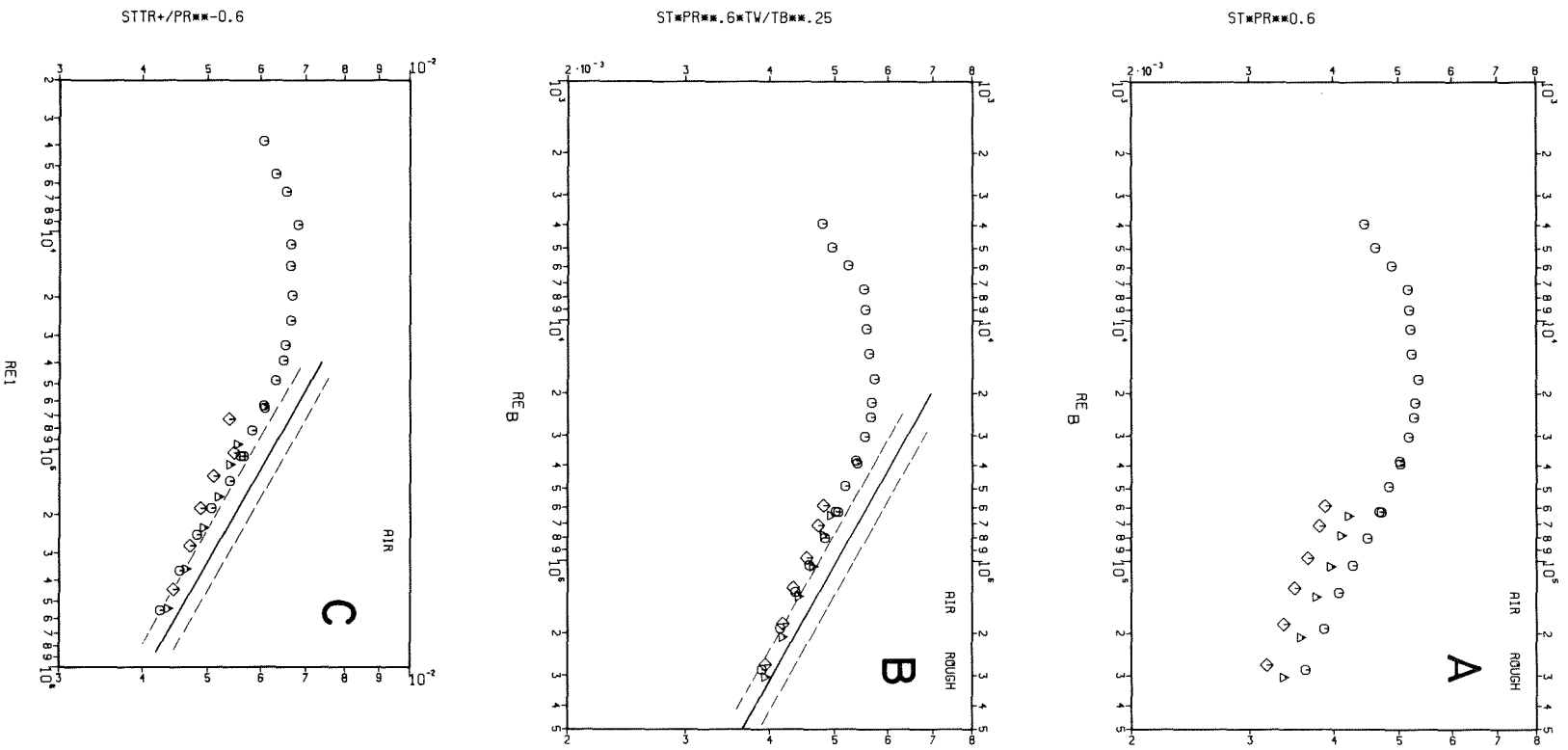


Fig. 25: Stanton numbers versus Reynolds number  
rod 19 in 40, air

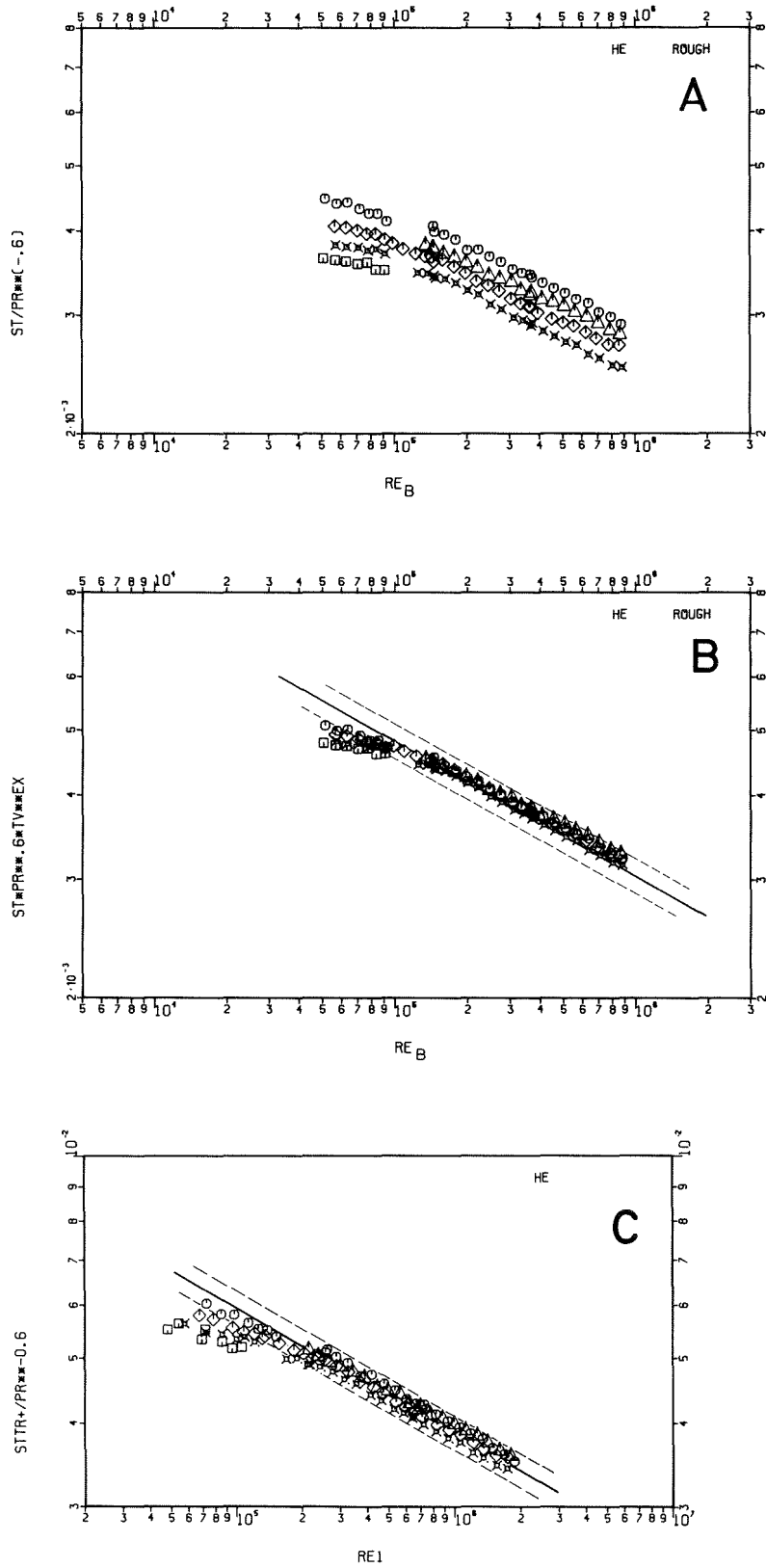


Fig.26: Stanton numbers versus Reynolds number rod 18 in 50, helium

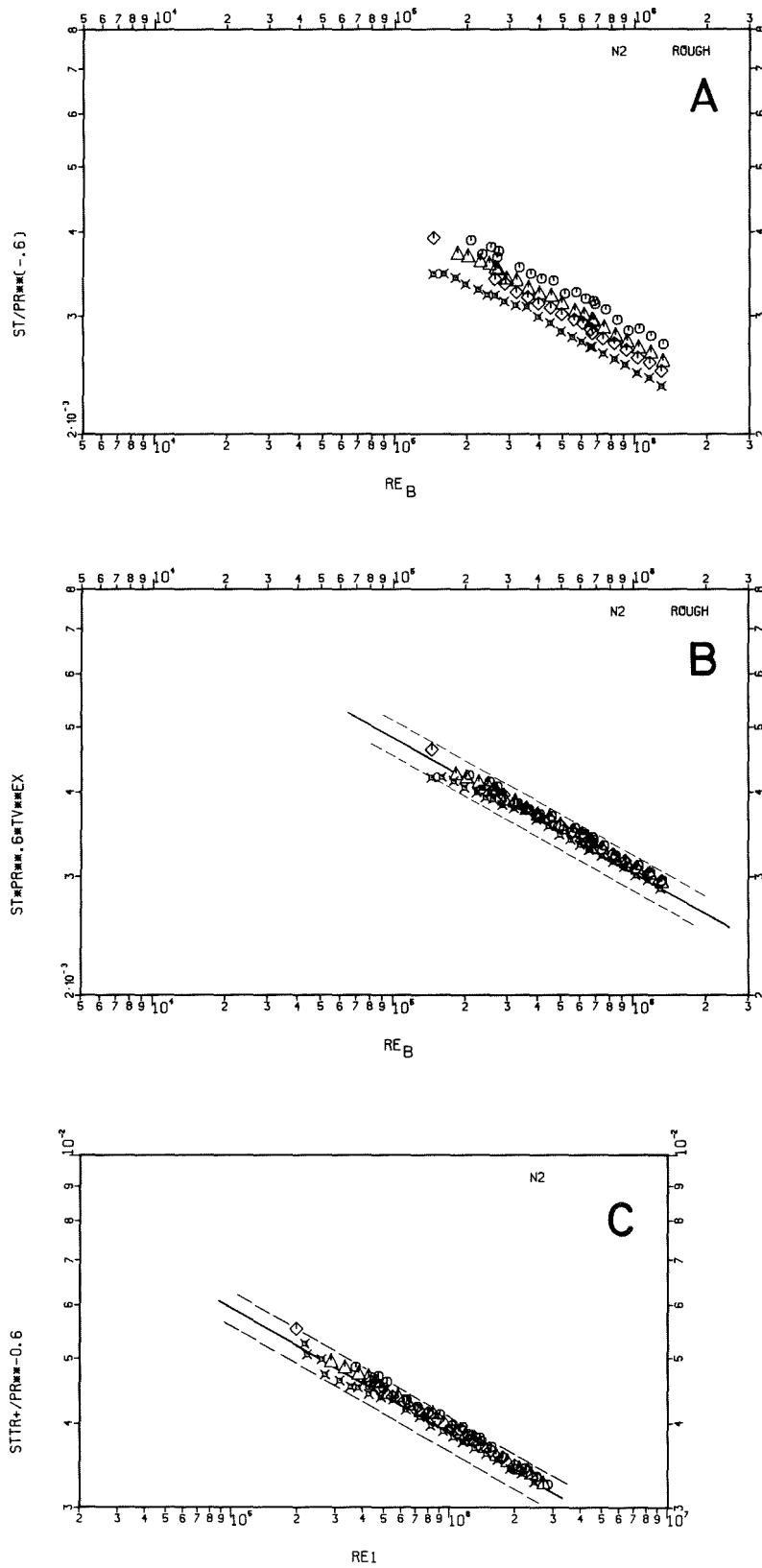


Fig.27: Stanton numbers versus Reynolds number rod 18 in 50, nitrogen

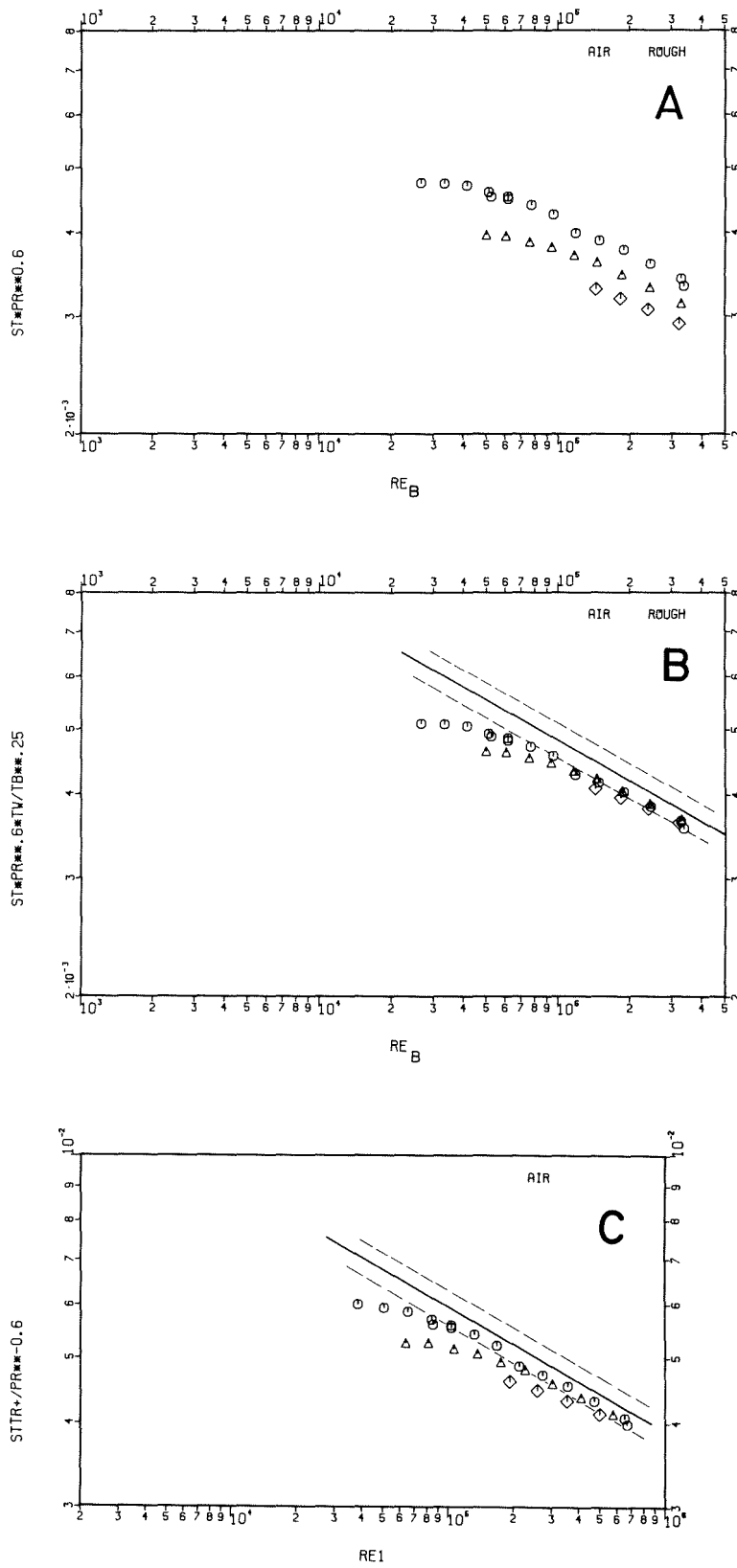


Fig.28: Stanton numbers versus Reynolds number rod 18 in 50, air



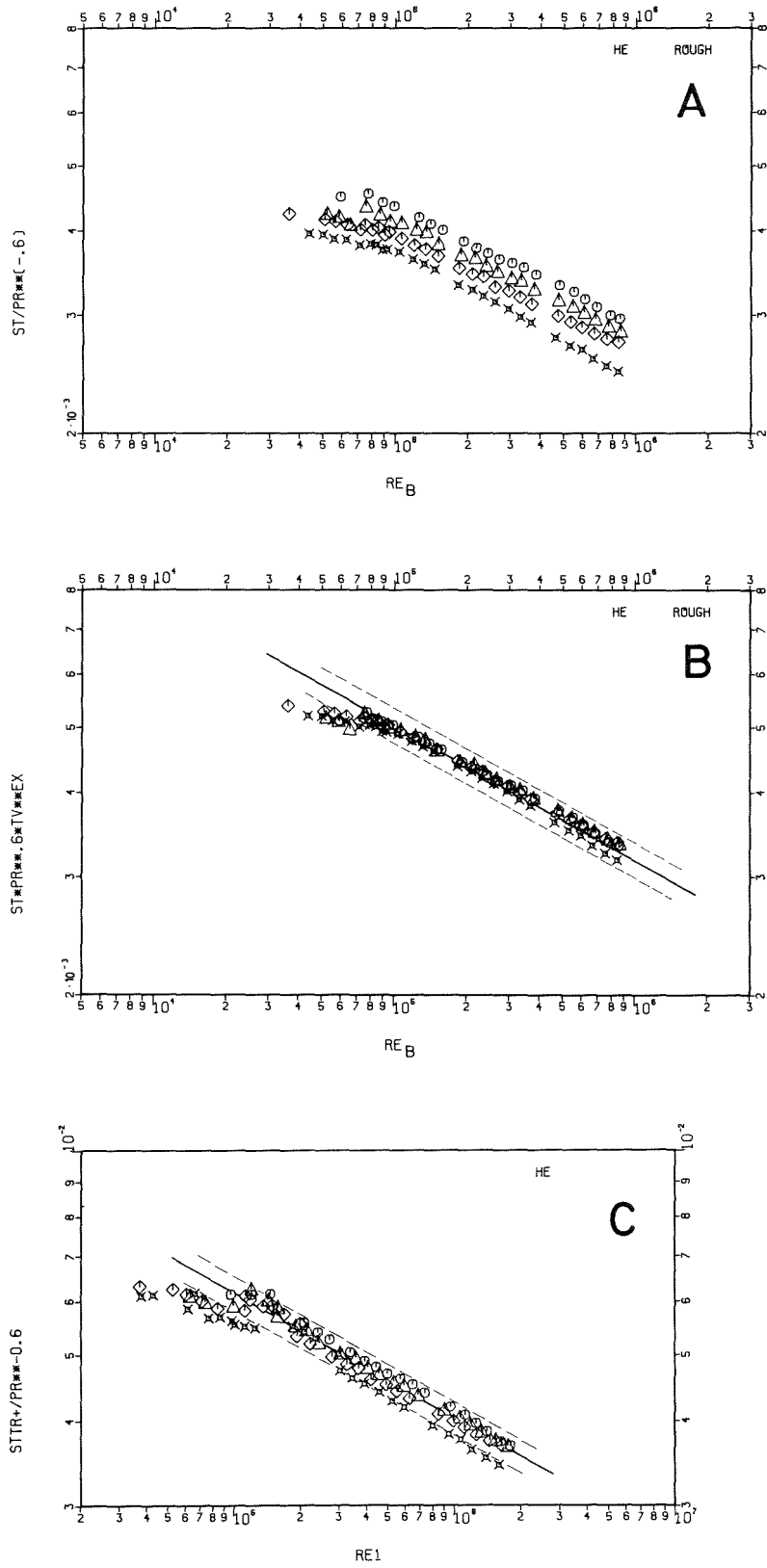


Fig.29: Stanton numbers versus Reynolds number rod 19 in 50, helium

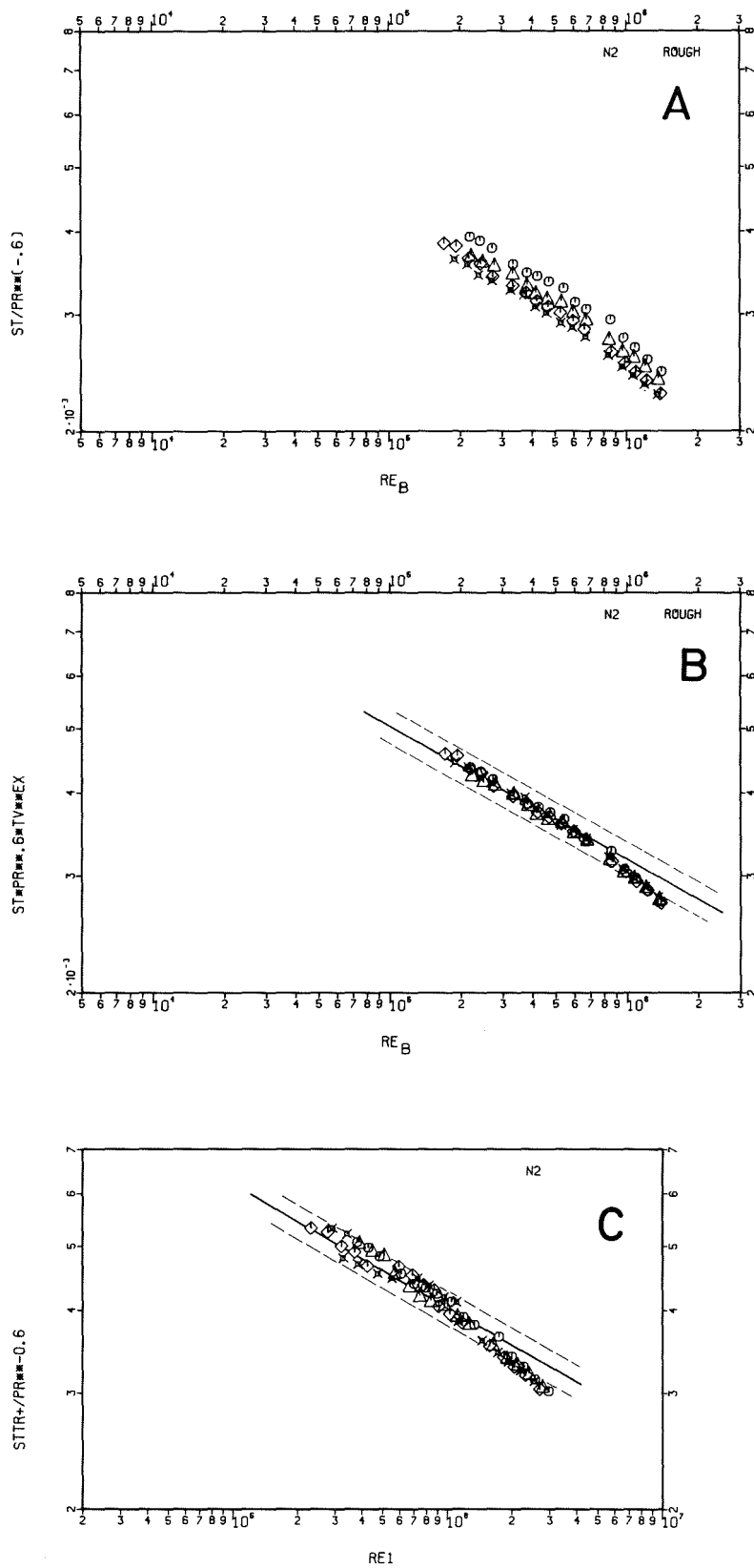


Fig.30: Stanton numbers versus Reynolds number rod 19 in 50, nitrogen

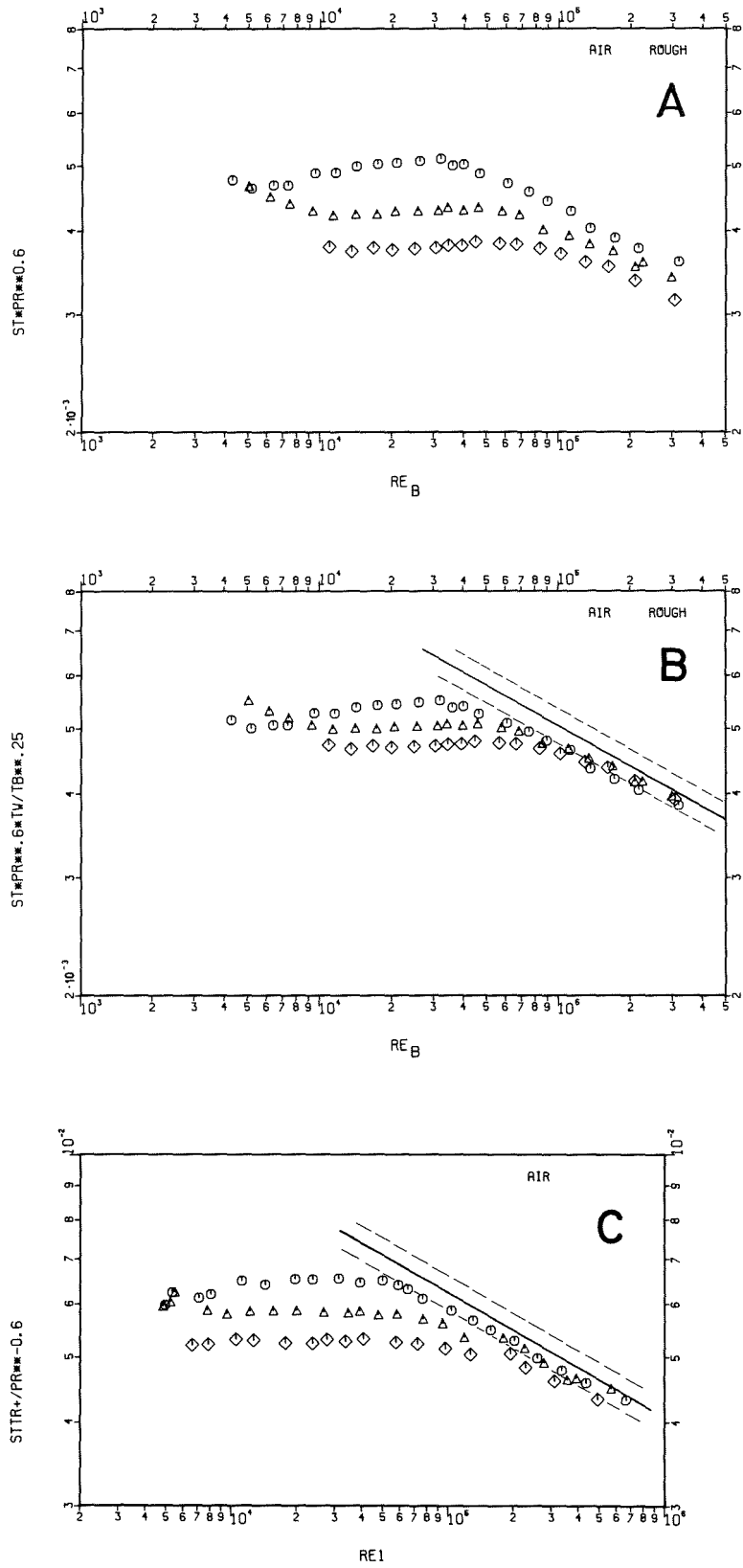


Fig.31: Stanton numbers versus Reynolds number rod 19 in 50, air

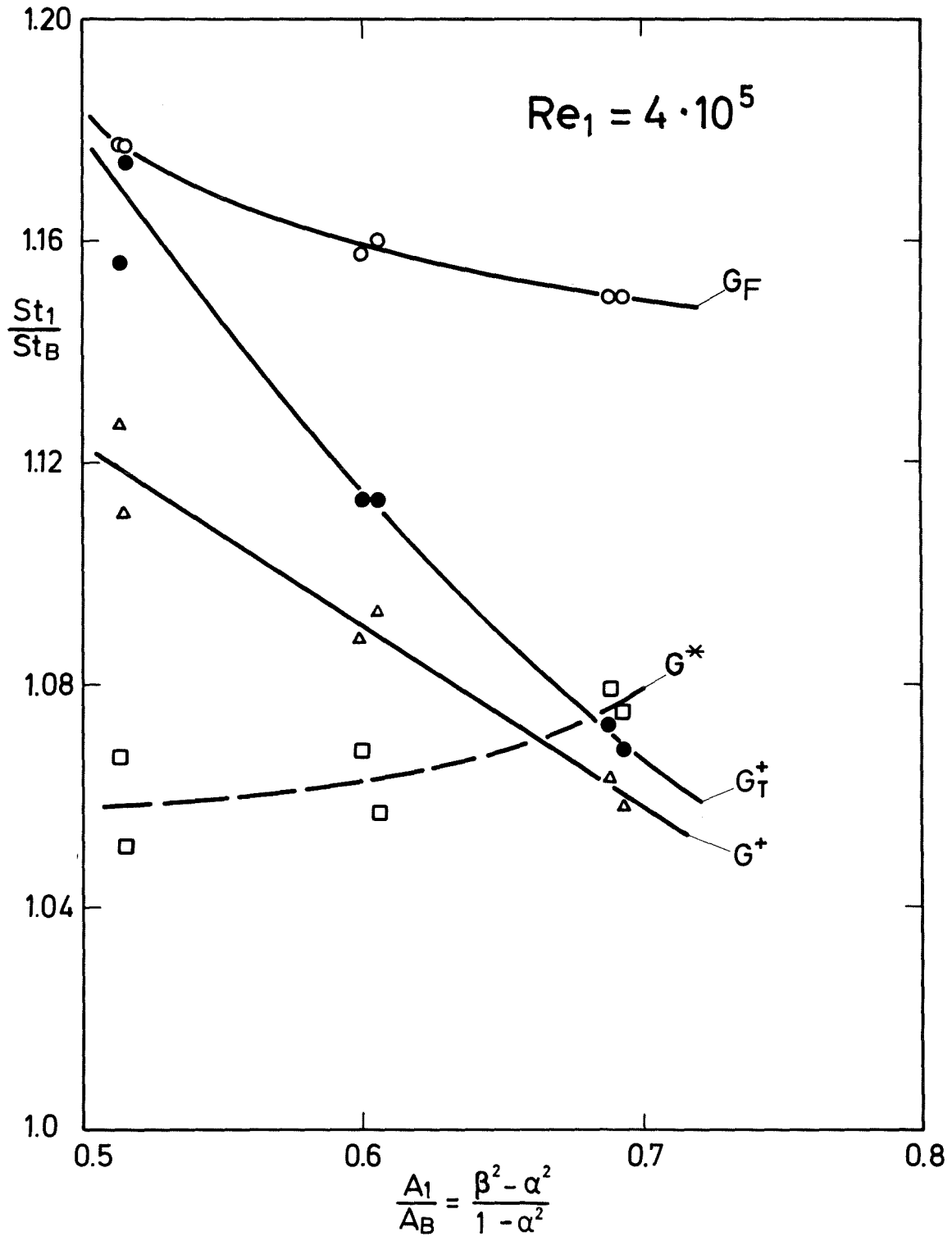


Fig.32: Ratio of transformed to bulk Stanton number versus transformed to bulk cross section

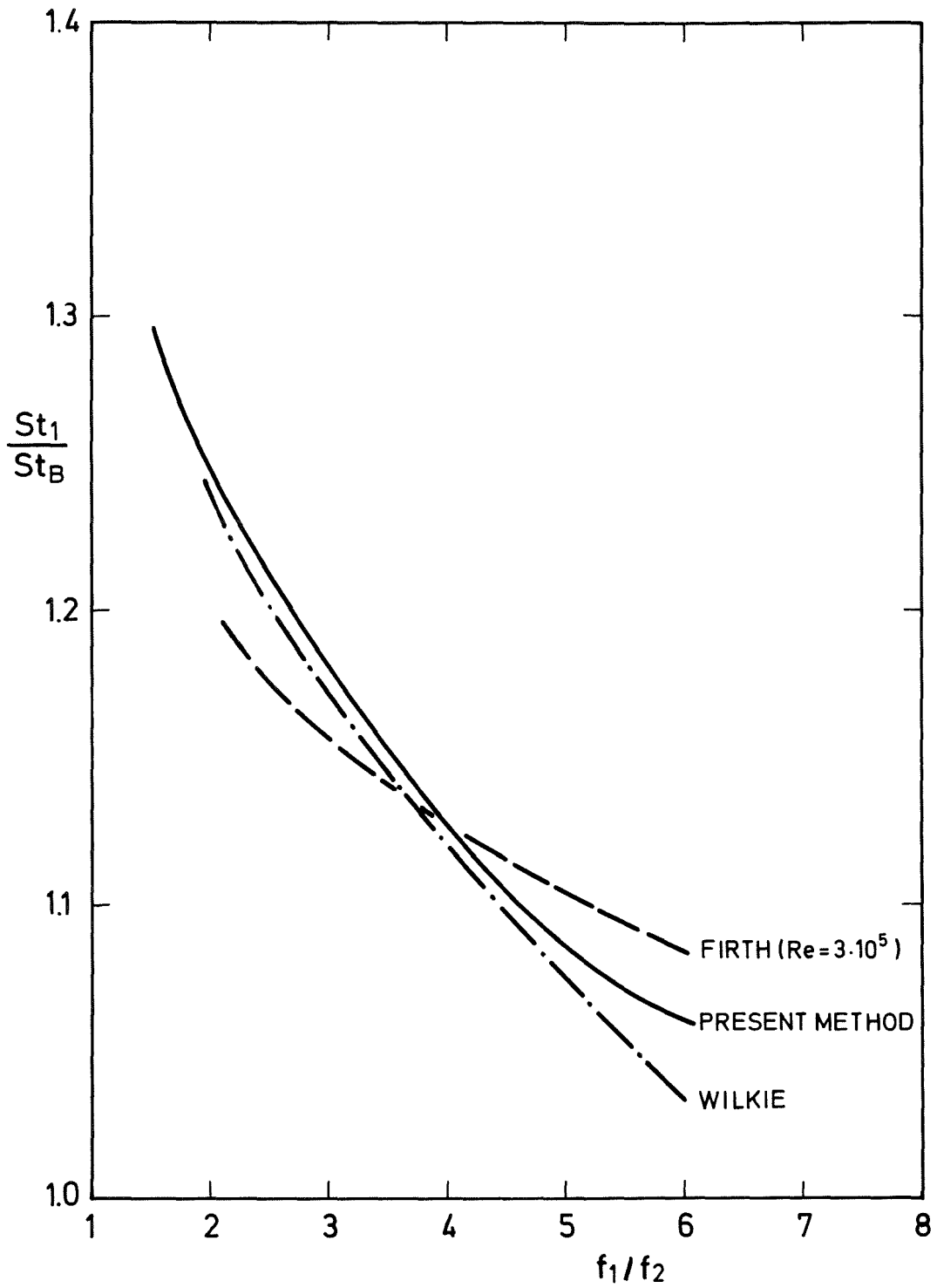


Fig.33: Ratio of transformed to bulk Stanton number versus ratio of friction factors of rough to smooth zones

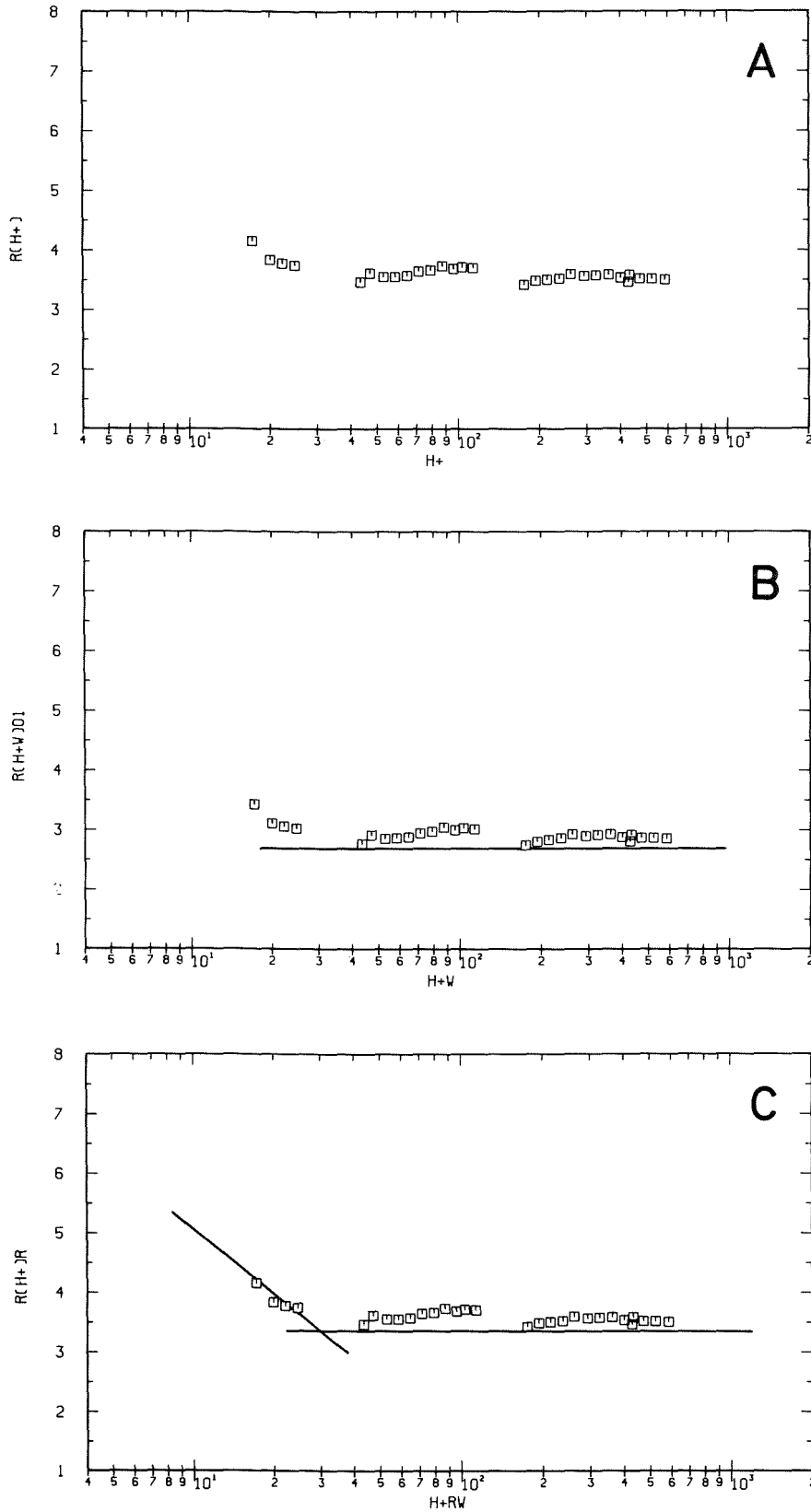


Fig.34: Roughness parameters of the velocity profile versus roughness Reynolds number: rod 18 in 33, helium

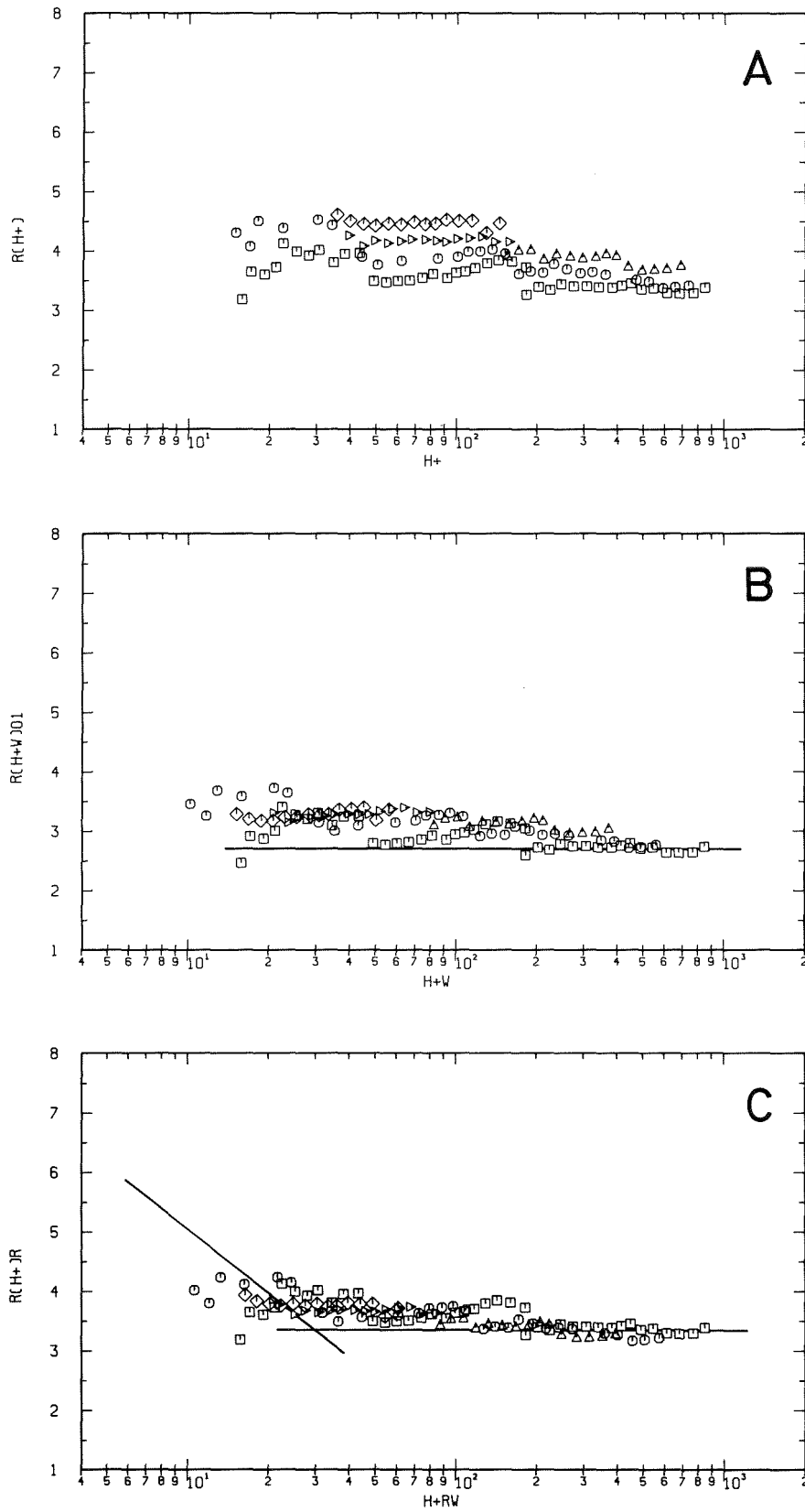


Fig.35: Roughness parameters of the velocity profile versus roughness Reynolds number: rod 19 in 33, helium

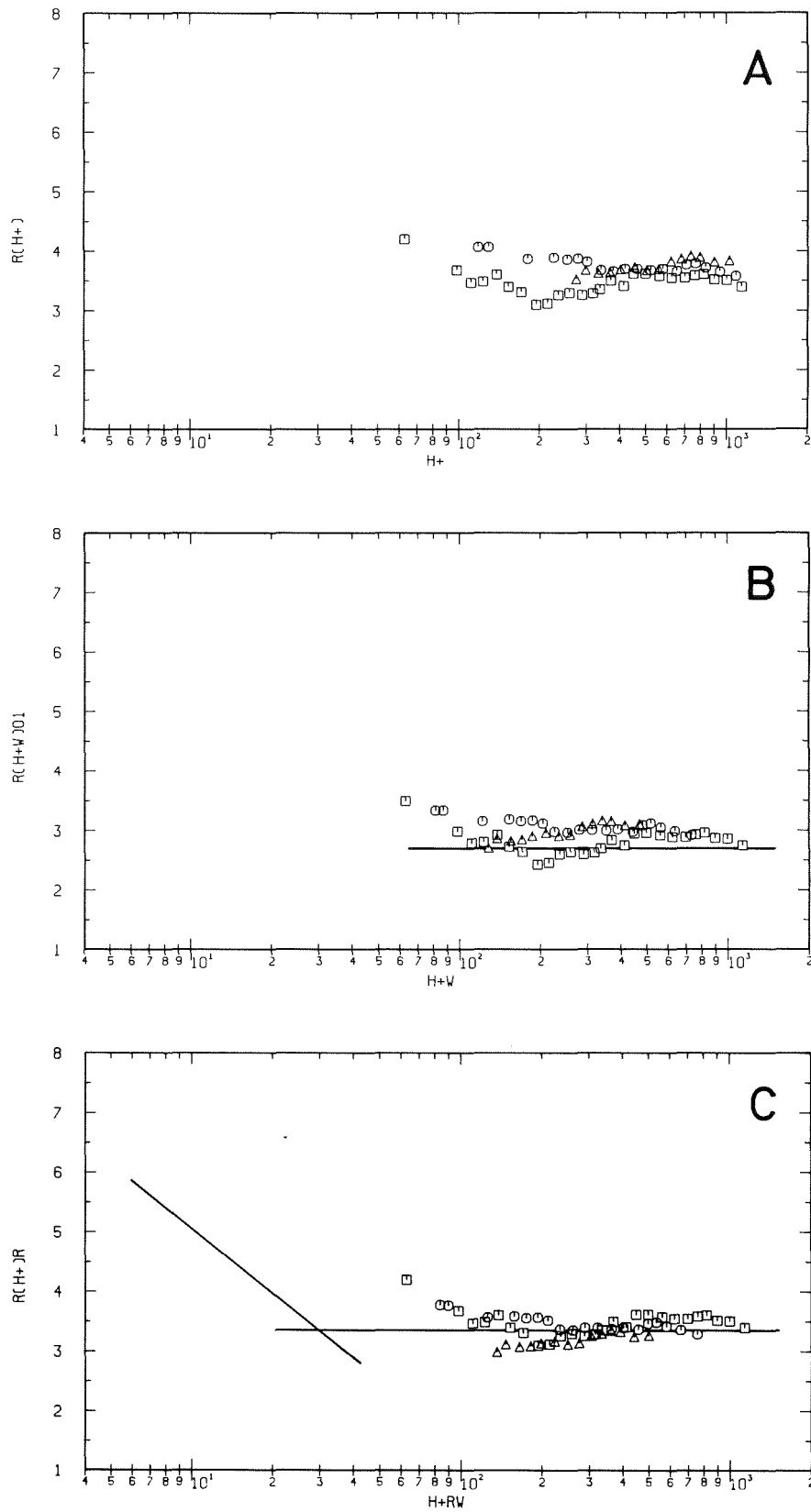


Fig.36: Roughness parameters of the velocity profile versus roughness Reynolds number: rod 19 in 33, nitrogen



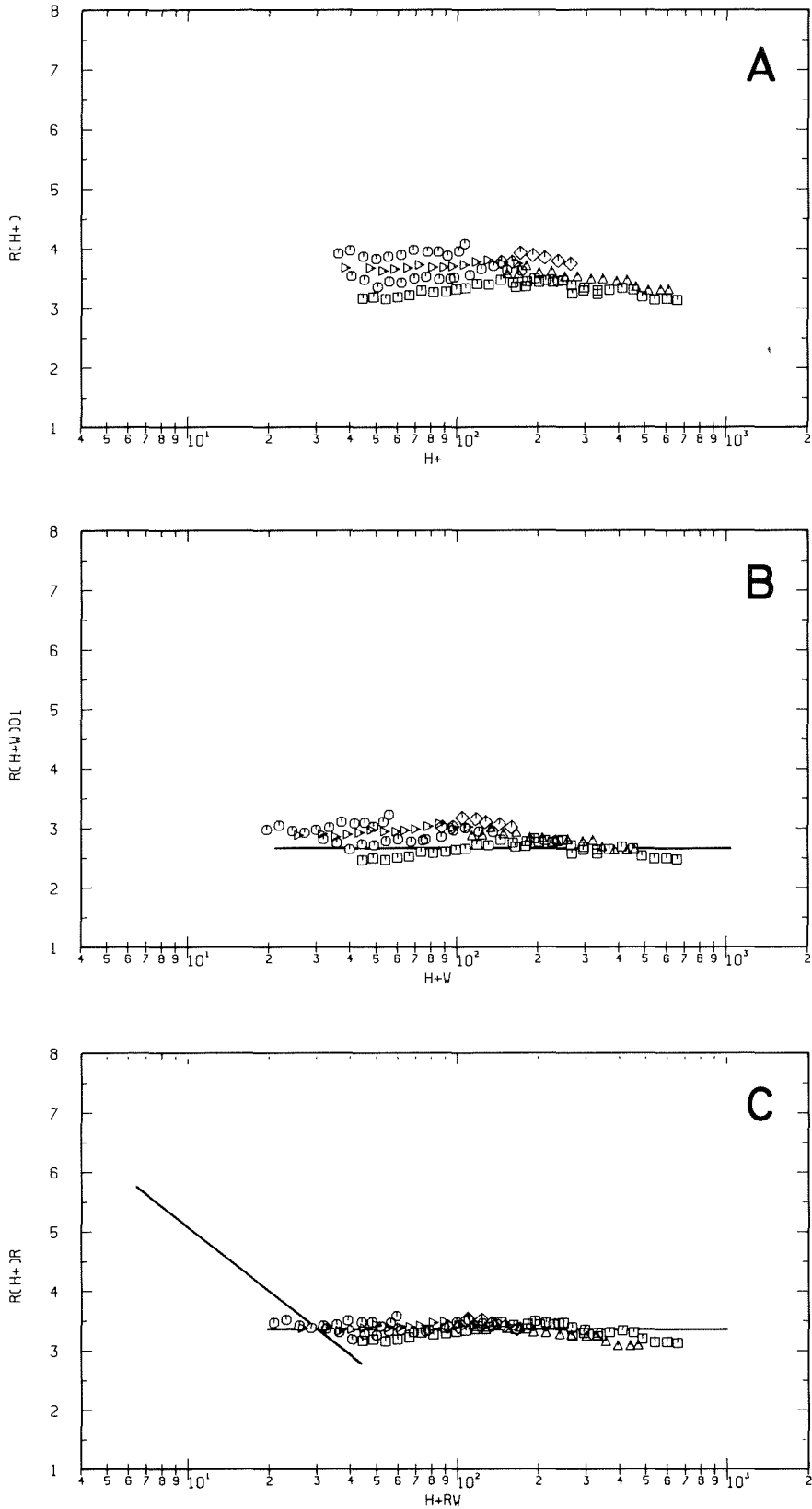


Fig.37: Roughness parameters of the velocity profile versus roughness Reynolds number: rod 20 in 33, helium

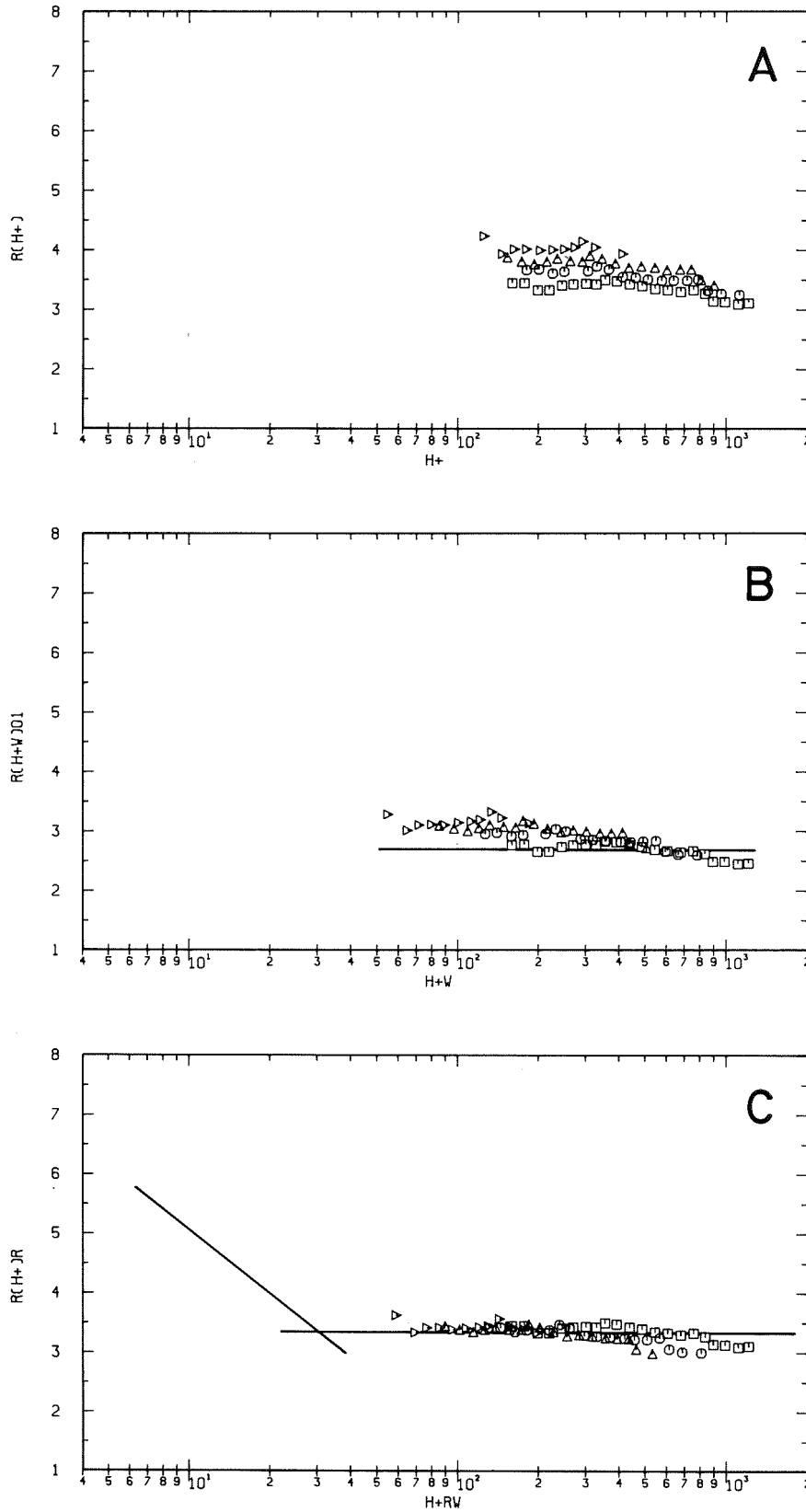


Fig.38: Roughness parameters of the velocity profile versus roughness Reynolds number: rod 20 in 33, nitrogen

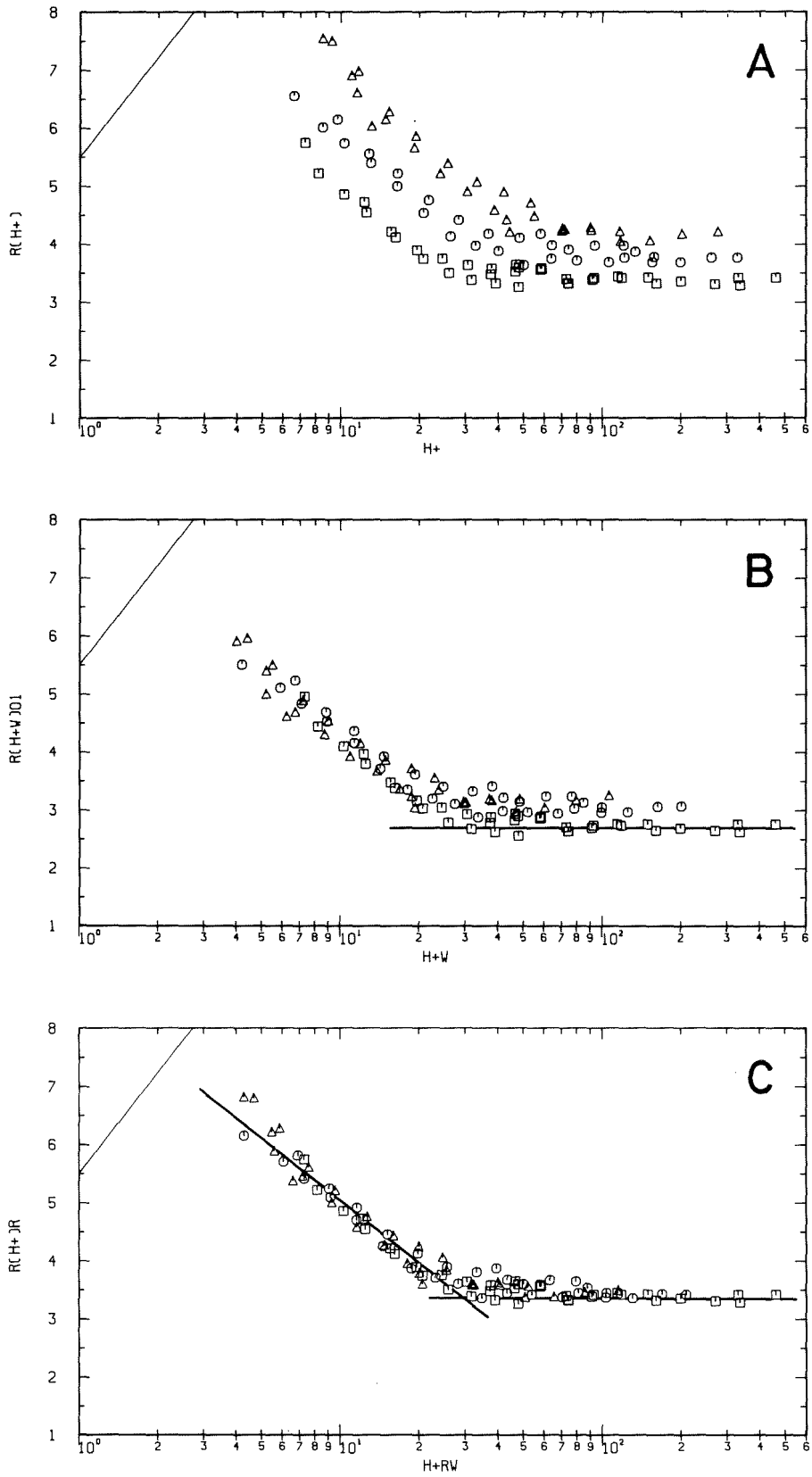


Fig.39: Roughness parameters of the velocity profile versus roughness Reynolds number: rod 20 in 33, air

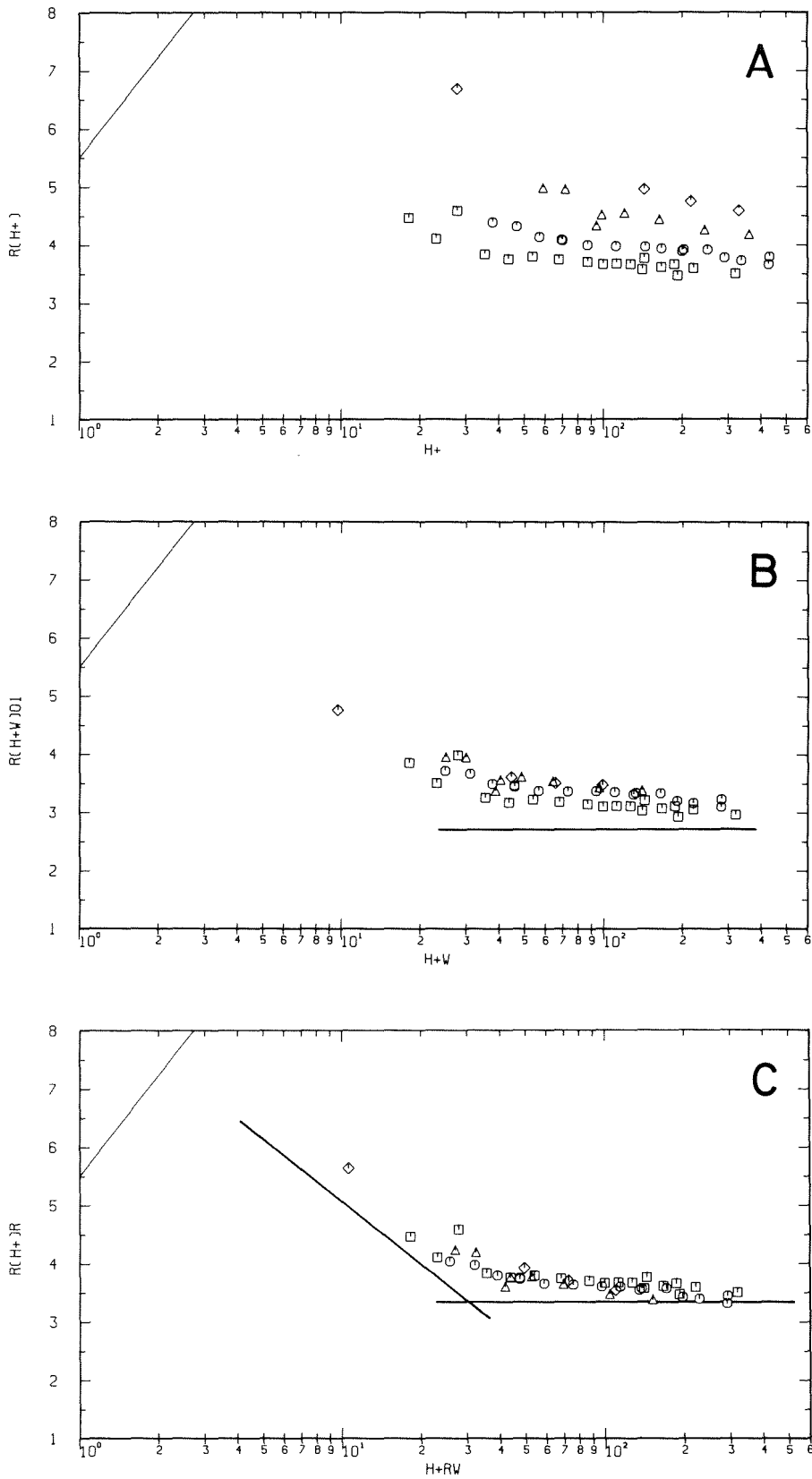


Fig.40: Roughness parameters of the velocity profile versus roughness Reynolds number: rod 18 in 40, air

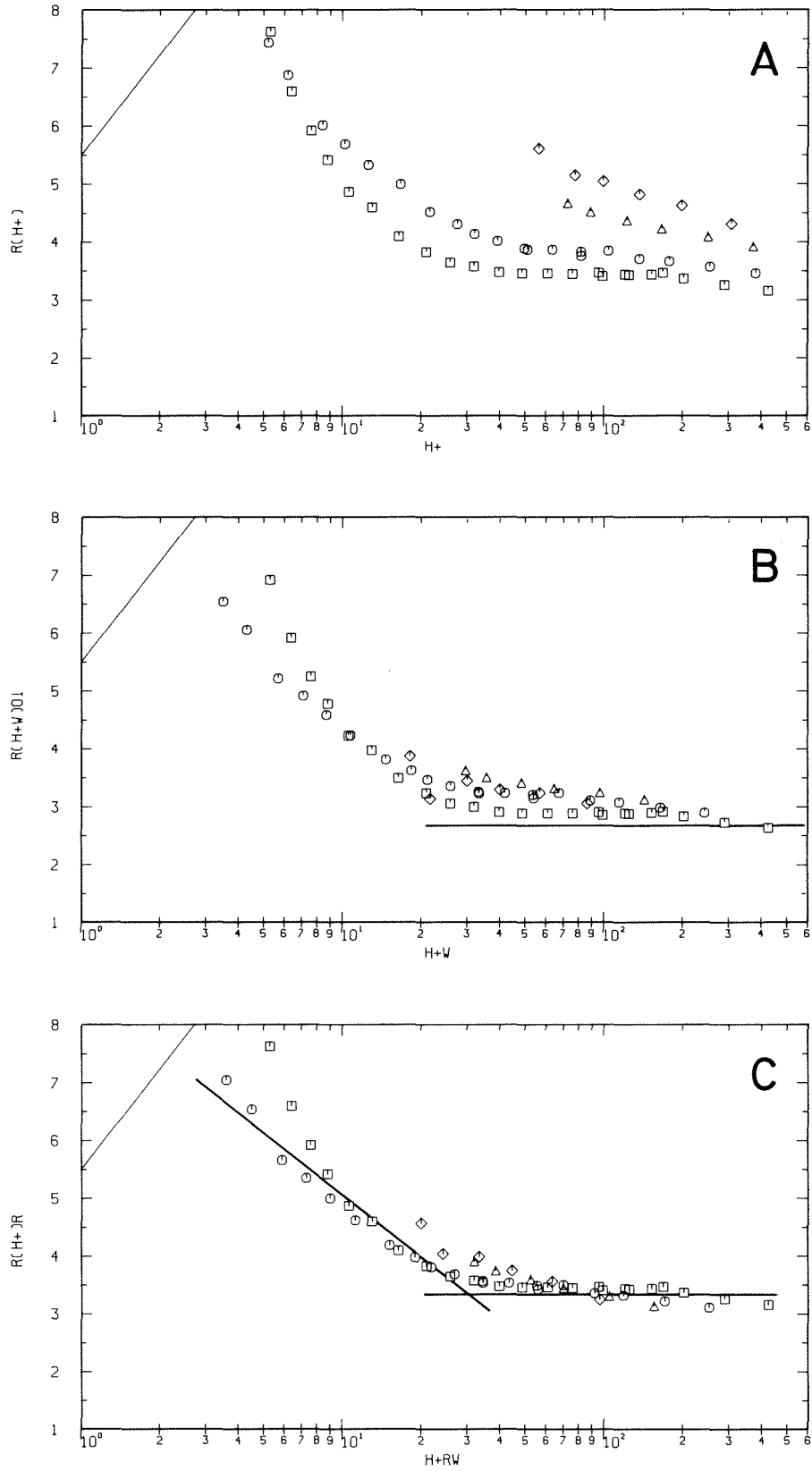


Fig.41: Roughness parameters of the velocity profile versus roughness Reynolds number: rod 19 in 40, air

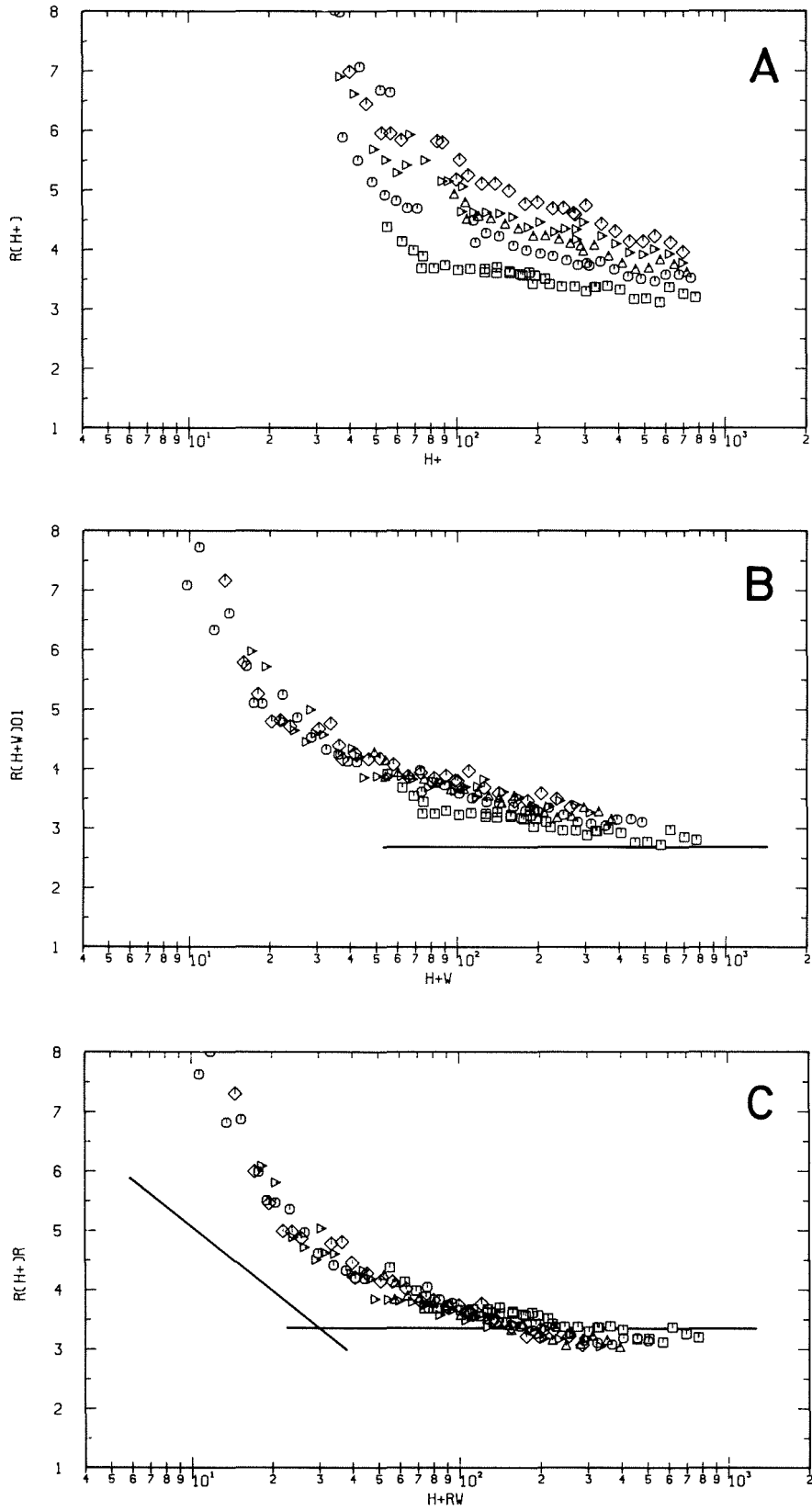


Fig.42: Roughness parameters of the velocity profile versus roughness Reynolds number: rod 19 in 50, helium

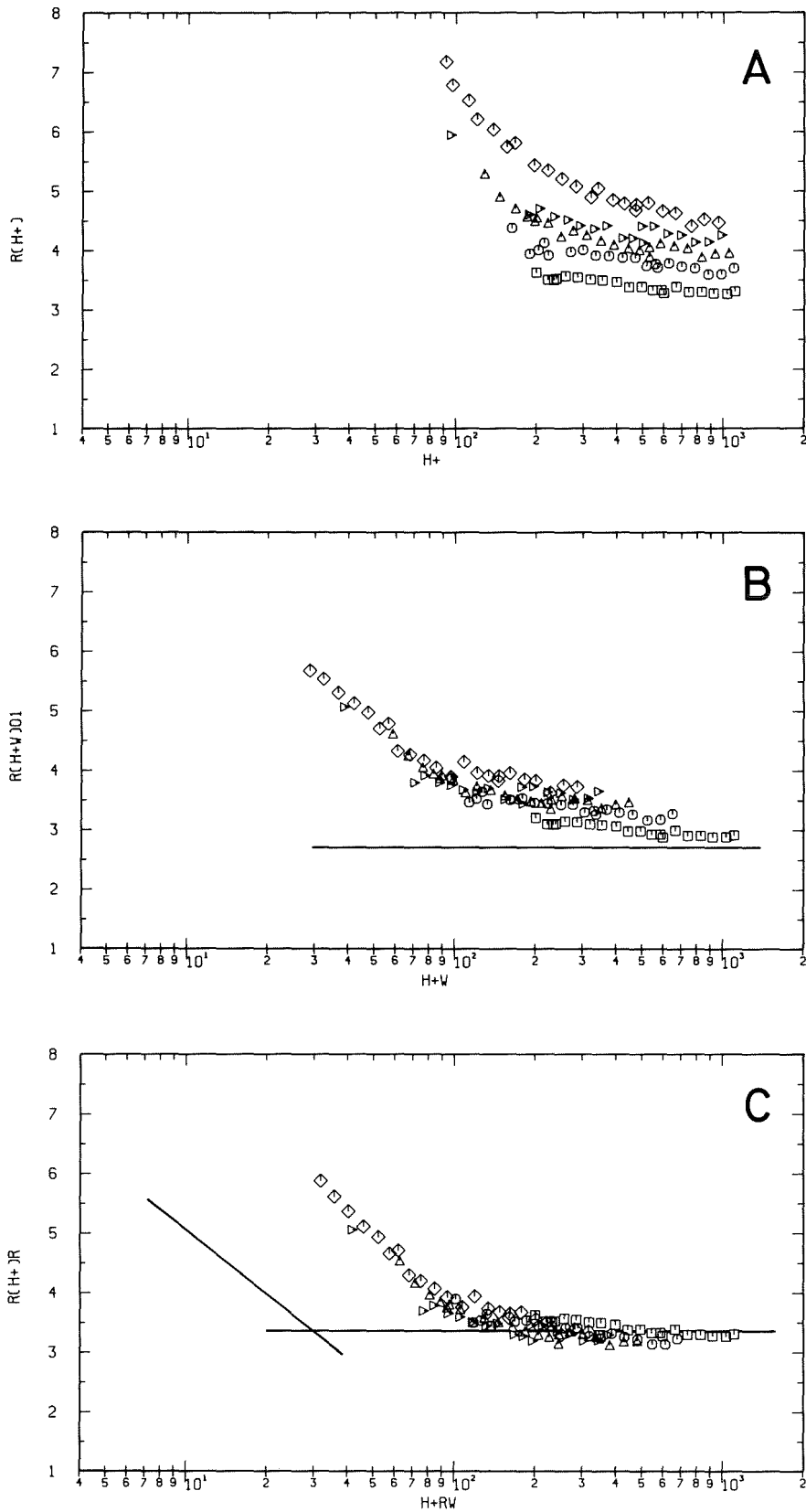


Fig.43: Roughness parameters of the velocity profile versus roughness Reynolds number: rod 18 in 50, nitrogen

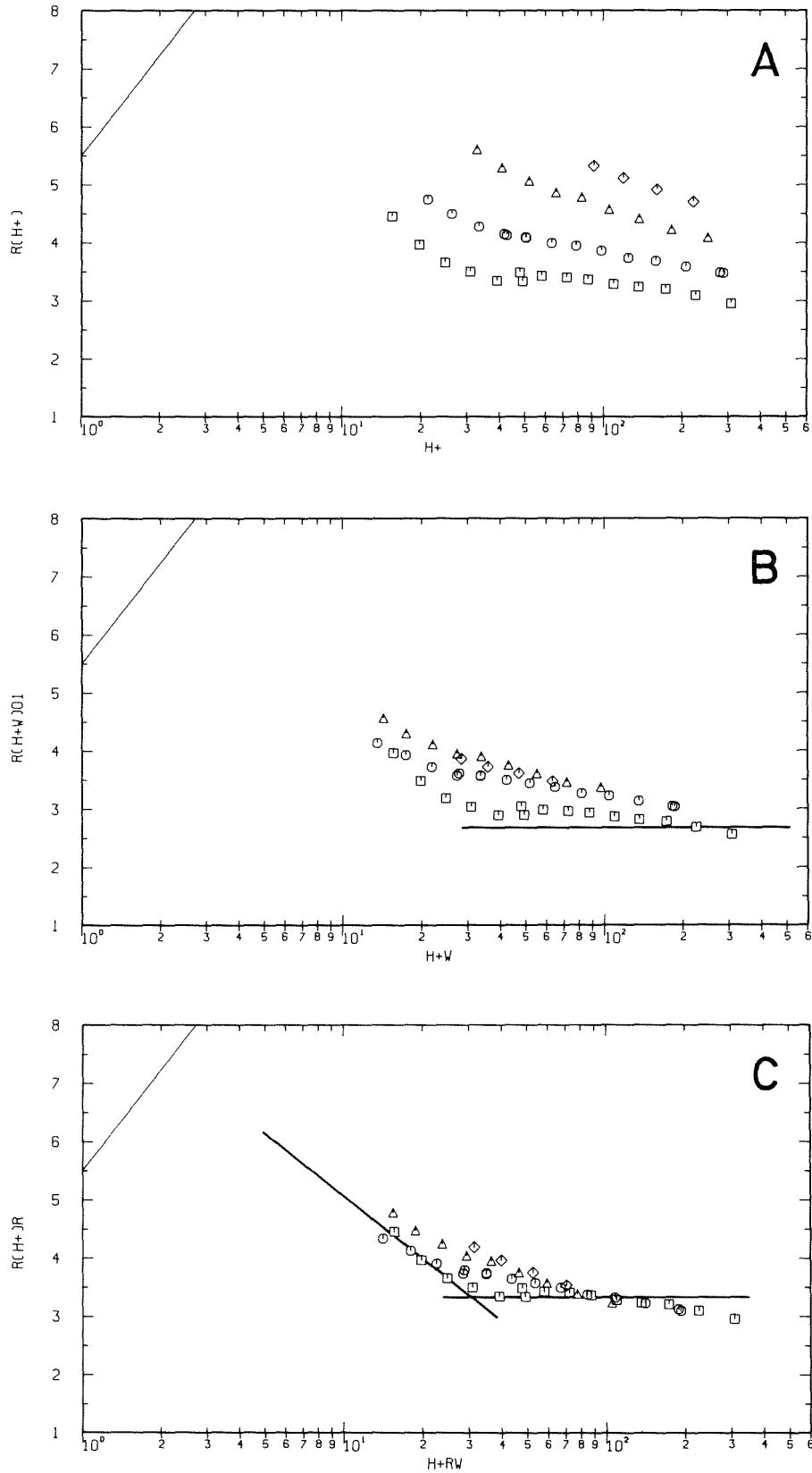


Fig.44: Roughness parameters of the velocity profile versus roughness Reynolds number: rod 18 in 50, air



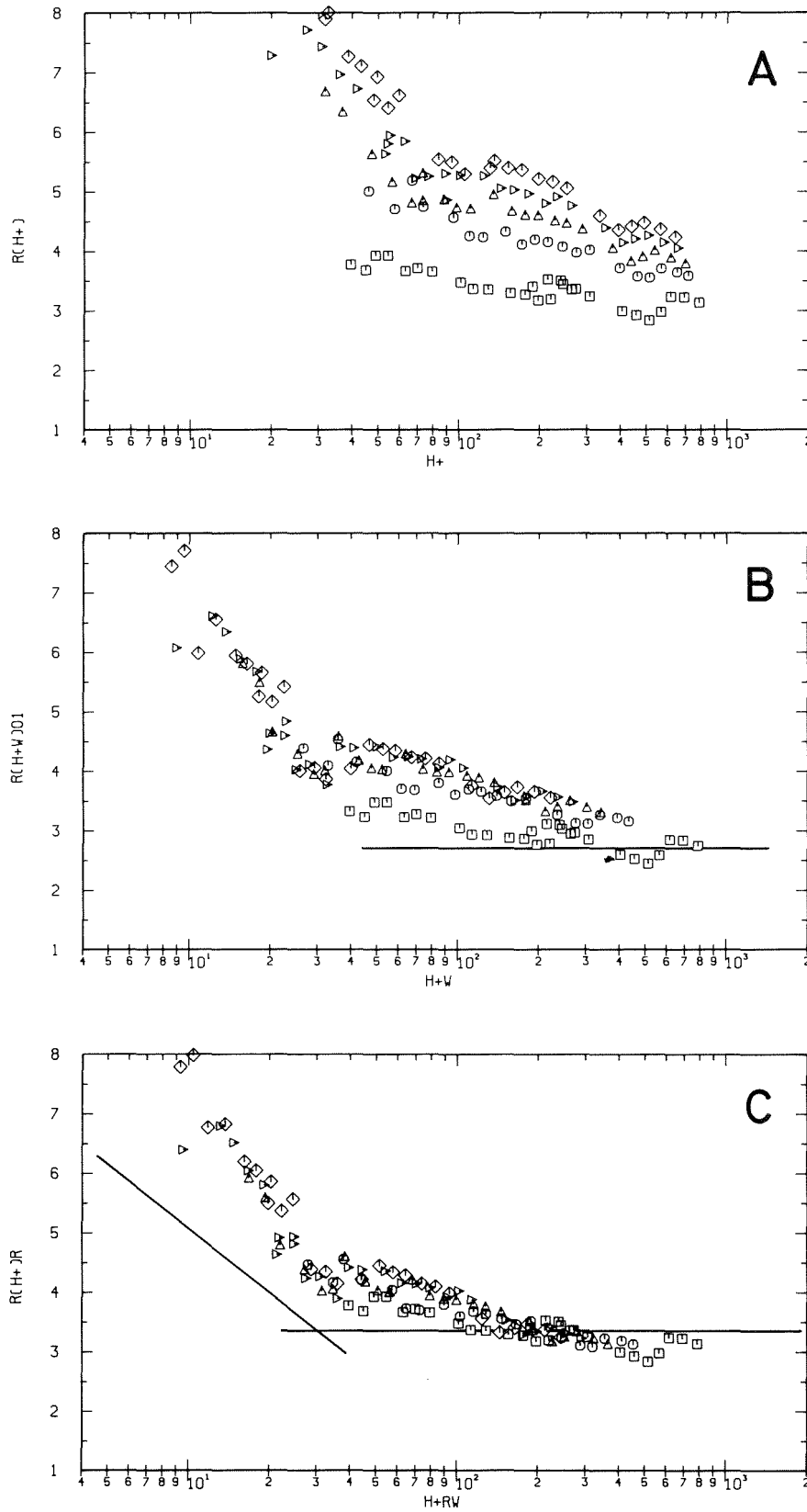


Fig.45: Roughness parameters of the velocity profile versus roughness Reynolds number: rod 19 in 50, helium

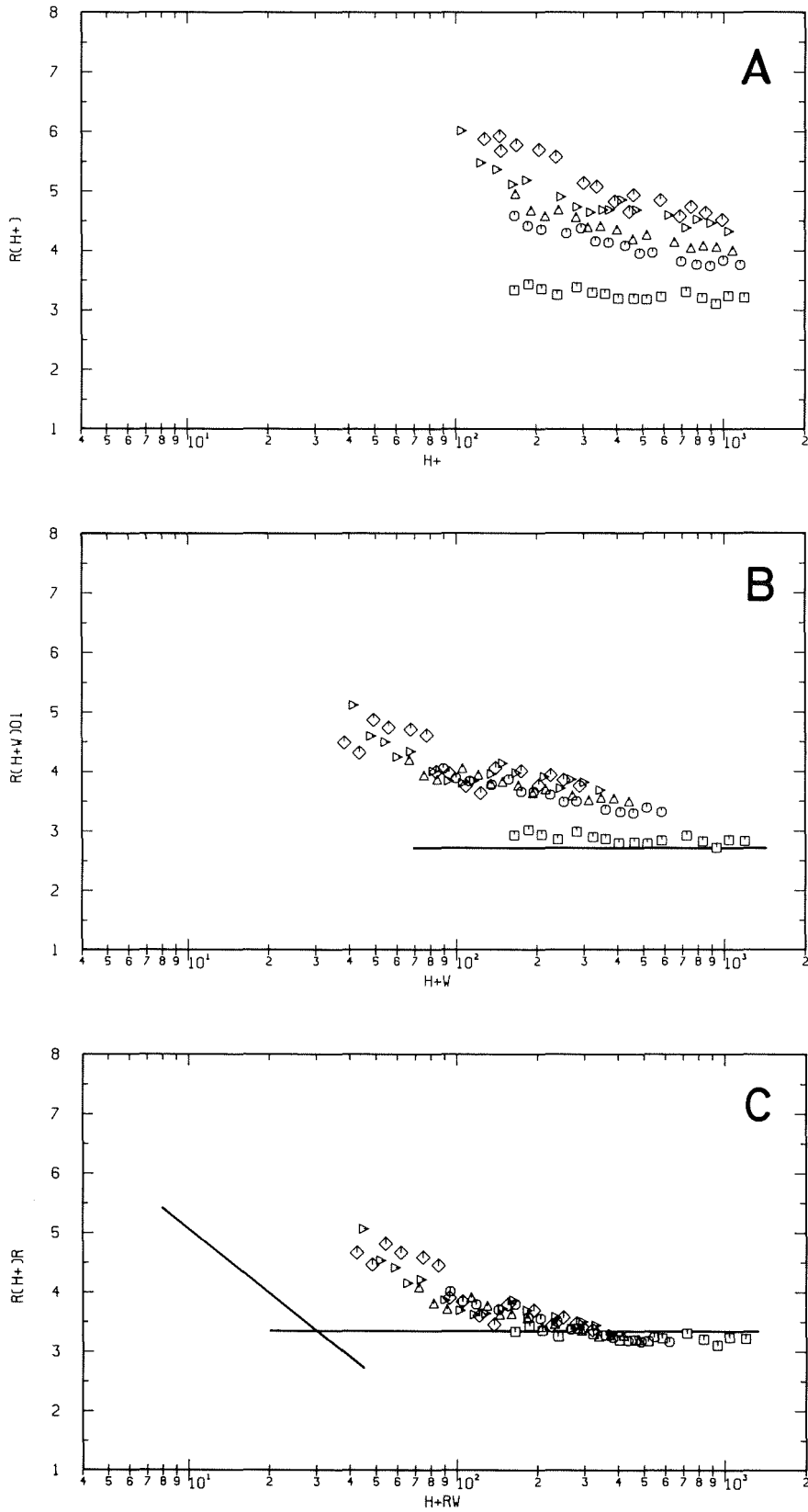


Fig.46: Roughness parameters of the velocity profile versus roughness Reynolds number: rod 19 in 50, nitrogen

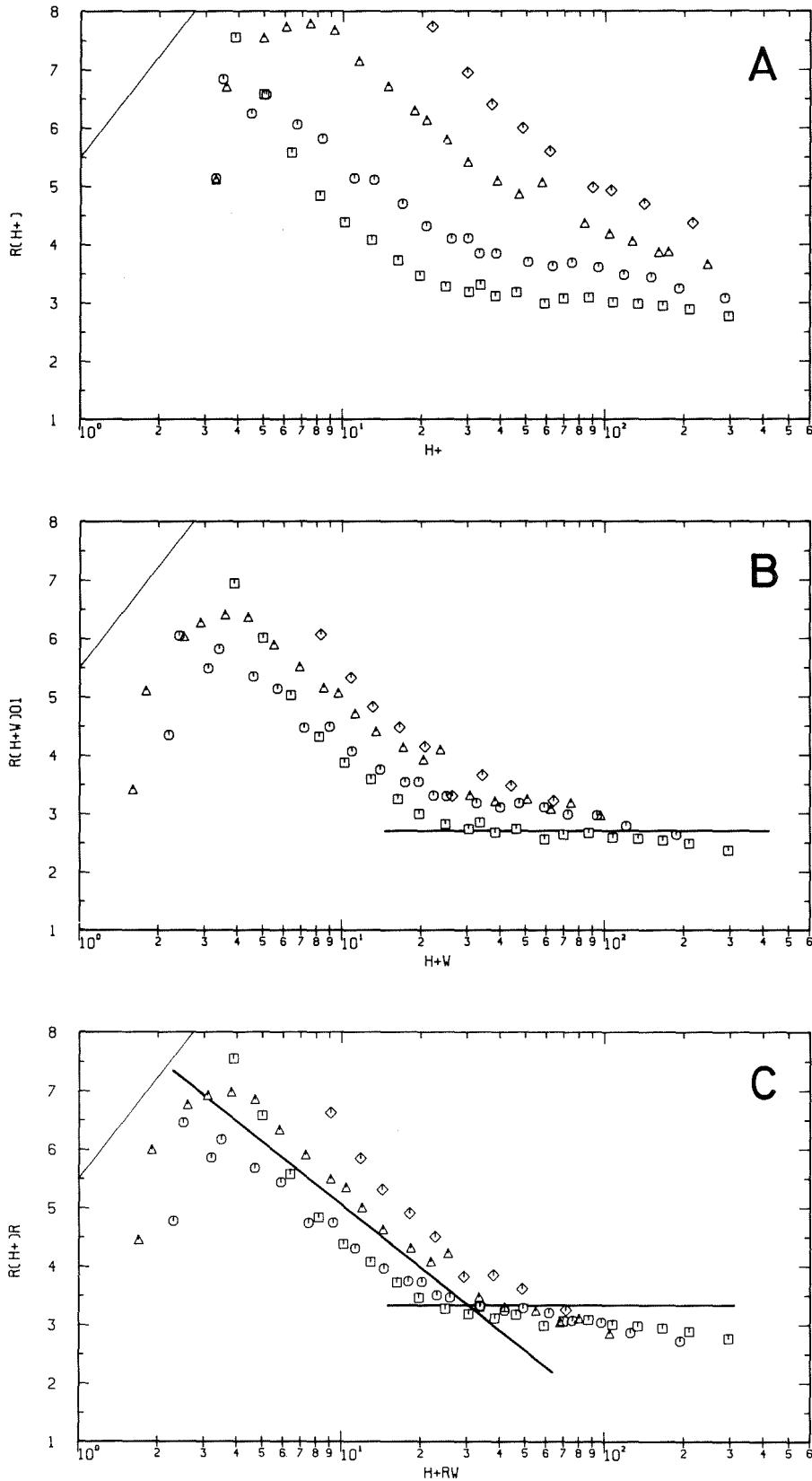


Fig.47: Roughness parameters of the velocity profile versus roughness Reynolds number: rod 19 in 50, air

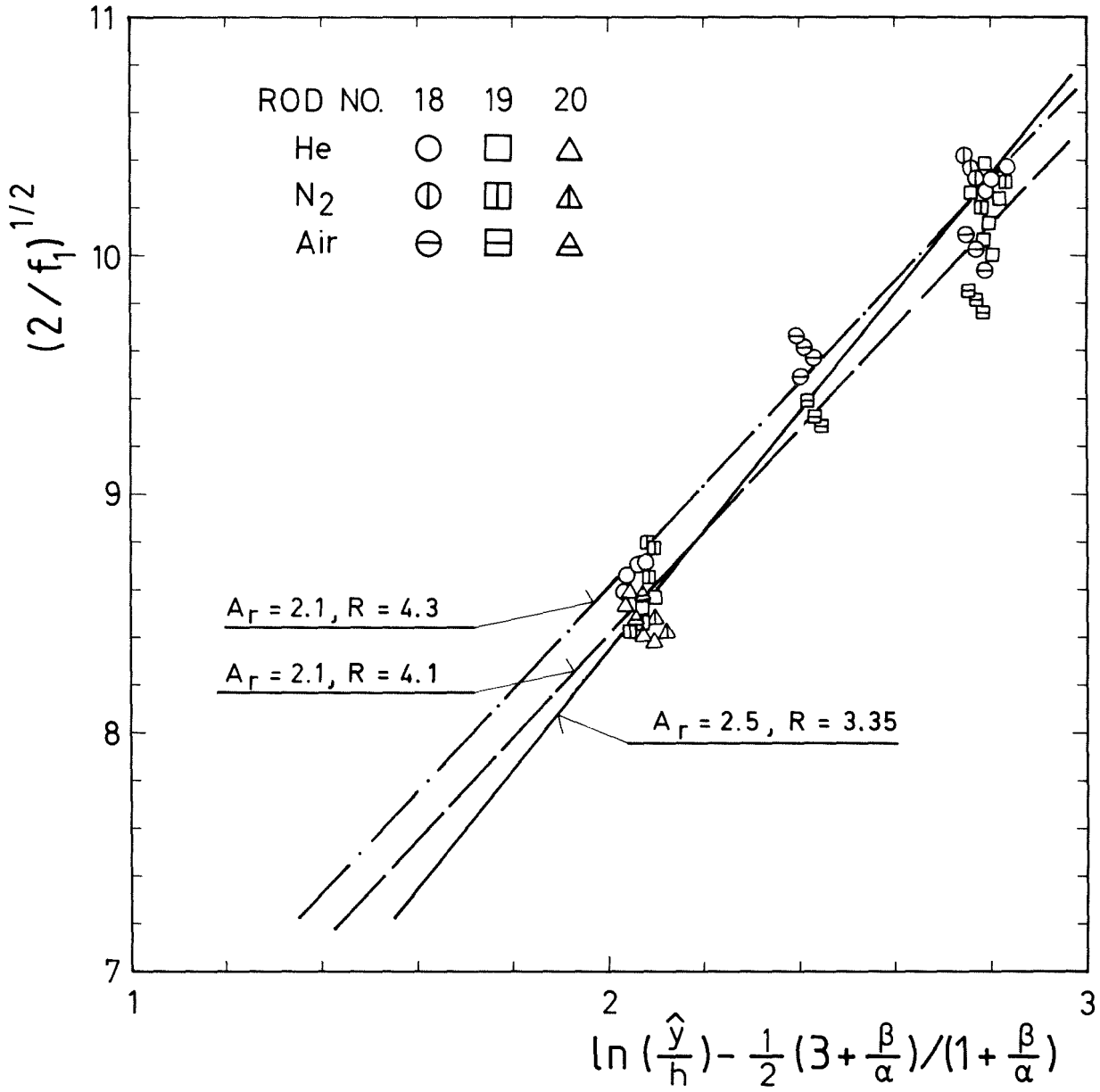


Fig.48: Determination of the constants of the velocity profile by the method of Hodge et al.

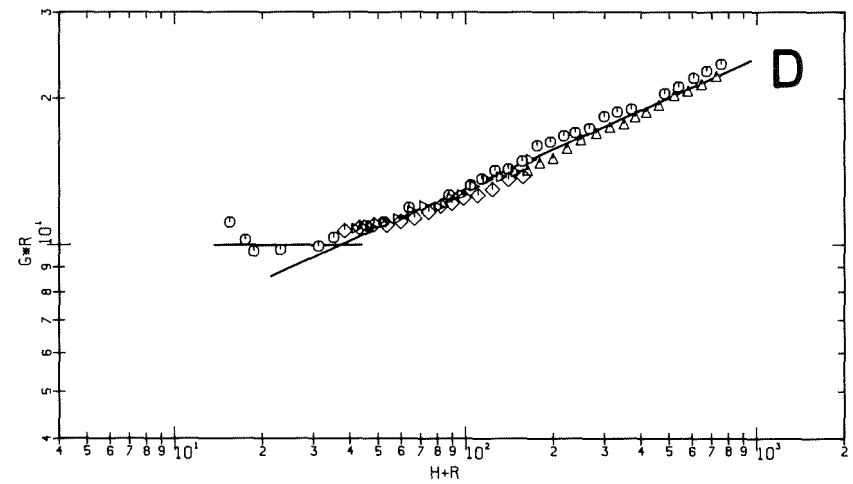
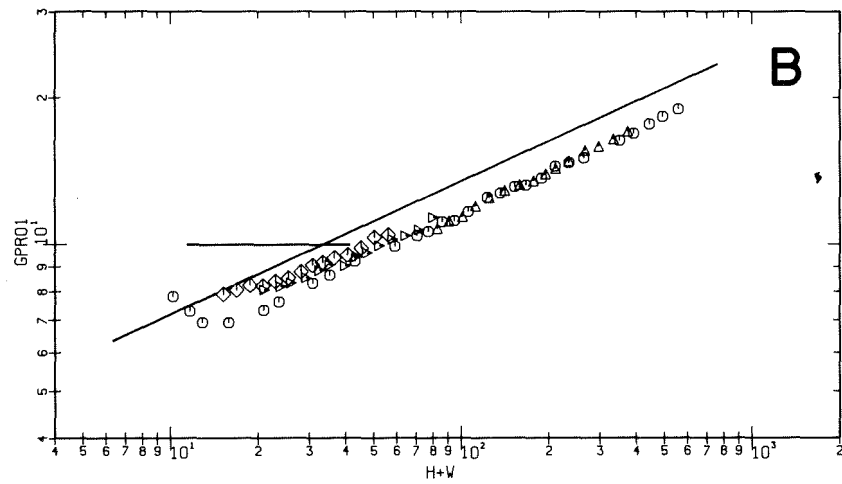
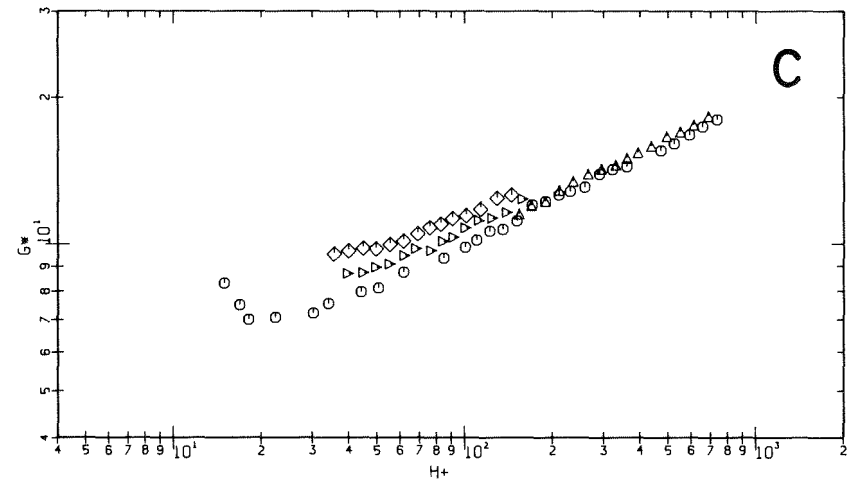
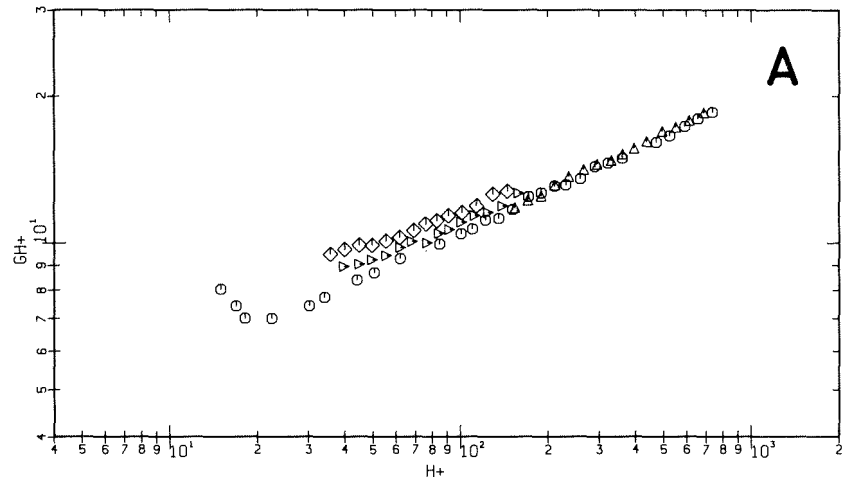


Fig.49: Roughness parameters of the temperature profile versus roughness Reynolds number:  
rod 19 in 33, helium

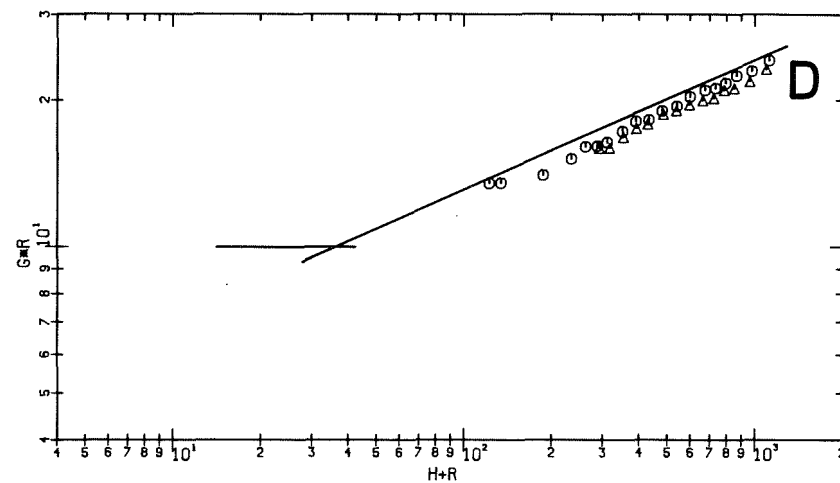
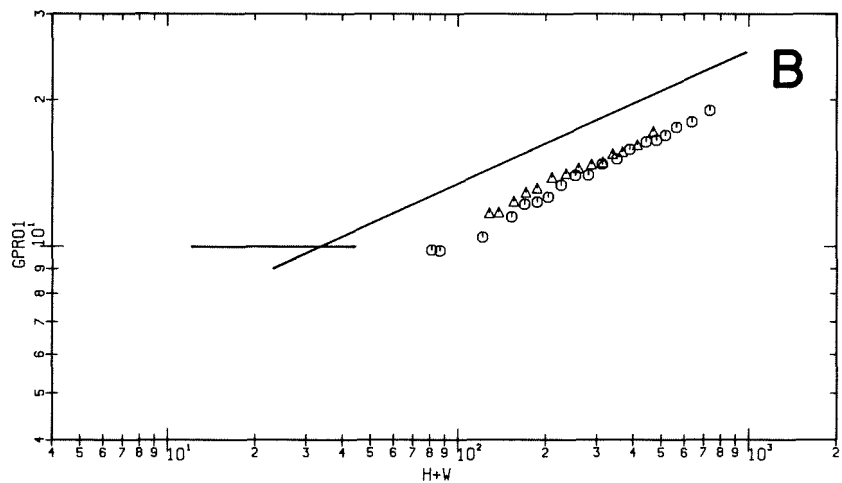
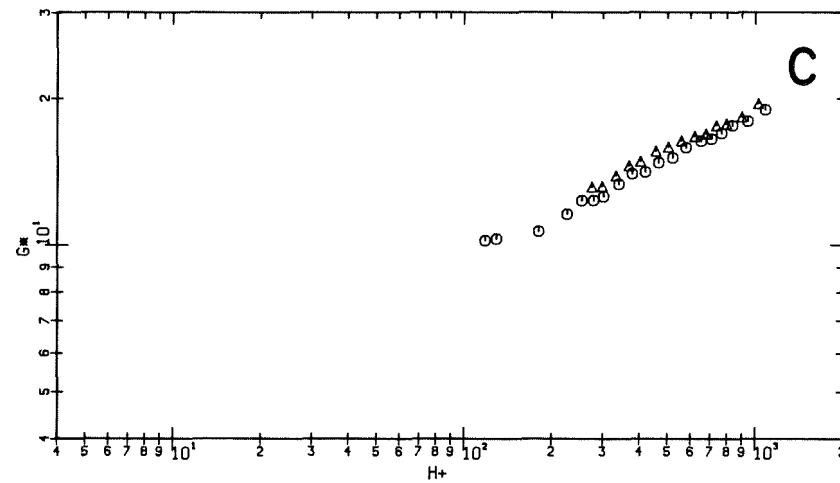
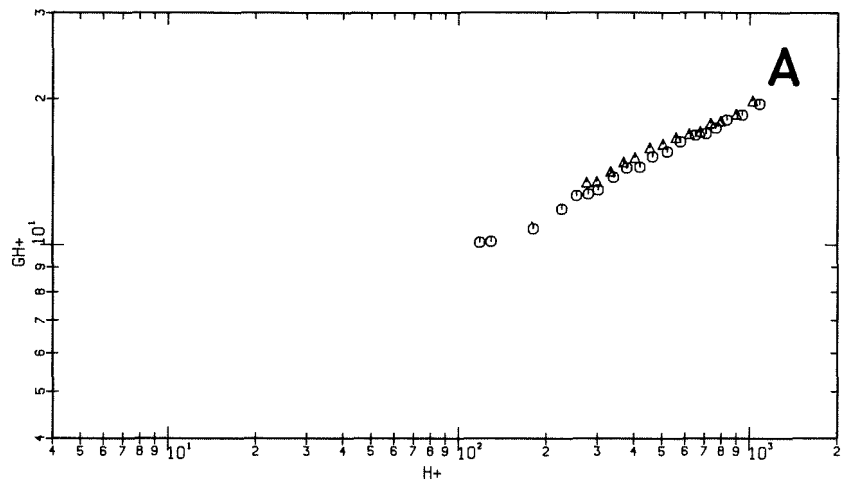


Fig.50: Roughness parameters of the temperature profile versus roughness Reynolds number:  
rod 19 in 33, nitrogen

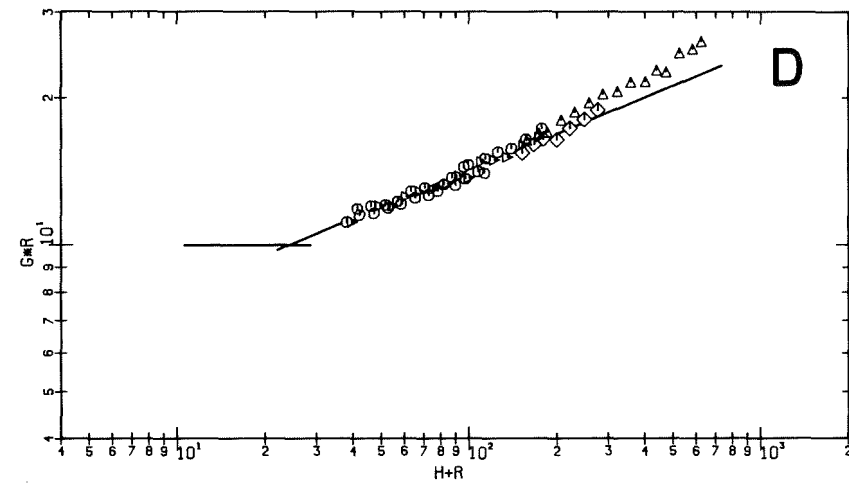
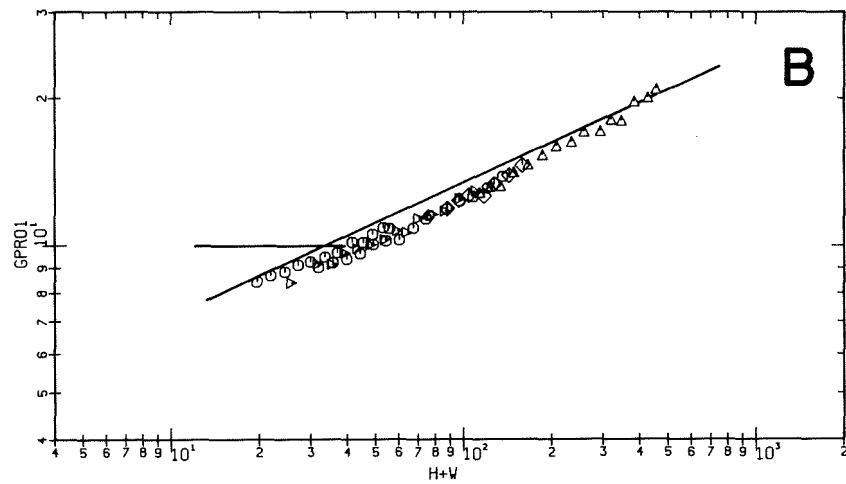
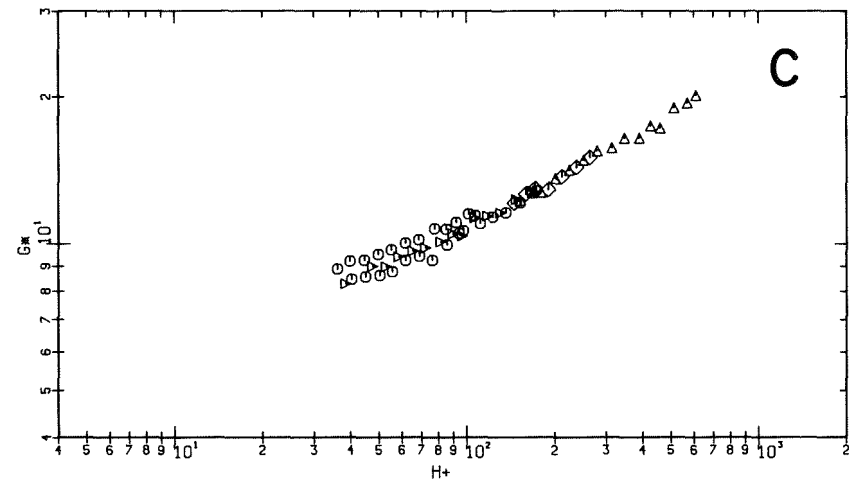
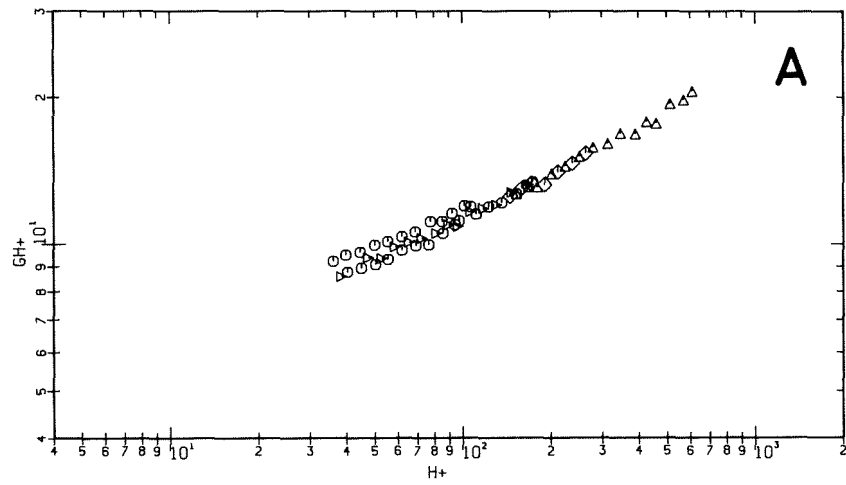


Fig.51: Roughness parameters of the temperature profile versus roughness Reynolds number:  
rod 20 in 33, helium

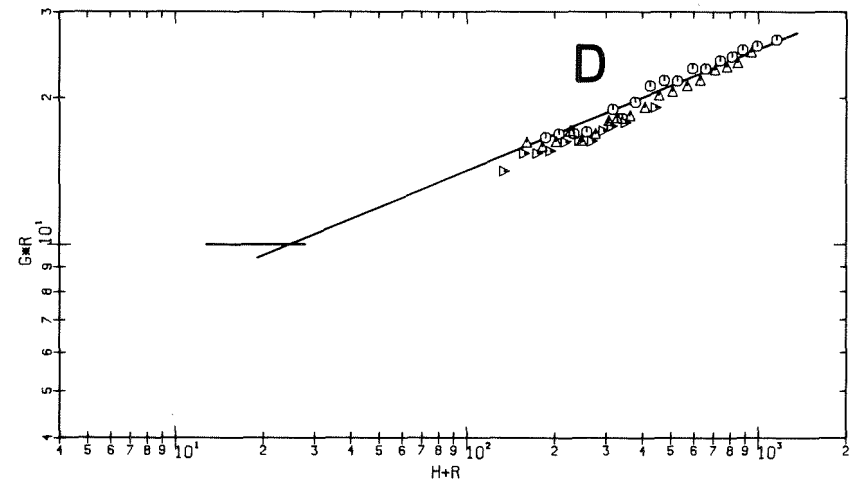
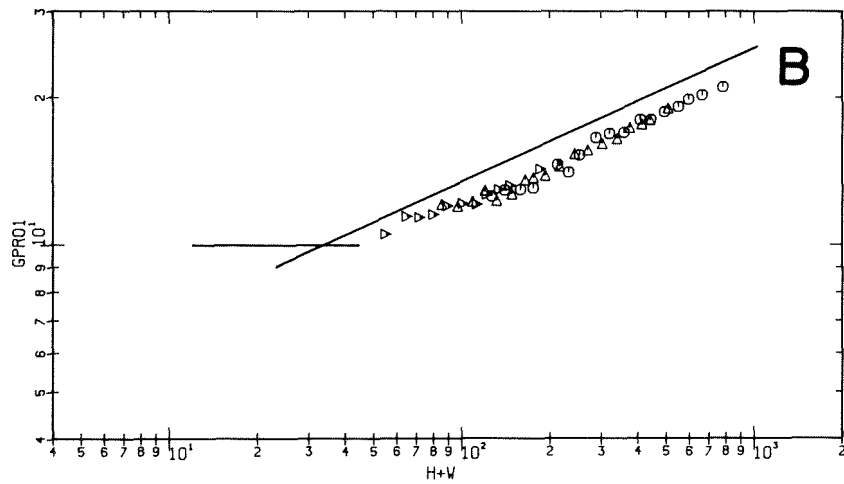
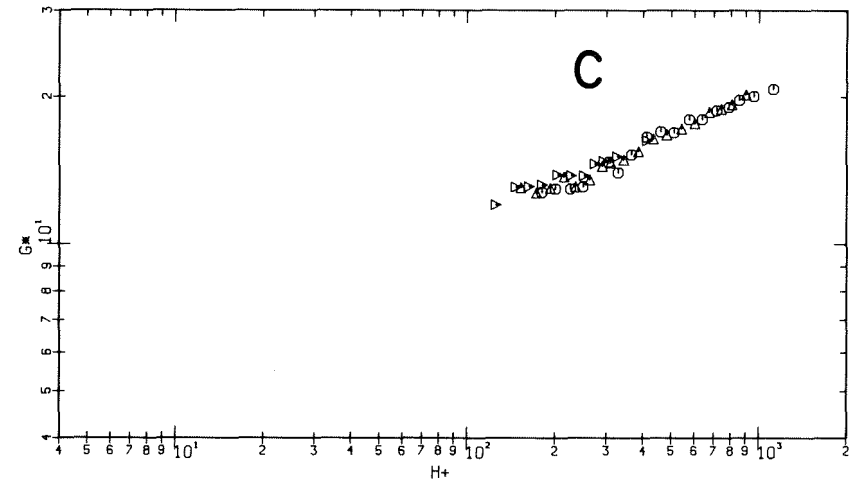
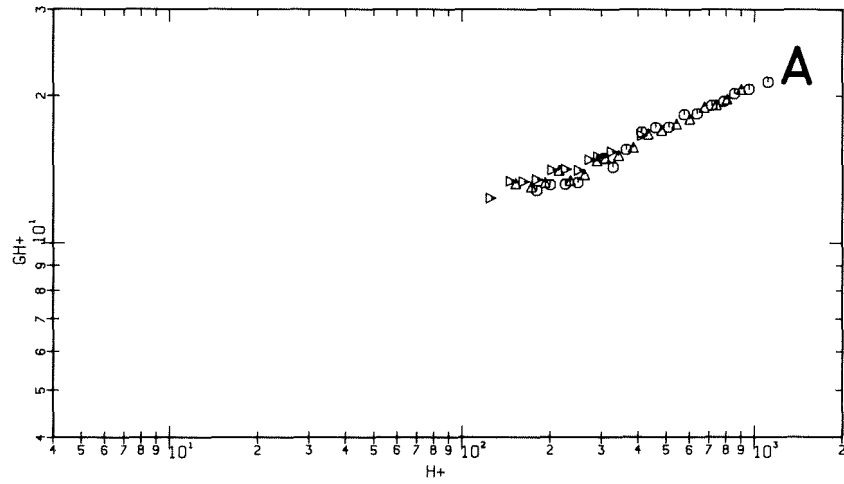


Fig.52: Roughness parameters of the temperature profile versus roughness Reynolds number:  
rod 20 in 33, nitrogen



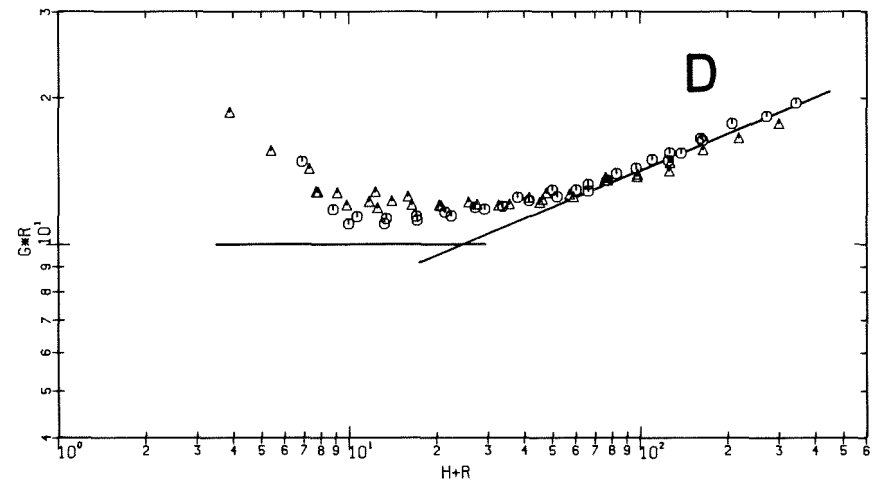
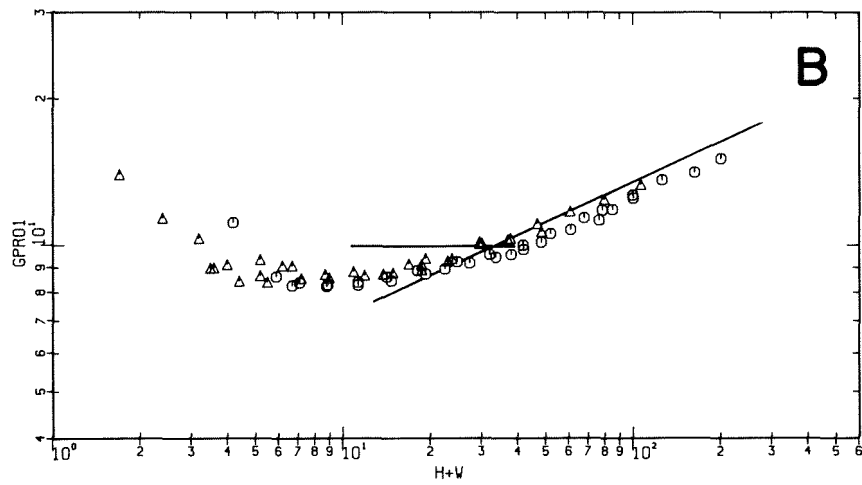
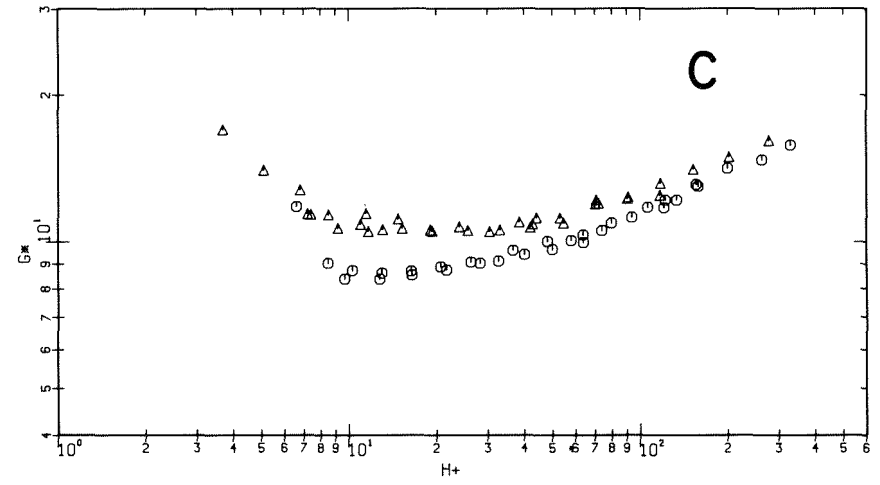
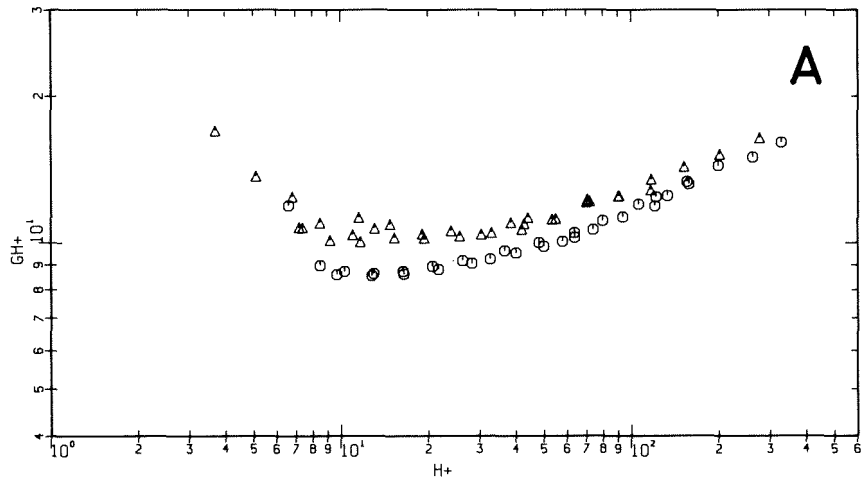


Fig.53: Roughness parameters of the temperature profile versus roughness Reynolds number:  
rod 20 in 33, air

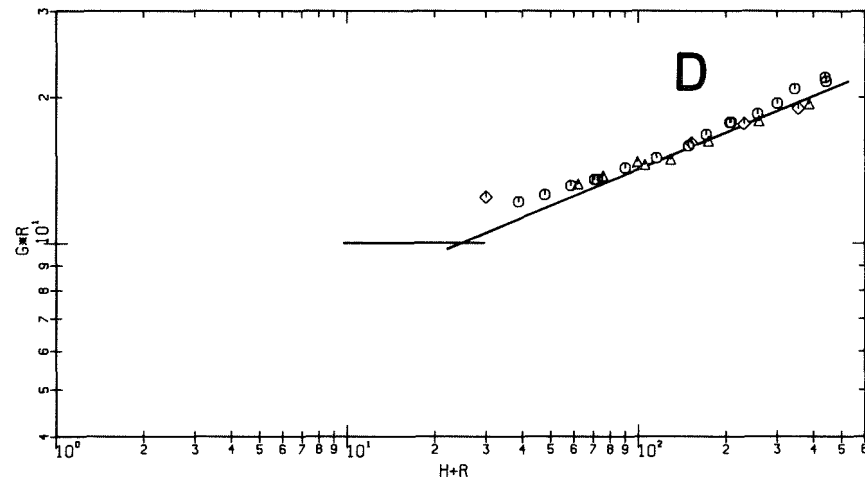
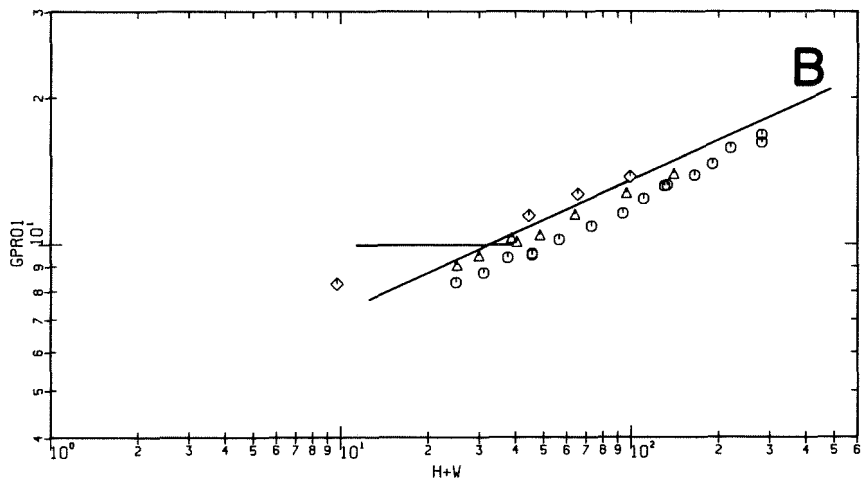
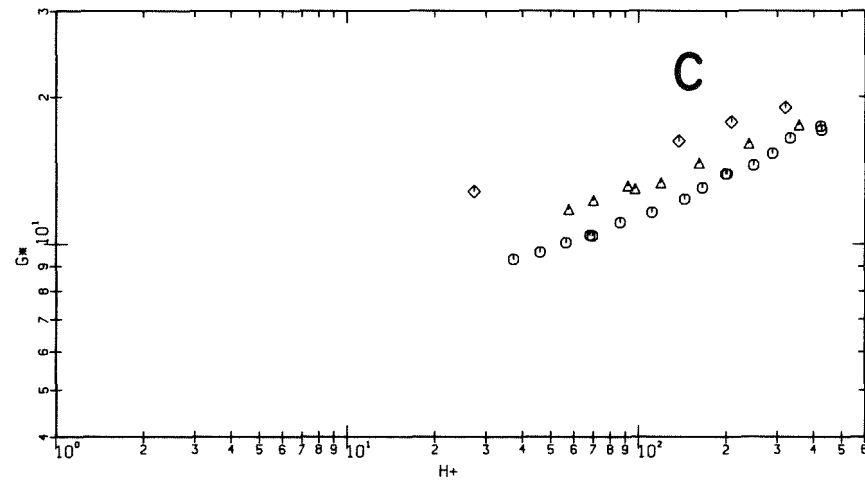
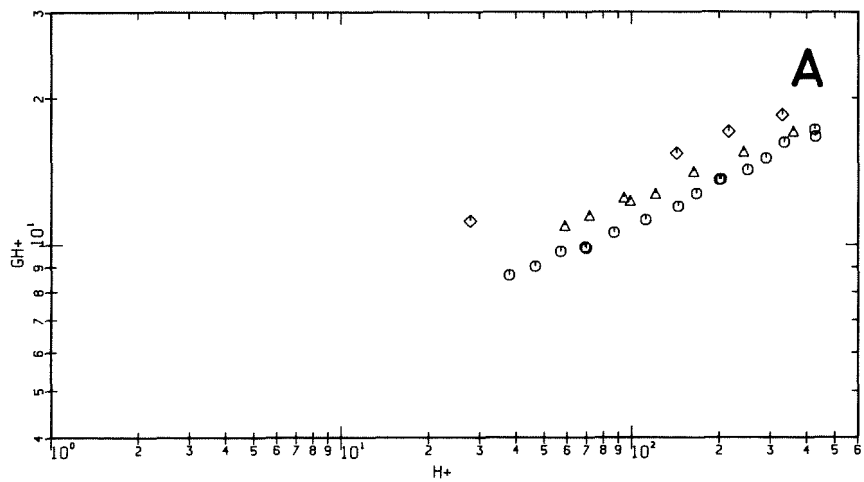


Fig.54: Roughness parameters of the temperature profile versus roughness Reynolds number:  
rod 18 in 40, air

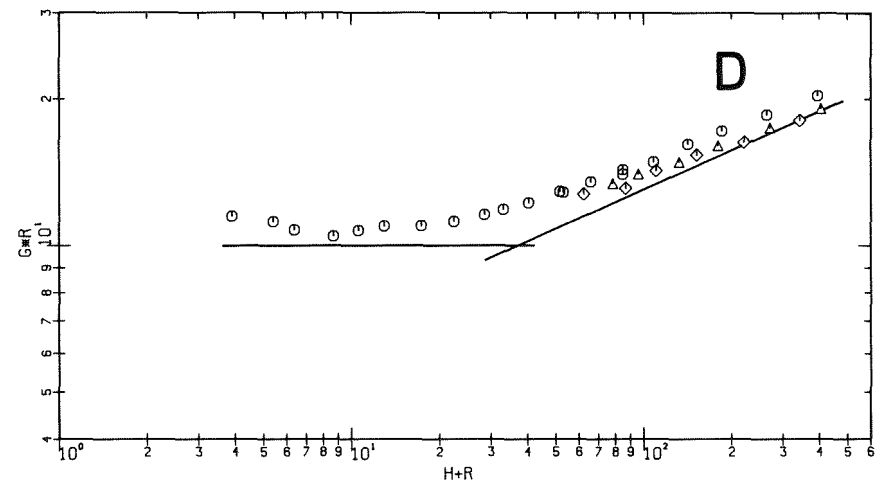
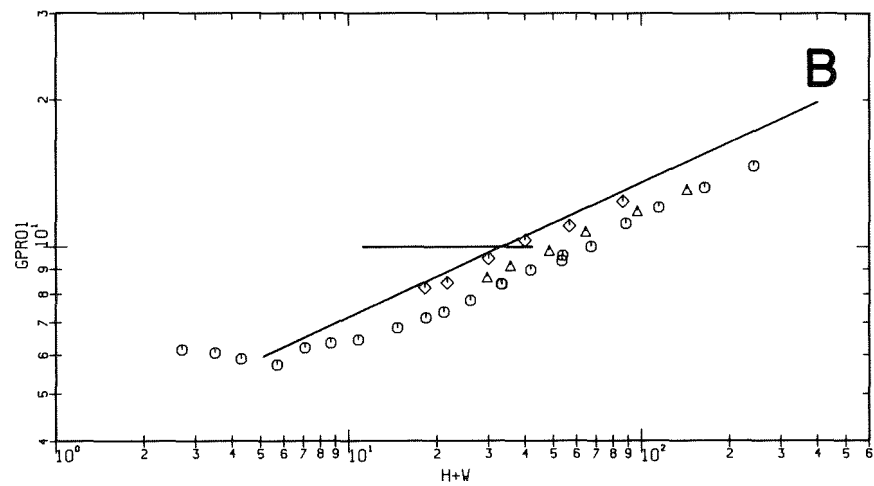
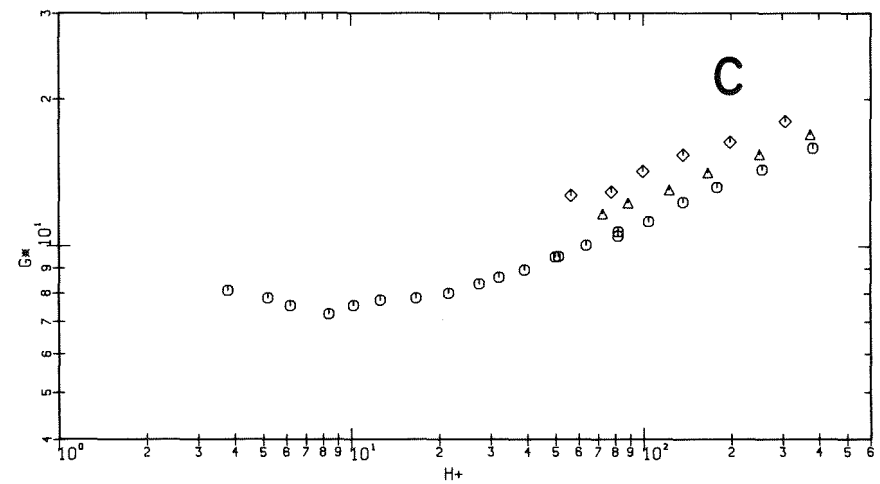
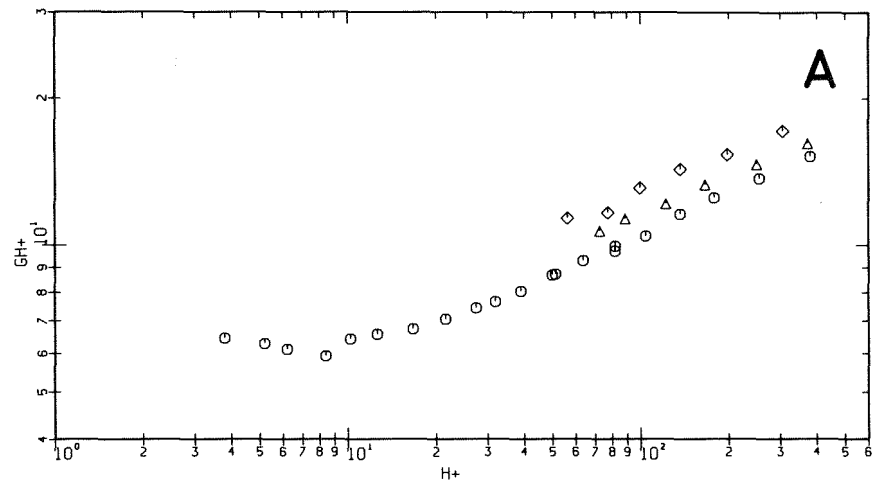


Fig.55: Roughness parameters of the temperature profile versus roughness Reynolds number:  
rod 19 in 40, air

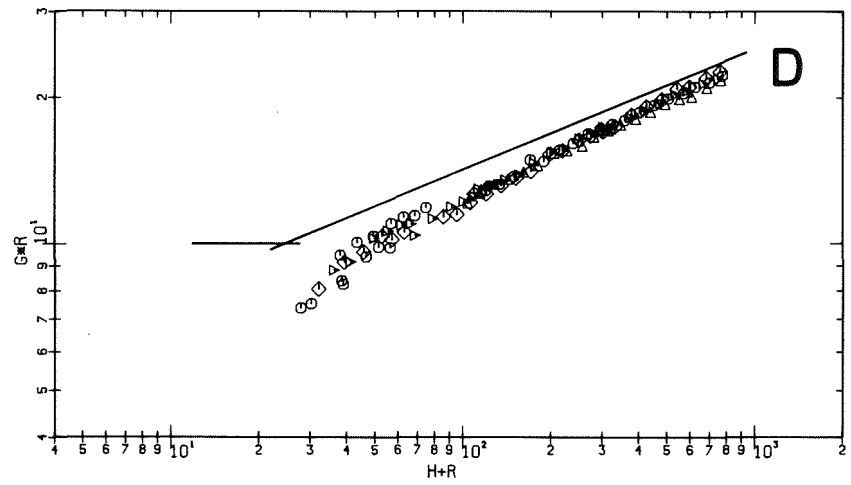
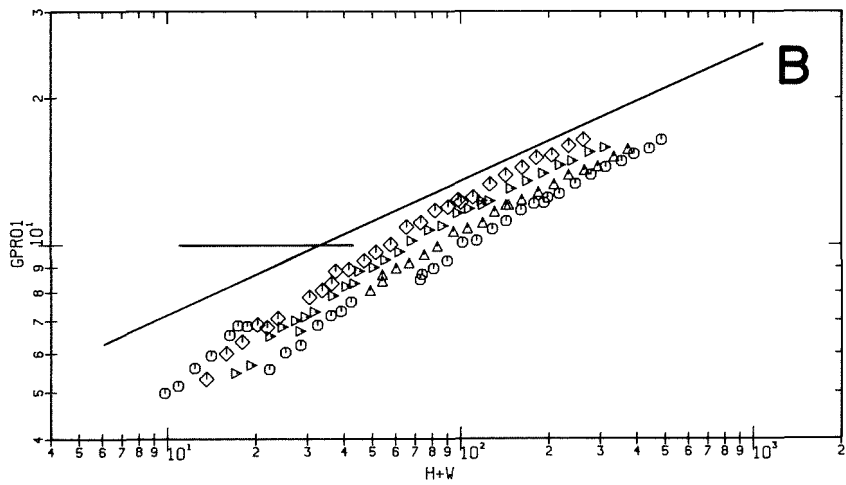
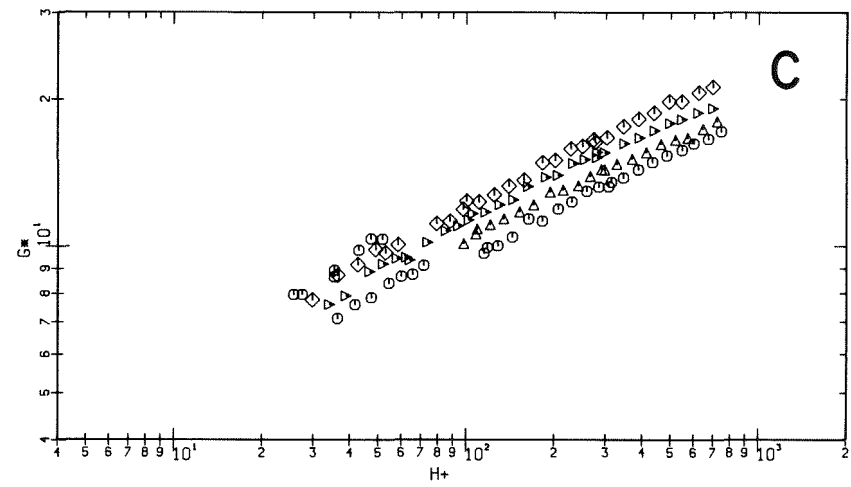
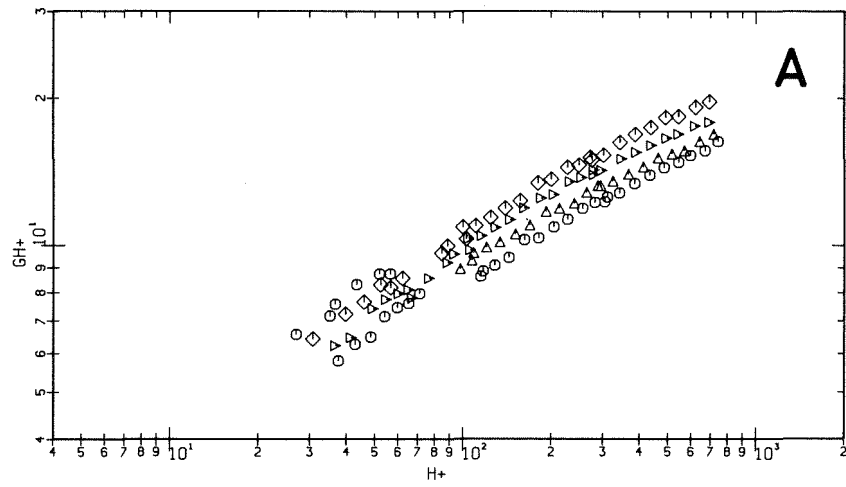


Fig.56: Roughness parameters of the temperature profile versus roughness Reynolds number:  
rod 18 in 50, helium

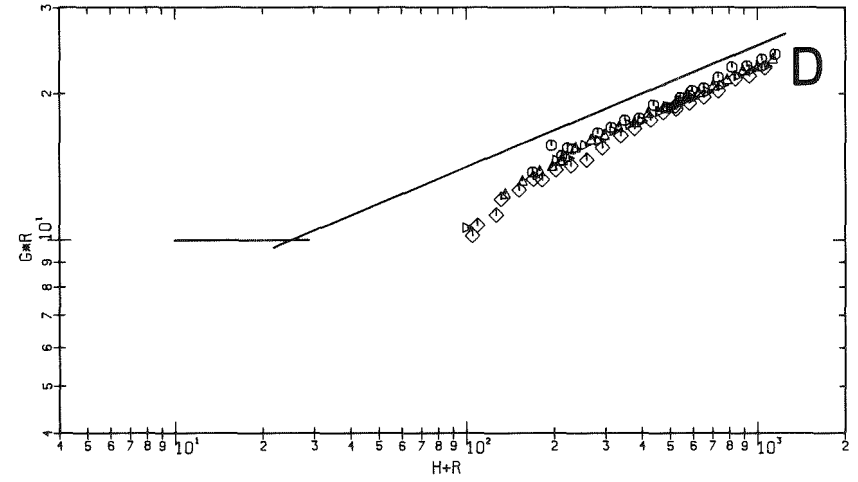
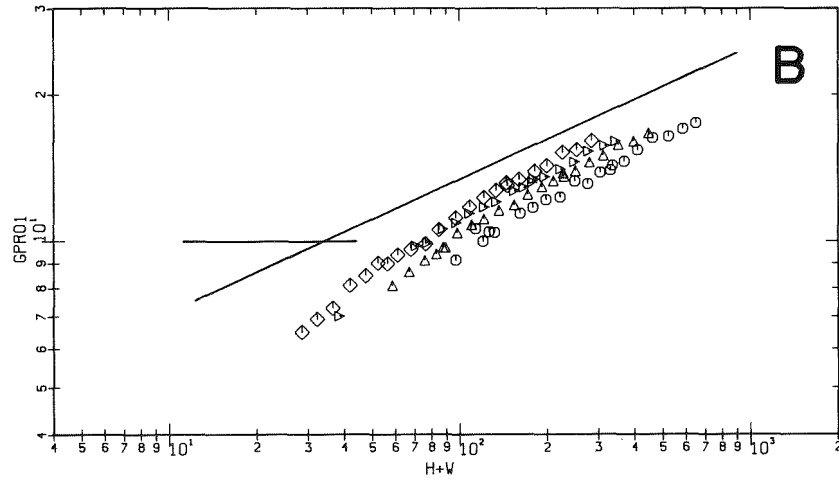
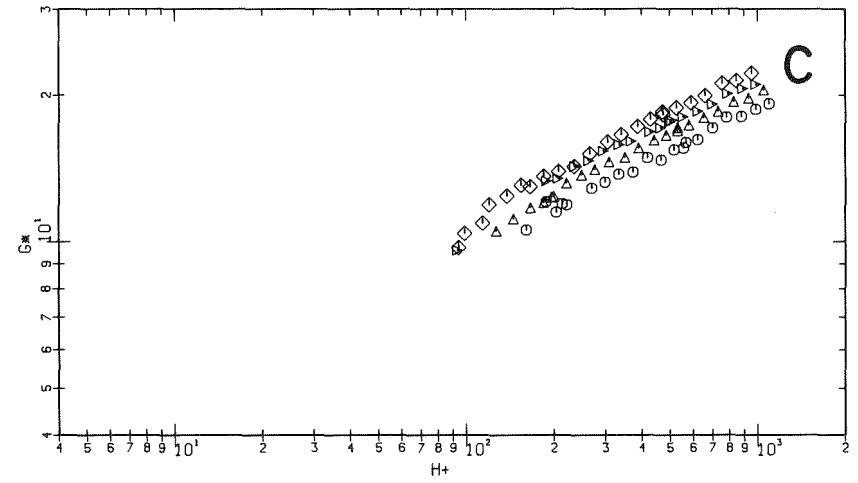
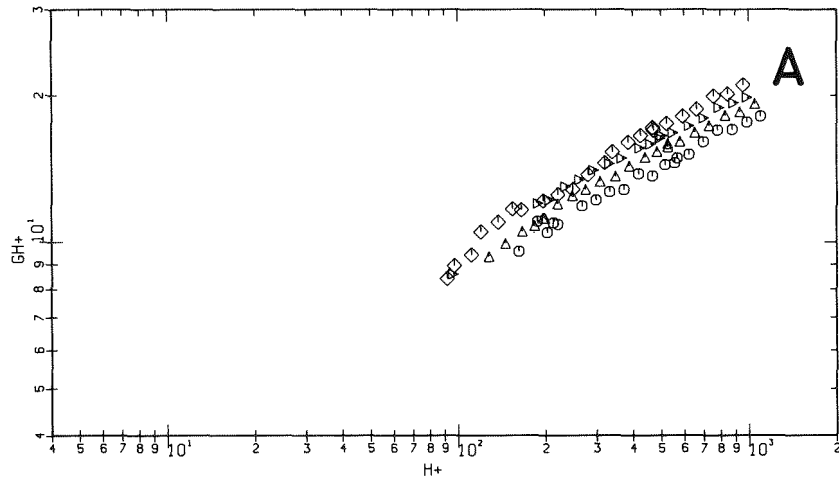


Fig.57: Roughness parameters of the temperature profile versus roughness Reynolds number:  
rod 18 in 50, nitrogen

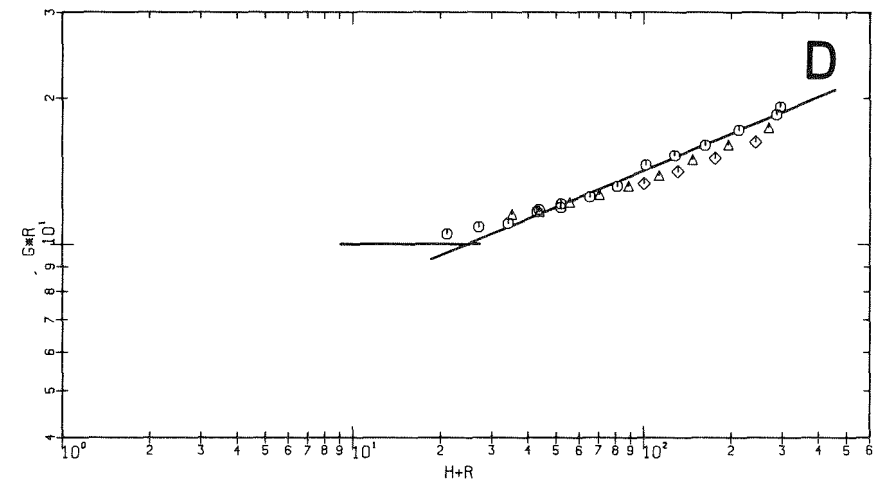
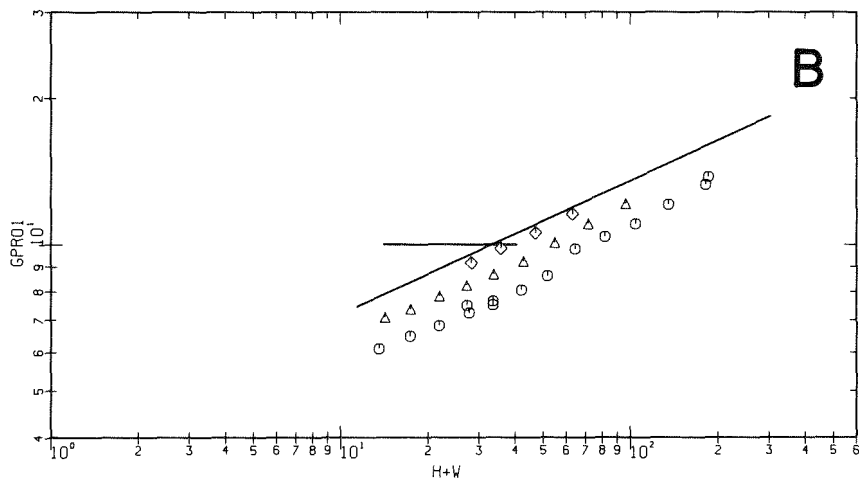
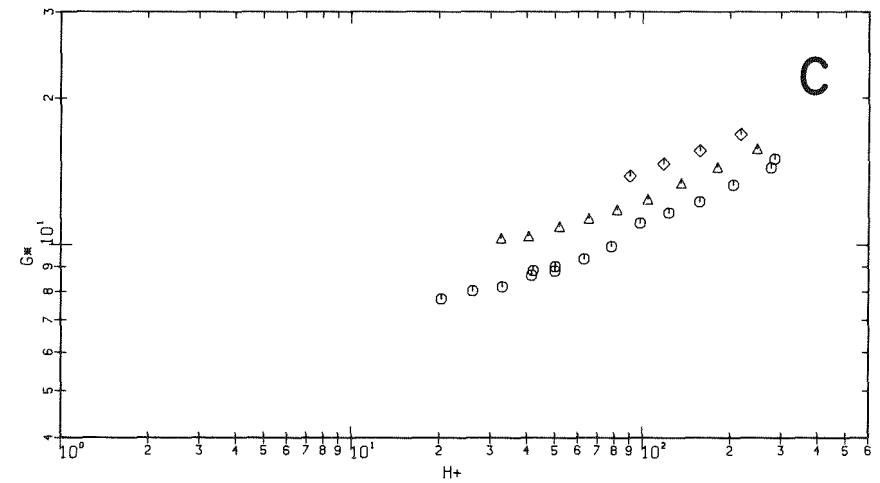
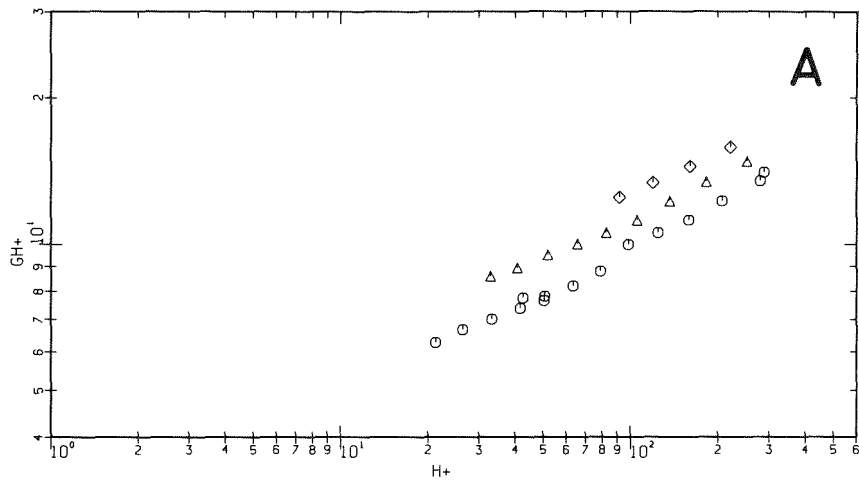


Fig.58: Roughness parameters of the temperature profile versus roughness Reynolds number:  
rod 18 in 50, air

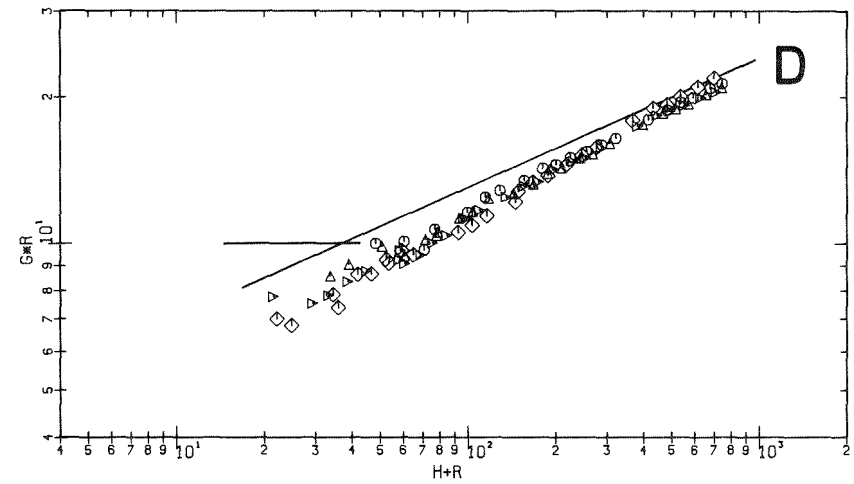
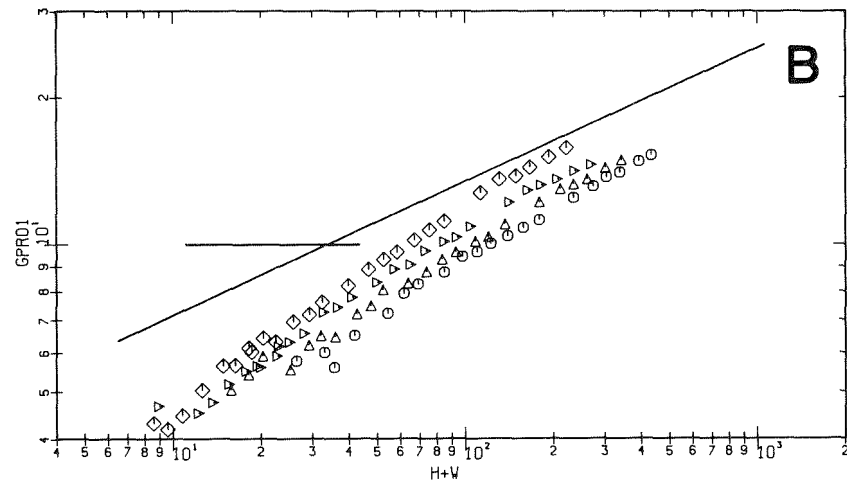
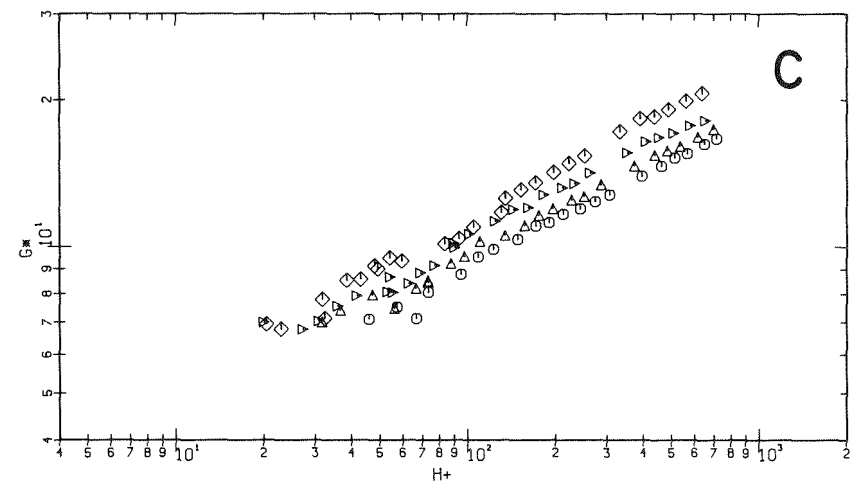
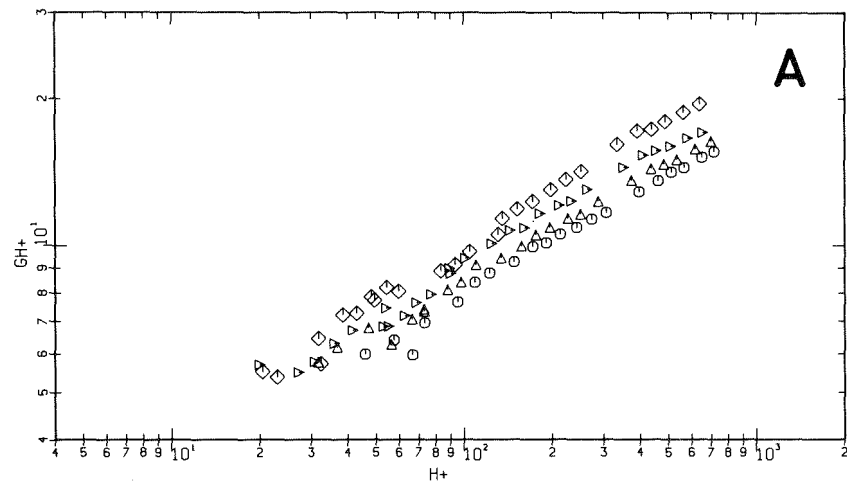


Fig.59: Roughness parameters of the temperature profile versus roughness Reynolds number:  
rod 19 in 50, helium

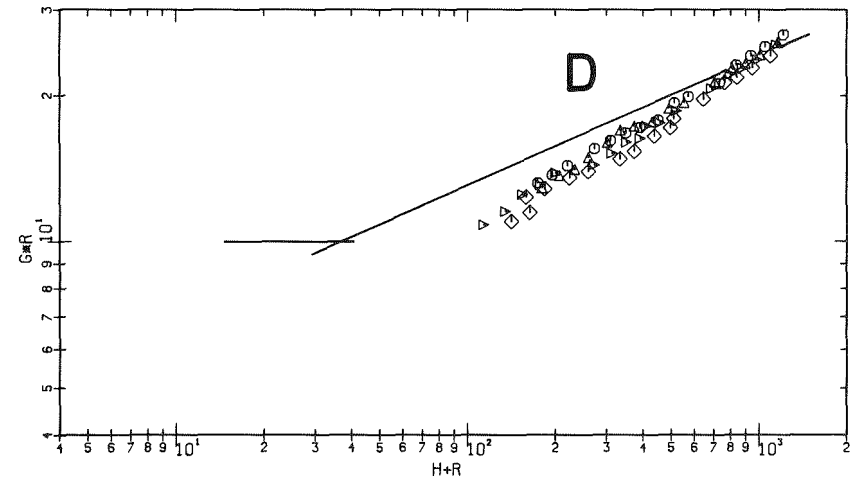
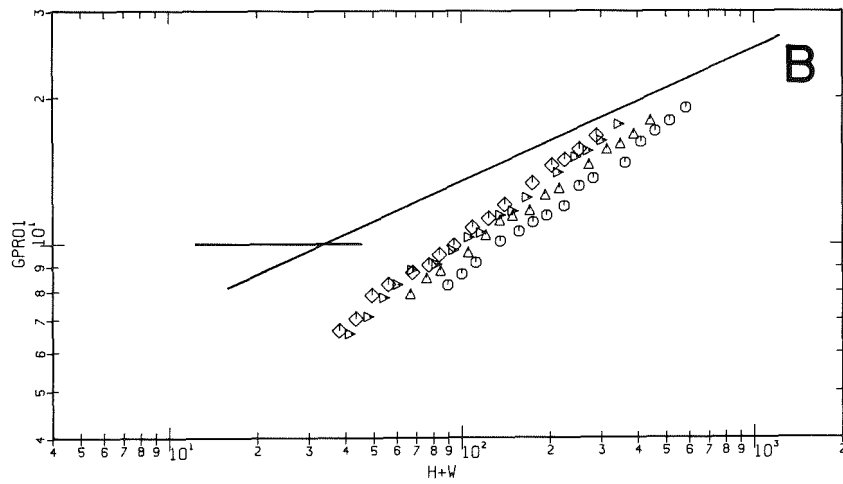
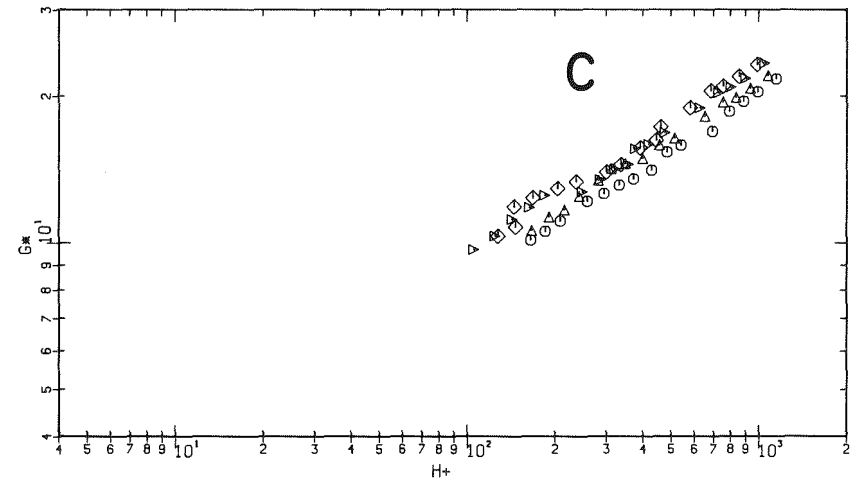
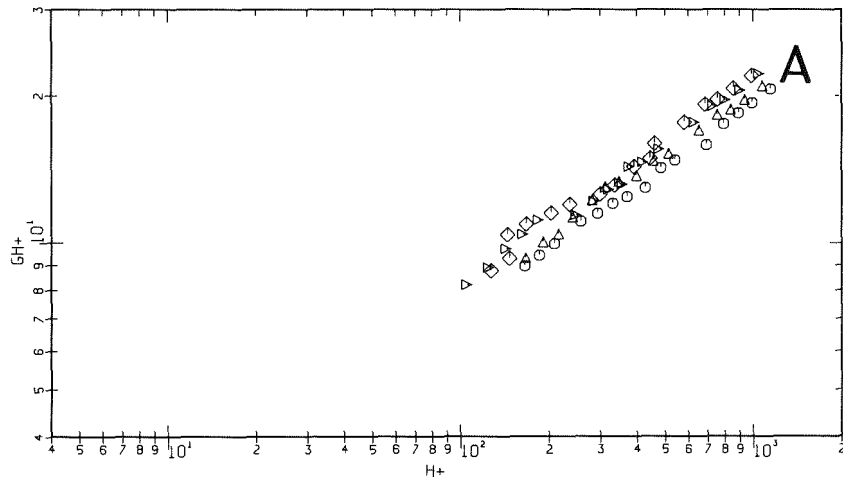


Fig.60: Roughness parameters of the temperature profile versus roughness Reynolds number:  
rod 19 in 50, nitrogen



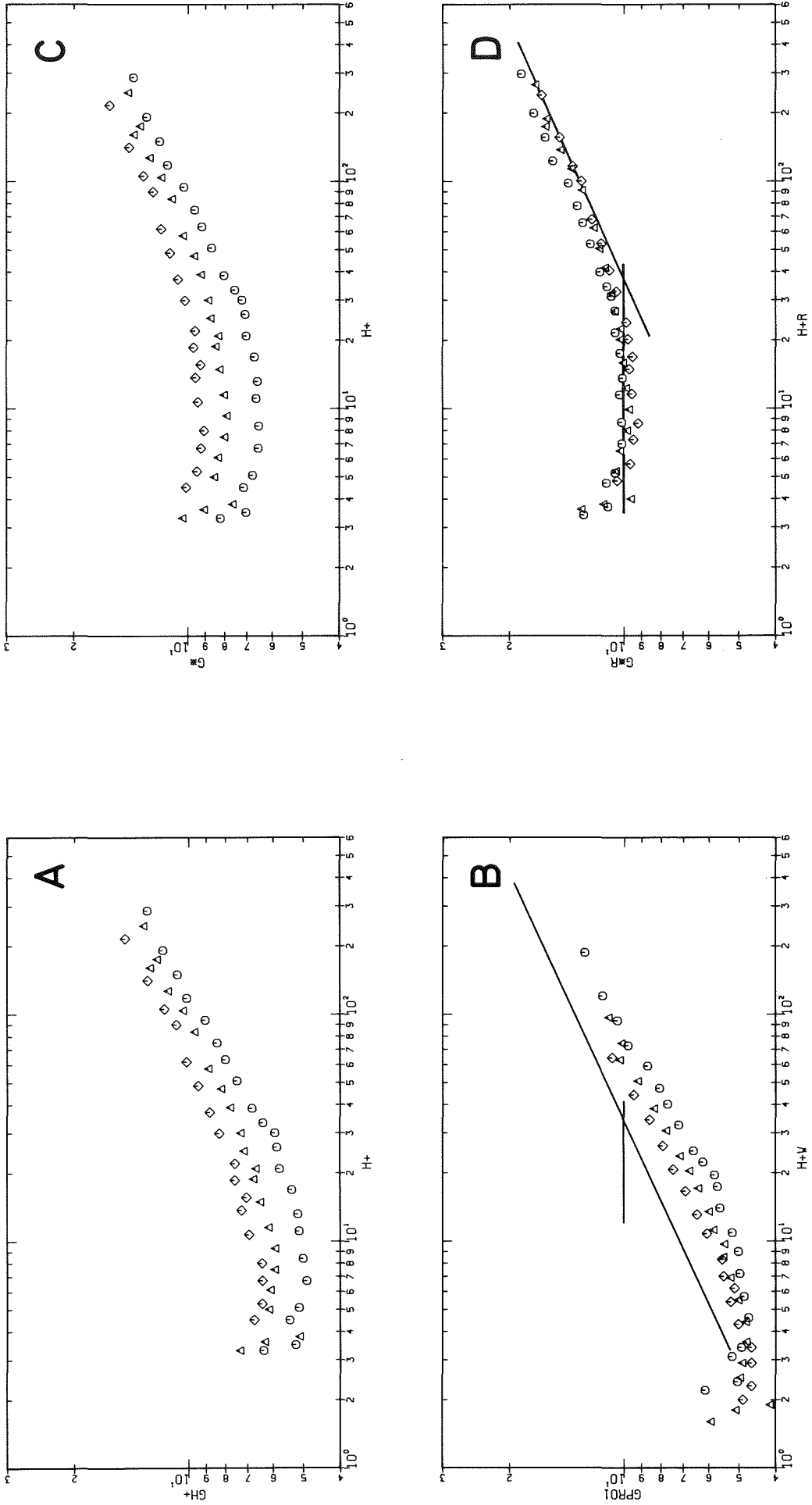


Fig.61: Roughness parameters of the temperature profile versus roughness Reynolds number: rod 19 in 50, air

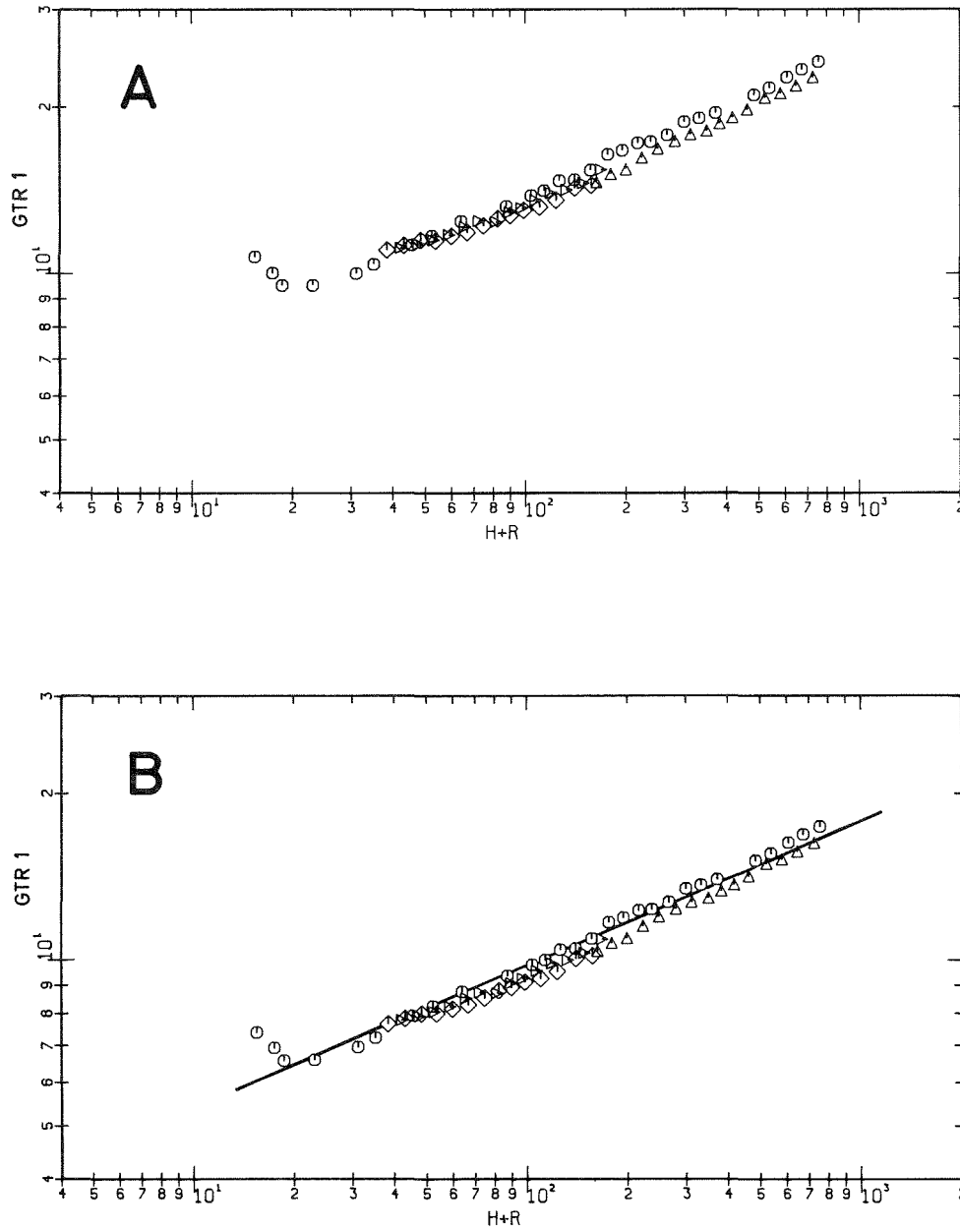


Fig.62: Roughness parameter of the temperature profile versus roughness Reynolds number: rod 19 in 33, helium

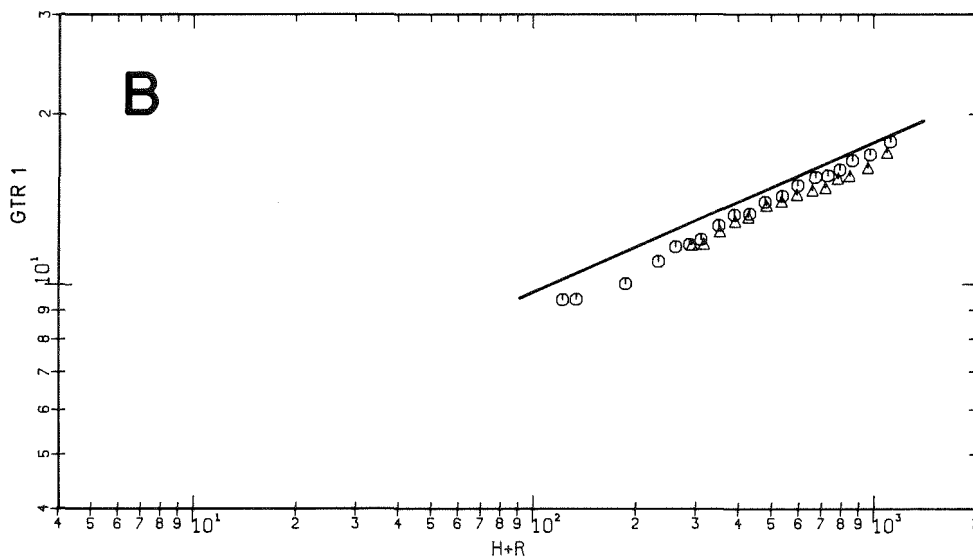
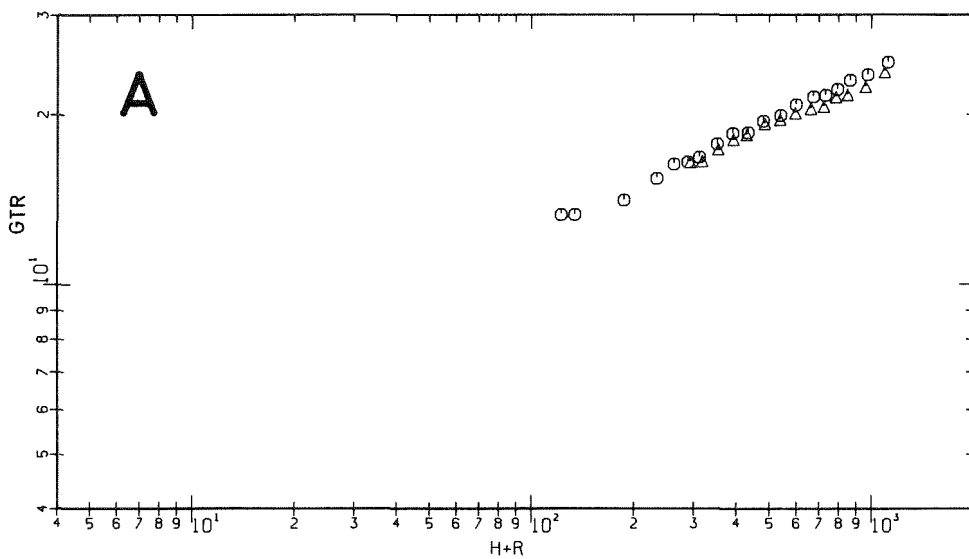


Fig.63: Roughness parameter of the temperature profile versus roughness Reynolds number: rod 19 in 33, nitrogen

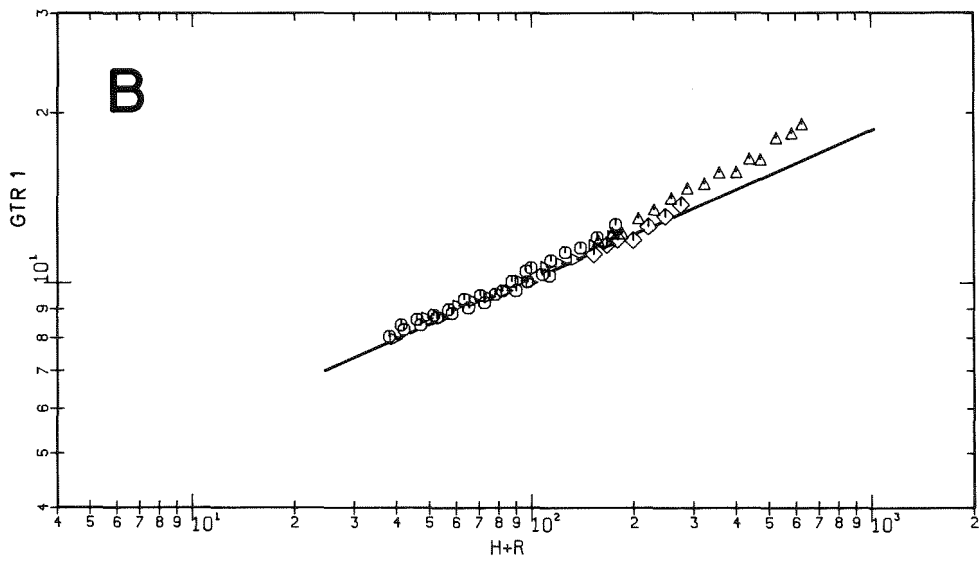
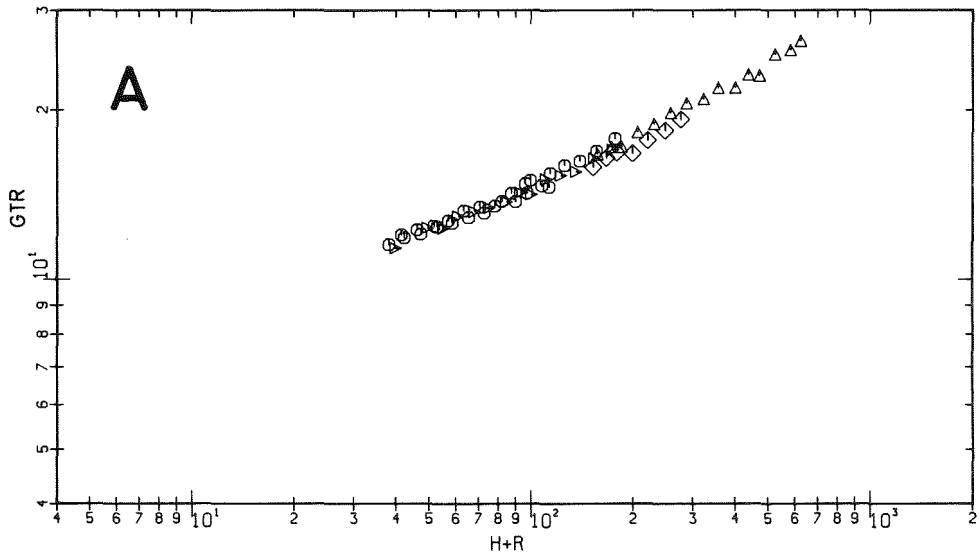


Fig.64: Roughness parameter of the temperature profile versus roughness Reynolds number: rod 20 in 33, helium

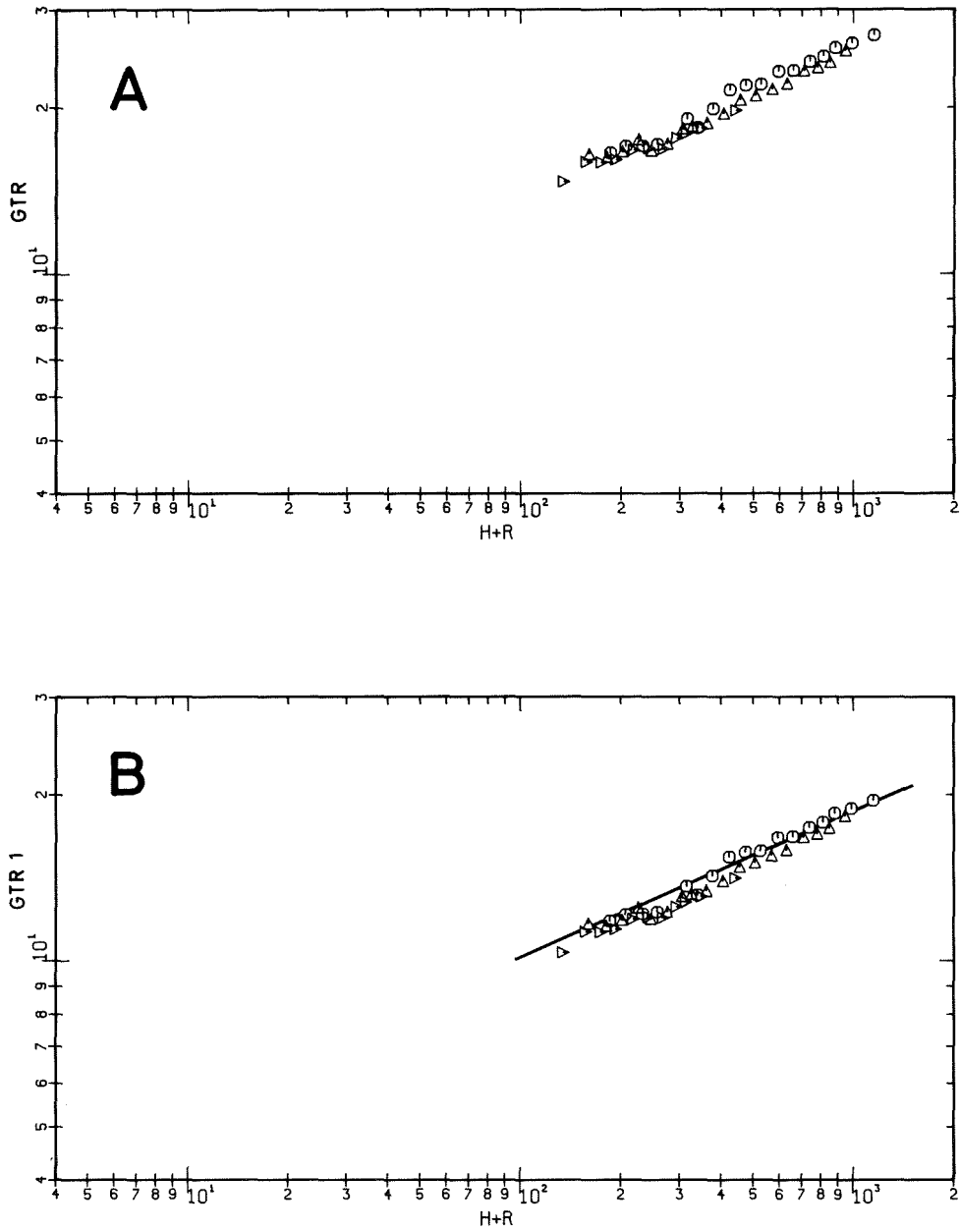


Fig.65: Roughness parameter of the temperature profile versus roughness Reynolds number: rod 20 in 33, nitrogen

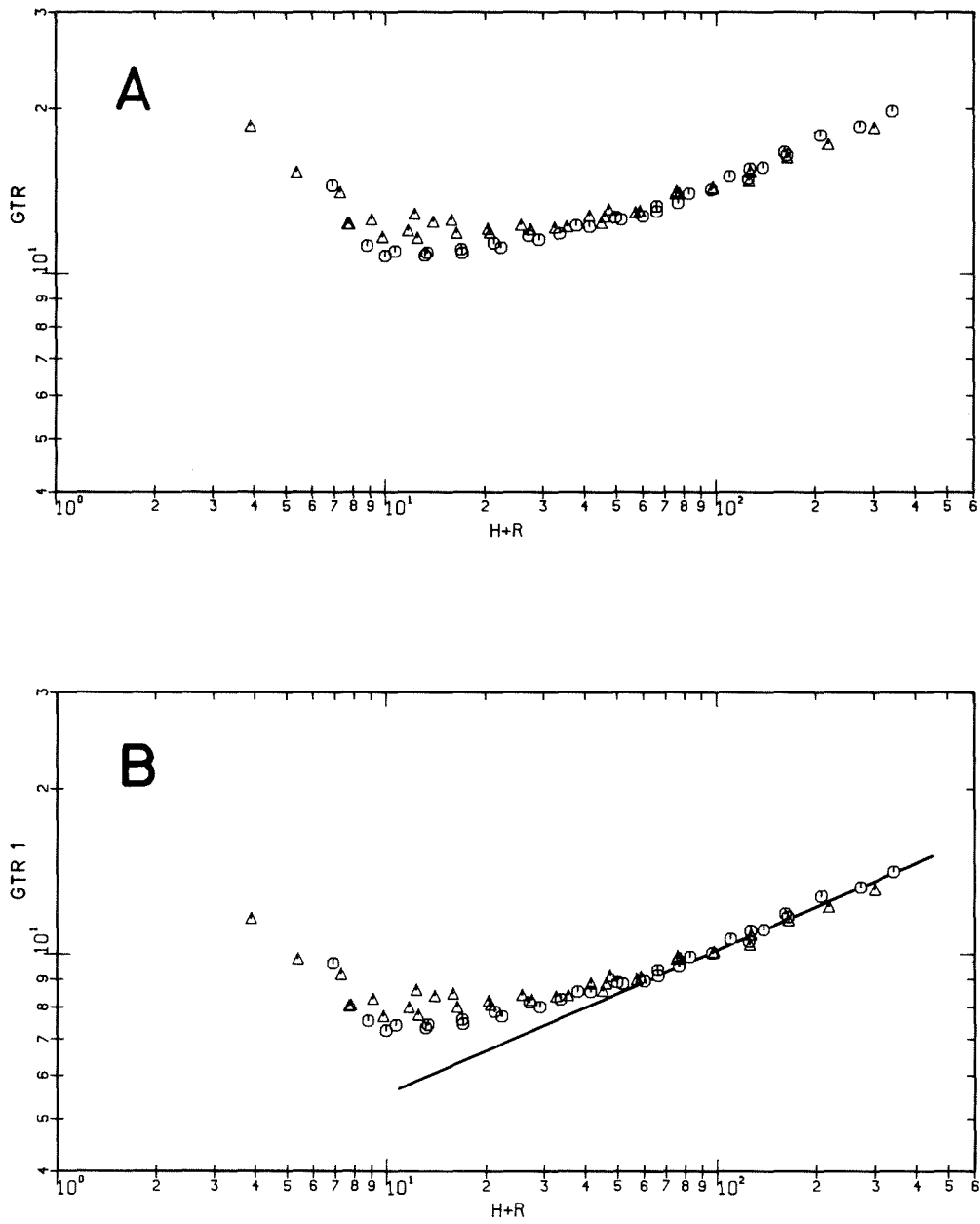


Fig.66: Roughness parameter of the temperature profile versus roughness Reynolds number: rod 20 in 33, air

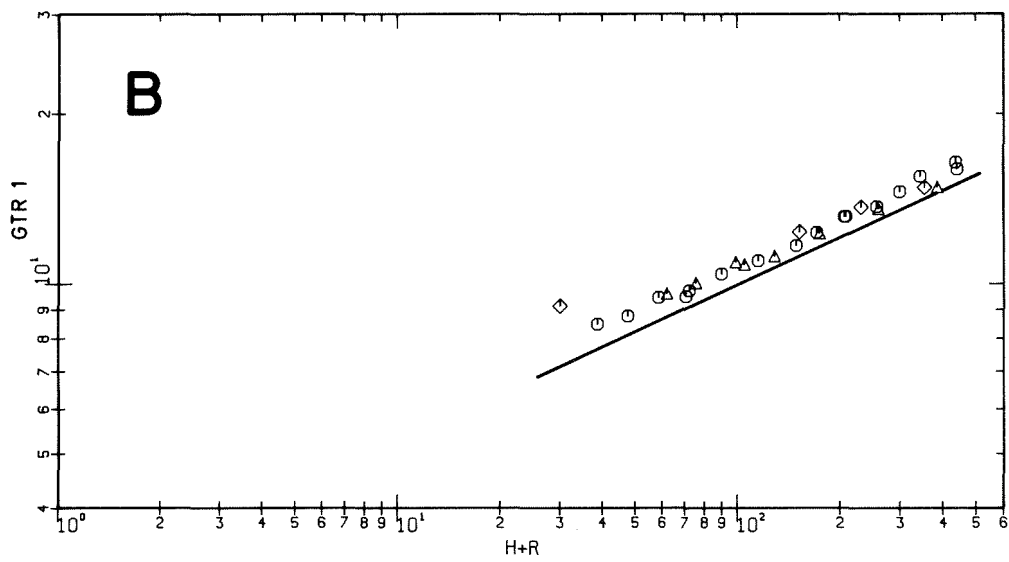
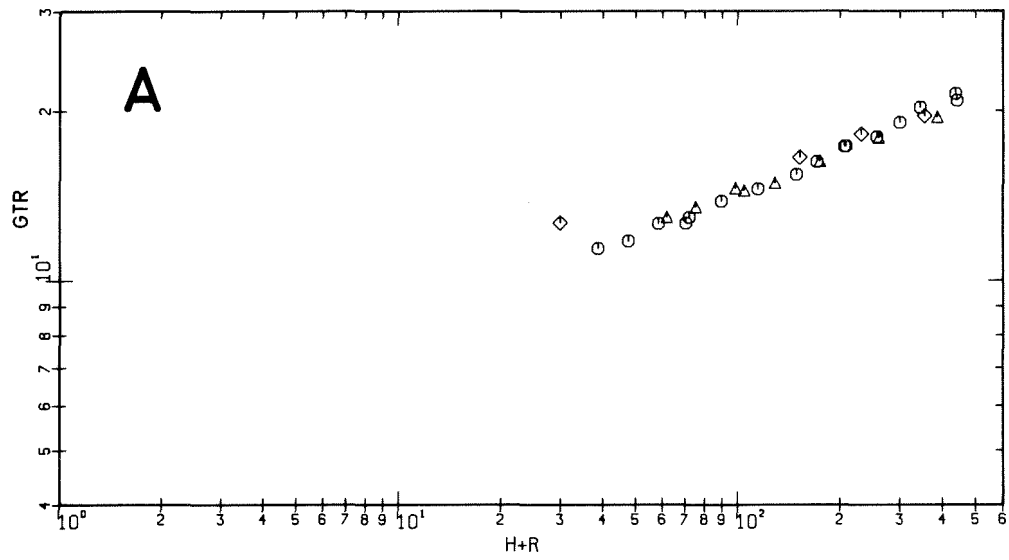


Fig.67: Roughness parameter of the temperature profile versus roughness Reynolds number: rod 18 in 40, air

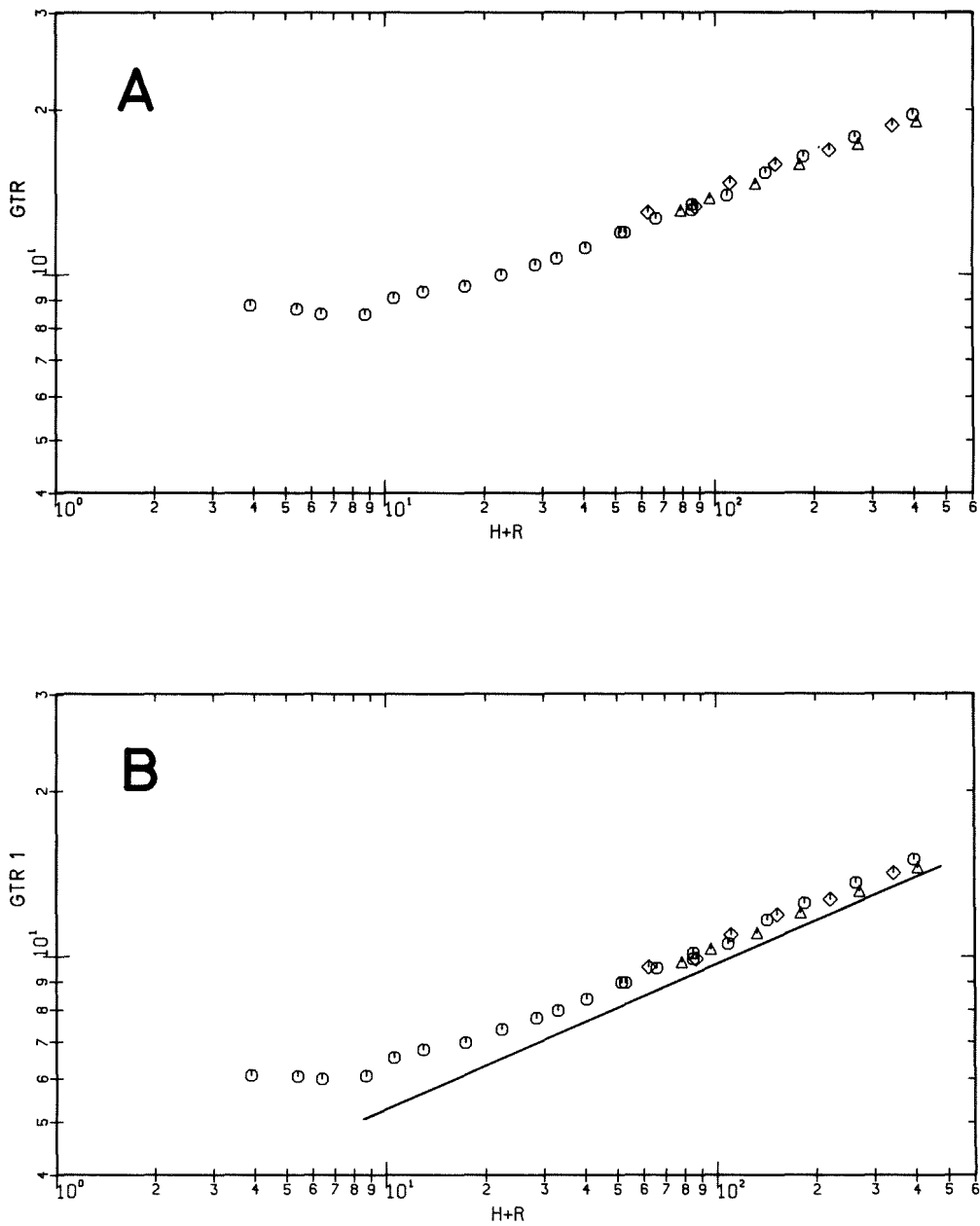


Fig.68: Roughness parameter of the temperature profile versus roughness Reynolds number: rod 19 in 40, air



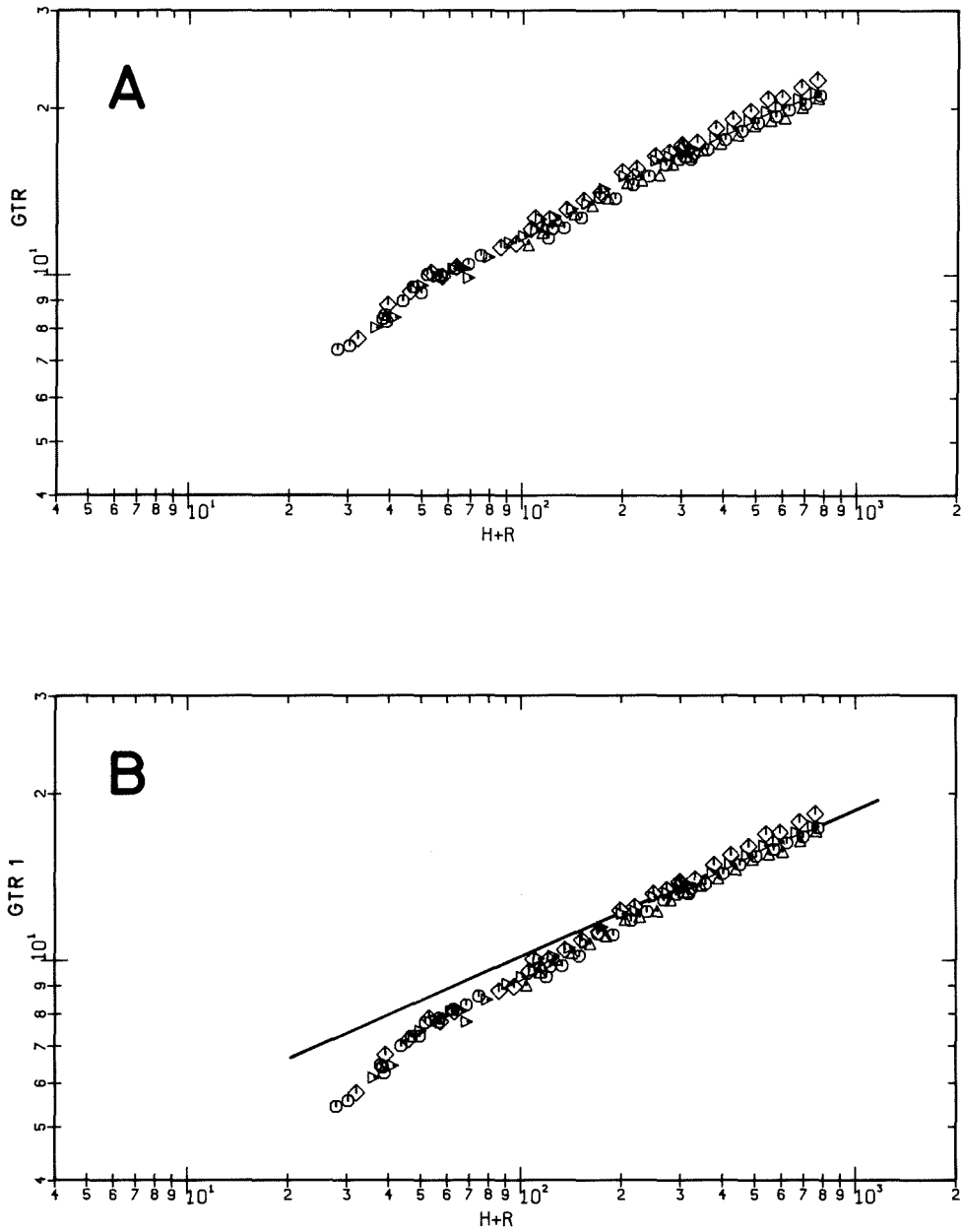


Fig.69: Roughness parameter of the temperature profile versus roughness Reynolds number: rod 18 in 50, helium

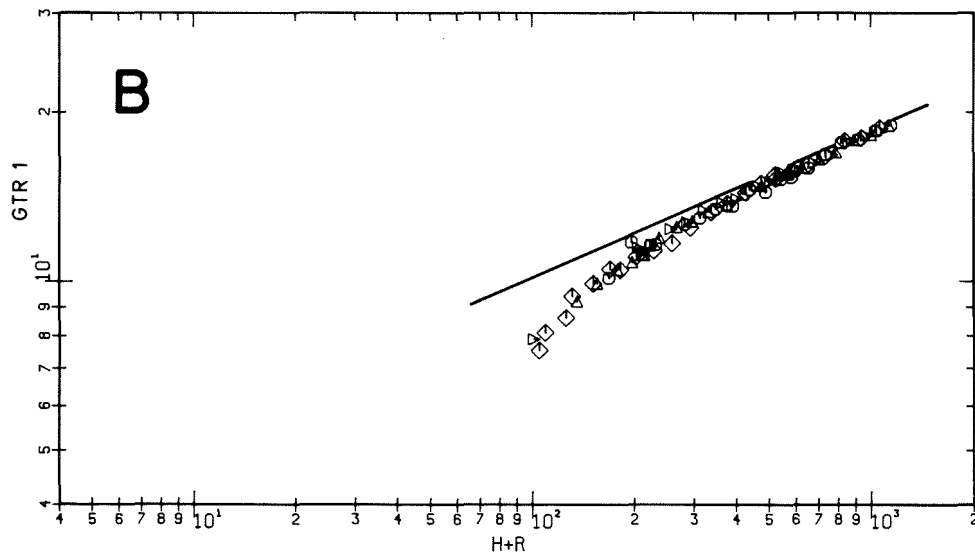
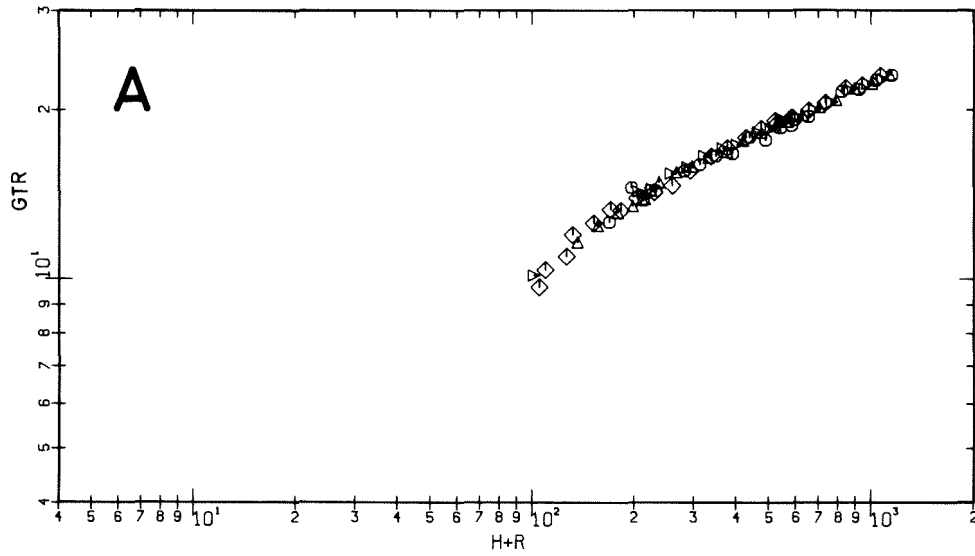


Fig.70: Roughness parameter of the temperature profile versus roughness Reynolds number: rod 18 in 50, nitrogen

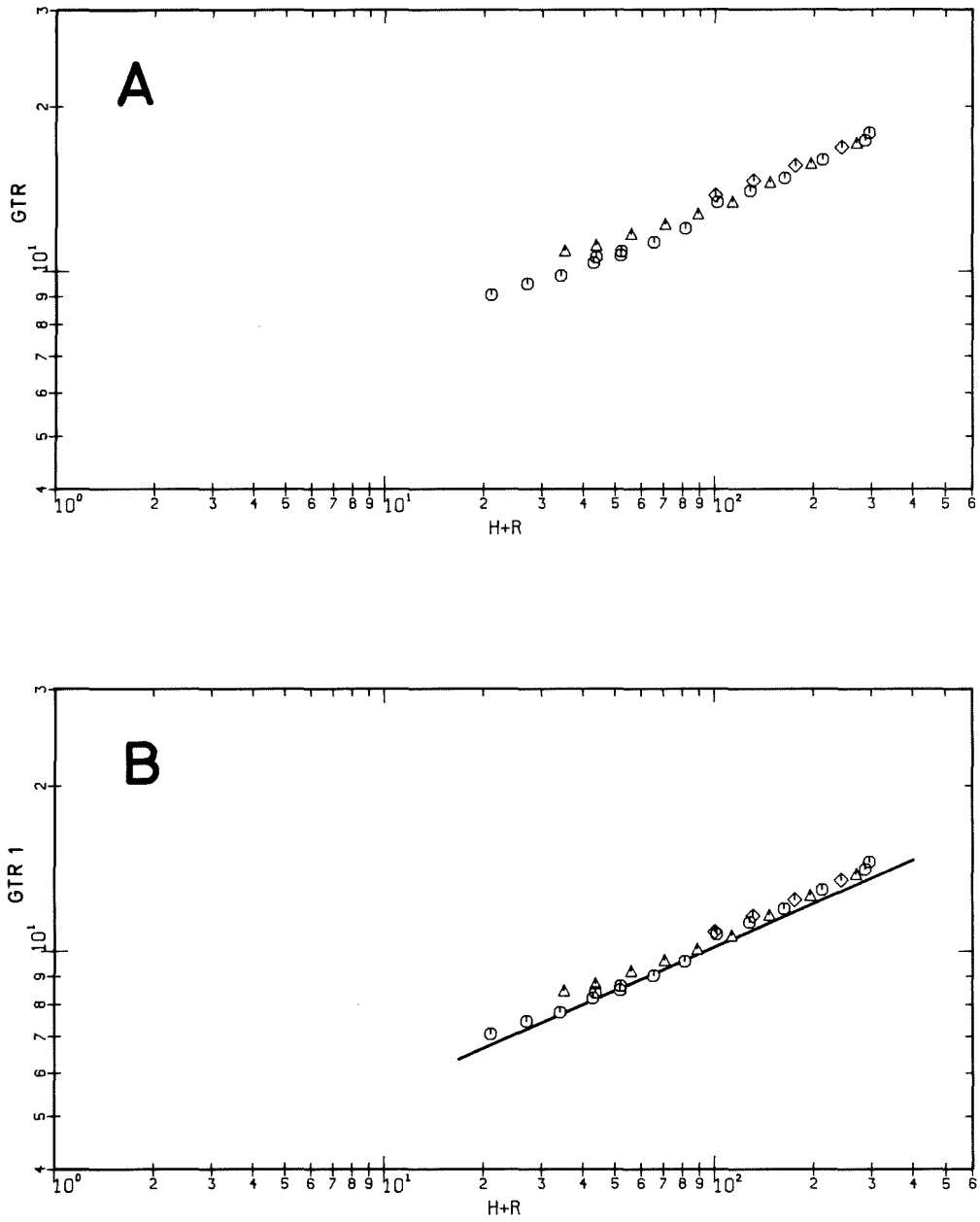


Fig.71: Roughness parameter of the temperature profile versus roughness Reynolds number: rod 18 in 50, air

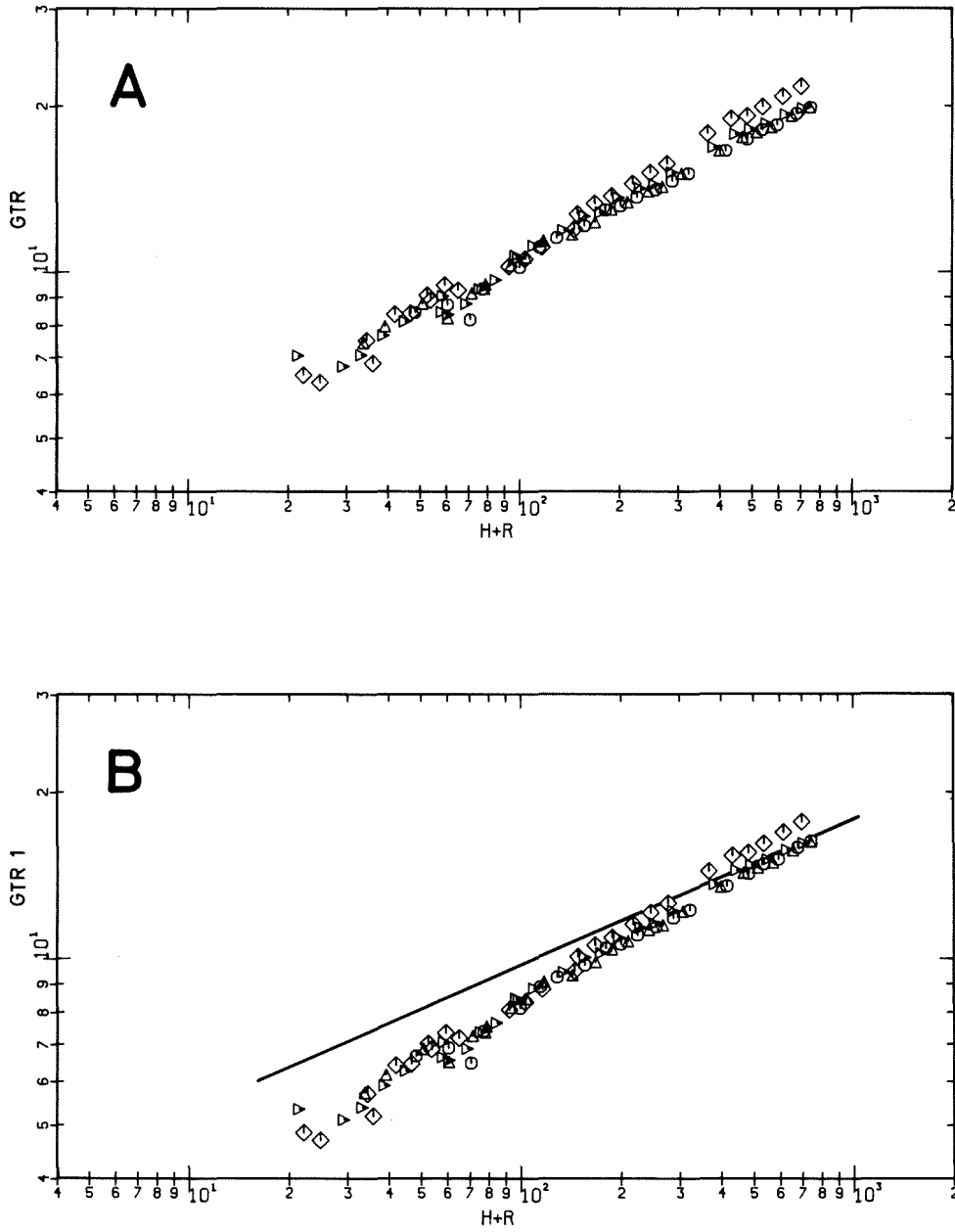


Fig.72: Roughness parameter of the temperature profile versus roughness Reynolds number: rod 19 in 50, helium

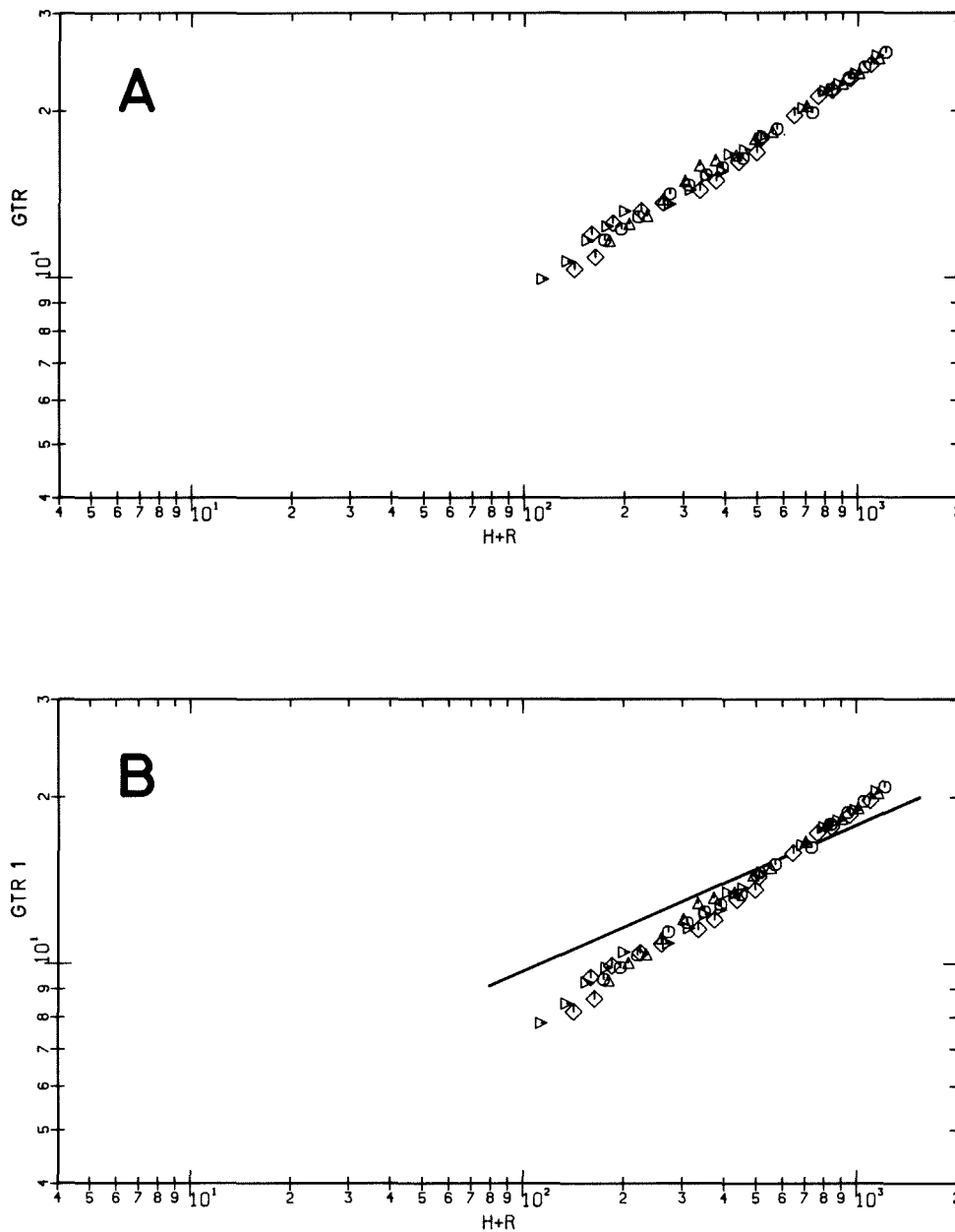


Fig.73: Roughness parameter of the temperature profile versus roughness Reynolds number: rod 19 in 50, nitrogen

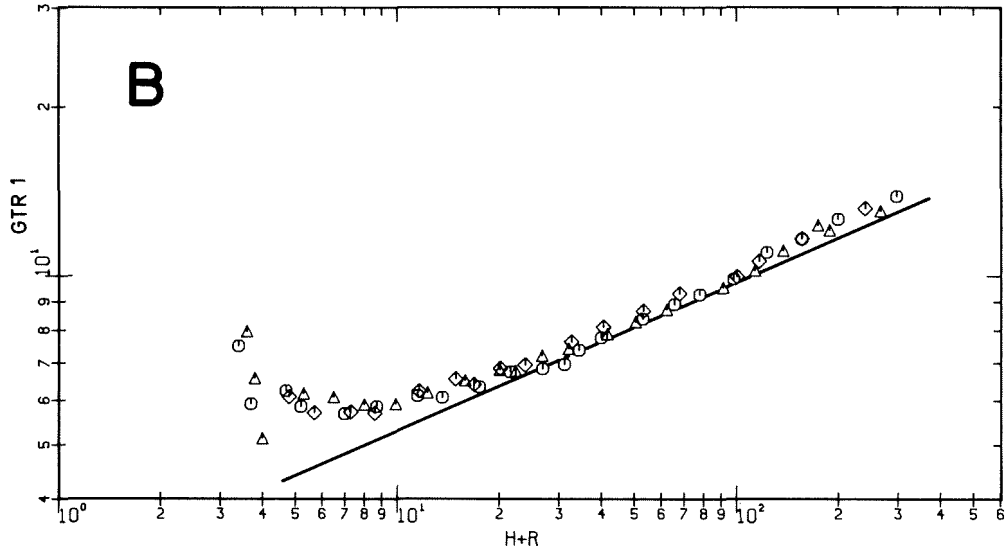
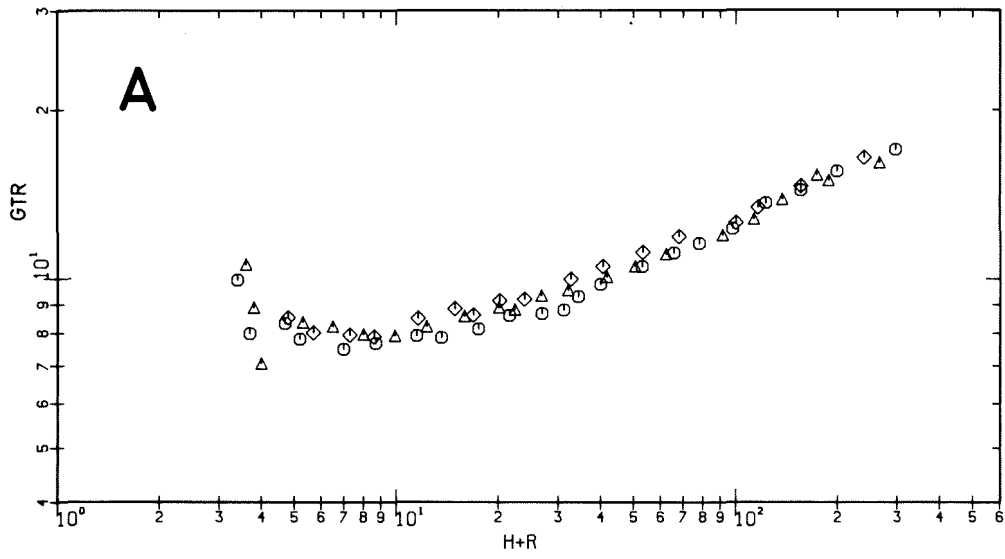


Fig.74: Roughness parameter of the temperature profile versus roughness Reynolds number: rod 19 in 50, air

$$T_W/T_B$$

- 1.0
- △ 1.5
- + 2.0

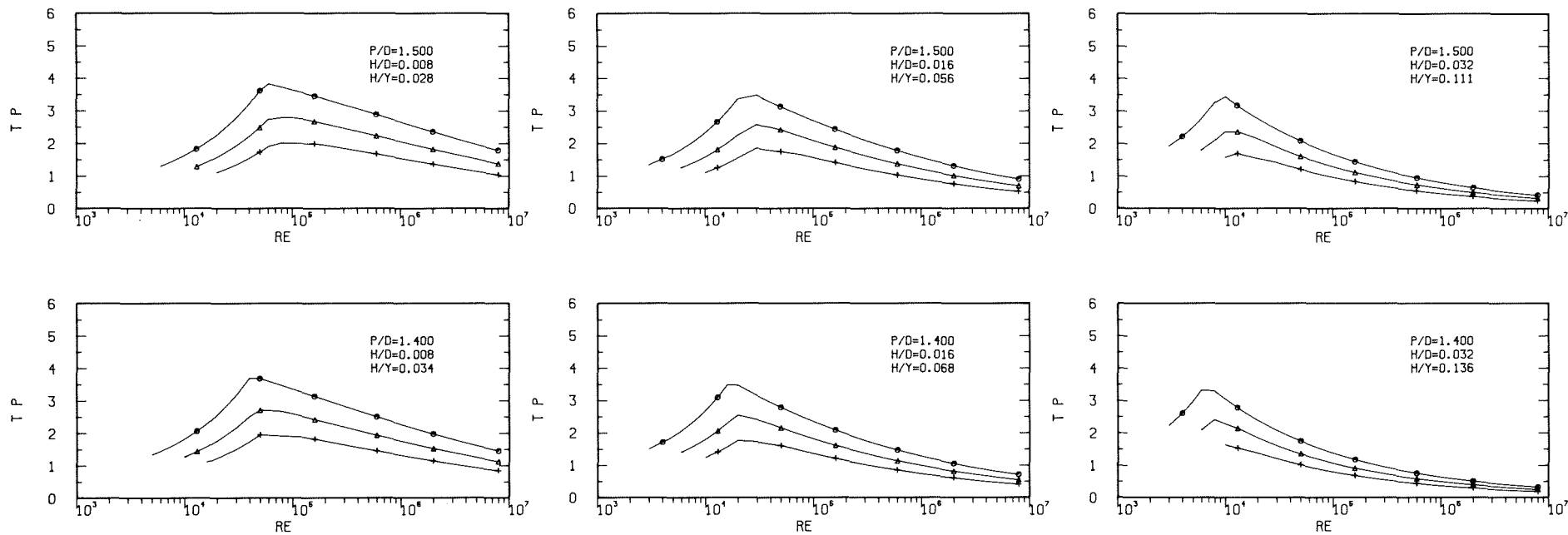


Fig. 75: Thermal performance versus Reynolds number, evaluated with the R- and G-functions developed in this work and with f- and St-coefficients for isothermal conditions.

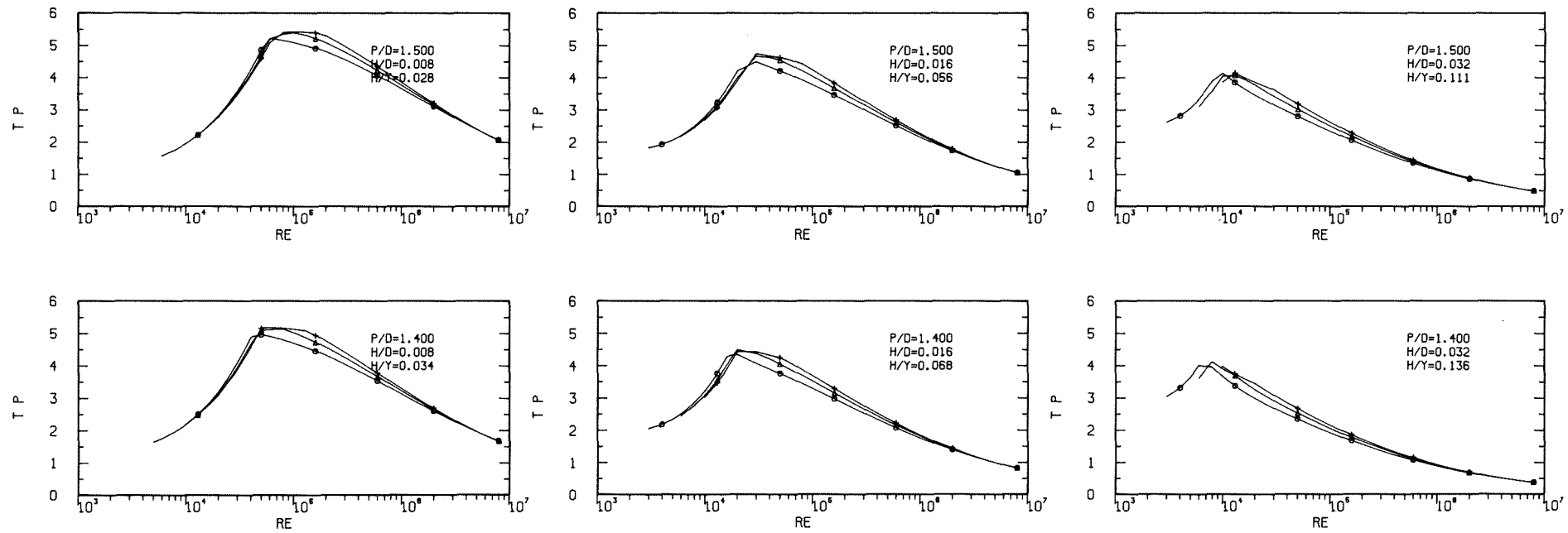


Fig.76: Thermal performance versus Reynolds number, evaluated with the R- and G-functions developed in this work, and with f- and St-coefficients for non-isothermal conditions.



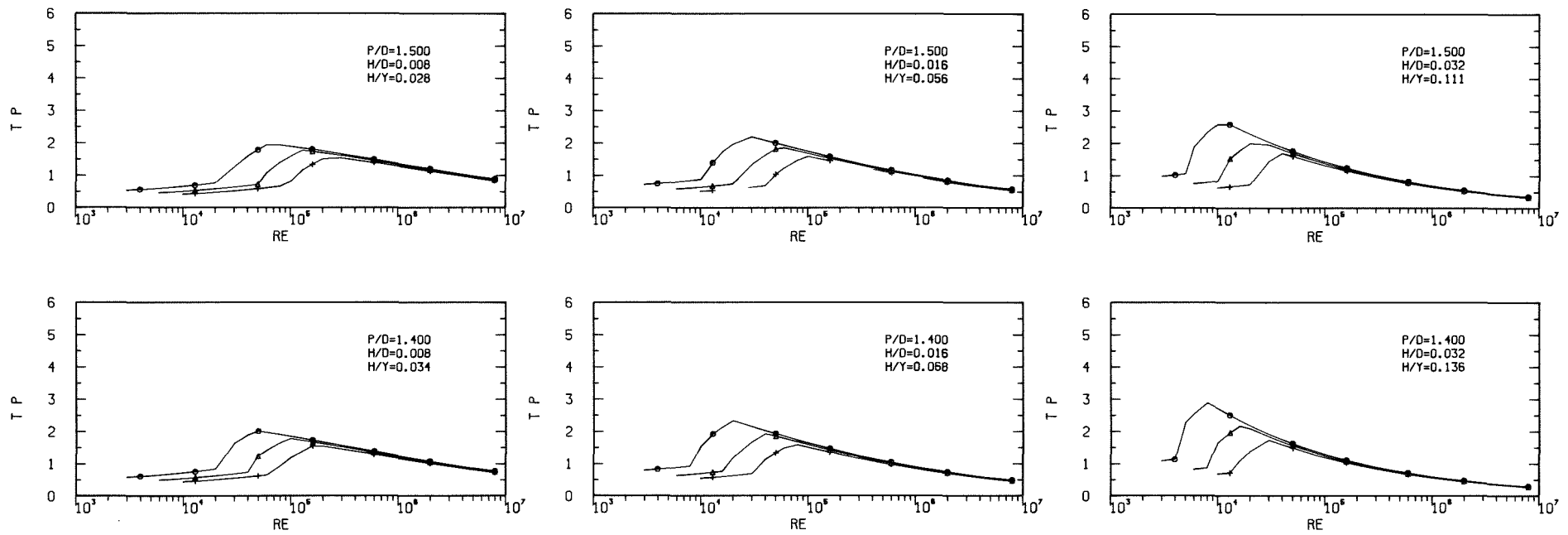


Fig.77: Thermal performance versus Reynolds number, evaluated with the R- and G-correlations from /6/ and with f- and St-coefficients for isothermal conditions.

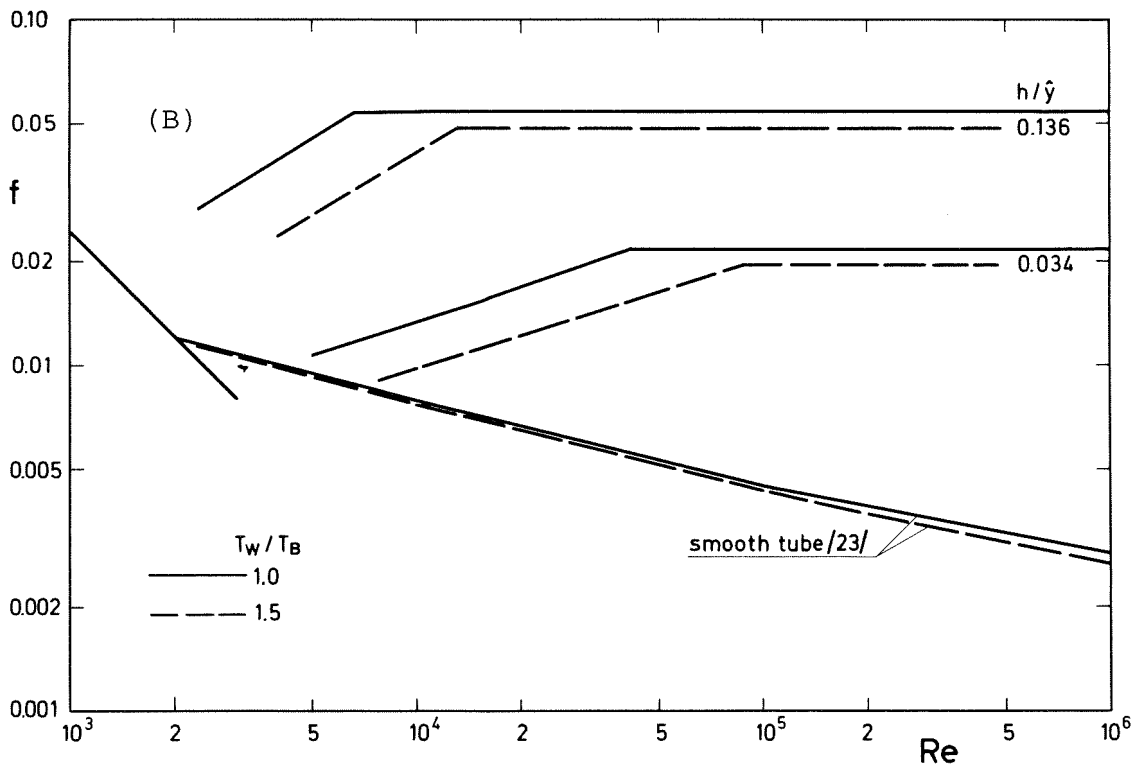
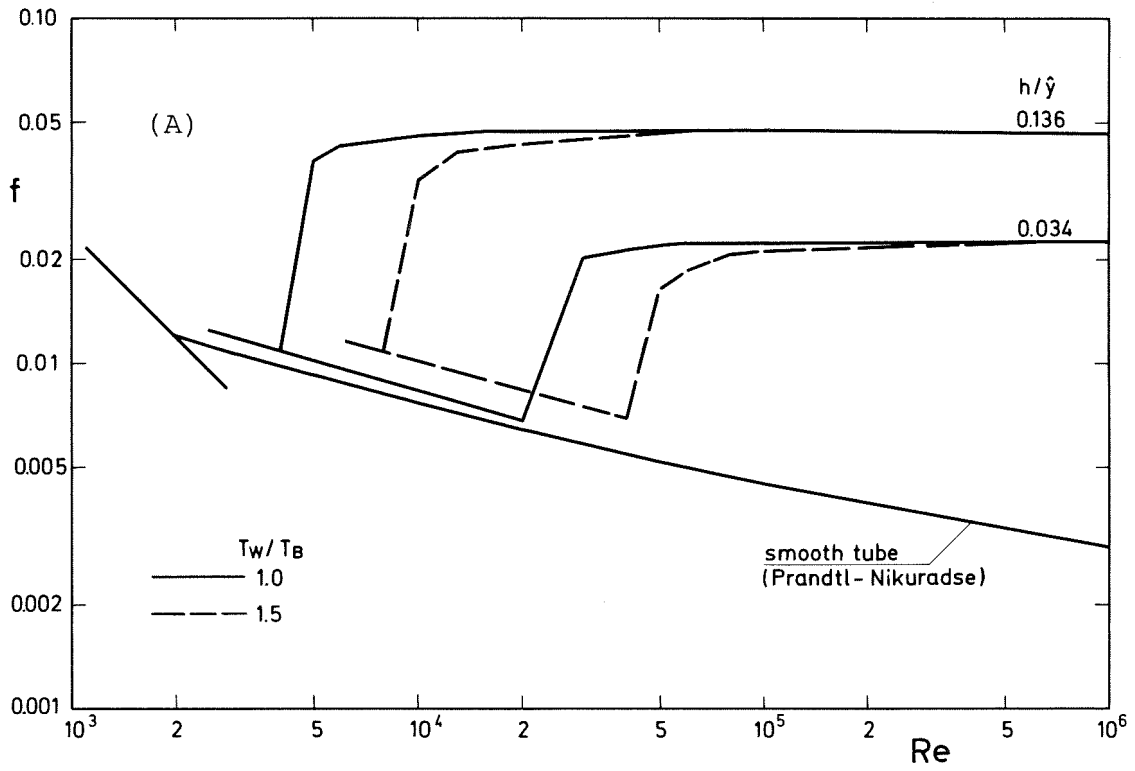


Fig.78: Friction factor versus Reynolds number evaluated  
(A) with the R-function from /6/  
(B) with the R-function developed in this work

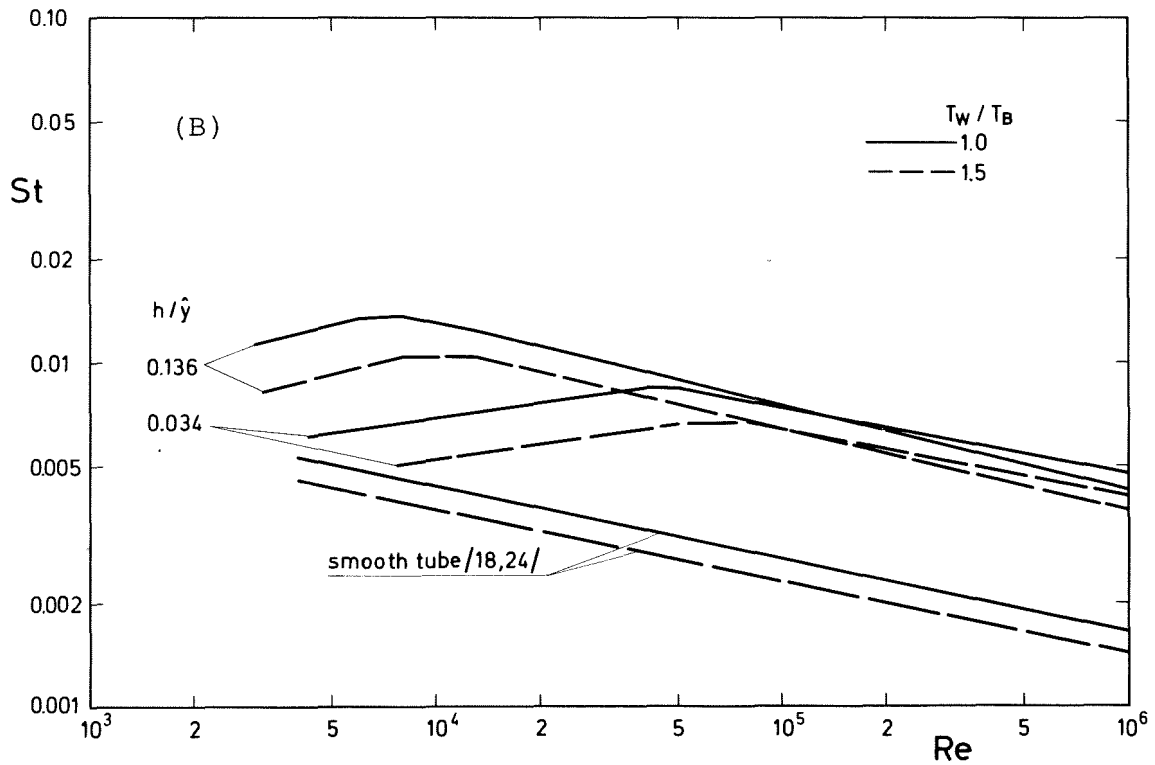
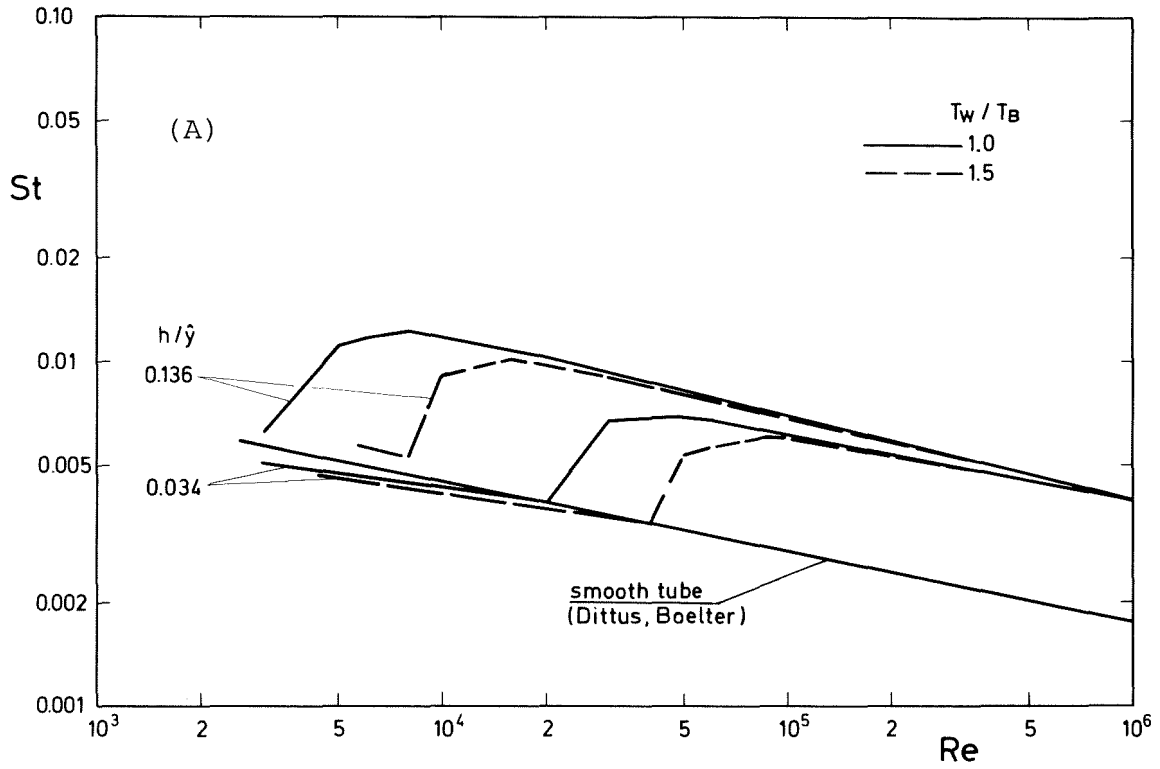


Fig.79: Stanton number versus Reynolds number evaluated  
(A) with the G-function from /6/  
(B) with the G-function developed in this work