OBSERVATIONS OF LIGHT SCATTERING IN SEA WATER

by

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ABSTRACT

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A.F. Spilhaus, Jr.

Submitted to the Department of Geology and Geophysics on November 13, 1964, in partial fulfillment of the requirement for the degree of Doctor of Philosophy.

Combination of theoretical curves of the volume scattering function for several different monodisperse systems of Mie scatterers shows that in a polydisperse system the total scattering coefficient is determined by the scattering at small angles to the direction of the incident beam. These combined curves also show that as the particle sizes increase the rise in the volume scattering function at small angles increases.

A method was devised to measure "in situ" the ratio of the volume scattering function at 20° to that at 45° and 135°. The results of this experiment led to a study of the shape of the volume scattering function for various types of sea water.

This study was made using a standard laboratory device on shipboard. Samples were both pumped aboard from surface waters and taken at depths up to 2000 meters by Nansen bottles. Four hundred samples were taken in a region between Woods Hole and 26°N,63°W.

Water in the Sargasso Sea was found to have a significantly different scattering function from that of the slope and coastal waters. In a thermal front, south of Bermuda, the water along one isotherm was different from the average of that on either side of it.

The total scattering coefficient showed banding on the continental shelf. The thermohaline front that exists on the edge of the shelf in winter is marked by a threefold change in the magnitude of the scattering.

Using a laser as the light source, forward scattering measurements were made to obtain relative total scattering. A continuous track was made between Woods Hole and Port Lewis, Mauritius.

In the proximity of land twofold fluctuations of the scattering in a range approximately three times higher than the nearly constant values found in mid-Atlantic were observed. Some fluctuations of the open sea values in the Atlantic were associated with thermal changes.

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PART ONE

This part consists of two manuscripts, intended for subsequent publication, which have been extracted from the main body of the thesis.

OBSERVATIONS OF LIGHT SCATTERING IN SEA WATER

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ABSTRACT

A study of the volume scattering function was made using a standard laboratory device on shipboard. Samples were both pumped aboard from surface waters and taken at depths up to 2000 meters by Nansen bottles. Samples were taken from a region between Woods Hole and 26° N., 63° W.. Water in the Sargasso Sea was found to have a signifigantly different scattering function from that of the slope and coastal waters. In a thermal front, south of Bermuda, the water along one isotherm was different from the average of that on either side of it. The thermohaline front, on the edge of the shelf in winter is marked by a threefold change in the magnitude of the scattering.

INTRODUCTION

A study to define the variability of the volume scattering function for a variety of sea water types has been made, and the shape and magnitude of this function have been correlated with concurrently observed temperatures and salinities. Since the volume scattering function may hold the key to determination of particulate distributions, such a correlation could prove useful to oceanographers.

The volume scattering function, denoted by $\sigma(\theta)$, is defined by:

$$\sigma(\theta) = \frac{J(\theta)}{Hv} ,$$

where $J(\theta)$ is the intensity of scattered light in the direction θ, H is the irradiance input and v the scattering volume which is determined by the intersection of the beams of incident and scattered light.

Tables of $\sigma(\theta)$ for monodisperse spherical particles such as those of Ashley and Cobb (1958) and Gumprecht et al (1952) are available, and the combination of curves of $\sigma(\theta)$ taken from these tables for various numbers of particles of differing sizes and indexes of refraction shows that the sharp maxima and minima found in the polar scattering of monodisperse systems are washed out (Deirmendjian, 1964). Theoretical curves for such polydisperse systems are like the relatively smooth function found for sea water. These curves also indicate that the rise in the small angle region of this function becomes steeper as the particle sizes increases, and that the magnitude of the scattering increases with increased scattering surface.

With care it may be possible to make deductions about the trend of particle sizes and numbers from the shape and magnitude of the volume scattering function. Previous investigators have made an effort to compare the theoretical curves for certain types of monodisperse systems with measured curves for the natural environment (Sasaki et al, 1960, Jerlov, 1961); however, it must be born in mind that there is no reason that a measured curve for a natural sample should match the theoretical curve for any particular system of monodisperse spherical particles.

In this study the slope of $\sigma(\theta)$ in the small angle range and the magnitude of the scattering were applied in a qualitative way to characterize various water types.

APPARATUS AND EXPERIMENTAL PROCEDURES

A Brice-Phoenix Light Scattering Photometer was employed in this work (Brice et al, 1950). With this device it is possible to determine the volume scattering function between 30° and 135°.

This scatterometer was first used at sea on the R/V Crawford between Woods Hole and St. Georges, Bermuda. Measurements of the scattering function were made at least twice each watch, concurrent bathythermograph lowerings were made, and salinity samples were taken. In addition, four hydrographic casts were made using teflon coated Nansen bottles.

The surface samples for scattering and salinity were drawn through an uncontaminated sea water sampling system into a clean cell containing a teflon covered stirring bar; the cell was placed in the scatterometer, and stirring was begun. The photomultiplier signal was recorded for the transmitted beam and for angles between 30° and 135° at 5° intervals beginning at 30°, then the transmitted beam was observed again as a check on instrumental drift, which, when present, was corrected for in the data reduction.

Samples obtained from depth were similarly processed except that, to reduce differentiation of the sample, the water was drawn into polyethylene flasks as soon as the Nansen bottles came aboard. To counteract the effect of any settling that might have occurred during the storage time the flasks were agitated before the sample was decanted.

The same apparatus was employed on the R/V Chain during the study of a thermal front in the Sargasso Sea south of Bermuda. On this cruise twenty hydrographic stations and hourly bathythermograph lowerings were made. Surface salinity samples were collected concurrently.

The observed data were reduced by computer to yield the volume scattering function between 30° and 135° which was extrapolated to cover the range from 0° to 180°. The extrapolation in the small angle range was made by a least squares fit to the equation,

$$\log \sigma(\theta) = A+B\theta+C\theta^2 \quad ,$$

for the points between 30° and 50°. From $\sigma(\theta)$ the total scattering coefficient s was calculated by

$$s = 2\pi\int_0^\pi \sigma(\theta)\sin\theta d\theta.$$

The values of s are strongly dependent on the extrapolated values of $\sigma(\theta)$ between 0° and 30°. Because of the steepness of this function the extrapolation is, at best, tenuous and possibly very bad; therefore the portion of this coefficient contributed by the measured points, s(30-130), was also computed by changing the limits on the integral to 30° and 130°. This quantity was used as the measure of the scattering surface.

RESULTS AND CONCLUSIONS

"General Features of the Volume Scattering Function"

One method of characterizing the rise in the volume scattering function at small angles, which is an indicator of relative particle size, is the slope of the extrapolated portion of the curve plotted on natural logarithmic coordinates, the ln-ln slope. The larger negative slopes indicate a larger predominant particle size. An indicator of the same feature of the curve, the ratio, $\sigma(30°)/\sigma(45°)$, is a measured quantity and, therefore, is preferred to the ln-ln slope near 0°, but it has the disadvantage of being sensitive to fluctuations caused by small errors. The extrapolated curve is based on five points rather than only on the two that the ratio depends. The portion of the scattering coefficient lying between 30° and 130°, s(30-130), is a measure of the particulate content.

Figure 1 gives an example of the volume scattering function in coastal water. The main features in the curves for coastal water are the semilogarithmic behavior at small angles, the absence of local maxima, and the high values obtained. The slopes were not as steep in coastal waters as offshore, indicating a smaller predominant particle size inshore. Proceeding offshore, near the 100 fathom curve off Woods Hole, a sharp break was encountered in the absolute value of the volume scattering function; it became more curved in the small angle range, and a broad minimum appeared at the largest angles as clearer water was entered. Also shown in Figure 1 is an example of the volume scattering function in clear ocean water, where a series of maxima and minima occurred at angles greater than 90°. The appearance of these fluctuations indicated a tendency toward a monodisperse system of scatterers.

Figure 1 shows the back scattering in clear sea water

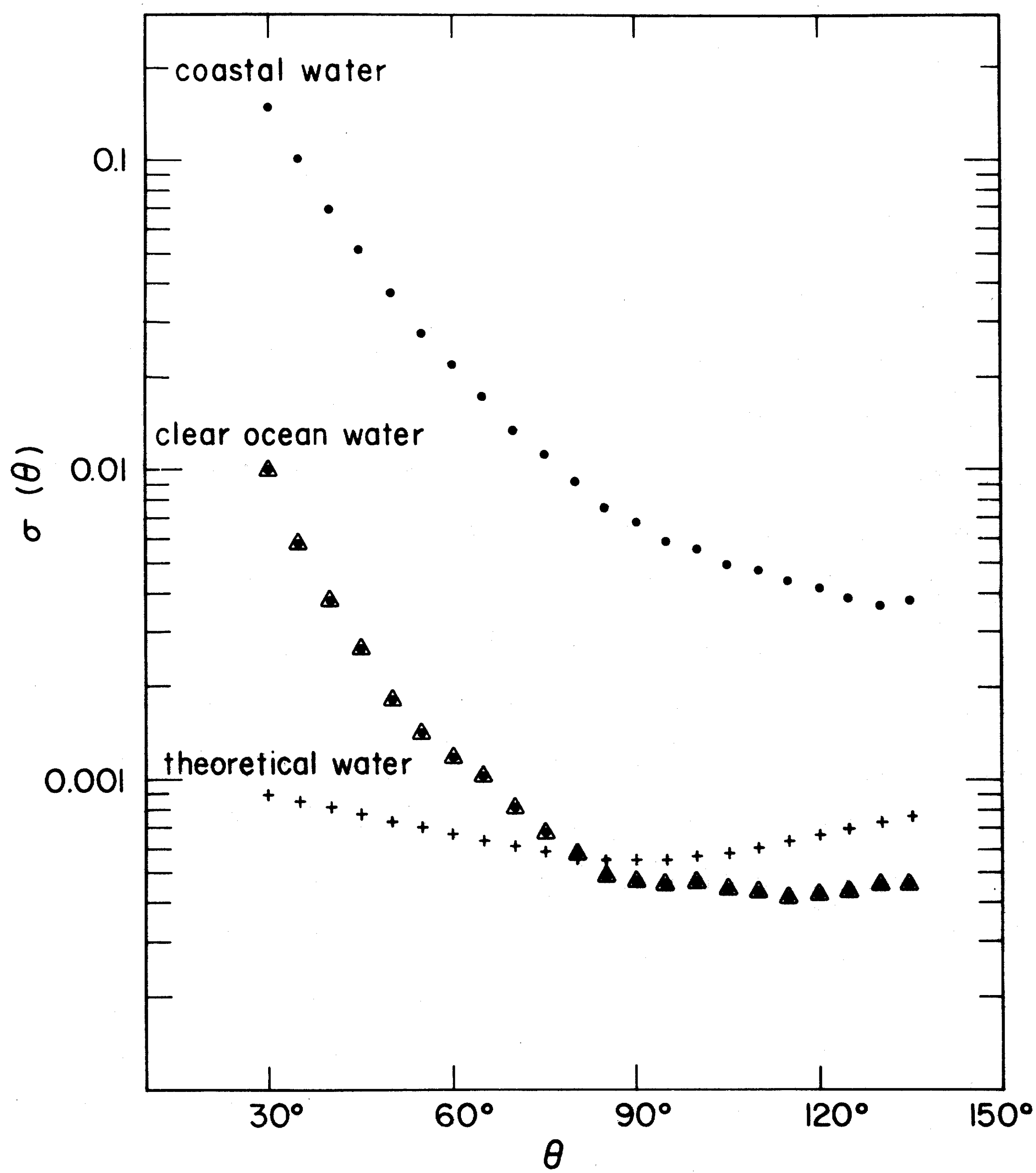

Fig. 1. A sample of the volume scattering function for coastal water, for clear ocean water, and the theoretical curve for pure water.

to be lower than the theoretical values for pure water calculated by the method of Dawson and Hulburt (1941). The discrepancy found in these measurements was not as great as that indicated by Tyler (1961) for water off the California coast, conversely, Jerlov (1961) shows the curve for theoretical water slightly below his measured values throughout the back scattering region.

"Surface Samples"

All of the surface samples from the cruise on the R/V Crawford were grouped into five categories which were defined as follows:

coastal water	-shore to 100 fm curve,
Bermuda water	-shore to 100 fm curve,
slope water	-100 fm curve to the western edge of the Gulf Stream,
Sargasso water	-eastern edge of the Gulf Stream to the 100 fm curve at Bermuda,
Gulf Stream water	-between slope water and Sargasso water.

The Gulf Stream was defined as the region where the bathythermograph section showed isotherms sloped sharply downward to the east, since it was undesirable to include any samples from the Sargasso water in the small Gulf Stream group.

The mean values and standard deviations of the ratio, $\sigma(30°)/\sigma(45°)$, and the partial scattering coefficient,

Table 1

	$\sigma(30°)/\sigma(45°)$	s(30-130)
Coastal water	3.33±0.22	
Slope water	3.32±0.14	0.0222±0.0053
Gulf Stream water	3.53±0.28	0.0195±0.0088
Sargasso water	3.61±0.26	0.0172±0.0044
Bermuda water	2.91±0.06	

s(30-130), for each of these groups appears in Table 1.

Applying t tests to these means, with a 95% confidence level, the slope water can be differentiated from Sargasso water both on the basis of s(30-130) and $\sigma(30°)/\sigma(45°)$. Coastal waters run more than a factor of three higher than open ocean water in s(30-130) but coastal water cannot be separated from the slope waters by $\sigma(30°)/\sigma(45°)$. Bermuda water has a much lower ratio than any of the others, indicating that the predominant scatterers are smaller. The picture may be summed up as a trend toward fewer and larger scatterers as one proceeds from the coast into the Sargasso region.

The s(30-130) values in port at Bermuda were over 0.1; whereas, just offshore they were in the 0.06 range. This is similar to the behavior of this parameter in coastal water.

"Hydrographic Station Samples"

Samples from twenty-four hydrographic stations were processed in the course of this work, but there were no well-developed trends or consistent features found in these stations. Two 200 meter stations showed that great variability can occur between bottles at normal sampling intervals. This emphasizes the necessity for "in situ" instrumentation that will continually record these variations.

One station showed a sharp increase in scattering at the 400 meter level, the top of the main thermocline. This increase was confirmed by two bottles, and was the highest level of scattering observed in the open sea.

"Thermal Front Survey"

In the neighborhood of a thermal front, similar to those discussed by Voorhis and Hersey (1964), the sorting of the results of the surface samples into arbitrary temperature intervals showed that the ratio, $\sigma(30°)/\sigma(45°)$ in the 22.8° water, 3.080 0.103, was different from the average of all other samples, 3.323 0.123, while the magnitude of the scattering showed no differences. There was no difference on either side of the front in the ratio or in the magnitude of the scattering. At the 22.8° isotherm a strongly developed line of weed, which is taken to be a sign of surface convergence, was noted once; coincidentally the lowest value of the ratio was observed.

"Determination of the Scattering Coefficient by Measurement at One Angle"

To test the hypothesis that the scattering coefficient can be determined from the measurement of $\sigma(\theta)$ at one angle, the ratios, $s/\sigma(\theta)$ and $s(30\text{-}130)/\sigma(\theta)$ were computed. The average of these ratios for 30° and 45° and their standard deviations yielded the results given in Table 2. These values show that s(30-130) can be calculated with a standard

TABLE 2

	s(30-130)/σ(30°)	s(30-130)/σ(45°)	s/σ(30°)	s/σ(45°)
Shelf water	1.134±0.053	3.739±0.111	4.801±0.450	16.38±2.86
Slope water	1.207±0.097	4.044±0.202	5.417±0.712	18.05±2.83
Gulf Stream water	1.171±0.070	4.119±0.209	6.064±1.663	21.96±7.75
Sargasso water	1.174±0.064	4.220±0.159	6.358±1.141	22.97±5.53
Bermuda water	1.323±0.022	3.845±0.033	4.399±0.240	12.79±0.81
Average (excluding Bermuda water)	1.173±0.069	4.118±0.227	5.976±1.265	21.33±6.10

deviation of less than 6% from the measurement of $\sigma(45°)$, but they also show that a bias is introduced by the water type.

No true estimate of the precision in obtaining s from $\sigma(\theta)$ at one angle can be made from these ratios, since the extrapolation required to obtain $\sigma(\theta)$ at angles less than 30° may yield results grossly in error.

PRECISION AND ACCURACY

The absolute value of the measured volume scattering function is estimated to be correct within 10%. This is based on the accuracy of the calibration factors that are used in the reduction of the observed data to the volume scattering function.

In determining the precision of the measured values, samples taken by pump and processed immediately must be given seperate consideration from those taken by bottle in hydrographic stations that must wait perhaps three hours to be processed.

The standard error of ln $\sigma(\theta)$ for the pumped surface samples was found to be 0.034. For the samples that were taken by Nansen bottles the standard errors were: for the ln-ln slope between 0° and 5°, 0.018; for ln s(30-130), 0.27; for ln $\sigma(30°)$, 0.31; and for ln $\sigma(90°)$, 0.24.

Some of these standard errors are very large, yet there is no consistent pattern of change as a function of time in the samples. This implies that the physical and biological processes were not the same in each sample and that particulate distributions can not be accurately determined by other than "in situ" methods. It has been shown, however, that certain water types can be differentiated by their scattering characteristics.

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MEASUREMENTS OF THE FORWARD SCATTERING OF A LASER BEAM IN SEA WATER

by

A. F. Spilhaus, Jr. and W. S. von Arx

Curves of the volume scattering function for sea water show that the intensity of scattered light increases quasi-exponentially as the angle of observation diminishes (Duntley, 1963; Kozlyaninov, 1957). One method of obtaining the portion of the extinction coefficient due to scattering is the integration of the volume scattering function, $\sigma(\theta)$, in the form:

$$s = 2\pi\int_0^\pi \sigma(\theta)\sin\theta d\theta,$$

where s is the scattering coefficient, and θ is the angle of observation.

Table 1 gives the percent of s lying between 0° and θ°; it was constructed by numerically integrating the expression for the scattering coefficient using data which are a composite of those of various investigators as tabulated by Jerlov (1963). This table demonstrates that the measurement of low angle scattering is critical in the determination of s and that s can be found with a fair degree of precision by measuring only the low angle scattering.

An experiment designed to measure the relative low angle scattering over a variety of surface waters was car-

Table 1

$\theta°$	$\%s(0°-\theta°)$
5°	25%
10	55
15	67
20	75
30	85
50	93
90	98
130	99

ried out aboard the R/V Chain between Woods Hole and Port Lewis, Mauritius.

A gas laser was employed as the light source in the scattering apparatus. Since lasers provide an easily regulated, intense, collimated, monochromatic pencil of light, they are uniquely adaptable to scattering work. The mode used was at 6328 Å.

One end of a cylindrical, lucite cuvette was fastened firmly to the laser housing so that the beam was directed along the axis of the cuvette. A barrier-layer photocell, of diameter equal to the diameter of the cuvette, was attached to the end opposite the laser housing. The spot where the beam would have struck the sensitive surface was blanked out. At the open end of the laser, where a fixed fraction of the primary energy is emitted, a silicon photocell monitored the laser intensity.

The apparatus is shown in Figure 1. The sea water intake was 3 meters below the waterline, but the ship's plumbing required the pump to be 2 meters above the waterline. To suppress bubble formation the sample was pushed through the cuvette at a gauge pressure of 0.1 atm. which was maintained by adjustment of the overflow and outlet rates.

As particles passed from the inlet to the outlet port, the lower limit of the acceptance angle for scattered light

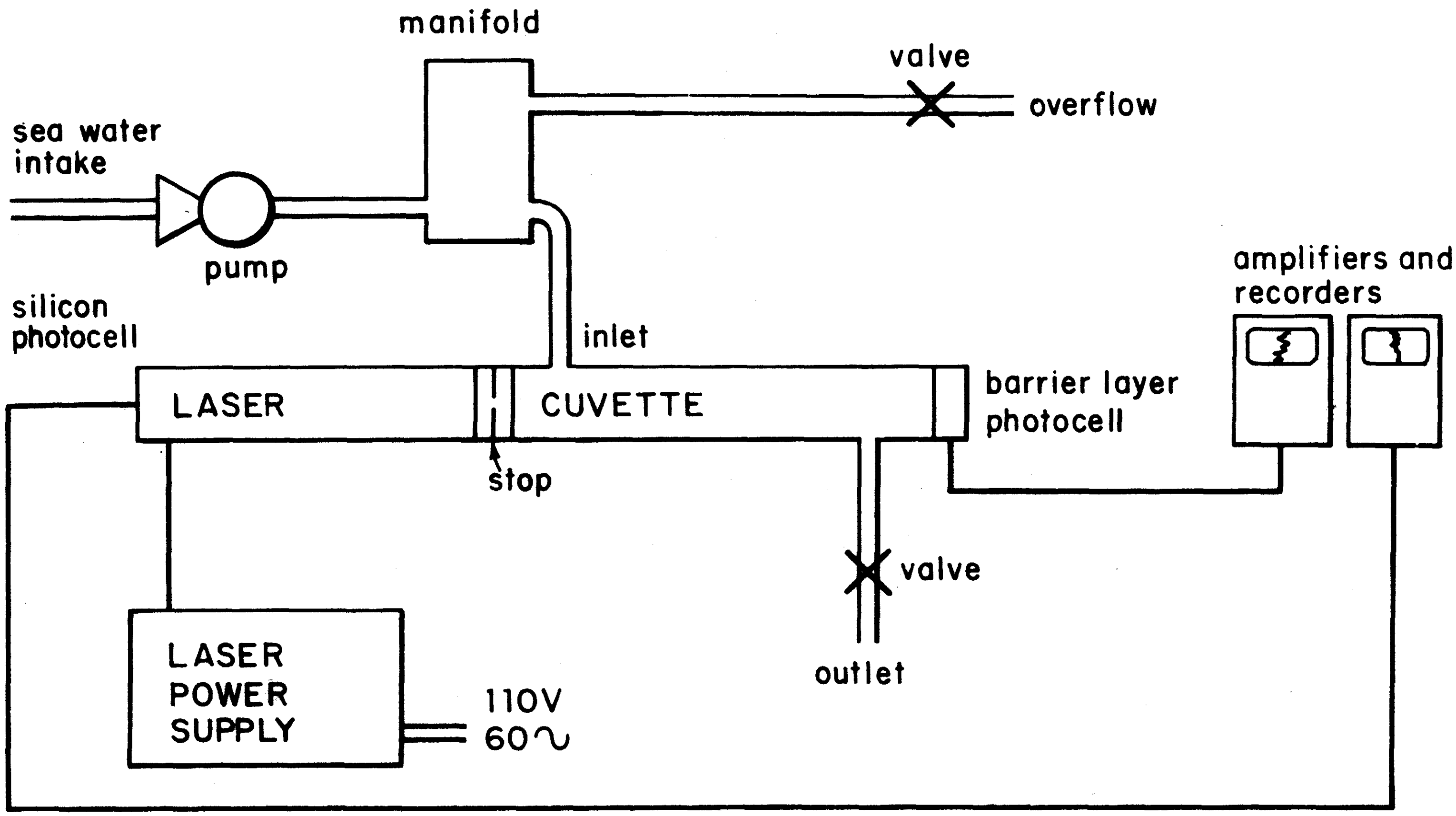

Fig. 1. Apparatus for forward scattering studies.

varied from 0.5° to 5° while the upper limit varied from 20° to nearly 90°. Table 1 shows, however, that this change affected the total energy received by less than 20%. This change would have been noticable only when studying features that were passed through in less than the three minute flushing time of the cuvette. These features will be exaggerated so that increases will appear to be of greater extent and lesser magnitude, while decreases may be obscured by scatterers still present in the system.

Figure 2 shows the ship's course during the experiment.

The scattering and surface temperature curves for the Atlantic traverse are given in Figure 3. The scattering results have been normalized to the lowest value found in the mid-Atlantic section where the intensity of scattered light was low and nearly constant. The widest variations in the western portions of the track were associated with changes of sea water temperature, and the influence of inshore processes is evident in the steep rises near Madiera and the African coast.

In the Strait of Gibralter peaks of scattering were observed that seem to be related to the three major bottom rises. These were up to threefold increases over the neighboring valleys.

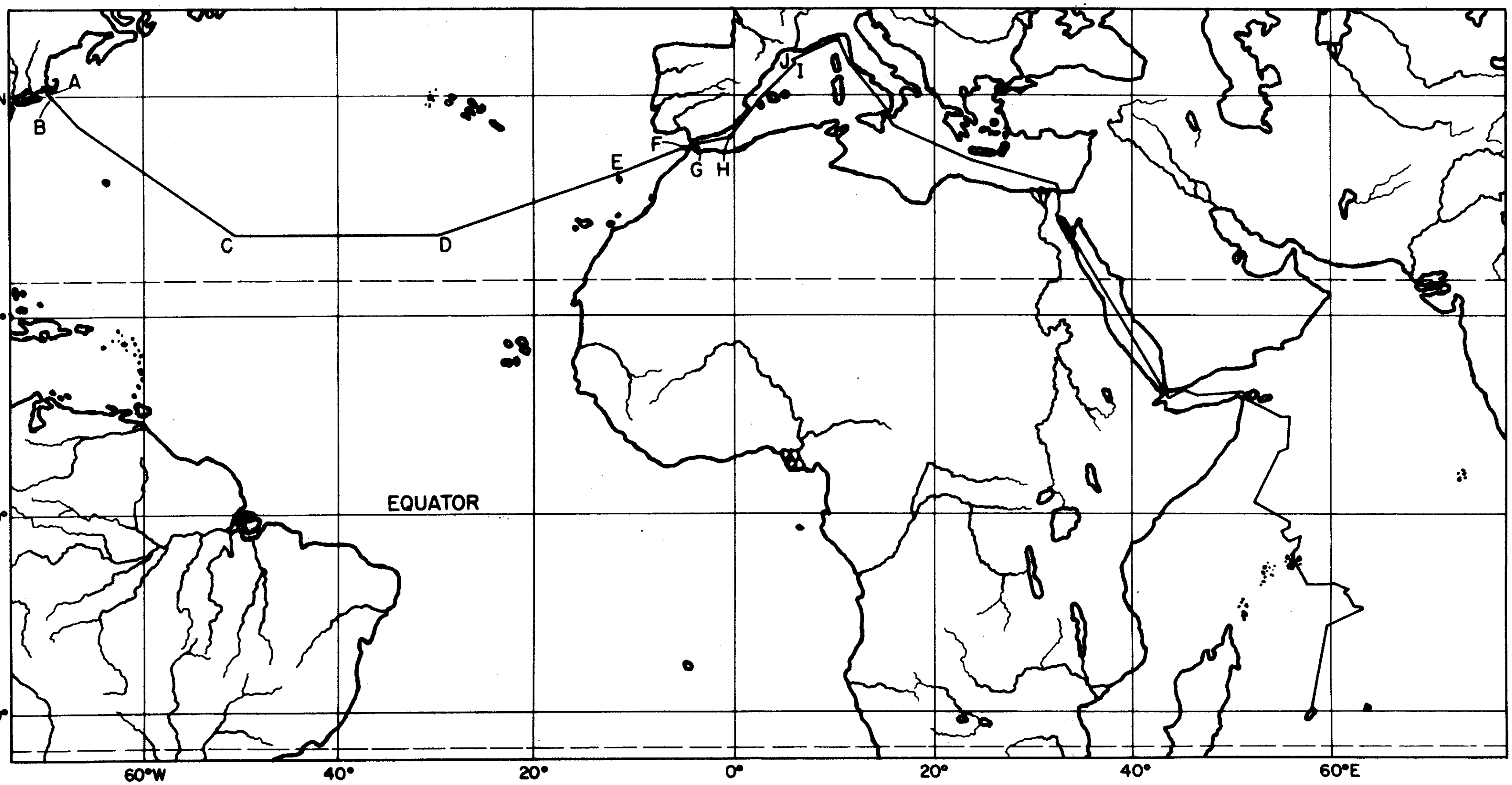

Fig. 2. The ship's track: Woods Hole to Port Lewis, Mauritius.

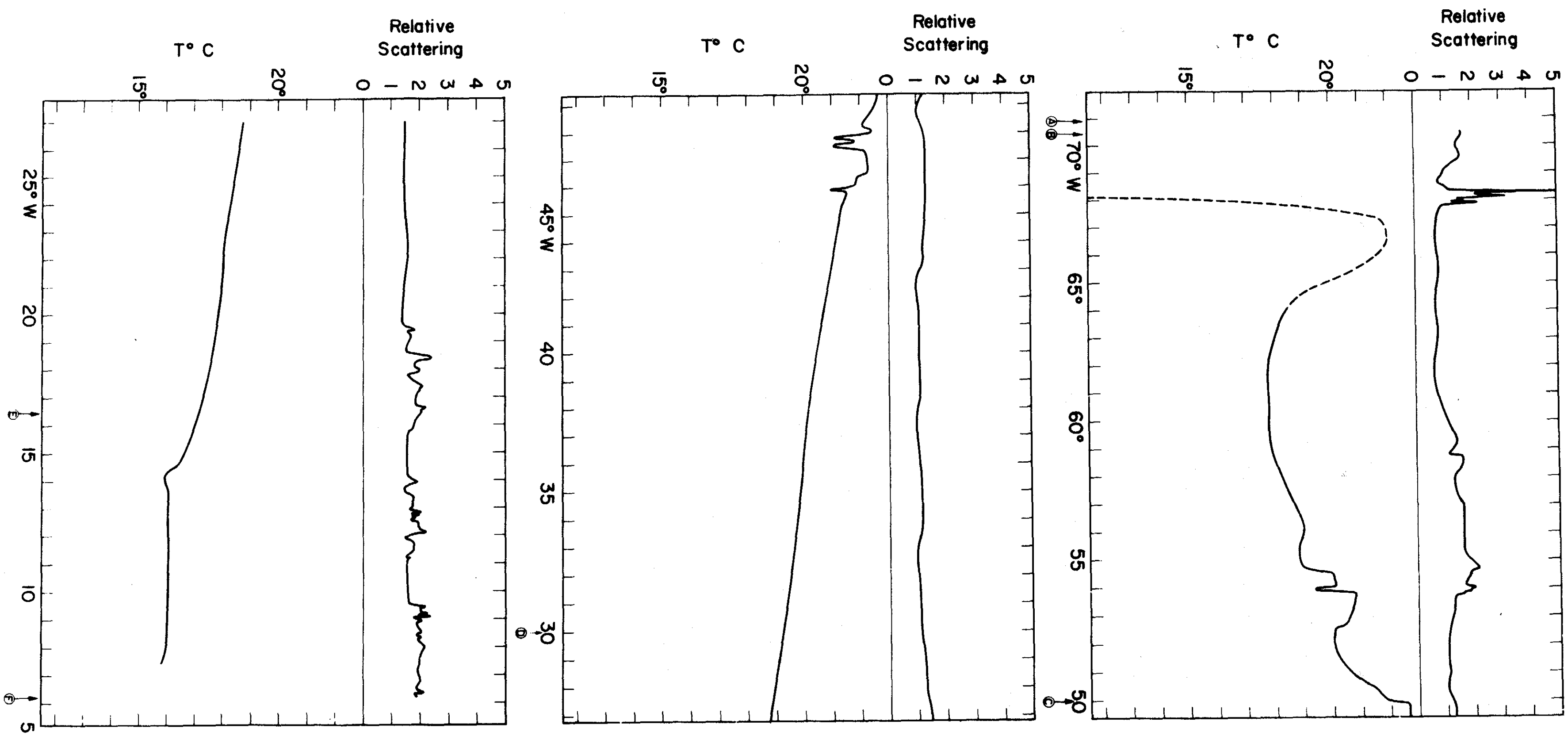

Fig. 3. The forward scattering and surface temperature for the North Atlantic traverse.

The western Mediterranean traverse, Figure 4, shows scattering two to three times the mid-Atlantic values. There is great variability associated with the proximity of land. In the eastern Mediterranean the scattering became more constant as the distance from land increased

The lowest scattering recorded, six to nine-tenths of the mid-Atlantic values, was in the Indian Ocean beginning near the equator and extending to 20° S., which was as far as measurements were made.

In summary, the scattering coefficient can be obtained by measurements of the low angle scattering. Wide fluctuations occur near land. In the open sea there is little variation except in the presence of rapid surface temperature gradients; however, the base value is different for different bodies of water.

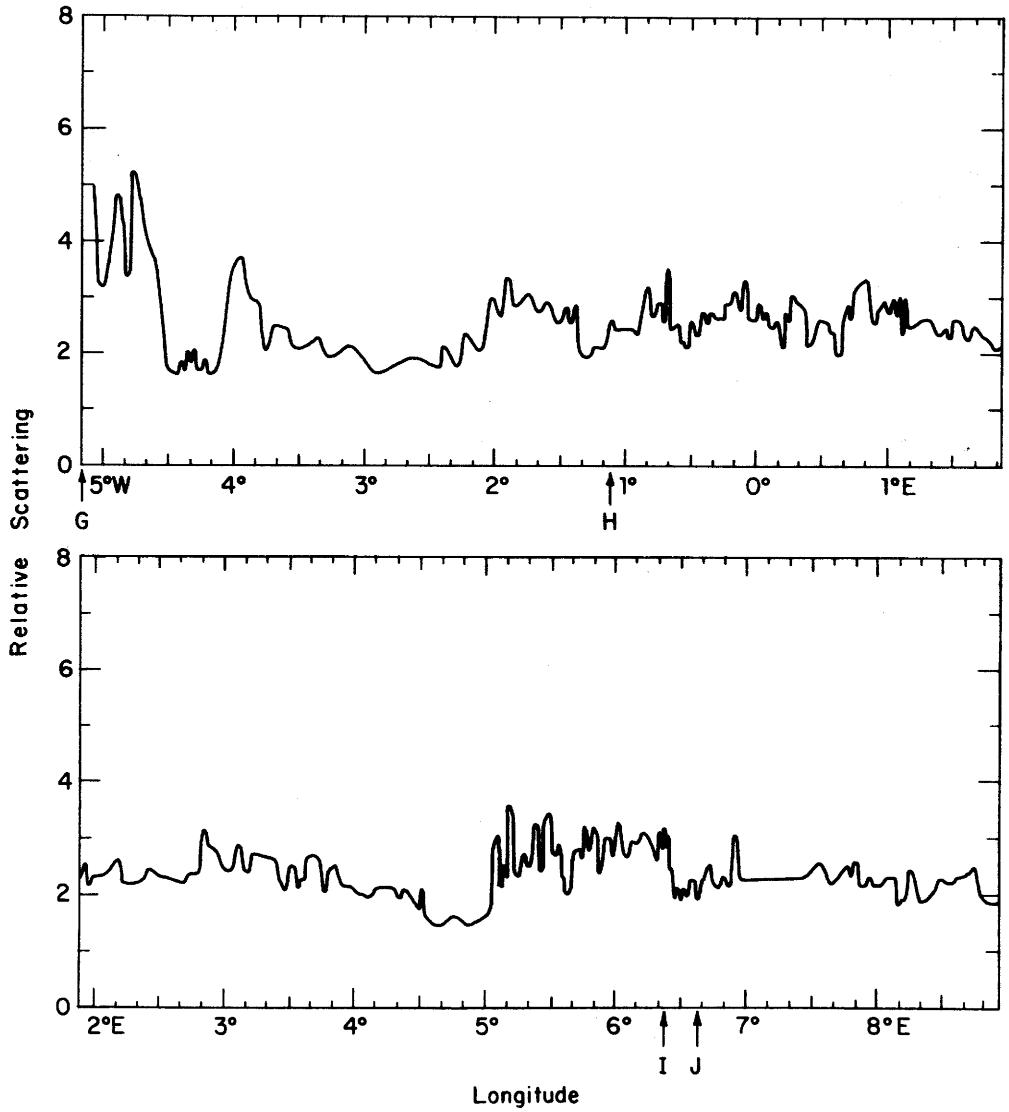

Fig. 4. The forward scattering in the western Mediterranean.

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PART TWO

CHAPTER ONE

INTRODUCTION

1.1 Preliminary Remarks

This work is an effort to define the variability of the volume scattering function for sea water of several different types. Measurements of scattering may hold the key to the determination of particulate distributions and as such might be useful to oceanographers in many phases of their work.

The volume scattering function, $\sigma(\theta)$, is defined by the equation:

$$\sigma(\theta) = \frac{J(\theta)}{Hv}$$

where $J(\theta)$ is the intensity of scattered light in the direction θ, H is the irradiance input and v the scattering volume which is determined by the intersection of the beams of incident and scattered light.

Figure 1-1 shows three theoretical curves of the volume scattering function taken from the tables for monodisperse spherical particles of Ashley and Cobb (1958) and Gumprecht et al (1952). Two of these curves are for single particles of the same size differing in index of refraction and the third is for ten particles of a smaller size. The sum of these three curves is shown in Figure 1-2 together with the theoretical curve for one thousand scatterers of a smaller size and the sum of the four monodisperse systems. Sizes are given in terms of α which is defined as $\pi d/\lambda$, where d is the diameter of the particle and λ the wavelength of the radiation. The index of refraction difference, Δn, is the index for the particles minus that for the solvent.

It is obvious that the combination of these monodisperse systems results in the toning down of maxima and minima. The extension of this logic to more disperse systems yields curves in which only major features are evident. Any appearance of local maxima and minima is, therefore, an indication of a trend to monodispersity. These curves also indicate that the rise in the small angle region of this function becomes steeper as the particle size increases. A comparison of curve D to curve E, which latter represents considerably smaller particles, illustrates this effect. In a qualitative sense this criterion may be applied to the volume scattering function for sea water; however, there is no reason that the theoretical curve for any monodisperse system should match that for the natural environment.

In the course of this study two experiments were made which yielded information on the shape of the volume scattering function and its magnitude for sea water. In the first, measurements of $\sigma(\theta)$ were made with monochromatic light on four hundred samples from surface and subsurface locations between Woods Hole and an area in the Sargasso Sea south of Bermuda. In this region, where sharply contrasting

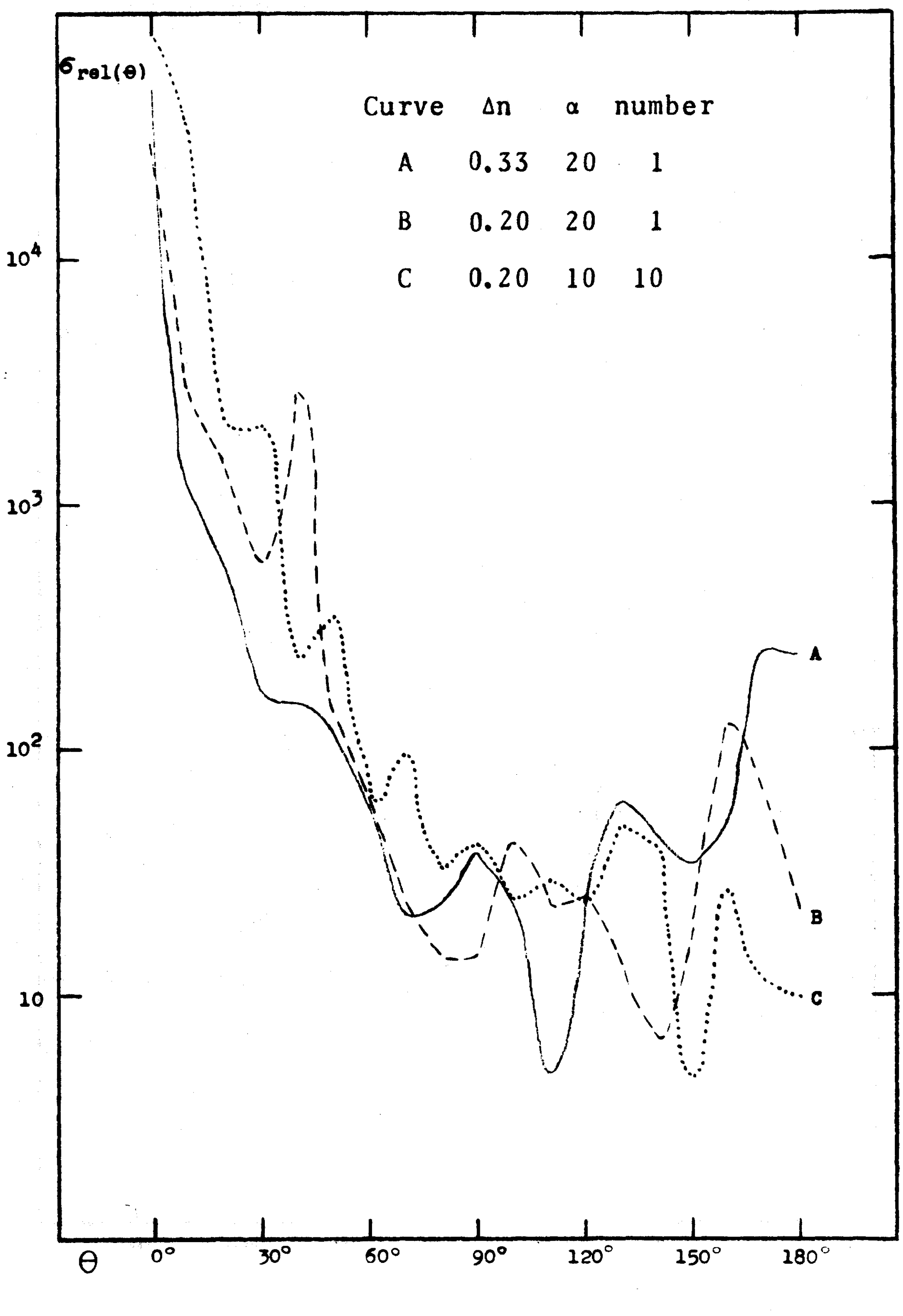


Fig. 1-1. Theoretical curves of the volume scattering function for three systems of monodisperse scatterers.

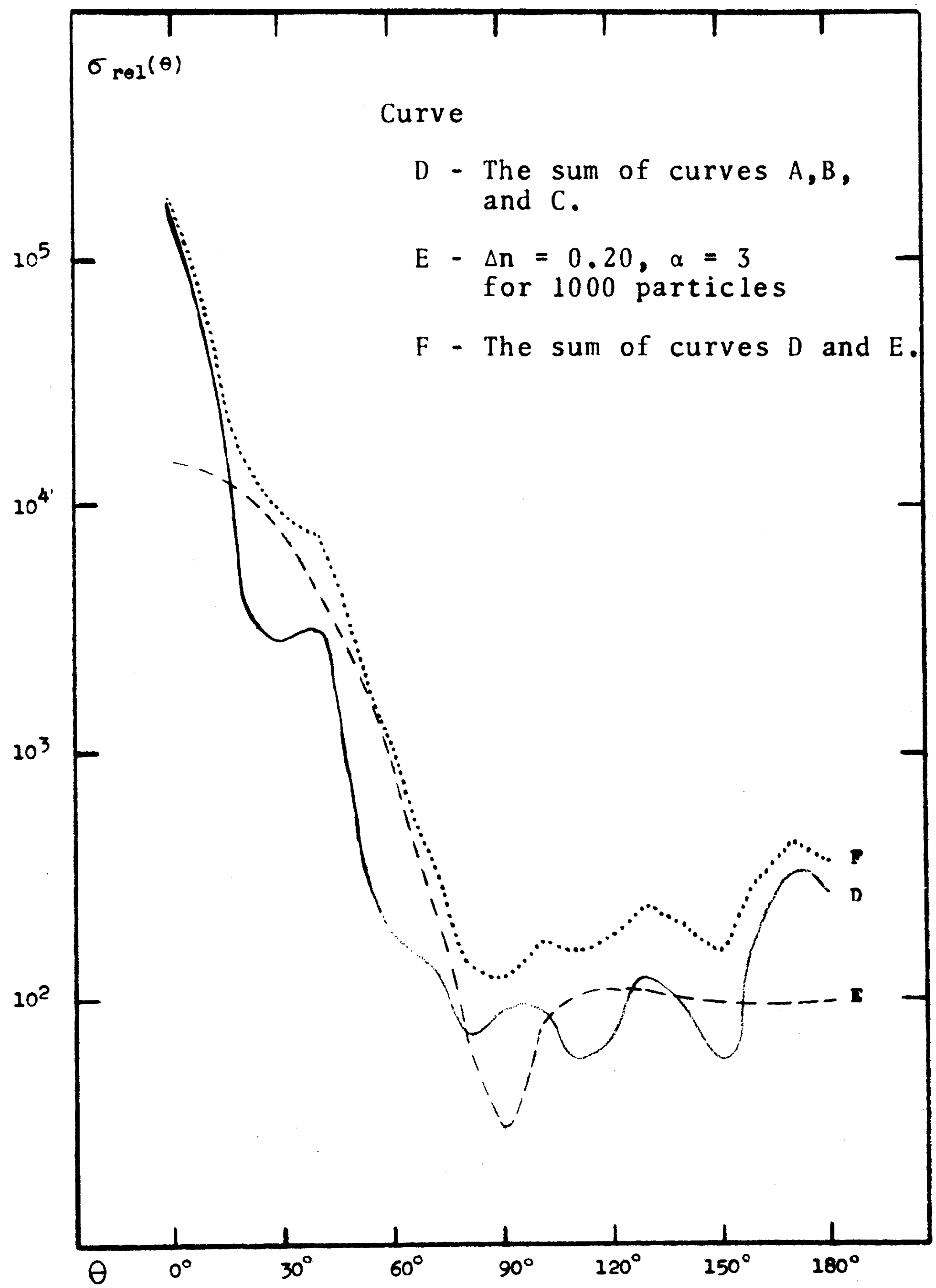


Fig. 1-2. Theoretical curves of the volume scattering function for two systems of polydisperse scatterers and one system of monodisperse scatterers.

water types are found, the variations in the volume scattering function were correlated with concurrently observed temperatures and salinities. In the second experiment, a laser was employed in the study of the relative magnitude of the forward scattering by sea water over a variety of surface water types.

1.2 History

The first measurements of the volume scattering function in sea water were made by Ramanathan (1923). His values indicated that the predominant scatterers are large compared with the wavelength of visible light and the the back scattering in sea water approaches that in pure water. Jerlov (1961) came to the same conclusion from more extensive measurements. Ramanathan was inspired to do his work by a controversy over the cause of the coloration of sea water in which Raman (1922) contended the color of the sea was due to the molecular scattering of the water rather than to reflection of the blue color of the sky as Rayliegh had suggested. It is interesting to note in this connection that another geophysical phenomenon, the color of the sky, was the question that first brought the minds of Rayliegh (Strutt, 1871 a, b) and Tyndall (1869) to bear on the phenomenon of light scattering.

The work of Ramanathan was the first and also the last measurement of the volume scattering function in sea water for over twenty years. The next measurements were reported by Hulburt (1945). In the interim work was centered on a study of the angular distribution of submarine daylight as outlined by Atkins and Poole (1940).

At the time of Hulburt's observations his interest was focused on the wavelength selectivity of the scattering and it appears that his measurement of the volume scattering function was made as a by-product. One of the important errors in the analysis of scattering data may have arisen from this source. Hulburt attempted to integrate the volume scattering function to obtain the scattering portion of the attenuation coefficient, and, in extrapolating his measurements, he made it appear that the volume scattering function decreases at small angles. Measurements by Kozlyaninov (1957) and Duntley (1963) have shown that this is not true. In Chapter Three of the present discussion it is shown that any integrations made on the basis of inaccurate extrapolations will be grossly in error.

Atkins and Poole (1953) presented the first extensive study of the volume scattering function. They collected samples and processed them ashore. The results are similar to those obtained by later investigators using both "in situ" and shipboard techniques. These authors pointed out the possibility that the greater part of the scattering lies at angles less than 20° and were the first to ascribe this to refraction by transparent particles.

Recent measurements of the volume scattering function have been published by Kozlyaninov (1957), Sasaki et al (1960), Pickard and Giovando (1960), Jerlov (1961), Tyler (1961a), Hinzpeter (1962) and Duntley (1963). The measurements of Sasaki, Pickard and Giovando, and Hinzpeter were made on samples extracted from their environment, while the others worked "in situ". Jerlov (1963) showed that none of these measurements differ in gross features; however, it is shown in this work that the volume scattering function evidences variations that have a physical meaning.

Sasaki (1960) and Jerlov (1961) compared the shapes of the volume scattering functions that they obtained to theoretical curves for various monodisperse systems and drew conclusions about the size of particles in the sample. Jerlov (1961) stated that his measurements of the volume scattering function showed no palpable differences. He made no further attempt to identify the characteristics of a parcel of water by this scattering property. Sasaki (1960) also compared his curves with theoretical curves, but he indicated that he believed real differences exist. It was on this basis that the following work was carried out, in which it is shown that the scattering properties of a parcel of water do characterize it to some extent.

CHAPTER TWO

PREPARATORY EXPERIMENTS

2.1 Introduction

Early in this work two instruments were constructed to measure, "in situ", the volume scattering function at three fixed angles. A third instrument was constructed to obtain information on the synoptic variation of the total scattering coefficient. None of these experiments was wholly successful; however, the second fixed angle scattering meter produced results that put the study on its final course, a very general look at the shape and magnitude of the volume scattering function in sea water.

2.2 Fixed Angle Scattering Meters

The first instrument measured the volume scattering function at 20°, 45°, and 135° in turbid water; however, it did not have enough sensitivity to measure back scattering in clear sea water. Its shape made it amenable to use as a towed device. This instrument continuously recorded scattered light from a collimated beam; in a two minute cycle it provided information on the scattered light at the three angles as well as sampling the beam.

The case consisted of two concentric steel pipes of one-half inch wall thickness, of which the outer had an inside diameter of nine inches and the inner an outside diameter of five inches. The electronics and working parts were placed in the two inch annulus between the pipes which was sealed at each end by removable plates. The sample flowed along the axis of the pipes. A two inch wide semicircular slice perpendicular to the axis of the pipes was removed from a section equidistant from each end, and the gaps left in the annular chamber were sealed by welding one-half inch steel plate in them. The windows, made from one-quarter inch thick lucite, were placed circumferentially on the inner pipe opposite this slice, eliminating internal reflections in the scattering volume.

Two slits collimated the incident beam to a divergence of less than $.1^{\circ}$ in air. A calibration signal was obtained from the scattering of the incident beam in a lucite block, before the beam entered the water. There were three detection ports each of which had behind it a two-slit collimator, with a 5461 Å interference filter between the slits.

All of the signals were led to the same photomultiplier tube by fiber optics. At the tube a rotating disk, with one hole in it, selected the fiber bundle to be observed. This disk was driven by a small electric motor through a geneva motion. The geneva motion also rotated a shutter which intercepted the light beam one-third of the time. The ambient light was recorded while the beam was cut off.

The light source was a 100 watt mercury arc tube, which was driven by a stablized voltage transformer and filtered rectifier circuit on deck. This lamp was in series with a 6 volt zener diode resulting in a drop of 130 volts across the lamp's 170 ohms. The ballast transformer provided even current delivery to the mercury arc and consequently relatively even light output.

The photomultiplier tube was employed in a circuit similar to that used by Breslau (1958) which yields a logarithmic response to light intensity. The circuitry of this instrument is shown in Figure 2-1.

The output of the photomultiplier tube controlled the frequency of a multivibrator. This signal was amplified, passed through a blocking capacitor, and transmitted on the same cable that carried the D. C. power. A 0.3 henry inductor was included in the power supply to prevent shorting of the signal. The multivibrator and amplifier were operated in parallel with the zener diode.

A D. C. to D. C. converter provided the various voltage levels required by the circuity. This supply utilized a one kilocycle toroid oscillator with three secondary windings to supply the heater voltage, 1.25 volts, the screen grid voltage, 22.5 volts, and 600 volts, which was doubled in the rectification process to obtain 1200 volts for the photomultiplier circuit. Since very little current was drawn by the photomultiplier tube, the current used by the converter was only a small fraction of that which passed through the zener

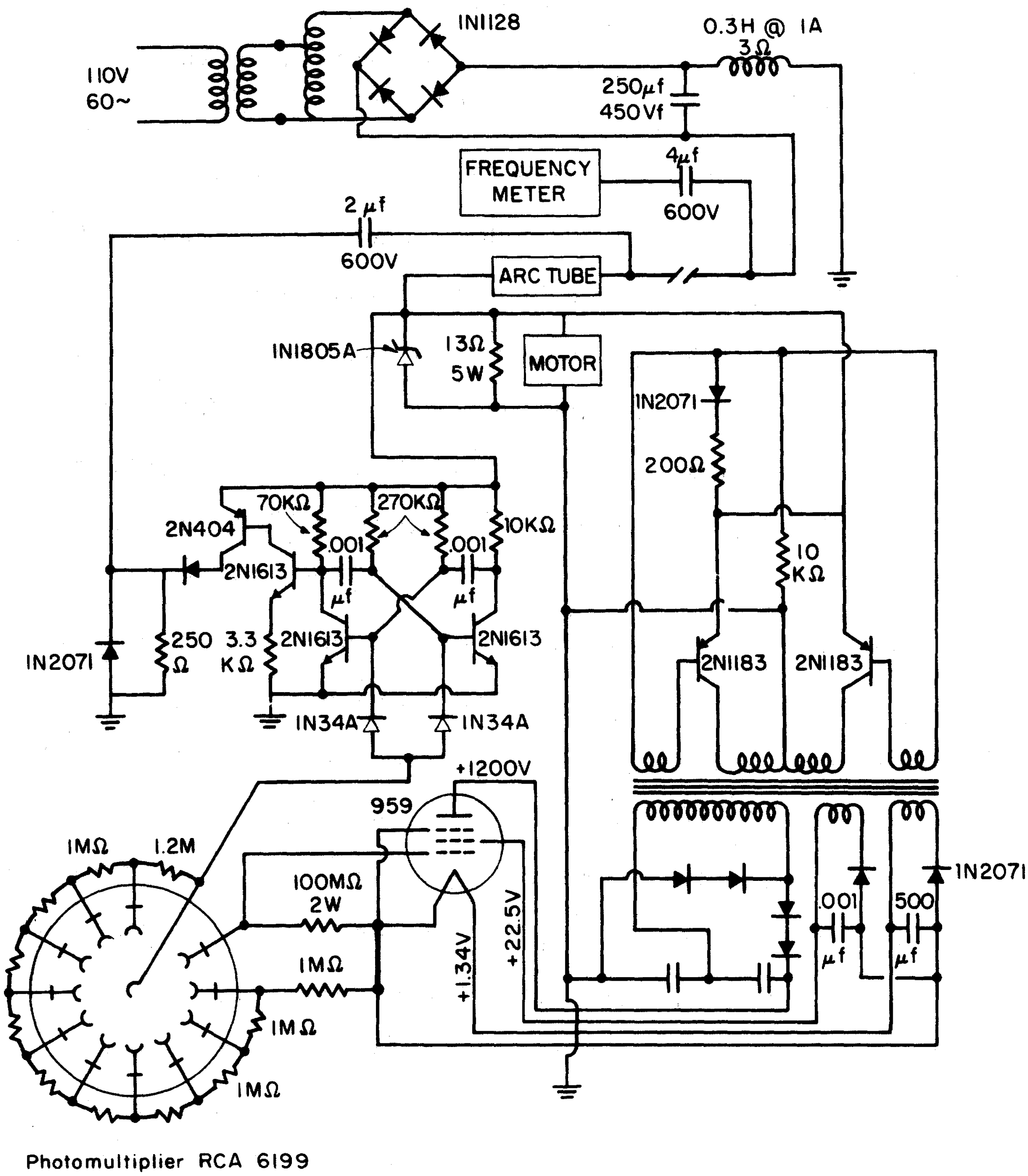


Fig. 2-1. Circuit diagram of the first fixed angle scattering meter.

diode. Being in parallel with the zener diode, it did not influence the lamp operation.

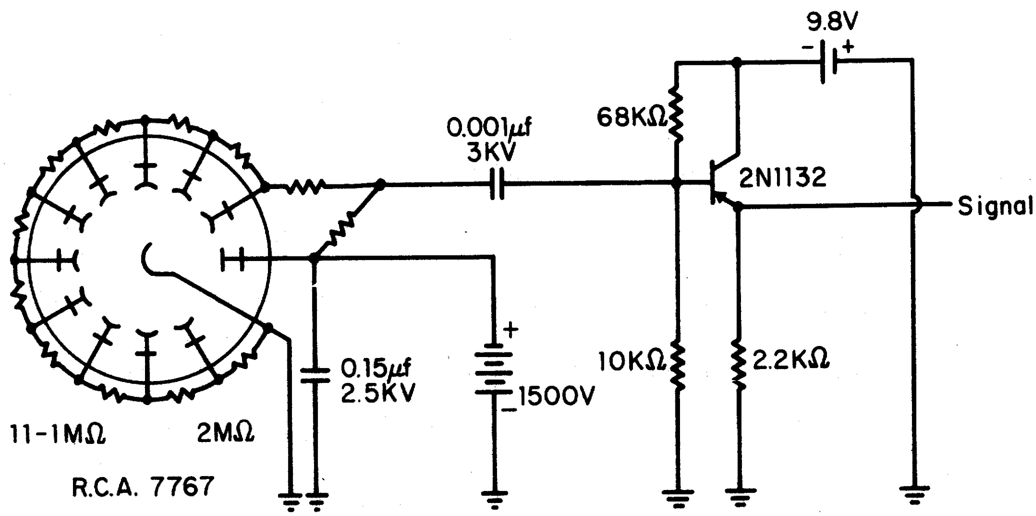
Because this device did not have enough sensitivity to measure back scattering in clear sea water, another instrument was constructed.

In the second design, the light source was a xenon flash tube that was pulsed twice each second with a flash duration of five microseconds. The beam was collimated to 3° in water. This source was housed in a two inch aluminum cylinder, which had a lucite cap at one end and at the other end an aluminum cap through which the electrical connections were made. The device was powered by batteries carried in a separate case.

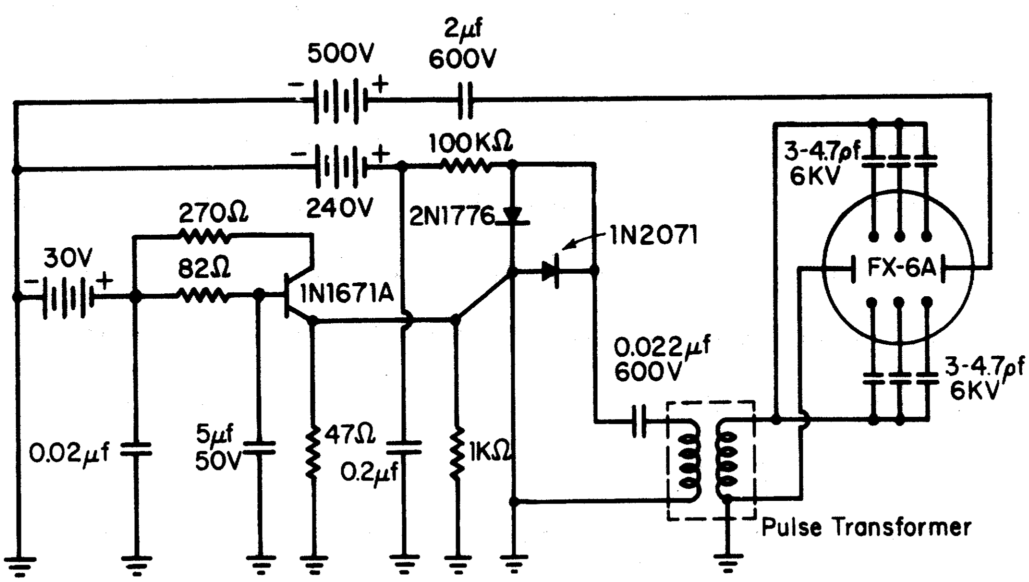
The detectors were similarly housed. Each one consisted of a two-slit collimator, an interference filter, a photomultiplier tube, and an amplifier. The circuitry of the detectors and the light source is shown in Figure 2-2.

The output of the detectors was a pulse of five microseconds duration, which was fed through a coaxial cable to the surface where readout was made on oscillographs. Multiple flashes were recorded, and their mean peak height taken in order to eliminate flash intensity variations. A manually cycled stepping switch, with one blank position for coding, determined which detector was being monitored.

The detectors and the light source were fastened to a



A detector



The strobe light source

Fig. 2-2. Circuit diagrams of the second fixed angle scattering meter.

semicircular aluminum plate which supported the detectors at angles of 20°, 45° and 135° with the incident beam.

A detector was calibrated by placing the light source opposite it and interposing neutral density filters. In this way curves of light intensity versus pulse height were obtained for each detector. This procedure was carried out before and after lowerings to ensure that the relative sensitivity values between detectors had not changed.

The results of lowerings made from R/V Crawford and R/V Chain are summarized in Table 2-1. The ratio of $\sigma(20°)$ to $\sigma(45°)$ showed signifigant covariations. One would expect this ratio to characterize a polydisperse system of Mie scatterers where specific maxima and minima are washed out, but size distributions may vary.

Table 2-2 is a condensation of the results of other investigators taken from published works. These ratios are merely a guide to the magnitude of the variations, since in some cases the values are the result of extrapolations or interpolations of the published data. The large variations in the $\sigma(20°)/\sigma(45°)$ column is again remarkable.

These results prompted the study of the scattering function over a wider range of angles, which is detailed in Chapter Four. They also gave an early indication of the variation of the scattering function with water type.

2.3 Integrating Scatterometer

The third instrument constructed during the preparatory

TABLE 2-1

Location	σ(20°)/σ(45°)	σ(45°)/σ(135°)
39°47'N 71°00'W (Shelf edge)	6.6	5.7
38°45'N 70°21'W (Slope)	12.6	7.9
" " repeat	8.1	5.6
39°00'N 66°21'W (Eastern edge of the Gulf Stream)	1.8	22
39°30'N 66°30'W	2.5	6.8
40°00'N 66°00'W	3.5	6.3
40°47'N 68°33'.5W (Georges Bank)	5.5	6.3

TABLE 2-2

Investigator	Location	$\sigma(20°)/\sigma(45°)$	$\sigma(45°)/\sigma(135°)$
Pickard & Giovando (1960)	British Columbia inlets	60	166
		80	17
Tyler (1961)	San Pedro Bay	8.9	12
	Between San Pedro Bay and Santa Catalina	9.1	6.3
	Near Santa Catalina	11	6.4
	Near San Clemente	9.8	5.8
Jerlov (1953)	"Average ocean water" 465mμ	13	5
Hinzpeter (1963)	Near Langeland 400mμ high scattering	7.3	2.4
	low "	7.5	5.7
	700mμ high "	2.3	8.6
	low "	5	8
Sasaki et al (1960)	Japan Trench 600 meters	6.8	7.5
	1500 "	4	4.2
	2650 "	2.9	8.7
	3000 "	15	1.7

experiments was a device similar to that suggested by Beuttel and Brewer (1949) and later adapted for sea water by Jerlov (1961) and Tyler and Howerton (1962). This device consisted of a collimated light source with a cosine collector whose surface was parallel to the beam and placed as close to the beam as possible without intercepting it.

This instrument was placed in the center well of the R/V Chain and operated on one cruise. In the Sargasso Sea a series of measurements was obtained in which during four hours the scattering doubled seven times for a period of one minute each, which could have been the result of lines of convergence that are frequently present in this area. The results were, however, more generally disappointing since it was difficult to hold the source intensity constant. A more rewarding experiment with a similar objective is discussed in the next chapter.

CHAPTER THREE

FORWARD SCATTERING MEASUREMENTS

3.1 Introduction

Curves of the volume scattering function for sea water show that the intensity of scattered light increases rapidly as the angle of observation diminshes. This increase approximates an exponential function of θ in which, from 30° to 70°, the exponent lies near 3. Measurements by Duntley (1963) and Kozlyaninov (1957) indicate that at smaller angles the rise is even steeper, perhaps due to refraction of rays by relatively large particles of biological material that have an index of refraction near that of sea water, (Duntley, 1963; van de Hulst, 1957).

To obtain the portion of the attenuation coefficient due to scattering one may determine the volume scattering function, $\sigma(\theta)$, and integrate it according to the form:

$$s = 2\pi\int_0^\pi \sigma(\theta)\sin\theta d\theta,$$

where s is the total scattering coefficient and θ the angle of observation. Figure 3-1a is a typical example of $\sigma(\theta)$ drawn from the data of several authors as tabulated by Jerlov (1963). The effect of multiplying $\sigma(\theta)$ by $\sin\theta$ is shown in Figure 3-1b; it is the area under this curve that

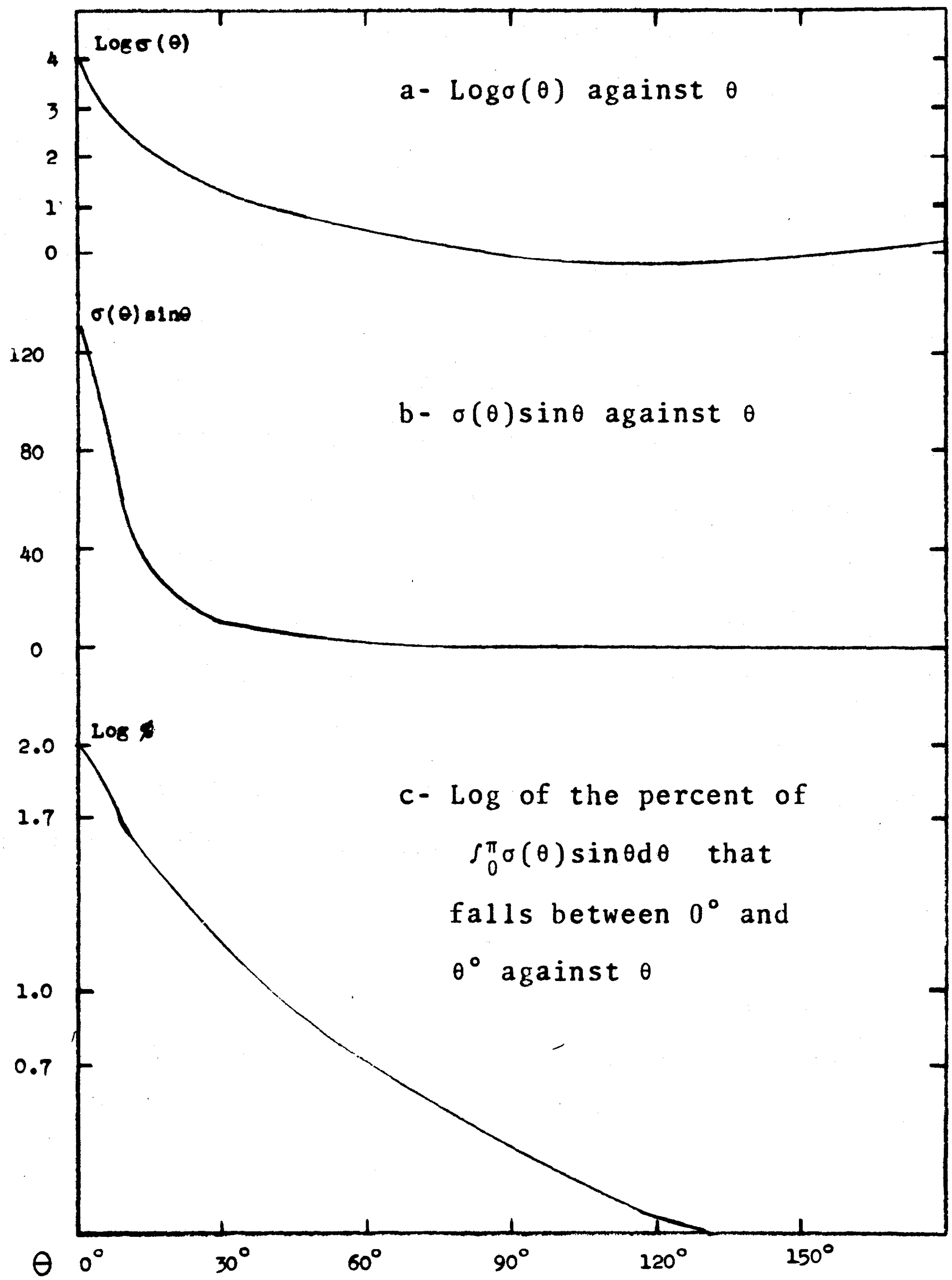

Logσ(θ)
4
3
2
1
0
a- Logσ(θ) against θ
σ(θ)sinθ
120
80
40
0
b- σ(θ)sinθ against θ
Log %
2.0
1.7
1.0
0.7
c- Log of the percent of
$\int_0^\pi \sigma(\theta)\sin\theta d\theta$ that
falls between 0° and
θ° against θ
θ
0°
30°
60°
90°
120°
150°

Figure 3-1

is proportional to the scattering coefficient. Figure 3-1c, constructed by graphical integration of $\sigma(\theta)\sin\theta$, gives the percentage of the integral that occurs between 0° and any angle. This curve shows that, if the scattering coefficient is determined by mathematical integration, its accuracy is governed by the accuracy with which $\sigma(\theta)$ can be determined at small angles. If an error of a factor of two is made in $\sigma(\theta)$ at angles less than 10°, an error of approximately 40% is made in the scattering coefficient. This conclusion is in direct contradiction to statements by Tyler (1961 b) and Duntley (1963) to the effect that the scattering coefficient is insensitive to the magnitude of $\sigma(\theta)$ at small angles.

The only reported measurement of scattering at small angles in sea water is that of Kozlyaninov (1957) which is an isolated point in a rather large system. For this reason a survey of the relative forward scattering of varied surface waters was undertaken, using a continuously recording instrument.

3.2 Apparatus

A device to measure continuously relative scattering in sea water at small angles was taken to sea on the R/V Chain in the spring of 1964 and operated from Woods Hole to Port Lewis, Mauritius.

A gas laser, Perkin Elmer Model 5200, was employed for the light source. Since lasers provide an easily regulated, intense, collimated, monochromatic pencil of light, they are uniquely adaptable to scattering work. The mode used was at 6328 Å.

One end of a cylindrical, lucite cuvette was fastened firmly to the laser housing so that the beam was directed along the axis of the cuvette. A stop was inserted in the beam at this junction. The cuvette was 25 cm. long, had a diameter of 4.3 cm. with inlet and outlet ports as shown in Figure 3-2. It was wrapped in black tape to eliminate ambient light and to reduce reflections at the air-wall interface.

Two detectors were employed. A Weston "Photronic" barrier layer cell was fastened to the end of the cuvette opposite the laser. The sensitive area of this detector was of the same diameter as the cuvette, and the spot where the laser beam would have struck it was blanked out by a disk 0.7 cm. in diameter. The second detector was a silicon photocell placed at the other end of the laser. It received a fixed fraction of the energy generated and was used to monitor the incident energy. The signals from the two detectors were amplified and recorded simultaneously

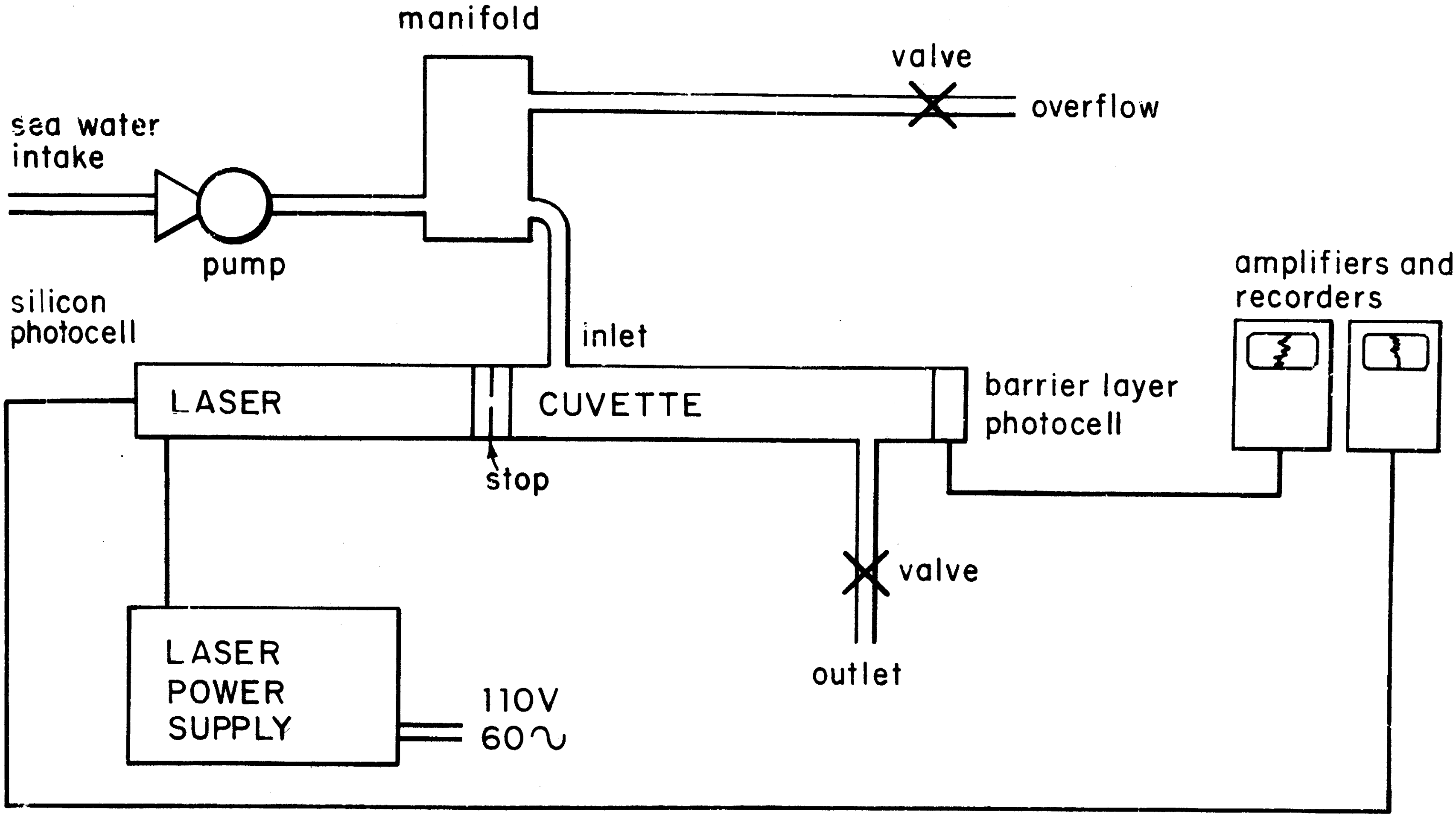


Fig. 3-2. Apparatus for forward scattering studies.

on strip chart recorders.

The sea water sample was obtained through an "uncontaminated" inlet three meters below the waterline, but, due to the ship's plumbing, the teflon gear pump that was used had to be placed two meters above the waterline. The sample was pumped into a manifold first and from the manifold most of it was allowed to overflow while some was diverted into the cuvette. This allowed some rising time for the escape of large bubbles that form in the process of drawing the sample. To suppress the smaller bubbles in the sample a positive pressure of 0.1 atm. was maintained in the cuvette by adjusting the outlet and overflow rates.

The geometry of the system was such that the scattering detected from a particle entering the beam near the inlet port was between 0.5° and 5°. Midway between the inlet and exit ports this acceptance angle was between 1.5° and 10°; however, this changing of the acceptance angle is shown in Figure 3-1c to affect the total energy received by less than 20%. Such a change will be observable as a rounding of sharp peaks. This change would have been noticeable only when studying features that were passed through in less that the three minute flushing time of the cuvette. Such features will be exaggerated so that increases will appear to be of greater extent and lesser magnitude while decreases may be obscured by scatterers still present in the system.

3.3 Operation

The only regular attention this apparatus required other than changing chart paper every ten days was adjusting the scale factor on approaching land, and occasionally flushing bubbles during very rough weather.

Early in this experiment a scratch on the face of the cuvette resulted in a portion of the beam being scattered by the lucite. The system was realigned to remove this scratch from the beam, and results taken before this was done were corrected to account for scattering by it.

The zero readings of the recorders and amplifiers were checked periodically by shutting down the laser. In this way ambient light was accounted for at the same time. The gain of the amplifiers was also checked with a millivolt source; however, after an initial setting, this did not require adjustment.

3.4 Results

Figure 3-3 shows the ship's course during this experiment.

The relative scattering and the surface temperatures for the Atlantic traverse are given in Figure 3-4. All scattering results are normalized to the lowest values found in the mid-Atlantic section of the traverse where the scattering was low and nearly constant. The widest variations in the western portion of the track were associated with thermal changes, while the rise in the offing of Madiera and the rise approaching the African coast seem to be due to inshore processes probably both geological and biological. The most pronounced feature of this traverse was the low, and nearly constant values found over a wide section in mid-Atlantic.

Figure 3-5 shows the scattering in the Strait of Gibralter and the bottom contour along the ship's track. The peaks of scattering show a relationship to the three major rises of the bottom. In comparing the scattering trace with the bottom contour one must consider both the time required for a sample to pass from the sea water intake to the cuvette and the effect of the bottom contour on either side of the track. The time delay was approximately five minutes which would have moved the scattering trace one minute of longitude westward, and the effect of lateral variation the bottom contour was minimized since the three rises are features of some extent.

The Mediterranean traverse, Figure 3-6, shows scattering two to three times that in the Atlantic. There is

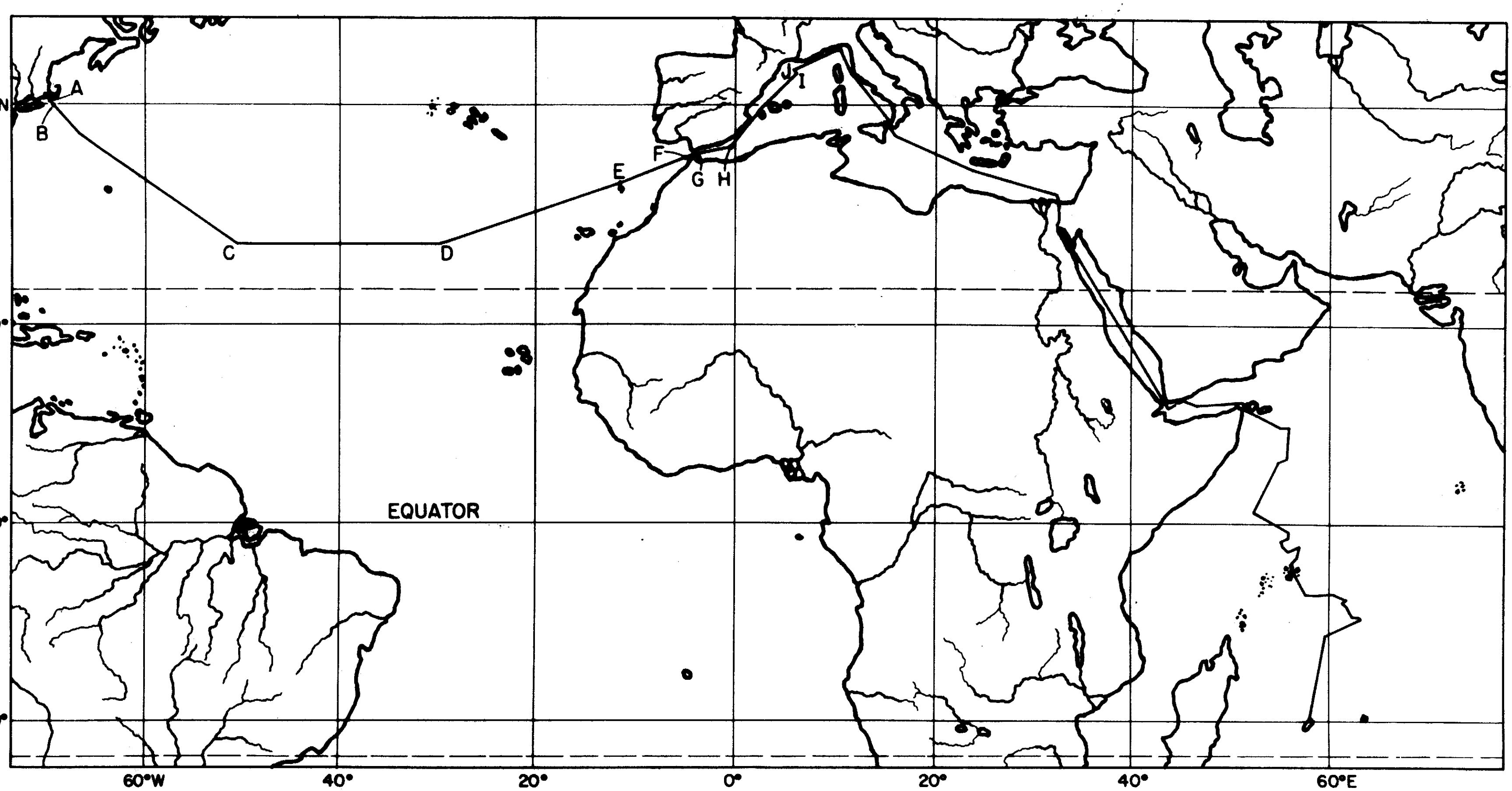


Fig. 3-3. The ship's track: Woods Hole to Port Lewis, Mauritius.

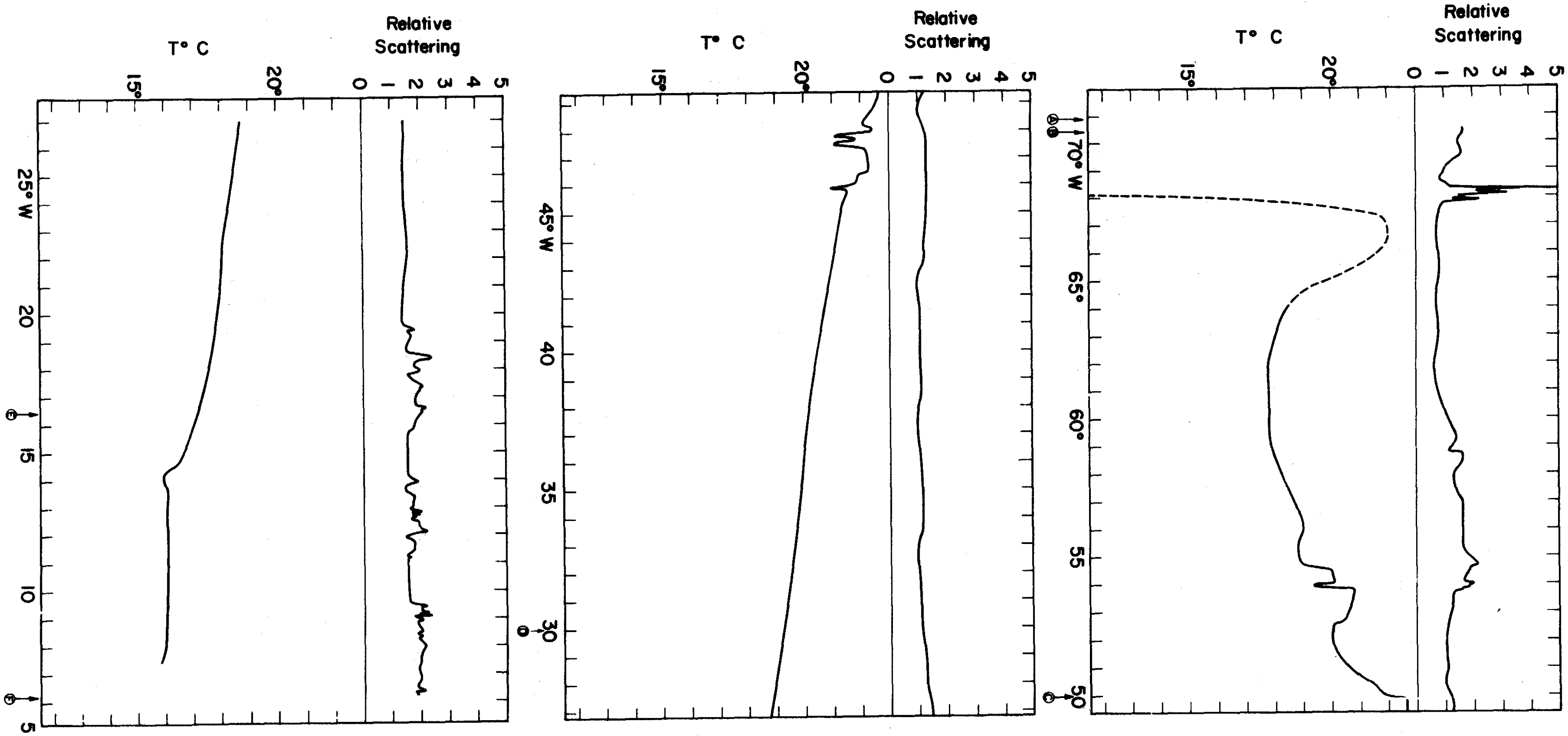


Fig. 3-4. The forward scattering and surface temperature curves for the North Atlantic.

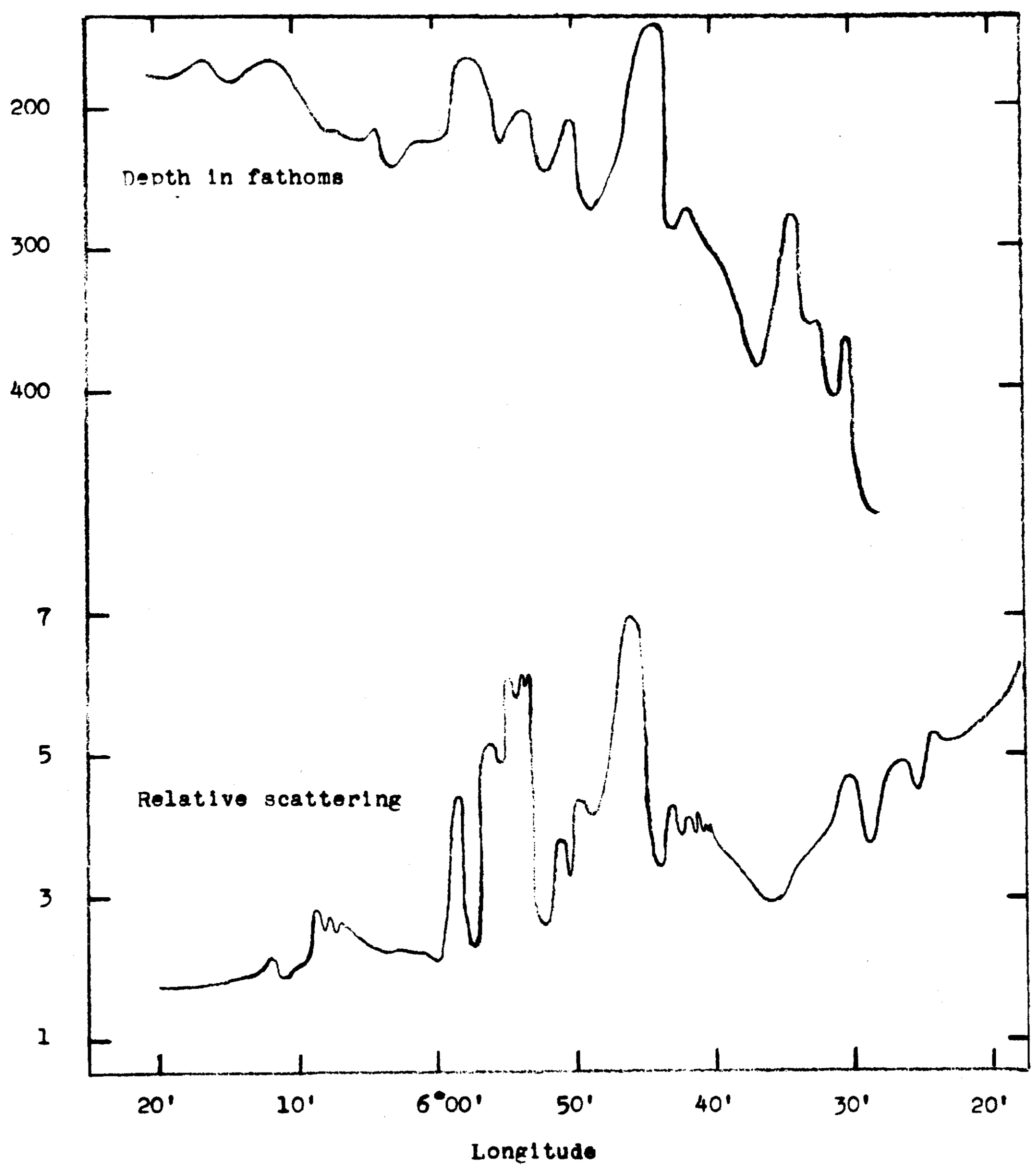


Fig. 3-5. The forward scattering and the bottom contour in the Strait of Gibralter.

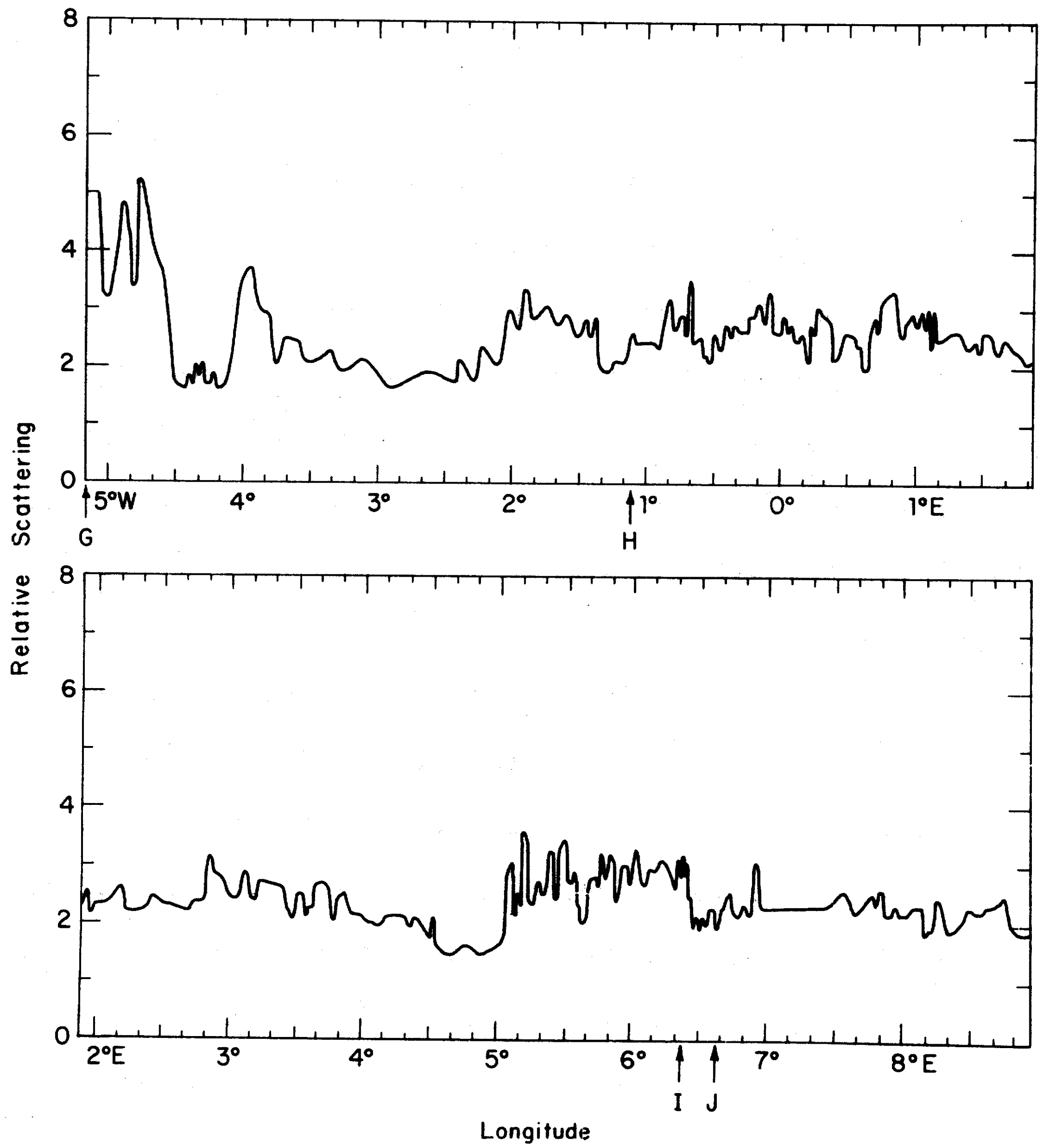


Fig. 3-6. The forward scattering in the western Mediterranean

again great variability in the proximity of land. The lowest scattering in the Mediterranean was observed when the ship was farthest from land, off the Gulf of Lyon, the only other place where relatively low scattering was observed may have represented the influence of Atlantic surface water, since it was downstream from the Strait of Gilbralter.

Figure 3-7 is a photograph of two sections of the record and a sample of the standard track. The upper two traces are from the central North Atlantic portion of the track, the top being the standard, and the lowest trace is from the Mediterranean. These are typical of their respective areas, and they show the influence of inshore processes on the forward scattered light.

From La Spezia the scattering continued to run between two to three times that in mid-Atlantic. In the Straits of Messina two peaks nearly six times the mid-Atlantic values were observed. After Messina the record began to settle down to a steadier value which was between 2.0 and 2.2 times the mid-Atlantic base up to the coast near Port Said with one excursion to 2.8 south of Crete. This behavior reinforces the idea that great variability is caused only be inshore processes.

In the central Gulf of Suez values were from 3.1 to

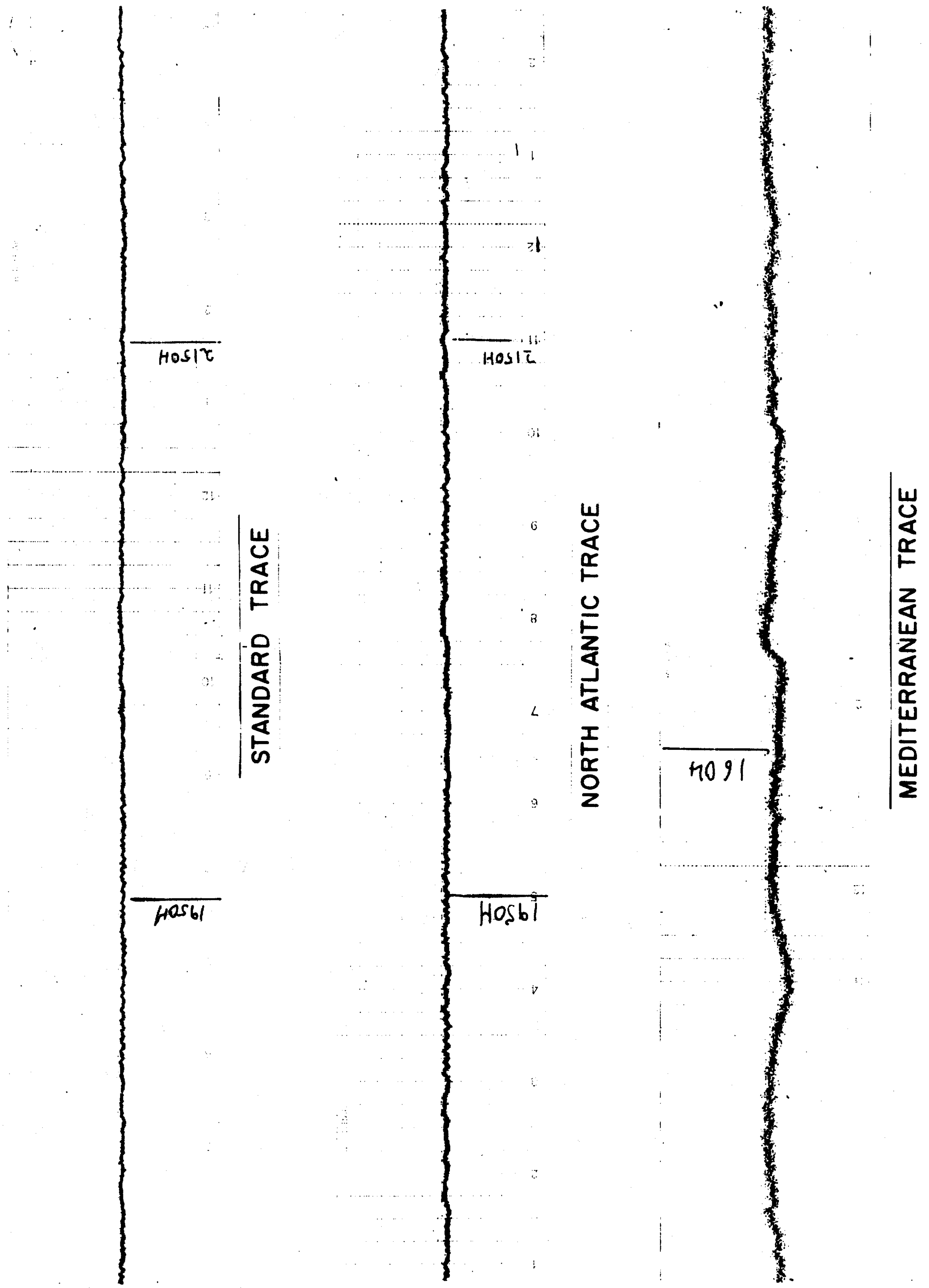


Fig. 3-7. Typical sections of the scattering record.

3.3, and in the Red Sea they dropped to approximately 1.5.

The lowest scattering recorded was in the Indian Ocean beginning near the equator and extending to 20° south, which was as far as measurements were made. Values here ranged from six to nine tenths of the mid-Atlantic ones, and no value higher than 1.7 was observed in the Indian Ocean. These results are confirmed by the low values for particulate carbon found in this area (Menzel, 1964). The influence of land in the case of the Seychelles and Mauritius was not observed until one actually entered the harbor.

These results are estimated to be internally consistent within approximately 5%. The limitation is based on the width of the trace which does not allow more accurate readings. There are two cases in which there is more uncertainty than this. The scratch on the cuvette face necessitated such a large correction that values taken west of longitude 47° west may be as much as 50% in error. The other case involves the values in the Red Sea and Indian Ocean, where the lack of frequent zero checks makes it possible that there may be as much as a 10% difference in base line between these and the Atlantic values to which they are normalized.

3.5 Summary and Conclusions

Close to land the scattering intensity fluctuated irregularly through as much as a factor of two; whereas such variations in the open sea were rare. The widest variation observed in the open sea occurred in the waters of the western boundary of the Gulf Stream.

Sharp short term variations in the scattering picture that were not associated with inshore processes accompanied sharp temperature changes. Lines of weed were observed to coincide with the two thermal jumps that were crossed. In both cases the scattering indicated an increase in particulate matter above the mean value for the surroundings, adding weight to the evidence that a surface convergence of some extent may have been present in this area.

The scattering in the Seychelles-Mauritius area during April is shown to be nearly equivalent to that in the North Atlantic between the Gulf Stream and Bermuda during February and signifigantly less than the average value in the southern part of the Sargasso region at the end of February.

Comparision with measurements of the volume scattering function, reported in Chapter Four, shows that the magnitude of the forward scattering is more variable than the magnitude of the scattering at angles greater than 30°. This means that forward scattering is a more sensitive indicator of particulate content.

CHAPTER FOUR

VOLUME SCATTERING FUNCTION MEASUREMENTS

4.1 Introduction

In this chapter we turn from forward scattering to observations of the shape and magnitude of the volume scattering function from which it is possible to make deductions about the trend of particle sizes and numbers. Previous investigators have made an effort to compare the theoretical curves for certain types of monodisperse systems with measured curves for the natural environment (Sasaki et al, 1960, Jerlov, 1961); however, it must be borne in mind that there is no reason that a measured curve for sea water should match the theoretical curve for any monodisperse spherical particle, since the sharp maxima and minima found in the scattering diagrams for such particles are washed out by a variety of sizes, shapes, and indexes of refraction (Deirmendjian, 1964). Theoretical curves for such polydisperse systems are like the relatively smooth function obtained for sea water and the chance for precise quantitative evaluation of sizes or numbers is reduced. One can, however, think of the magnitude of $\sigma(\theta)$ in terms of the total scattering surface and of the shape of $\sigma(\theta)$ as being related to the size of the predominant scatterers.

4.2 Apparatus and Experimental Procedures

A Brice-Phoenix Light scattering Photometer was used in this work. With this device it is possible to determine the volume scattering function between 30° and 135°, these limits being imposed by the geometry of the system. The instrument was modified to make its use at sea contingent only on the state of mind of the operator.

This instrument is illustrated in Figure 4.2-1 which is taken from the operation manual for the device (P. P. I. Co., 1963). For use at sea it was left in its packing crate which was cut away to provide the necessary access and mounted on rubber feet to absorb vibrations. The modifications were all in the form of retainers to prevent shifting, due to the ship's motion, of the neutral density filters, the angle setting, or the scattering cell.

The light source was an 85 watt mercury arc lamp that used a frequency-sensitive, voltage-regulating, ballast transformer to provide constant current. This was not an ideal implement for operation with the type of power supplies found on research vessels, since their voltage is well controlled but their frequency drifts irregularly through one cycle. When heavy loads are added, a shift of as much as three cycles may occur, and this is enough to extinguish arc.

The scattering cell was pyrex glass, cyclindrical in shape with flat entrance and exit windows normal to the

The following is the nomenclature for Figure 4.2-1.

A -Rotatable arm attached to disc
AN-Analyzer
C -Semi-octagonal cell
C1-Shutter collimating tube
C2-Primary beam collimating tube
D -Graduated disc
D1-Lamp diaphragm
D2-Removable collimating tube diaphragm
D3-Cell table diaphragm
D4-Nosepiece diaphragm
D5-Cathode diaphragm
D6-Collimating tube diaphragm
EC-Electrical compartment
F1-Monochromatic filter
F2-Neutral filter
F3-Location for filters used in correcting for fluorescence
L -Mercury lamp
L1-Achromatic lens
L2-Plano-cylindrical lens
PH-Covered peep hole
PT-Photomultiplier tube
PO-Demountable polarizer
S -Photographic shutter
SC-Light-tight scattering compartment
T -Light trap tube
W -Working standard

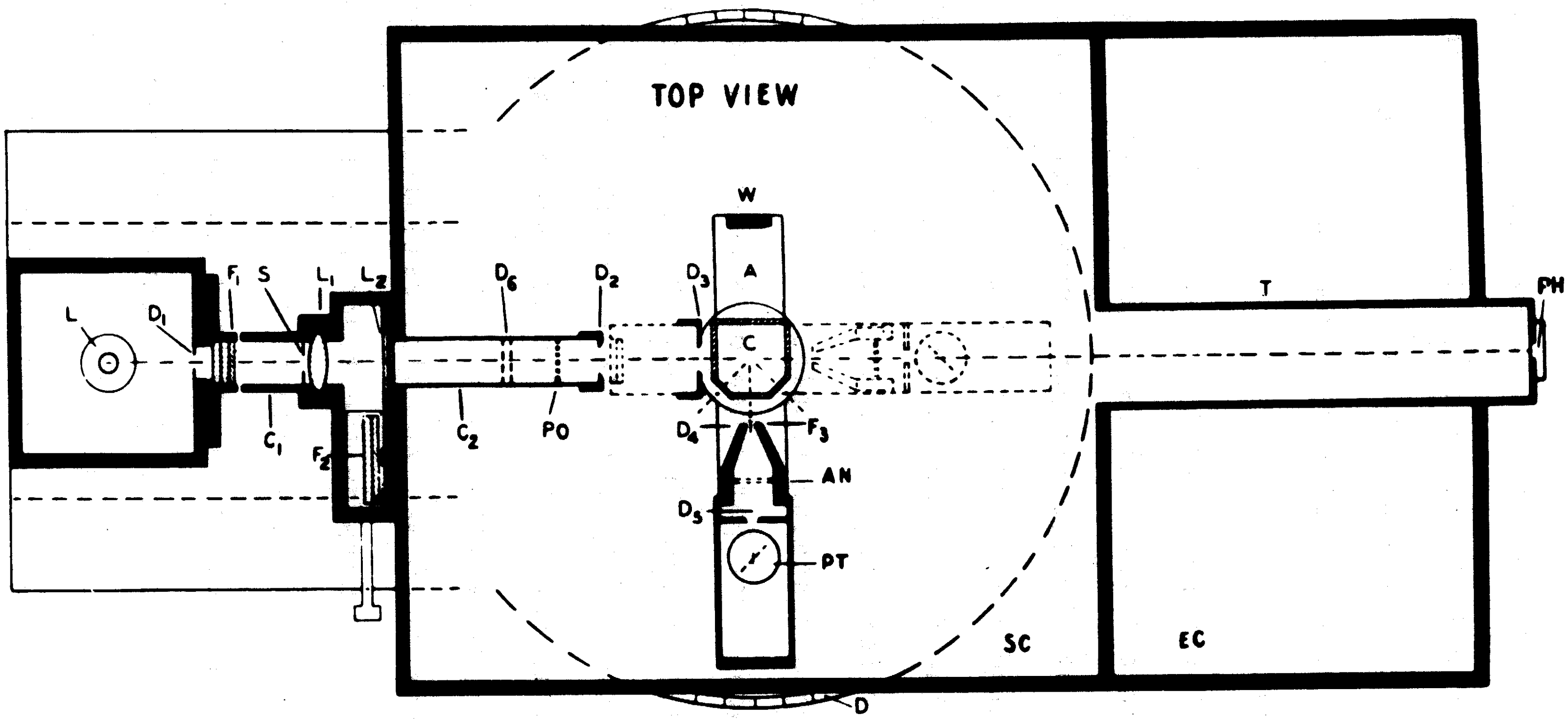


Figure 4.2-1. The Brice-Phoenix Light Scattering Photometer.

primary beam. During operation the cell was situated on a platform in the light-tight compartment. Orientation of the flat surfaces was accomplished by returning the portion of the incident beam reflected from the first glass surface on itself.

At sea the high voltage was kept across the photomultiplier detector at all times to insure maximum stability. When the top of the light-tight compartment was opened a switch actuated a shutter that intercepted light that would otherwise flood the photomultiplier tube, obviating the necessity for changing the voltage on the photomultiplier tube when changing samples.

The readout was performed on a Leeds and Northup strip chart recorder of the "Speedomax G" vintage. At each angle a recording time of approximately 30 seconds was required to obtain an average value. Particles passing through the scattering volume caused excursions up to 10% on either side of a mean which was visually estimated so that equal areas were formed between the trace and the mean value line on top and bottom. This mean is only valid if the time spent in the scattering volume by a particle of given properties is proportional to the concentration of such particles. To achieve this end and to minimize the recording time necessary to obtain a mean value line the samples were stirred continuously.

This scatterometer was first used at sea on the R/V Crawford between Woods Hole and St. Georges, Bermuda. Measurements of the scattering function were made at least twice each watch, concurrent bathytheromgraph lowerings were made, and surface salinity samples were taken. In addition, four hydrographic casts were made using teflon coated Nansen bottles.

The surface samples for scattering and salinity were drawn through an "uncontaminated" sea water sampling system. The intake and pump were nearly amidships one meter below the water line, and the samples were conveyed to the laboratory through polyvinylchoride piping and fittings.

The salinity samples were bottled and analyzed ashore while the scattering samples were examined immediately, except during the hydrographic stations, when the time required to process each sample caused delays of as much as two to three hours. The effect of these delays is discussed in the section covering precision and accuracy.

The scattering samples were drawn into a cell that was first rinsed with running sea water; a teflon covered stirring bar was inserted; the cell was placed on the cell table in the light-tight compartment of the scatterometer, and stirring was begun. The photomultiplier signal was recorded for the transmitted beam and for angles between 30° and 135° at 5° intervals beginning at 30°, then the transmitted beam was observed again as a check on the instrumental drift.

Samples obtained from depth were similarly processed except that, to reduce differentiation in the sample, the water was drawn into polyethylene flasks as soon as the Nansen bottles came aboard. To counteract the effect of any settling that might have occurred during the storage time the flasks were agitated before the sample was decanted.

This apparatus was employed later on the R/V Chain during the study of a thermal front in the Sargasso Sea, south of Bermuda. On this cruise there were twenty hydrographic casts, hourly bathythermograph lowerings were made, and surface salinity samples were collected concurrently.

The surface sampling inlet on the R/V Chain was three meters below the waterline; however, the pump, because of the ship's plumbing, was two meters above the waterline. In all other respects the experimental apparatus and procedures were identical.

4.3 Data Processing Procedures

The observed data, given in Appendix A, consist of the photomultiplier signal at each angle and the neutral density filters that were in the beam. These data were processed by computer using the FORTRAN program that is given in Appendix B. The operations performed are outlined in the following paragraphs.

The effect of the neutral density filters was removed according to the formula:

$$S_1(\theta) = S(\theta) \cdot T,$$

where $S(\theta)$ is the observed signal and T the product of the optical transparency of the filters. $S_1(\theta)$, the signal reduced to the basis that all the filters were in the beam, was then normalized to the values for $S_1(0°)$ by

$$S_2(\theta) = S_1(\theta) \div [S_1'(0°) \cdot \frac{S_1'(0°) - S_1''(0°)}{22} \cdot \{(\theta/5) - 7\}]$$

where $S_2(\theta)$ is the normalized result, and $S_1'(0°)$ and $S_1''(0°)$ are the reduced, transmitted beam signals before and after the angular measurements. This manipulation spreads linearly the effect of any instrumental drift.

Reflections at the air-glass interface of the cell make corrections necessary. At the flat exit window nearly 4% of the beam is reflected, and scattered light from this redirected beam appears added to that scattered from the primary beam at the supplementary angle. A second reflection that has exactly the same result occurs at the air-glass interface opposite the point of observation. The theoretical basis for and empirical proof of these effects and the procedure for correcting the errors they introduce are given by Tomimatsu and Palmer (1963). The standard method of correcting for these effects is by the following empirical equation:

$$S_3(\theta) = S_2(\theta) - 0.78\ S_2(180-\theta),$$

where $S_3(\theta)$ is the corrected value. This procedure is begun with the largest value of θ and carried through its supplementary value; therefore, $S_2(\theta)$ at 30°, 35°, and 40° are left uncorrected. To place them on the same basis as the other values, $S_3(135°)$ is assumed to increase only due to increased scattering volume and they are adjusted according to:

$$S_3(\theta) = S_2(\theta) - 0.78\ S_3(135°)\cdot\sin 45°/\sin\theta.$$

The assumption that $S_3(\theta)$ is constant at angles greater than 135° is not valid but it does give an order of magnitude estimate of the correction, which is small compared with the magnitude of $S_3(\theta)$ in the low angle region.

The scattering volume is proportional to the sine of the angle of observation and to obtain the relative volume scattering function the following equation is used:

$$\sigma_{rel}(\theta) = S_3(\theta) \cdot \sin(\theta).$$

The volume scattering function, $\sigma(\theta)$, is given by the equation,

$$\sigma(\theta) = \left[\frac{TDan^2(R_w/R_c)(r/r')}{1.049\pi h(1-R)^2(1-4R^2)}\right]\sigma_{rel}(\theta),$$

the evolution of which may be traced by reference to Brice et al (1950), Sheffer and Hyde (1952), Oth et al (1953) and Tomimatsu and Palmer (1959, 1960, 1963). The calibration factor, enclosed in brackets, is dependent on the geometry and optical constants of the system. The product TD is a constant for the opal glass reference standard used in the determination of other calibration constants, it has the dimension of length, since it is derived from the transmittance of opal glass. R_w/R_c is a dimensionless factor called the residual refraction correction, which is dependent on the size of the cell and corrects for the inadequately compensated apparent shortening of the distance from the receiver to the center of the scattering volume (Brice et al, 1950). n is the index of refraction of the solvent, and h is the width of the incident beam. 1.049, $(1-R)^2$, and $(1-4R^2)$ result from corrections made for reflections at air-glass interfaces. R is the fraction of light reflected at such an interface. The working standard constant, a, relates the reference standard to the working standard which is inserted in the direct beam whenever it is observed. This constant is best determined by the experimenter since its value may change a few percent with minor adjustments. The factor, r/r', relates the normal beam geometry to a narrow configuration that is necessary when cylindrical cells are used; the investigator determines this ratio for the cell and stops being used.

The measured values were extrapolated so that an estimate of the total scattering coefficient could be obtained. In the forward direction this extrapolation was made by fitting the points between 30° and 50°, utilizing the method of least squares, to an equation of the form:

$$\log \sigma(\theta) = A+B\theta+C\theta^2 \quad .$$

The values in the back direction were similarly determined; however, in this case the equation employed was

$$\log \sigma(\theta) = D+E\theta \quad ,$$

and the points to which the equation was fitted were from 115° through 135°.

The total scattering coefficient was obtained by integration, using Simpson's rule, of $\sigma(\theta)$ according to the equation:

$$s = 2\pi\int_0^\pi \sigma(\theta)\sin\theta d\theta.$$

The portion of this coefficient under the measured section of the curve, s(30-130) was computed by changing the limits on the integral to 30° and 130°. To determine whether there is any basis for statements to the effect that the total scattering function may be determined by measurement of $\sigma(\theta)$ at one angle, calculations of the ratio of these integrated quantities to $\sigma(\theta)$ were made for each angle.

Finally, to describe the shape of the volume scattering function, the first and second derivatives and the ln-ln slope were computed between each of the points from the following equations:

$$\text{first derivative} = \sigma'(\theta) = [\sigma(\theta)-\sigma(\theta+5°)]/[5°\pi/180°],$$

$$\text{second derivative} = \sigma''(\theta) = [\sigma'(\theta)-\sigma(\theta-5°)]/[5°\pi/180°],$$

$$\text{ln-ln slope} = \frac{\ln\sigma(\theta)-\ln\sigma(\theta+5°)}{\ln[\theta\pi/180°]-\ln[(\theta+5°)\pi/180°]}.$$

4.4 Accuracy and Precision

The accuracy of the volume scattering function is the basis for the determination of the accuracy of all results. The manufacturer of the instrument employed in these experiments indicates that the effect of uncertainty in the calibration factors supplied by them is approximately 4%; however, it is necessary for the investigator to determine two other factors. Although it was possible to determine each of these factors with great precision; this does not exclude the possibility of a systematic error and one can only estimate the accuracy of the net calibration factor.

In addition to this uncertainty one must examine the precision of the measured values for any given sample. Samples taken by pump and processed immediately must be given separate consideration from those taken by bottle in hydrographic stations that must wait perhaps three hours to be processed.

An attempt to obtain an estimate of the precision of measurements on samples processed immediately was made by drawing two simultaneously and processing each as quickly as possible. The deviations from the mean of the natural logarithm of $\sigma(\theta)$ for each angle were determined and the standard error found to be ± 0.034. Values for the precision of derived quantities based on this estimate are for

$\sigma(30°)/\sigma(45°)$, 0.15, and for ln s(30-130), 0.1.

The other class of experiments is that in which there is an appreciable lapse of time between the collection and the processing of a sample; under these conditions the precision depends on the procedure and on the processes that were acting to alter the composition of the sample. To determine the effect of storage time twelve samples from various stations were run as soon as they were collected and repeated at intervals during the processing of the other samples from the same station. Figures 4.4-1 through 4.4-3 show the volume scattering function for three of these samples after various storage times had elapsed. These curves demonstrate the nonprogressive nature of the observed changes which lead one to believe that more than one process was involved.

To determine the standard error, each of the twelve samples was considered representative of a discrete population. The deviations from the mean for each sample were found and the standard error was determined according to the formula:

$$s_e^2(x) = \frac{\sum_{i=1}^{12} \{N_i/(N_i-1)\} \sum_{j=1}^{N_i} \{x_j-\bar{x}_i\}^2}{\sum_{i=1}^{12} N_i - 1},$$

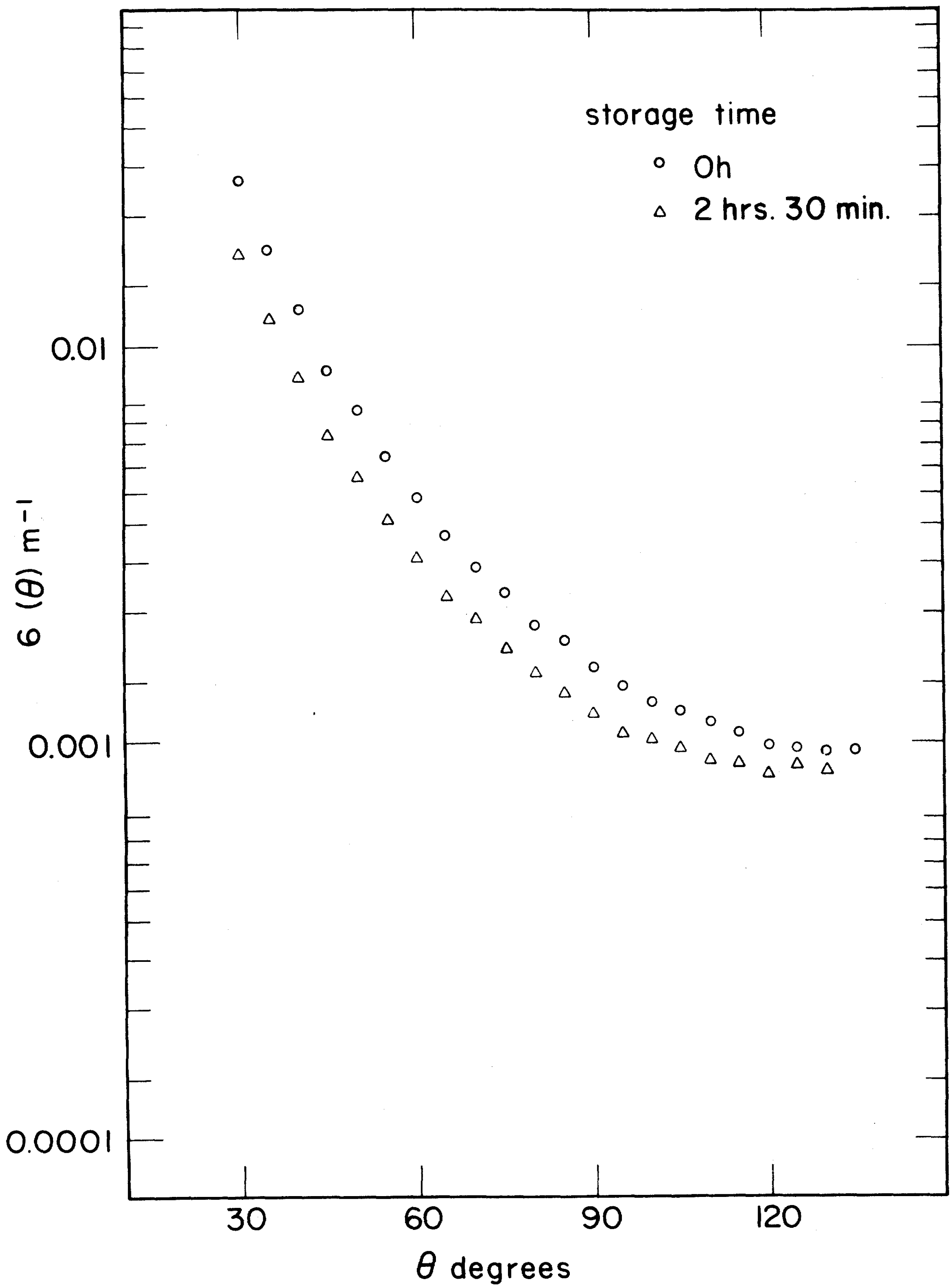


Fig. 4.4-1. The volume scattering function against θ for various storage times: R/V Chain station #603, 100C meters.

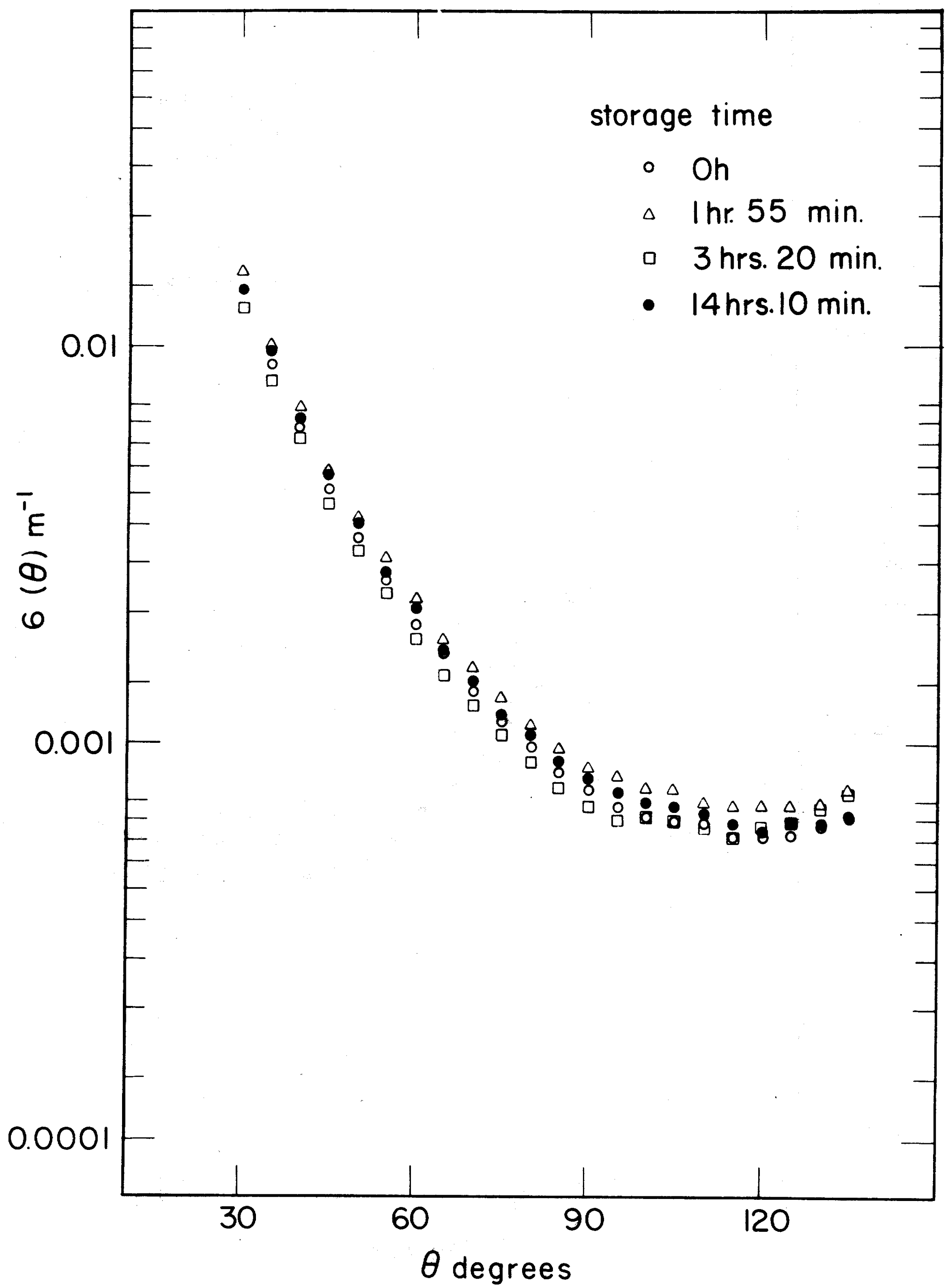


Fig. 4.4-2. The volume scattering function against θ for various storage times: R/V Chain station #603, 100 meters.

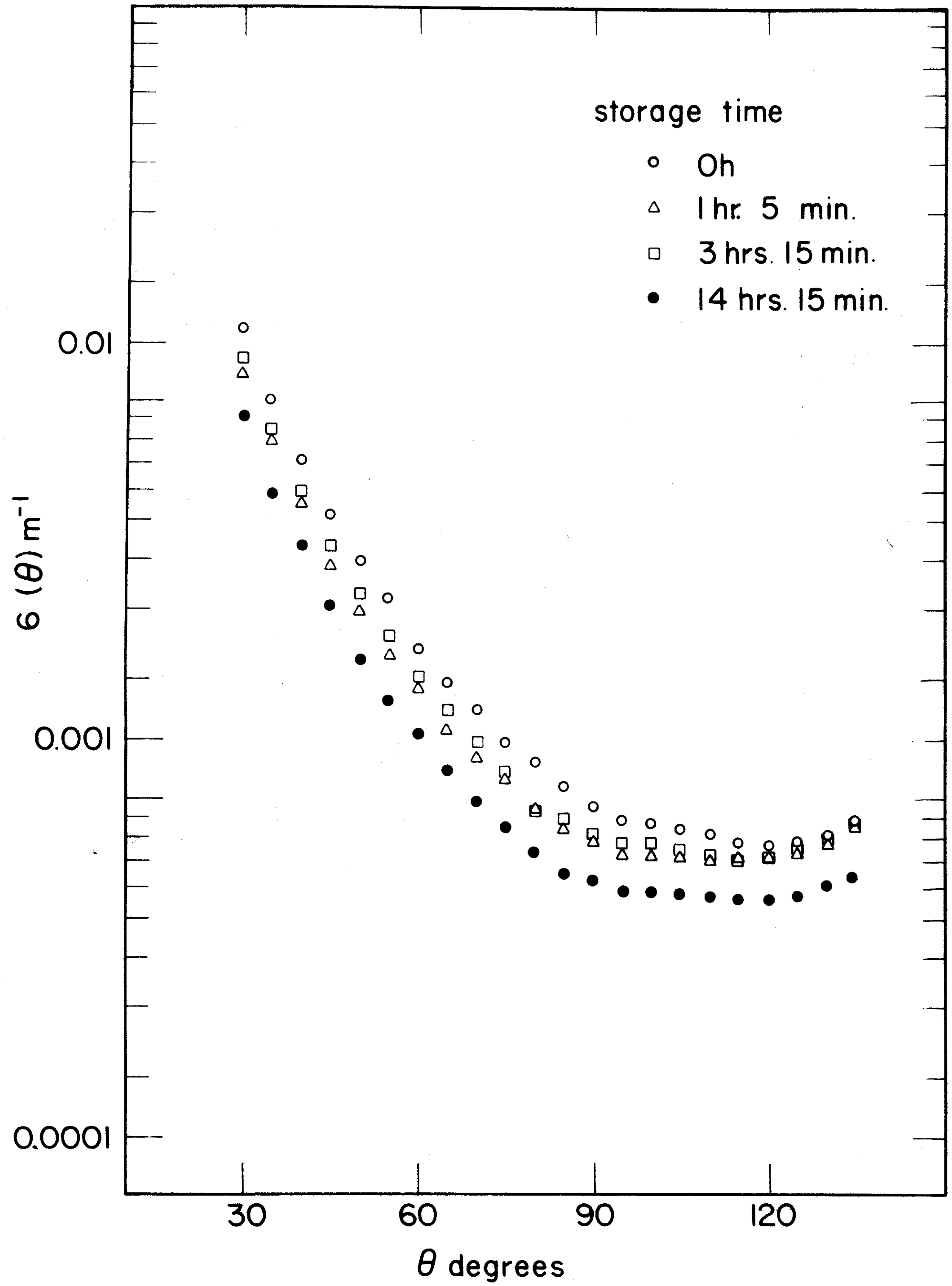


Fig. 4.4-3. The volume scattering function against θ for various storage times: R/V Chain station #604, 400 meters.

where N_i is the number of runs made on any sample i, the quantity $(x_j - \bar{x}_i)$ is the deviation of the result of any run from the mean for that sample. To test whether the deviations were normally distributed, they were ranked in ascending order, and assigned values of $P = \frac{n-1/2}{N}$ in this order where N was the total number of runs and n the rank of a particular run. P was then plotted against the deviations on probability paper. When no appreciable trends away from straight line behavior were present the deviations were normally distributed giving quantitative meaning to the values for the standard error. In order to obtain a straight line on the probability plot for the volume scattering function it was necessary to use the deviations of the logarithm of $\sigma(\theta)$. This is because the errors in $\sigma(\theta)$ are proportional to the magnitude of $\sigma(\theta)$. The probability plots are given in Figures 4.4-4 through 4.4-9.

Figure 4.4-4 is the plot of the deviations for the case of immediate processing. The others are for the samples that were stored before processing. All except the ratio, $\sigma(30°)/\sigma(45°)$, exhibit straight line behavior. The deviation from normality of these errors, may result from the combination of rather large errors in the individual measurements; therefore, the ln-ln slope of the extrapolated curve has been used to characterize the shape of the meas-

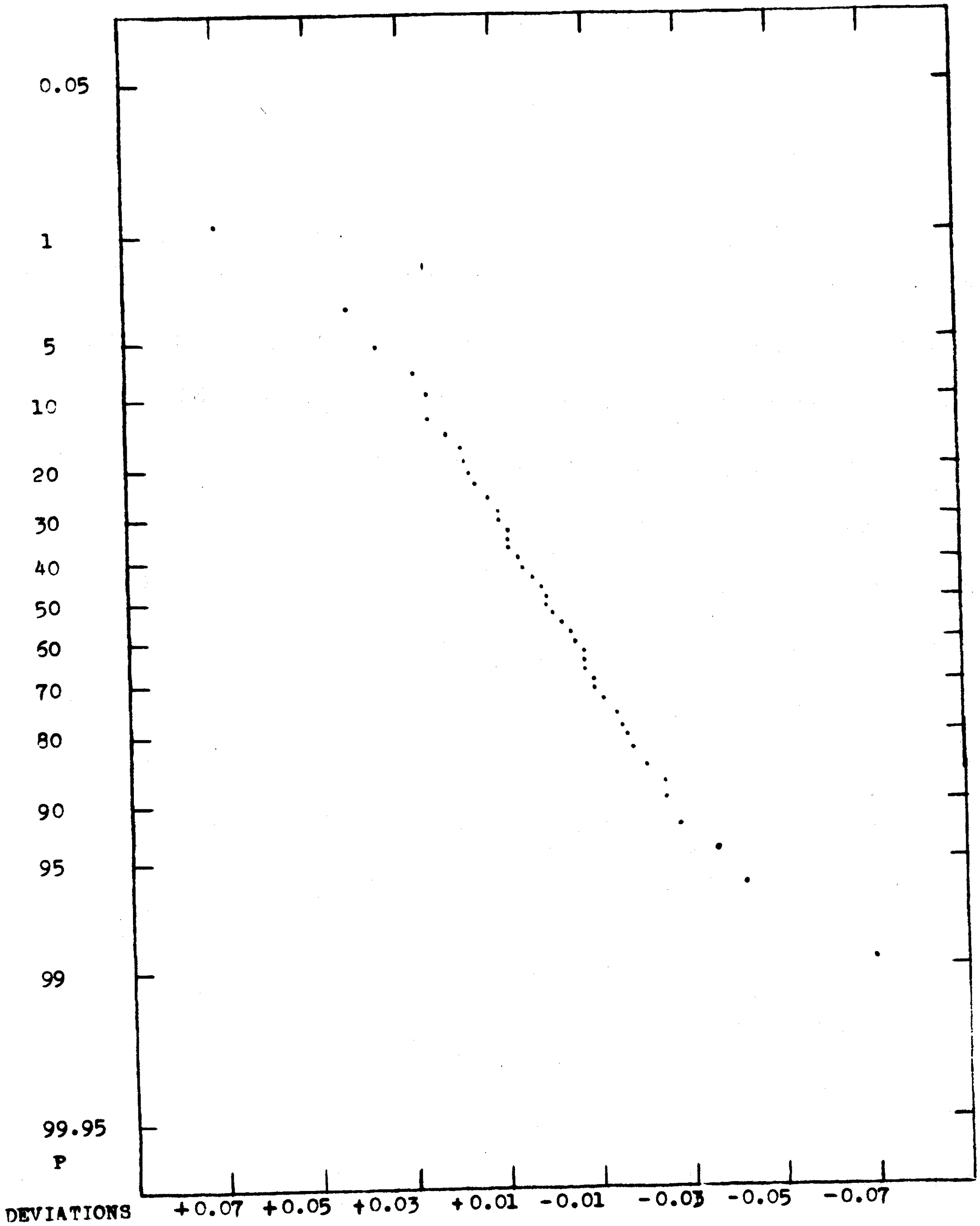


Fig. 4.4-4. The deviations of lnσ(θ) against probability.

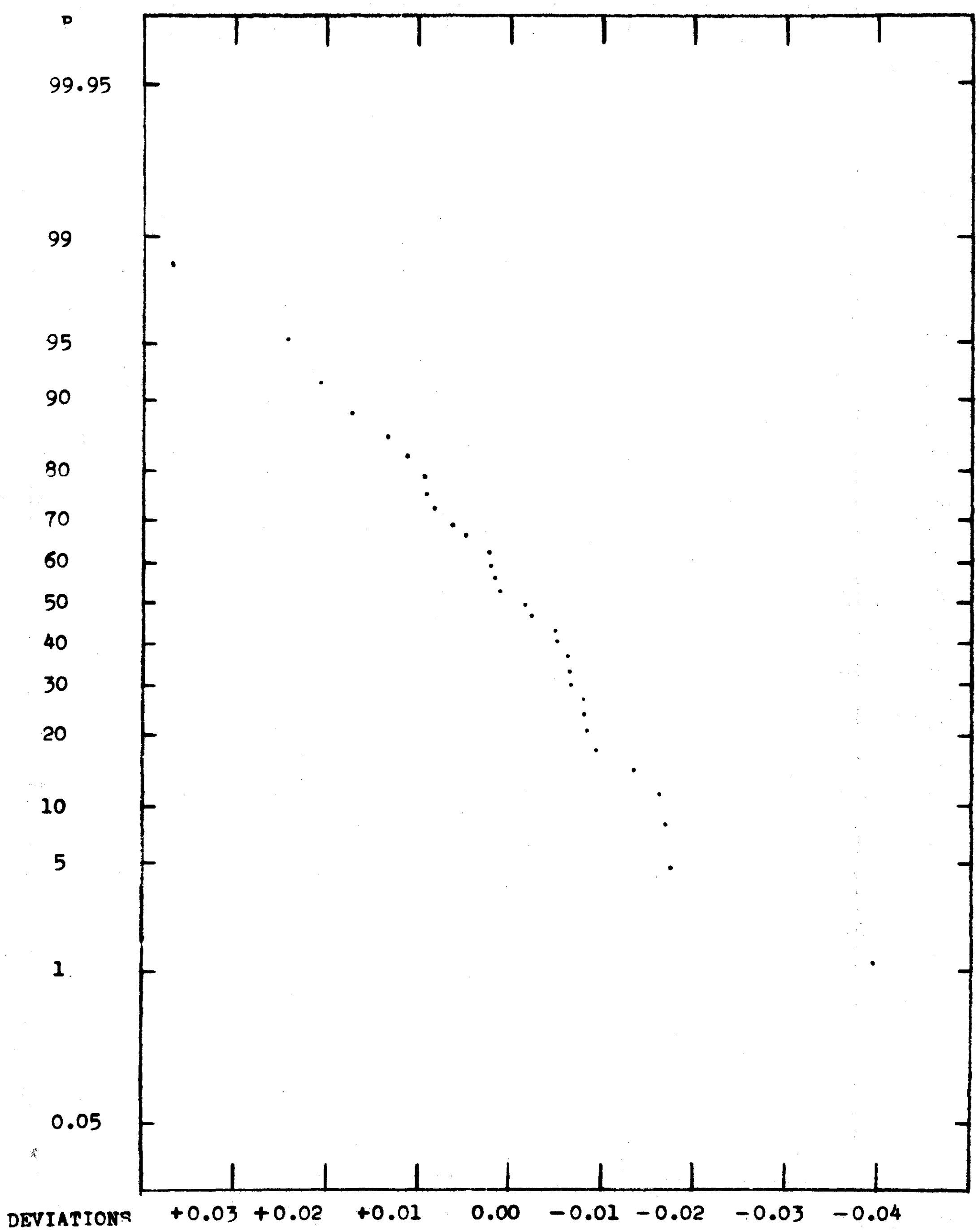


Fig. 4.4-5. The deviations of the ln-ln slope against probability.

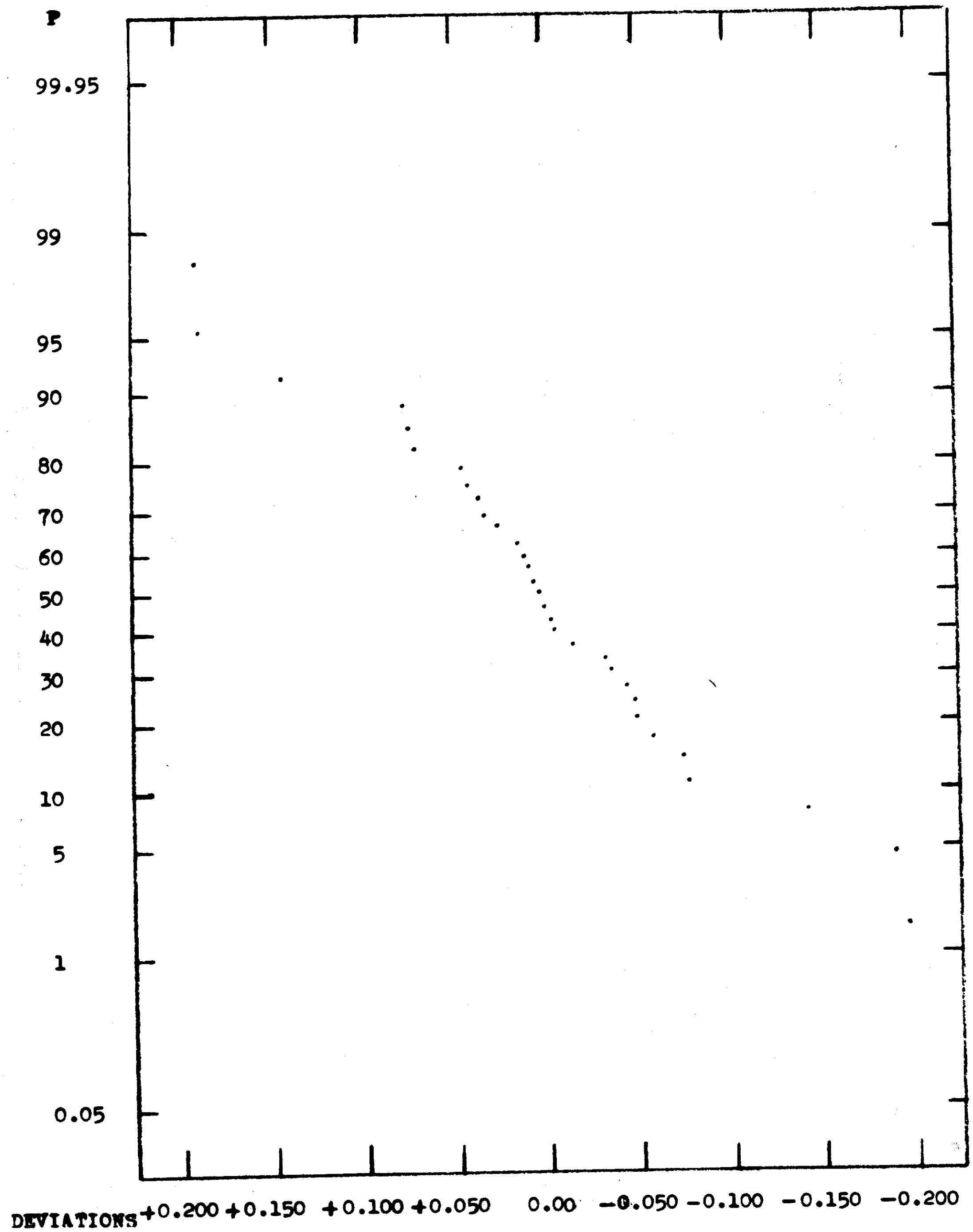


Fig. 4.4-6. The deviations of the log[s(30-130)] against probability.

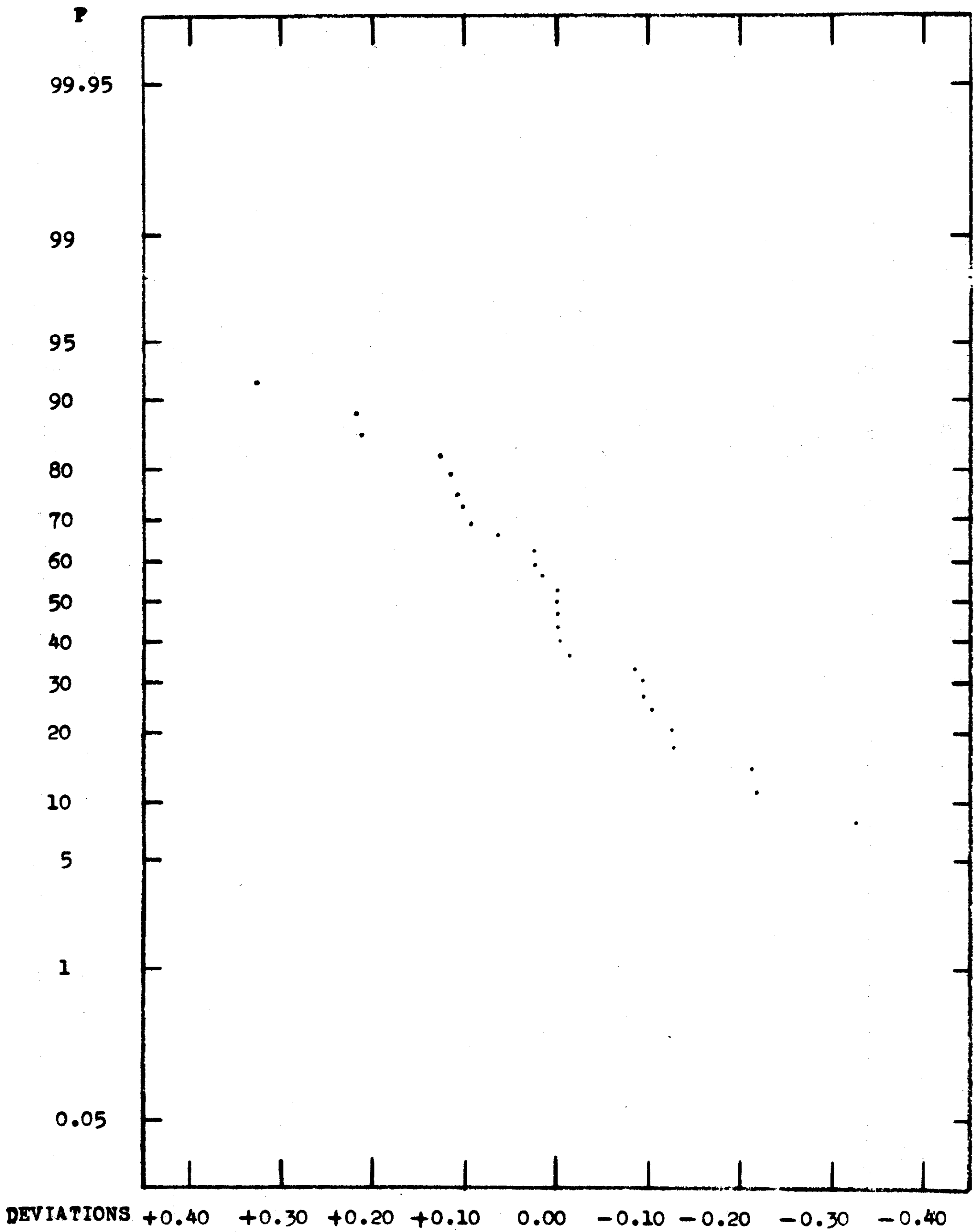


Fig. 4.4-7. The deviations of the lnσ(30°) against probability.

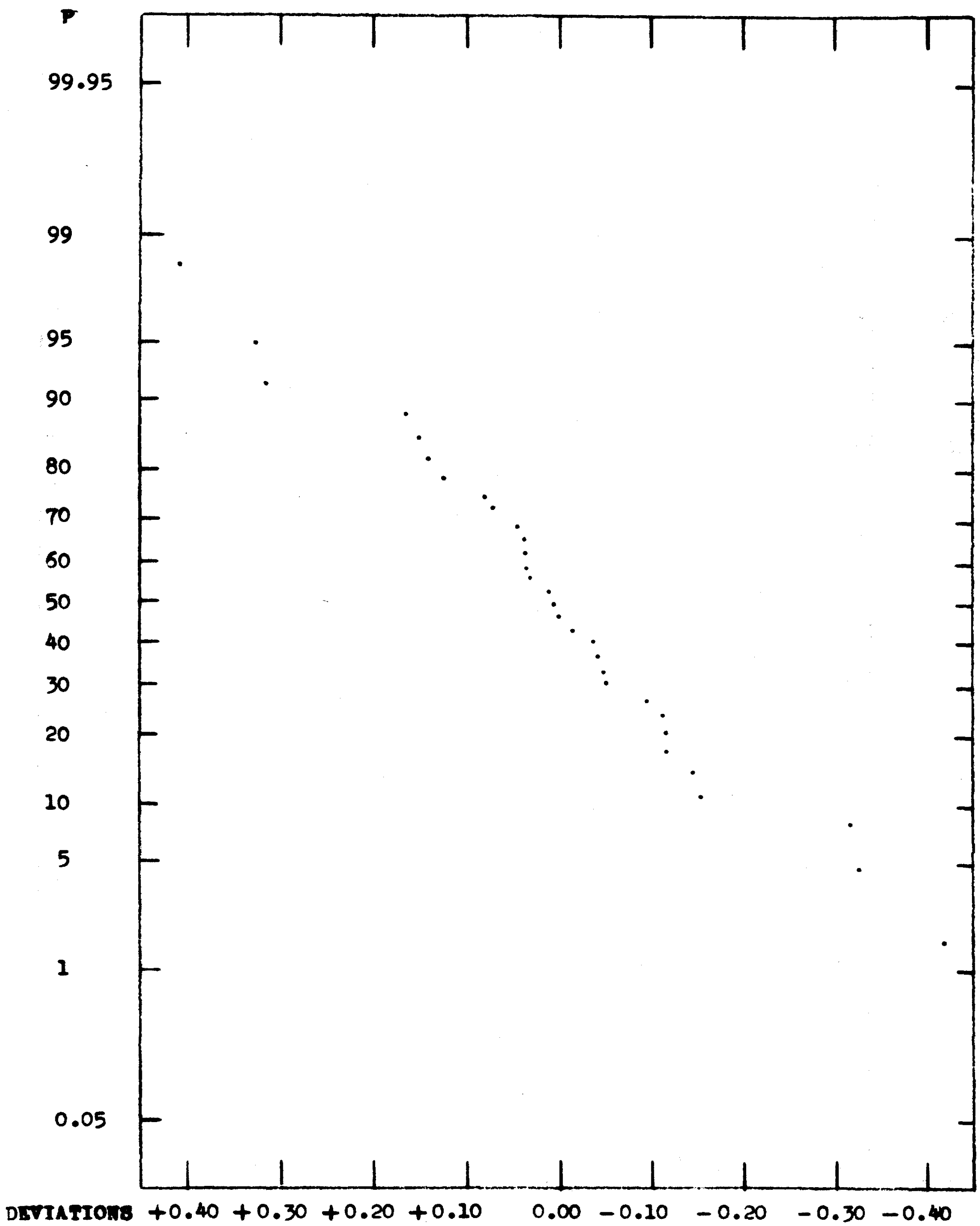


Fig. 4.4-8. The deviations of the ln σ(90°) against probability.

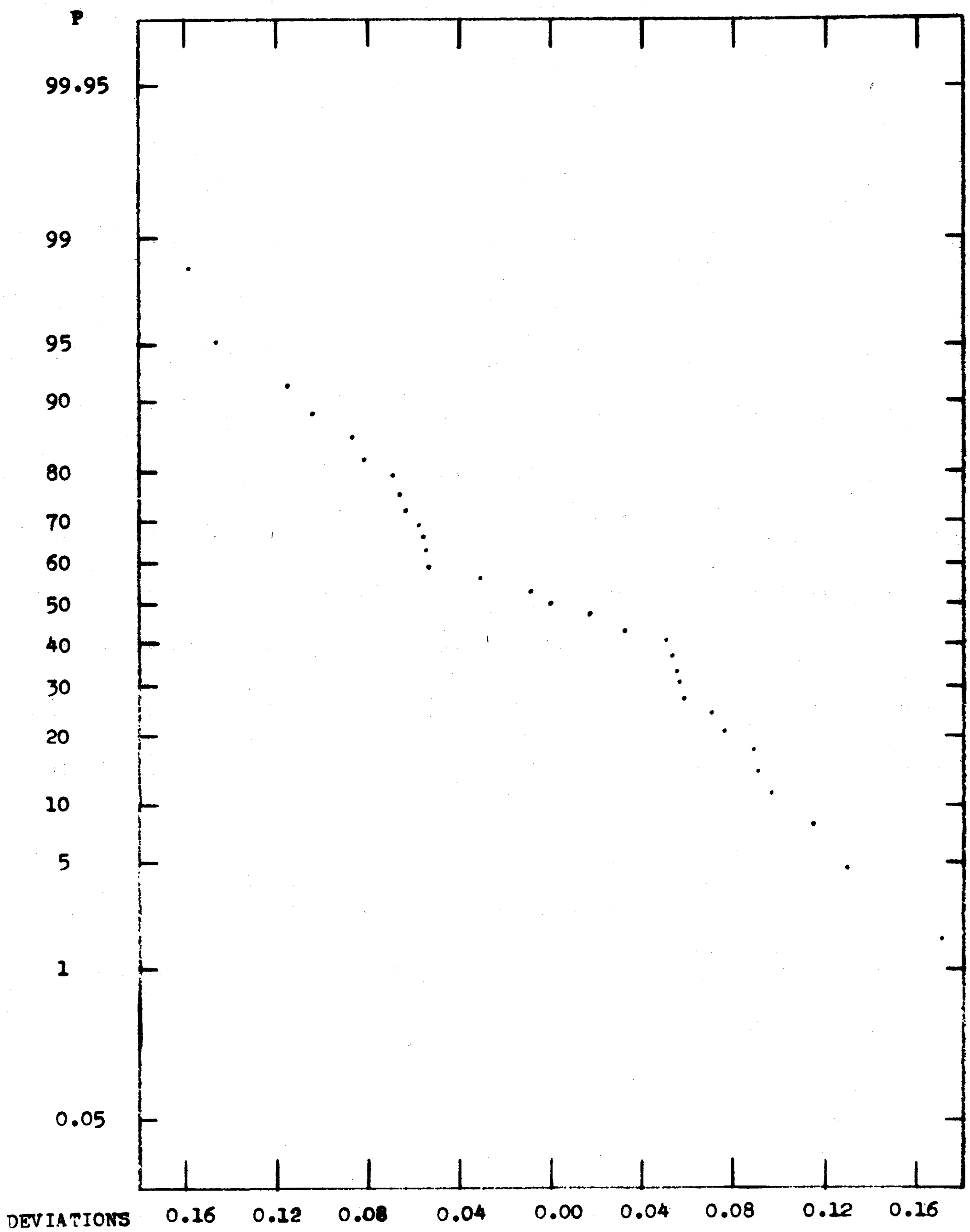


Fig. 4.4-9. The deviations of $\sigma(30°)/\sigma(45°)$ against probability.

ured curve.

The standard errors calculated in the preceding fashion were: for the ln-ln slope of the extrapolated curve between 0° and 5°, 0.0182; for ln s(30-130), 0.272, for ln $\sigma(30°)$. 0.307; and for ln $\sigma(90°)$, 0.235.

Some of these standard errors are very large, yet one can discern no pattern of change as a function of time in the samples. This implies that the physical processes are not the same in each case, and that a whole field of study is open here which must be attacked before particulate distributions may be determined by other than "in situ" methods. Since it is impossible to assess the effect of withdrawing the sample from its environment without simultaneous "in situ" measurements, this is suggested as a subject for future study, and the possible changes that may have arisen due to the techniques employed here are blissfully ignored.

4.5 Results and Conclusions

4.51 "General Features of the Volume Scattering Function"

One method of characterizing the rise in the volume scattering function at low angles, which is an indicator of relative particle size, is the ln-ln slope. The larger negative slopes indicate a larger predominant particle size. An indicator of the same feature of the curve, the ratio $\sigma(30°)/\sigma(45°)$, is a measured quantity; it is preferred to the ln-ln slope at 0°, but it has the disadvantage of being sensitive to fluctuations caused by small errors. The ln-ln slope at 0° is based on six points rather than only the two on which the ratio depends.

The portion of the scattering coefficient lying between 30° and 130°, s(30-130) is a measure of the particulate surface. The total scattering coefficient was also calculated but the meaning of these numbers is in doubt due to their dependence on extrapolated points.

Figure 4.5-1 shows an example of the volume scattering function in coastal water. The main features of such inshore curves are, the semilogarithmic behavior at low angles, the absence of local maxima, and the high values obtained. The slopes were less negative in coastal water than offshore, indicating a smaller predominant particle size. Proceeding offshore, near the 100 fathom curve off Woods Hole, a sharp break was encountered in the absolute value of the volume scattering function. It became more curved in the low angle range, and a broad minimum appeared at the largest angles. Also shown in Figure 4.5-1 is an example of the volume scattering function in clear ocean water, where a series of maxima and minima occurred at angles greater than 90°. The appearance of these fluctuations indicated a tendency toward a monodisperse system of scatterers. The

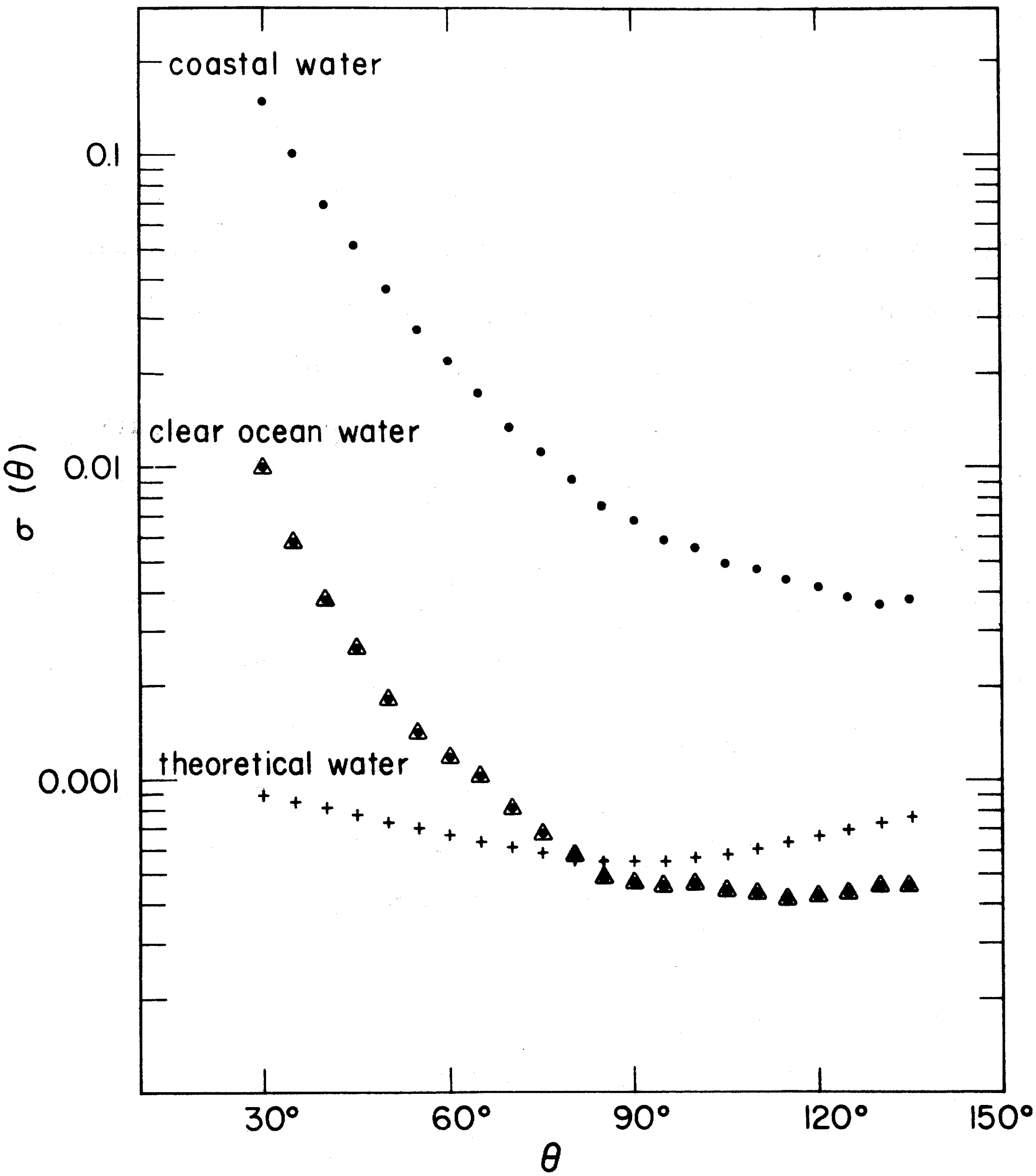


Fig. 4.5-1. A sample of the volume scattering function for coastal water, for clear ocean water, and the theoretical curve for pure water.

Sample numbers: CH42/1 and CH42/144.

signifigance of the difference between this curve and the theoretical curve is discussed later.

4.52 "Surface Samples"

All of the surface samples from the cruises on the R/V Crawford were grouped into five categories which were defined as follows:

coastal water -shore to 100 fm curve,

Bermuda water -shore to 100 fm curve,

slope water -100 fm curve to the western edge of the Gulf Stream,

Sargasso water -eastern edge of the Gulf Stream to the 100 fm curve at Bermuda,

Gulf Stream water -between slope water and Sargasso water.

The Gulf Stream was defined as the region where the bathythermograph section showed isotherms sloped sharply downward to the east, since it was undesirable to include any samples from the Sargasso water in the small Gulf Stream group.

The ratio, $\sigma(30°)/\sigma(45°)$, when examined by statistical methods, showed that there were real differences among these water types. The mean values and standard deviations of the ratio were computed for each water type and used in t tests. In each case the hypothesis that there was no signifigant difference was tested, using the 95% confidence level as the criterion of signifigance.

The mean value of $\sigma(30°)/\sigma(45°)$ for Bermuda was 2.91, with a standard deviation of 0.06, signifigantly lower than any of the other types, implying that the predominant scatterers were smallest in this region. The other values were:

coastal water	$3.33 \pm .22$
slope water	$3.32 \pm .14$
Gulf Stream water	$3.53 \pm .28$
Sargasso water	$3.61 \pm .26$

The probability that the coastal and slope waters were the same is greater than 90% but does not satisfy the 95% criterion. The Sargasso and Gulf Stream waters have lower ratios than either the slope or coastal waters; however, the Sargasso water cannot be differentiated from the Gulf Stream water. A trend toward larger scatterers as one proceeds offshore is shown by these ratios.

The absolute value of the scattering can also be used to differentiate these water types. Figure 4.5-2 shows the portion of the scattering coefficient between 30° and 130° together with the concurrent traces of salinity, temperature and the ratio, $\sigma(30°)/\sigma(45°)$. The sample having the highest value of s(30-130) was taken in Vineyard Sound; the magnitude then reduced in two jumps to a base level for

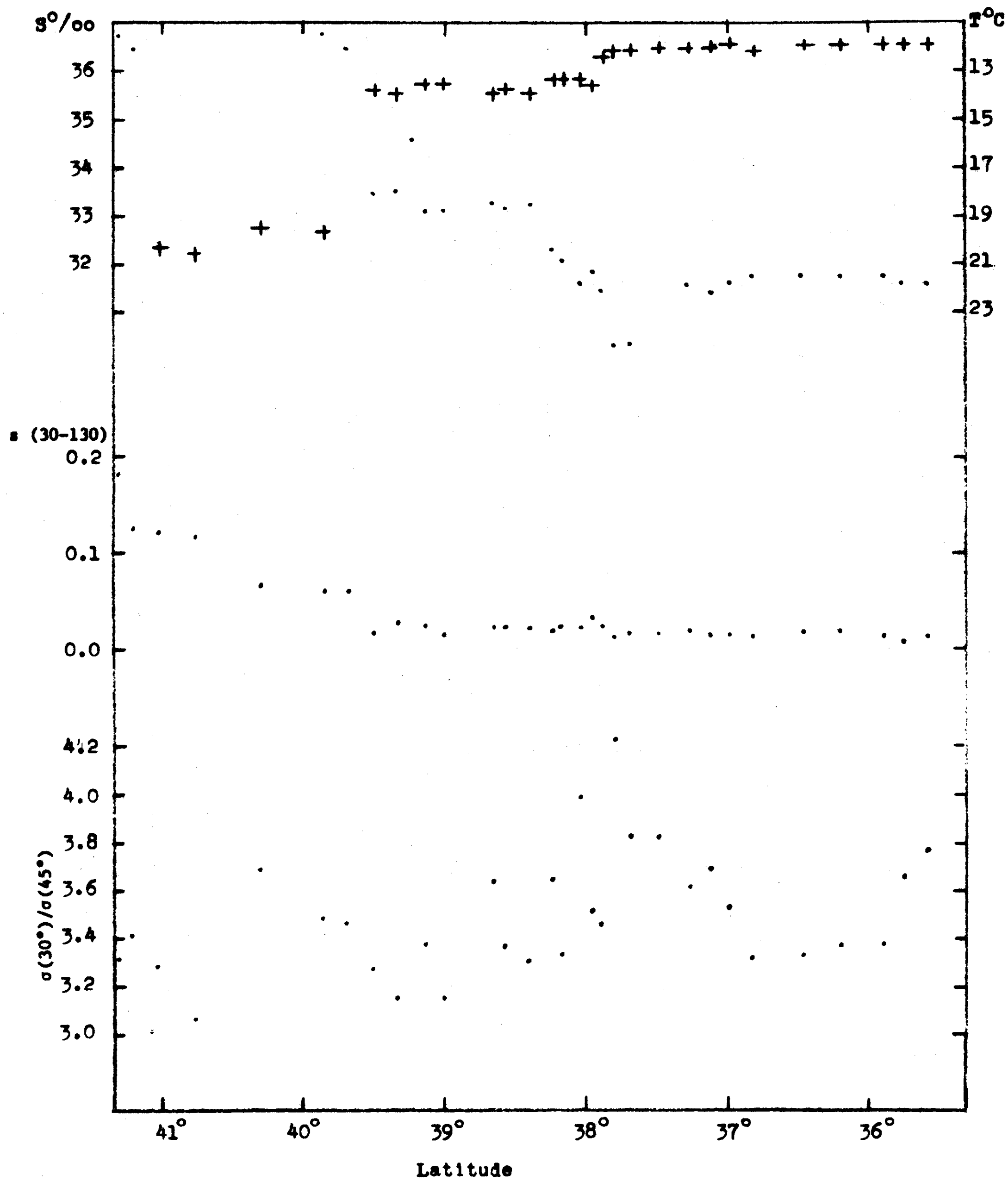


Fig. 4.5-2. Salinity (crosses), temperature, s(30-130), and σ(30°)/ σ(45°) against latitude; data taken on the R/V Crawford in November 1963 along the course from Woods Hole to Bermuda.

clear water. A distinction can be made between the shelf water and the slope water since a factor of three is involved but, the arbitrary division at the 100 fathom curve resulted in the borderline value being placed in the wrong category on both the outbound and return portion of this cruise. The correlation of the break in scattering with the thermohaline front that is well developed in this region during the winter shows that the scattering is controlled by the circulation.

The s(30-130) values in port at Bermuda were over 0.1 whereas just offshore they were in the 0.06 range. The other water types are given below:

slope water	0.0222 ± 0.0053
Gulf Stream water	0.0195 ± 0.0088
Sargasso water	0.0172 ± 0.0044 .

There is a trend toward a lower average as one moves into the Sargasso region; however, due to the variance the only signifigant difference is between the slope and the Sargasso water. This indicates that the intermediate value for Gulf Stream water is not unreasonable.

These results were confirmed by later measurements made on the R/V Chain; although, the sequence of values for s(30-130) as the ship proceeded southward was not monotonically decreasing. The values starting in Vineyard Sound were 0.19, 0.13, 0.065, 0.11, 0.056, 0.021, 0.020, 0.016, and 0.021, where the Gulf Stream came between the 0.021 and the 0.020 values.

4.53 "Hydrograpic Station Samples"

The temperature, salinity, ln s(30-130), and ln-ln slope as a function of depth for all of the hydrographic stations are presented in Figures 4.5-3 through 4.5-26. The standard error of the difference between any two numbers is indicated on these graphs and one can be 95% confident that a difference is real if the limits indicated on one point do not overlap the limits on the other.

The closest thing to a consistent feature was the increase in the ln-ln slope near the base of the main thermocline. The two 200 meter stations, Figures 4.5-15 and 16, show that in the surface layers there is a great deal of detail that is missed with the large sampling interval employed in the usual hydrographic station. This fact emphasizes the necessity for continuous "in situ" recordings with which true profiles both vertically and horizontally can be made.

4.54 "Thermal Front Survey"

A generalized temperature section for the thermal front is shown in Figure 4.5-27; this front was similar to those discussed by Voorhis and Hersey (1964). The sort-

(text continued on p. 129)

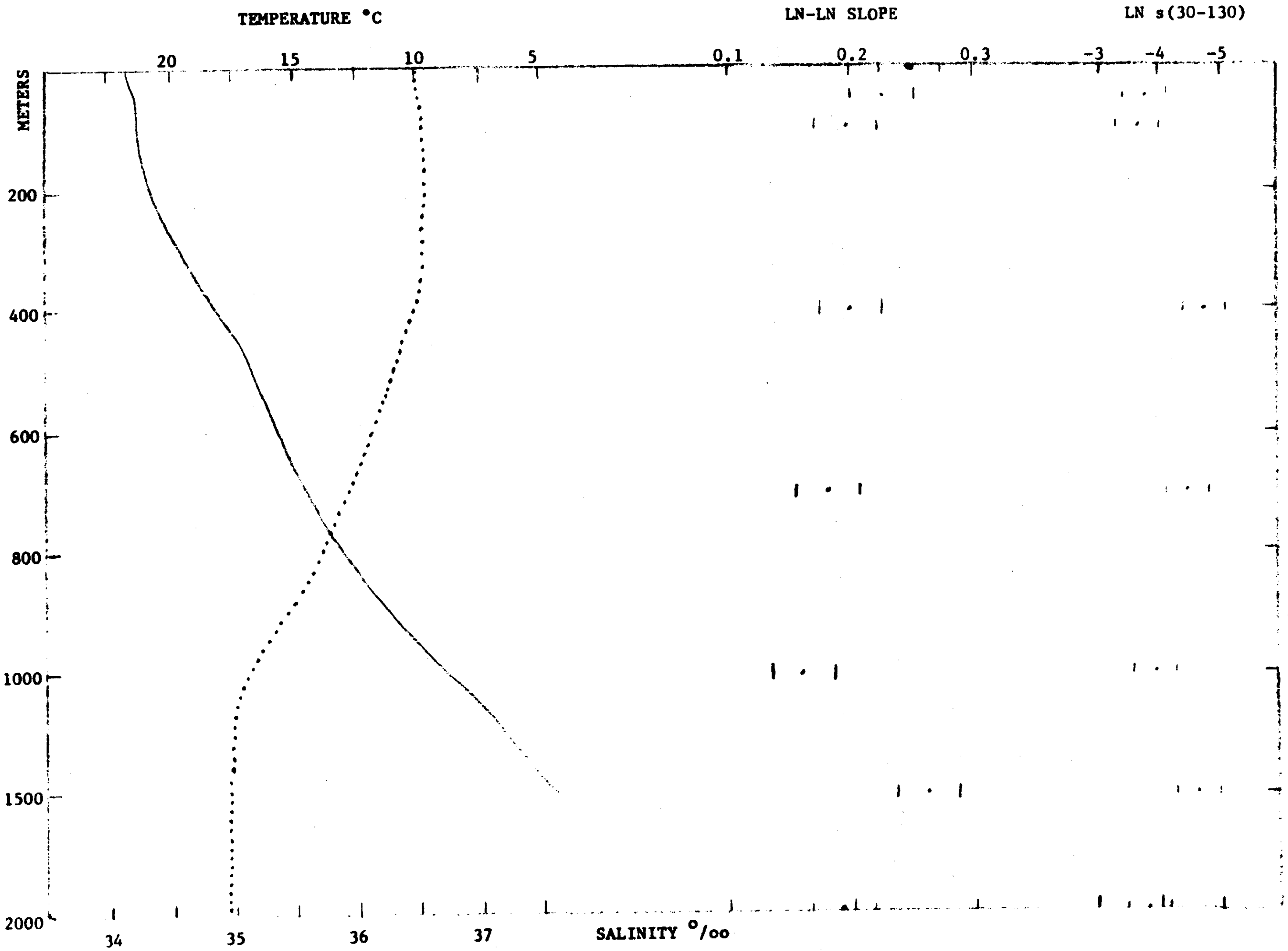


Fig. 4.5-3. On 4 Dec. 1963 at 36°14'N and 67°23'W: temperature, salinity (dotted), ln-ln slope, and ln s(30-130) against depth.

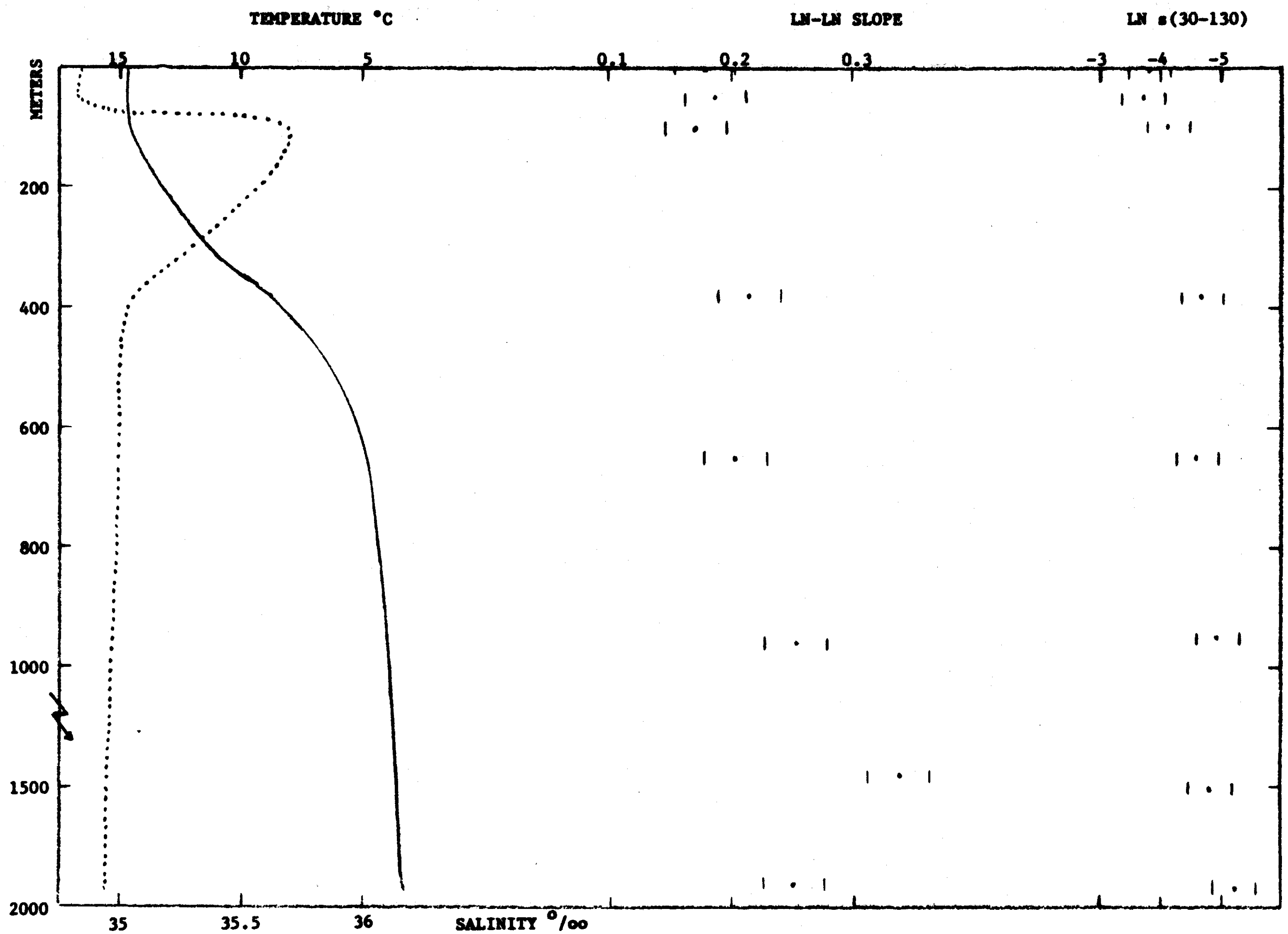


Fig. 4.5-4. On 5 Dec. 1963 at 38°55'N and 69°05'W: temperature, salinity (dotted), ln-ln slope, and ln s(30-130) against depth.

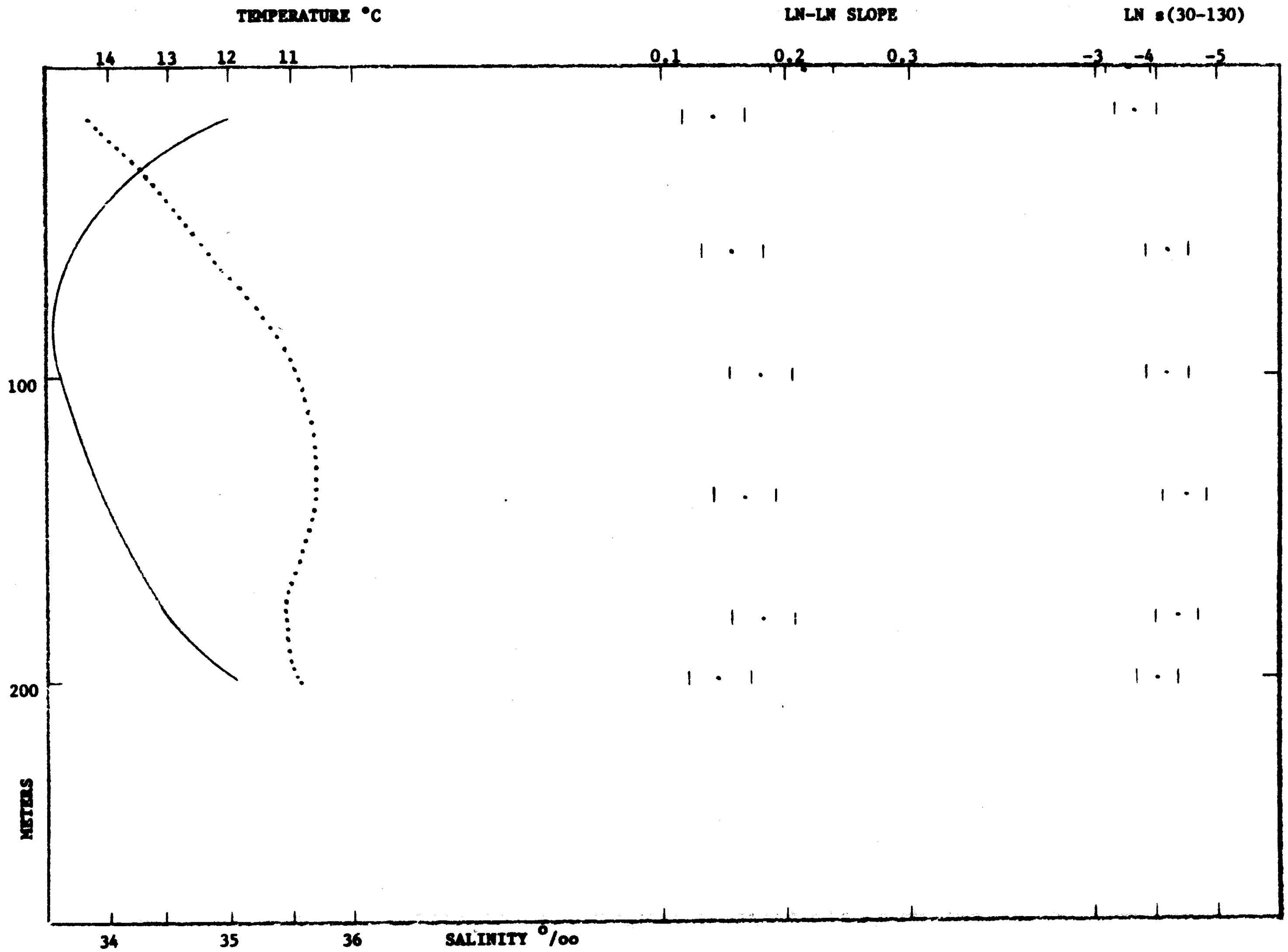


Fig. 4.5-5. On 5 Dec. 1963 at 39°57'N and 69°57'W: temperature, salinity (dotted), ln-ln slope, and ln s(30-130) against depth.

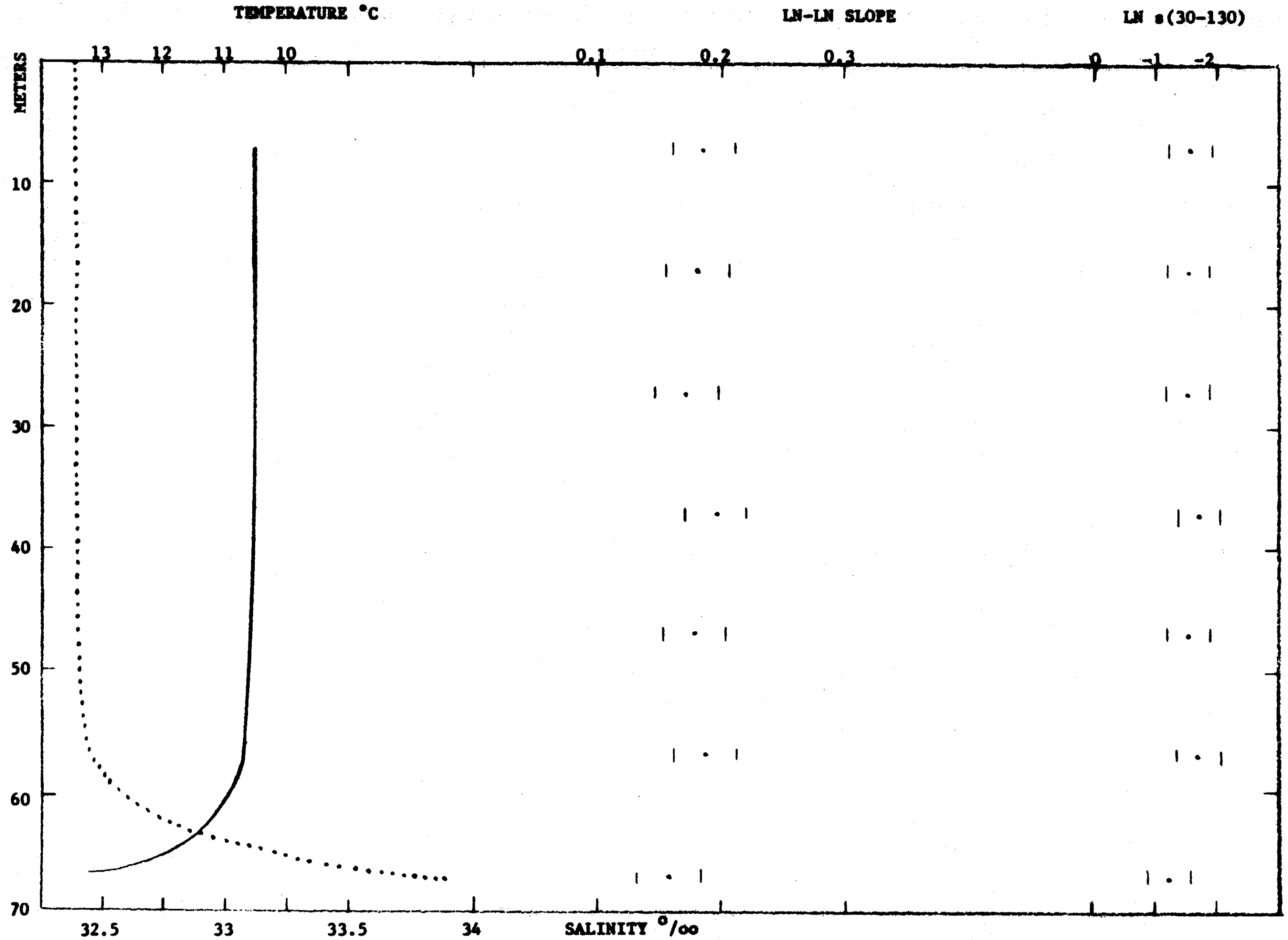


Fig. 4.5-6. On 5 Dec. 1963 at 40°31'N and 70°25'W: temperature, salinity (dotted), ln-ln slope, and ln s(30-130) against depth.

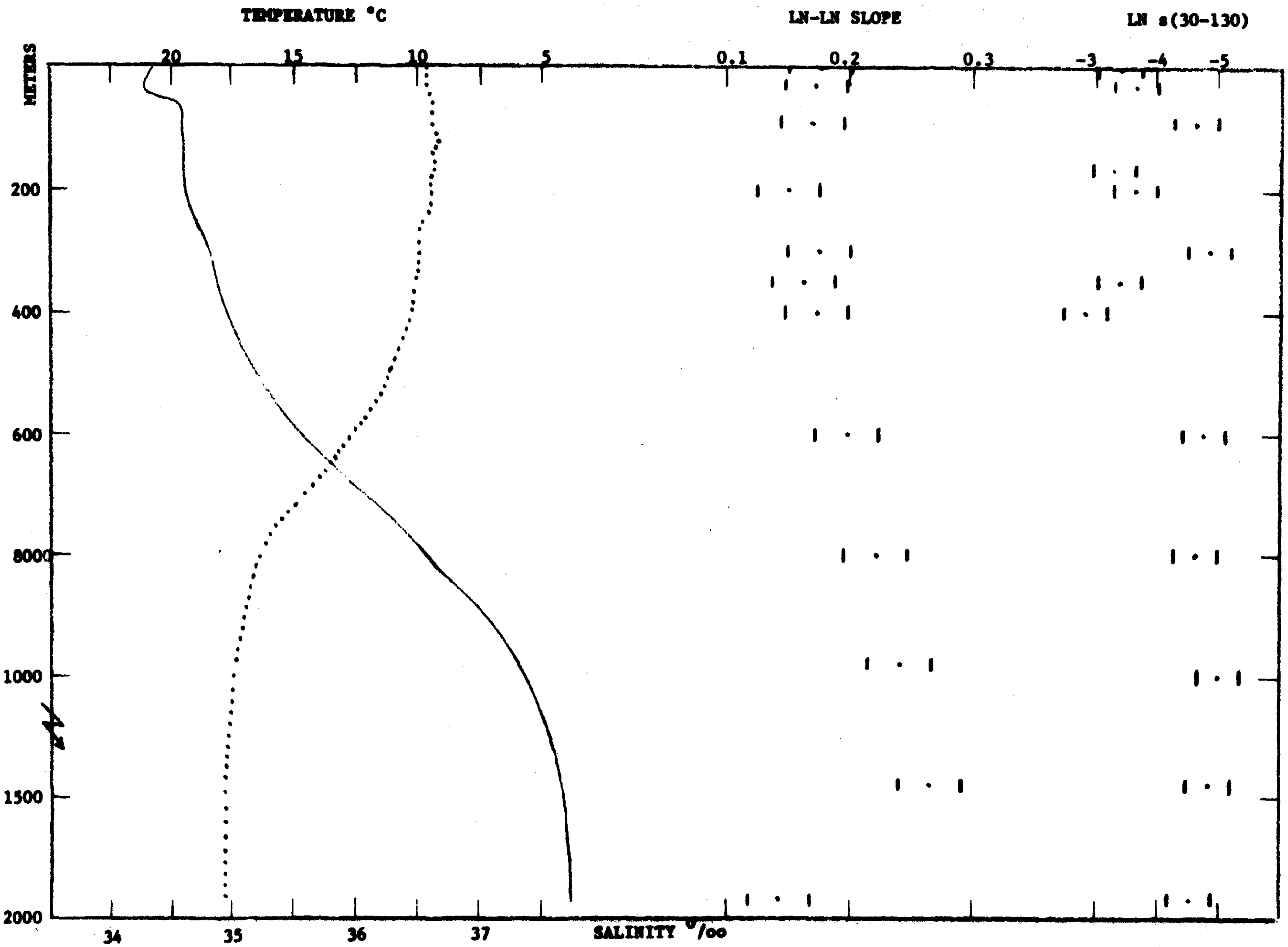


Fig. 4.5-7. On 16 Jan. 1964 at 37°11'N and 70°00'W: temperature, salinity (dotted), ln-ln slope, and ln s(30-130) against depth.

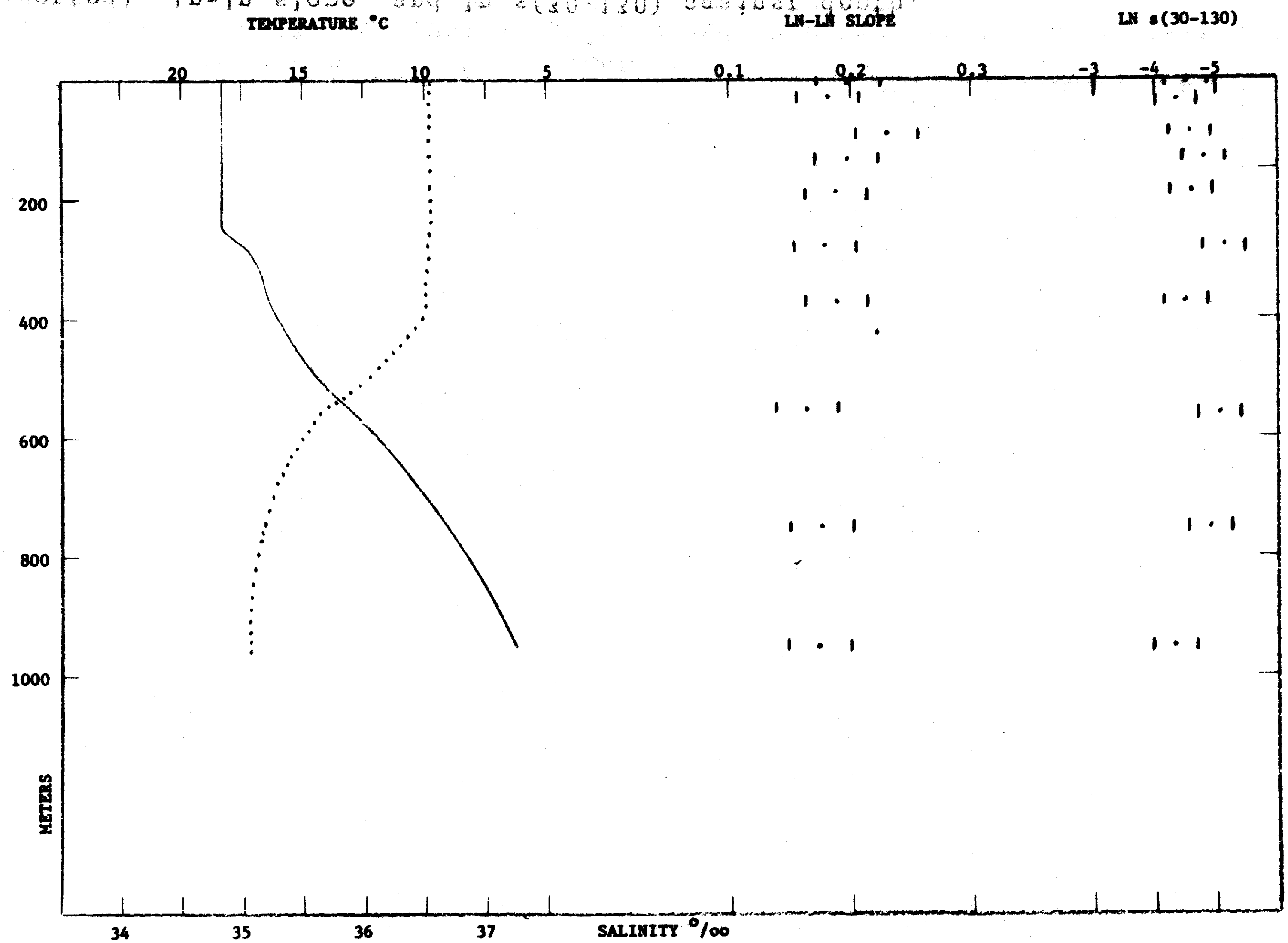


Fig. 4.5-8. On 17 Jan. 1964 at 34°53'N and 70°00'W: temperature, salinity (dotted), ln-ln slope, and ln s(30-130) against depth.

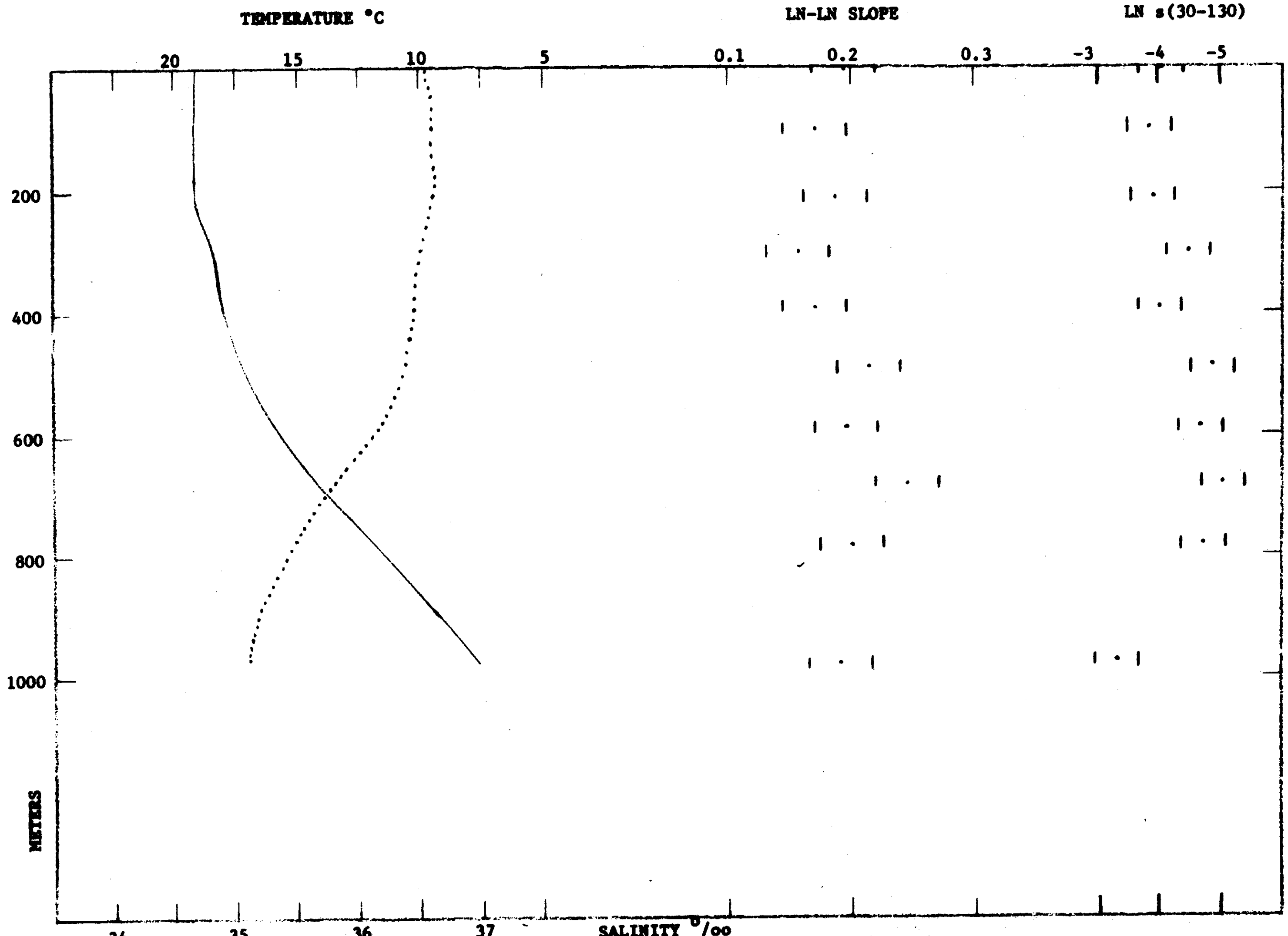


Fig. 4.5-9. On 17 Jan. 1964 at 32°47'N and 70°00'W: temperature, salinity (dotted), ln-ln slope, and ln s(30-130) against depth.

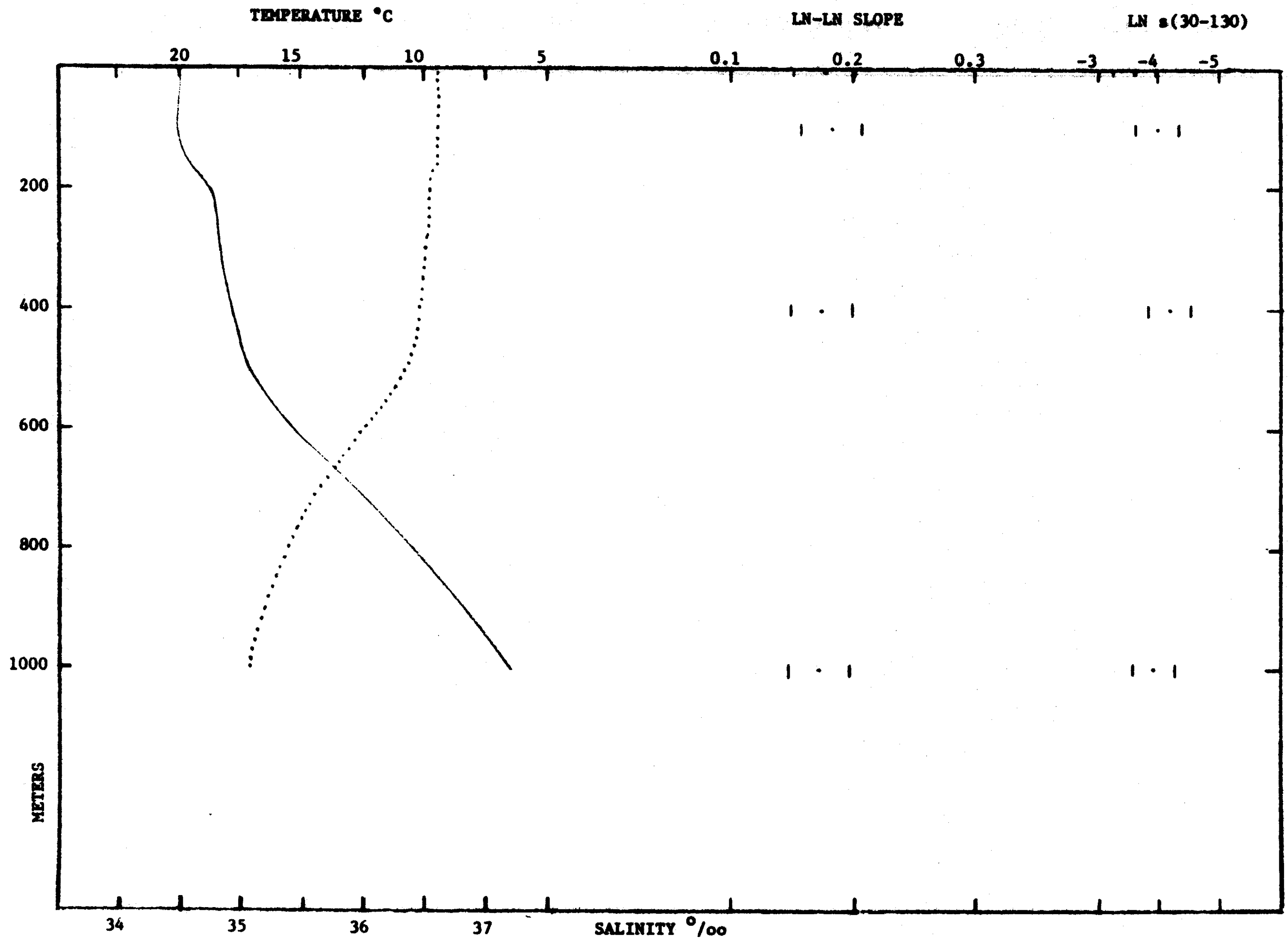


Fig. 4.5-10. On 18 Jan. 1964 at 30°21'N and 69°32'W: temperature, salinity (dotted), ln-ln slope, and ln s(30-130) against depth.

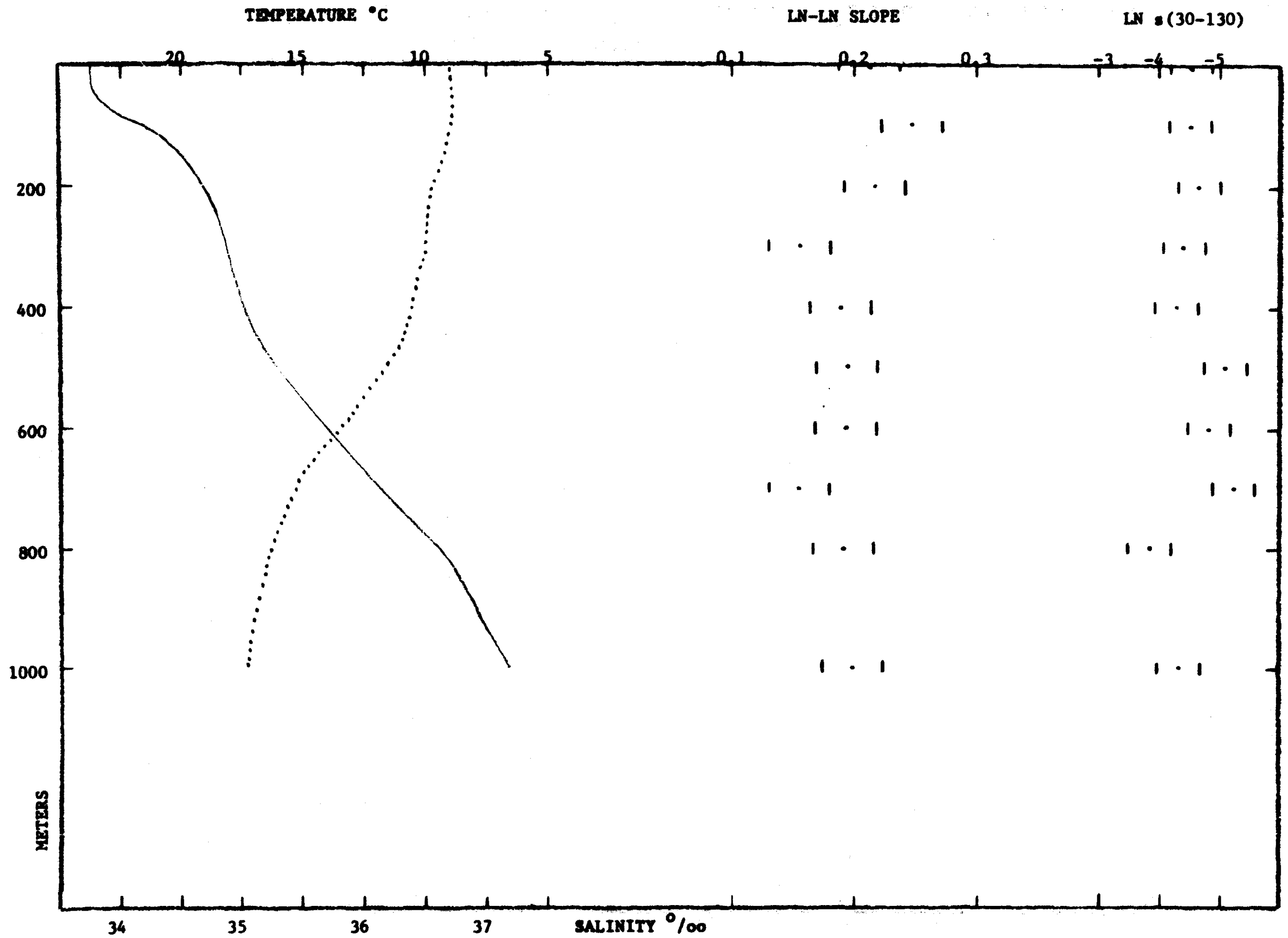


Fig. 4.5-11. On 19 Jan. 1964 at 26°32'N and 69°30'W: temperature, salinity (dotted), ln-ln slope, and ln s(30-130) against depth.

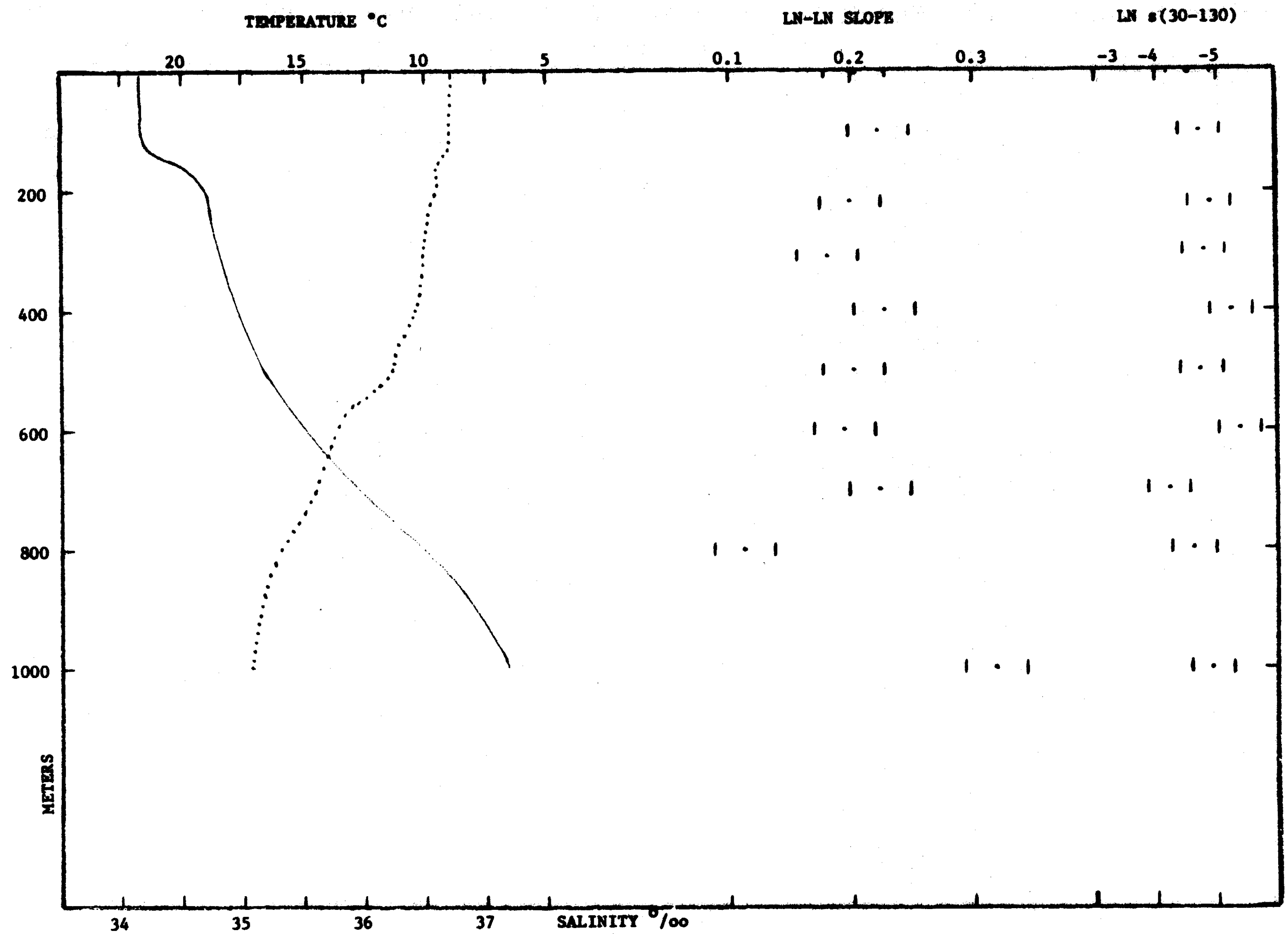


Fig. 4.5-12. On 20 Jan. 1964 at 27°15'N and 69°52'W: temperature, salinity (dotted), ln-ln slope, and ln s(30-130) against depth.

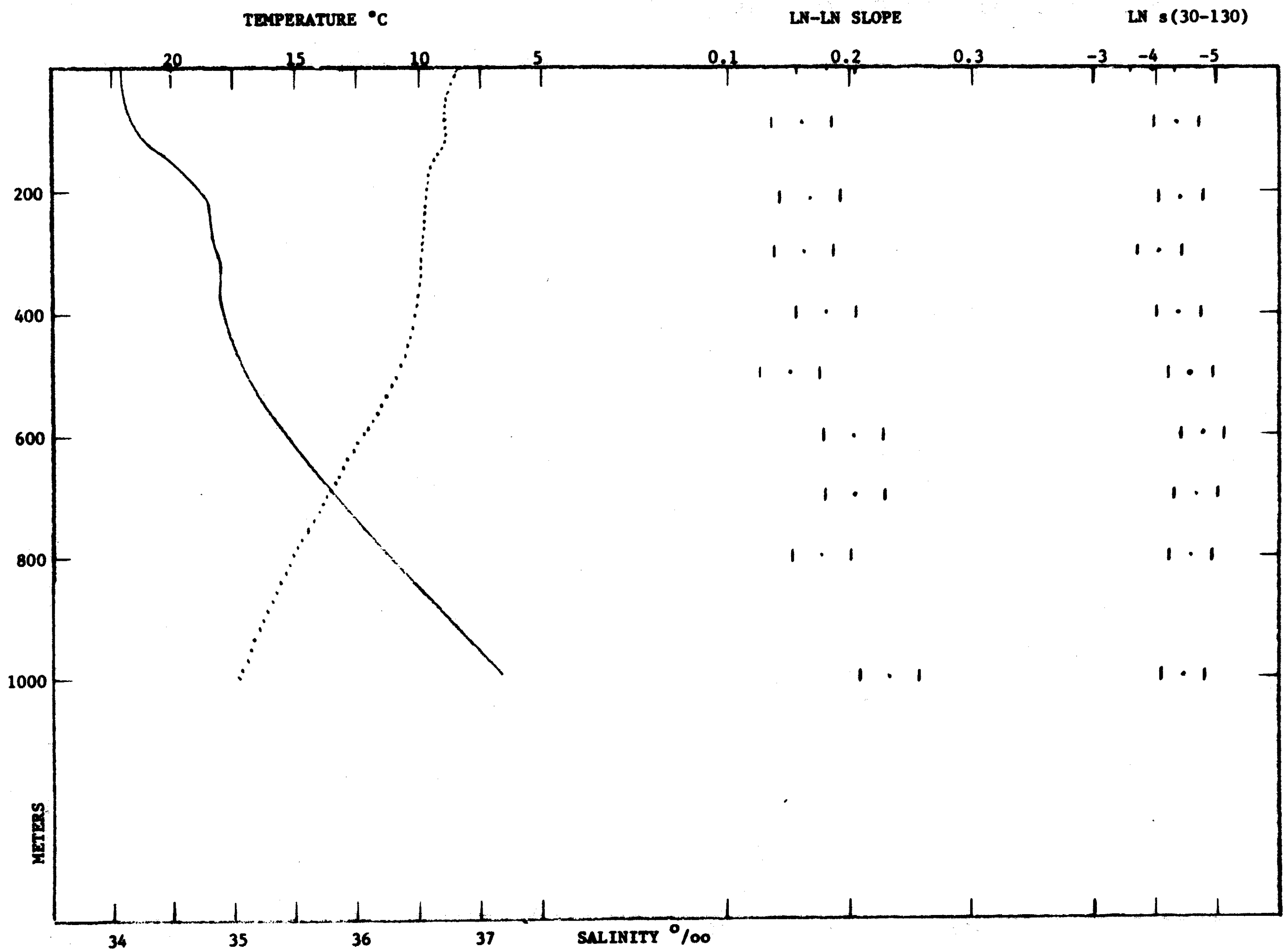


Fig. 4.5-13. On 23 Jan. 1964 at 28°03'N and 71°47'W: temperature, salinity (dotted), ln-ln slope, and ln s(30-130) against depth.

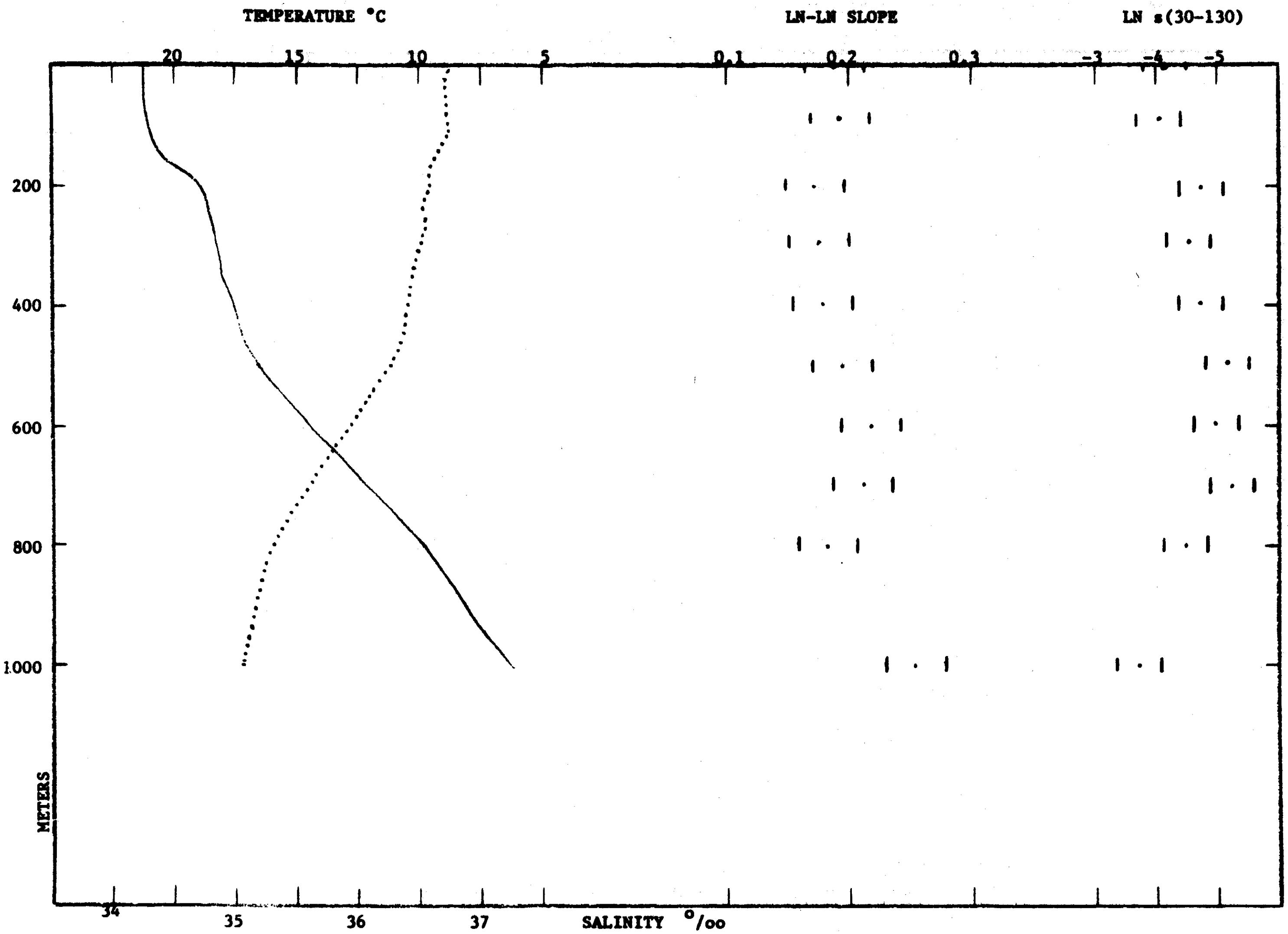


Fig. 4.5-14. On 24 Jan. 1964 at 27°10'N and 69°17'W: temperature, salinity (dotted), ln-ln slope, and ln s(30-130) against depth.

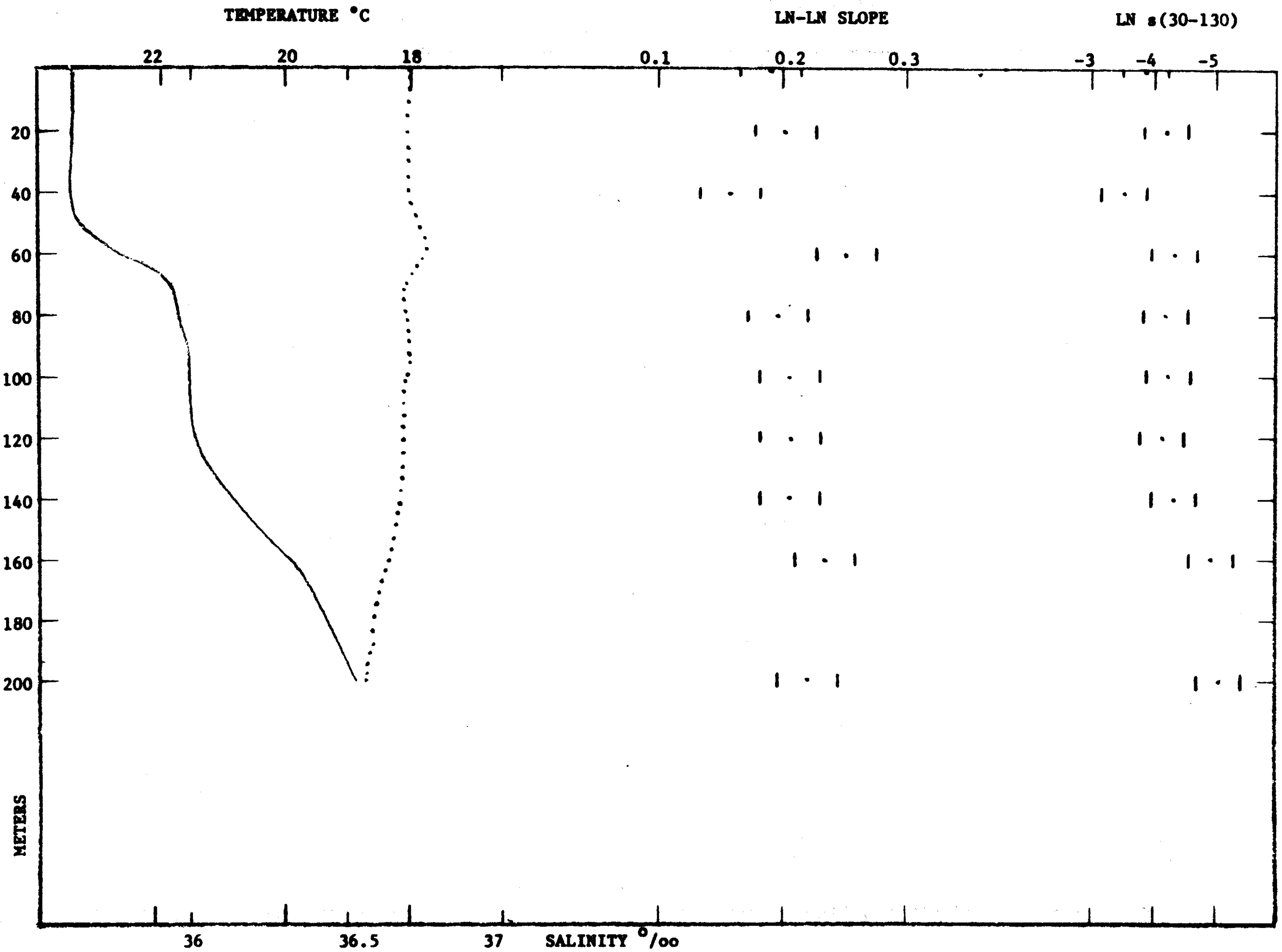


Fig. 4.5-15. On 25 Jan. 1964 at 26°28'N and 67°35'W: temperature, salinity (dotted), ln-ln slope, and ln s(30-130) against depth.

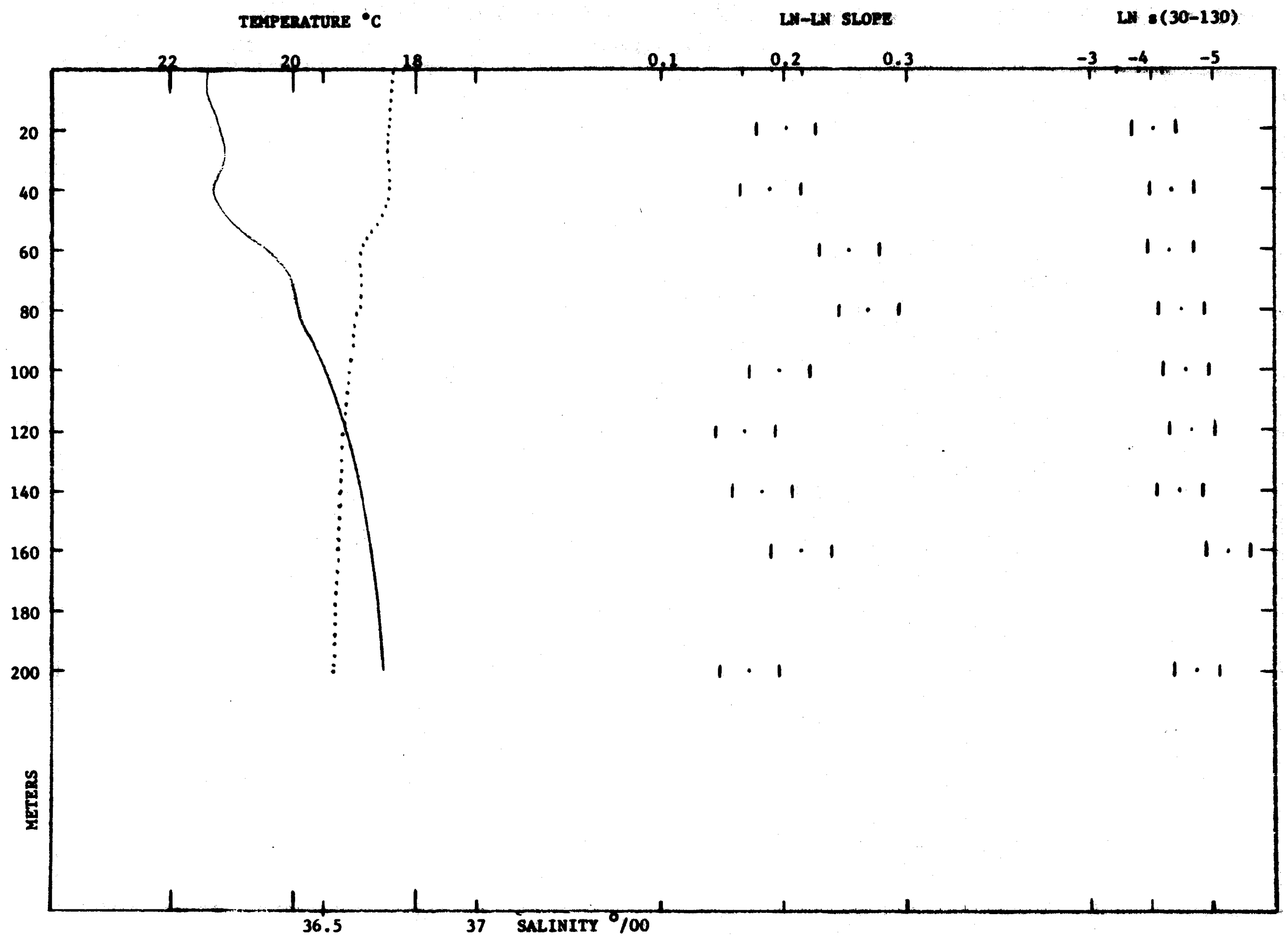


Fig. 4.5-16. On 26 Jan. 1964 at 26°52'N and 67°46'W: temperature, salinity (dotted), ln-ln slope, and ln s(30-130) against depth.

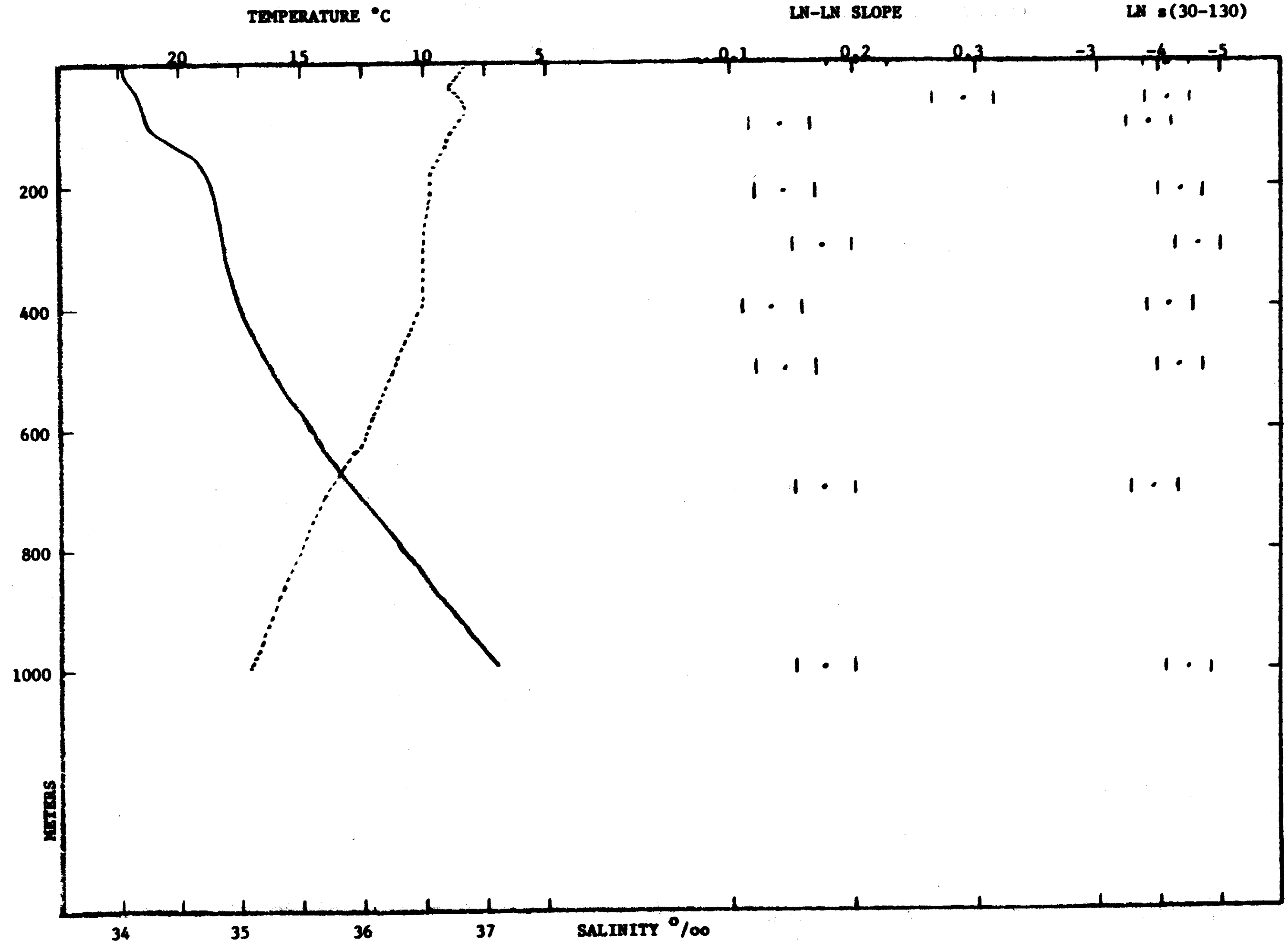


Fig. 4.5-17. On 29 Jan. 1964 at 28°51'N and 63°07'W: temperature, salinity (dotted), ln-ln slope, and ln s(30-130) against depth.

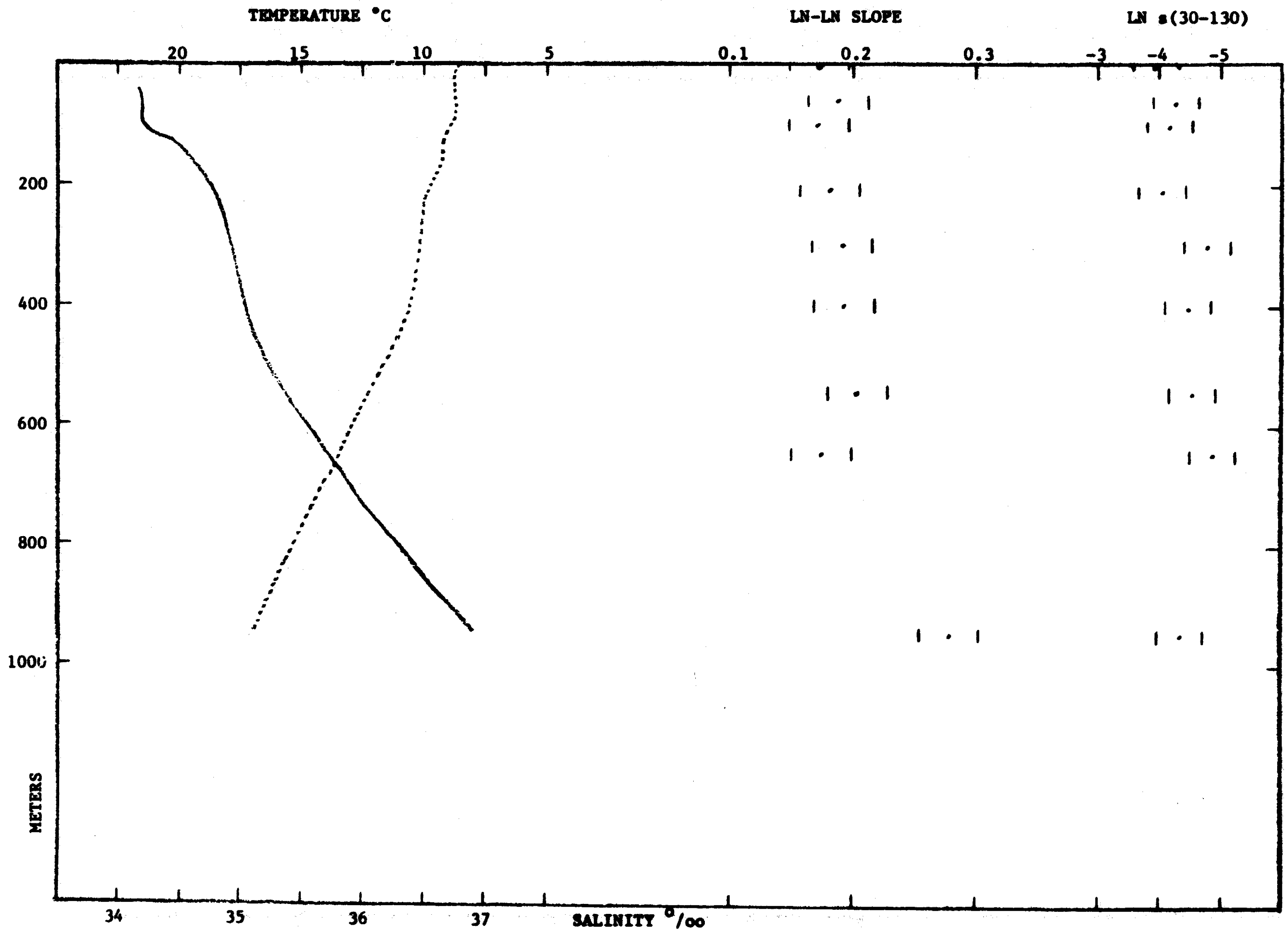


Fig. 4.5-18. On 29 Jan. 1964 at 29°57'N and 64°04'W: temperature, salinity (dotted), ln-ln slope, and ln s(30-130) against depth.

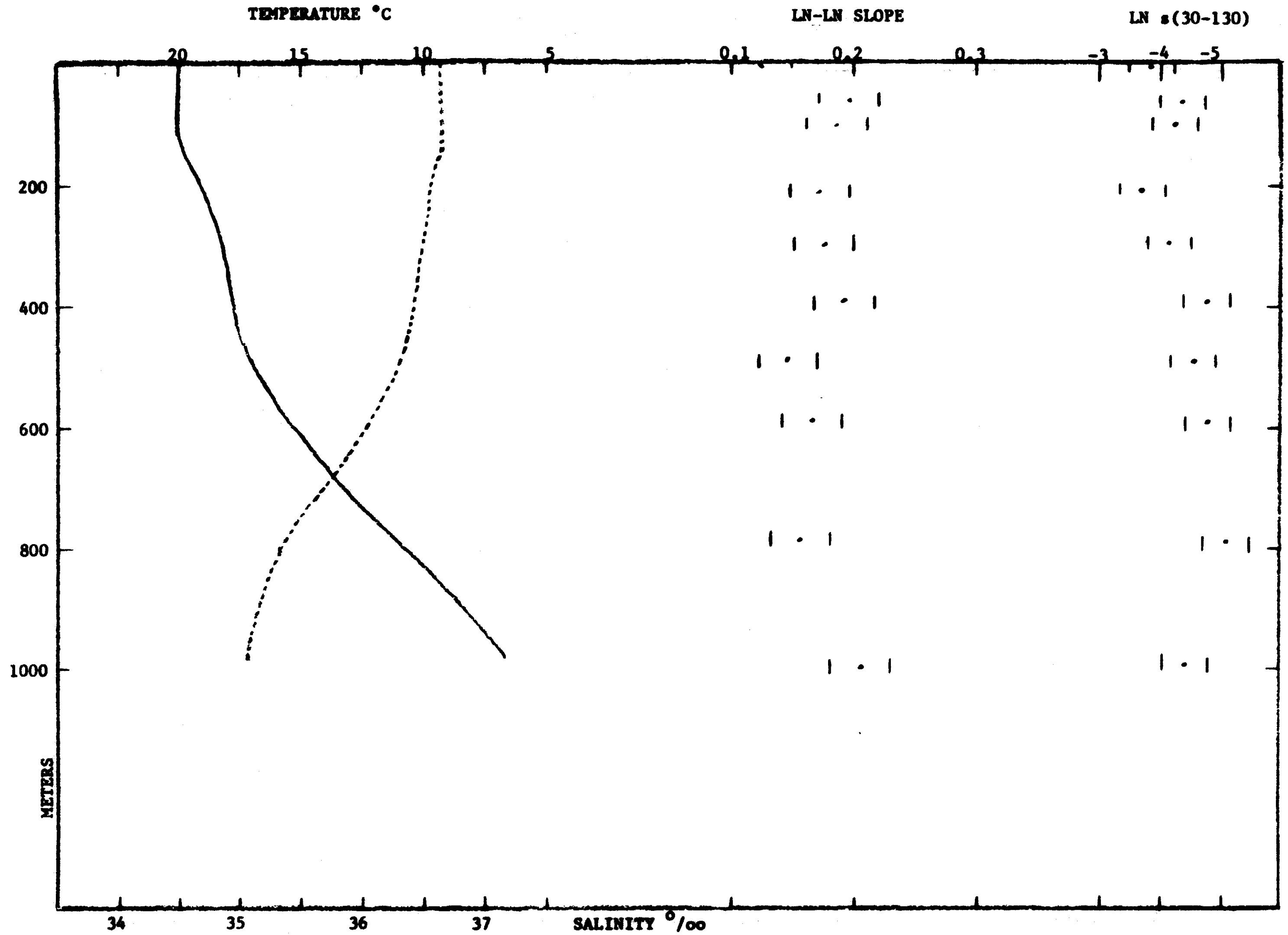


Fig. 4.5-19. On 30 Jan. 1964 at 31°03'N and 64°47'W: temperature, salinity (dotted), ln-ln slope, and ln s(30-130) against depth.

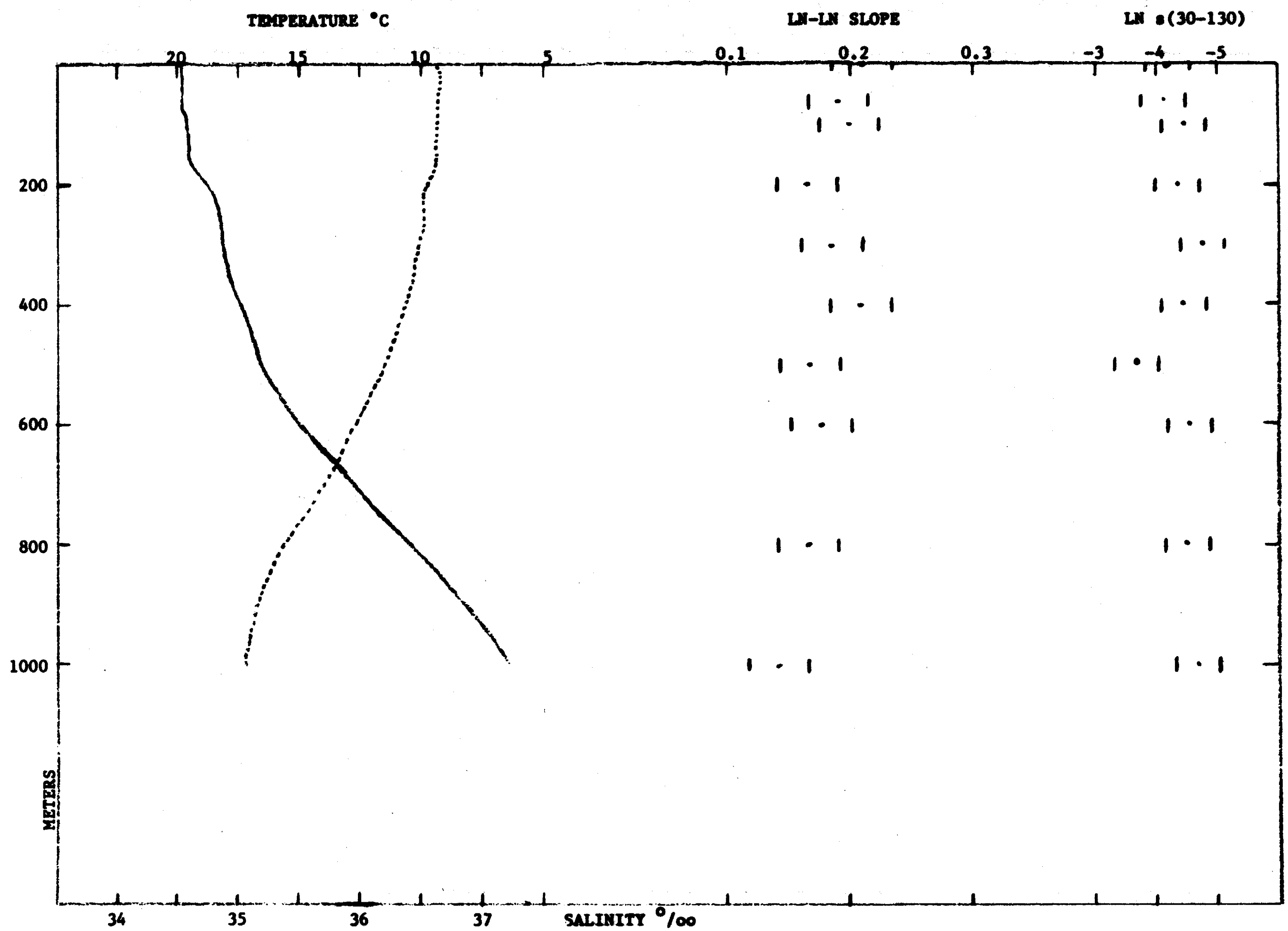


Fig. 4.5-20. On 30 Jan. 1964 at 32°05'N and 65°20'W: temperature, salinity (dotted), ln-ln slope, and ln s(30-130) against depth.

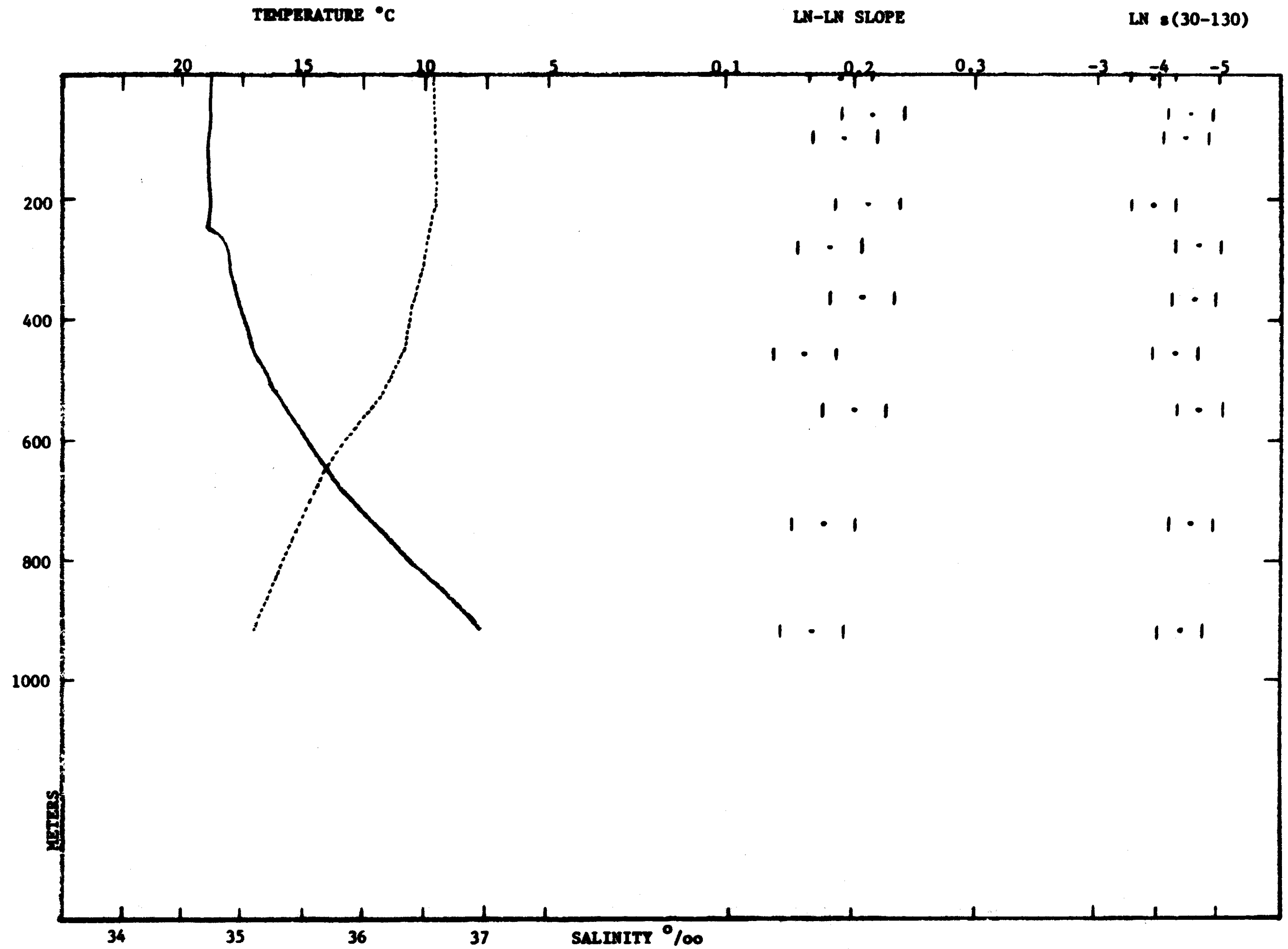


Fig. 4.5-21. On 30 Jan. 1964 at 32°56'N and 65°57'W: temperature, salinity (dotted), ln-ln slope, and ln s(30-130) against depth.

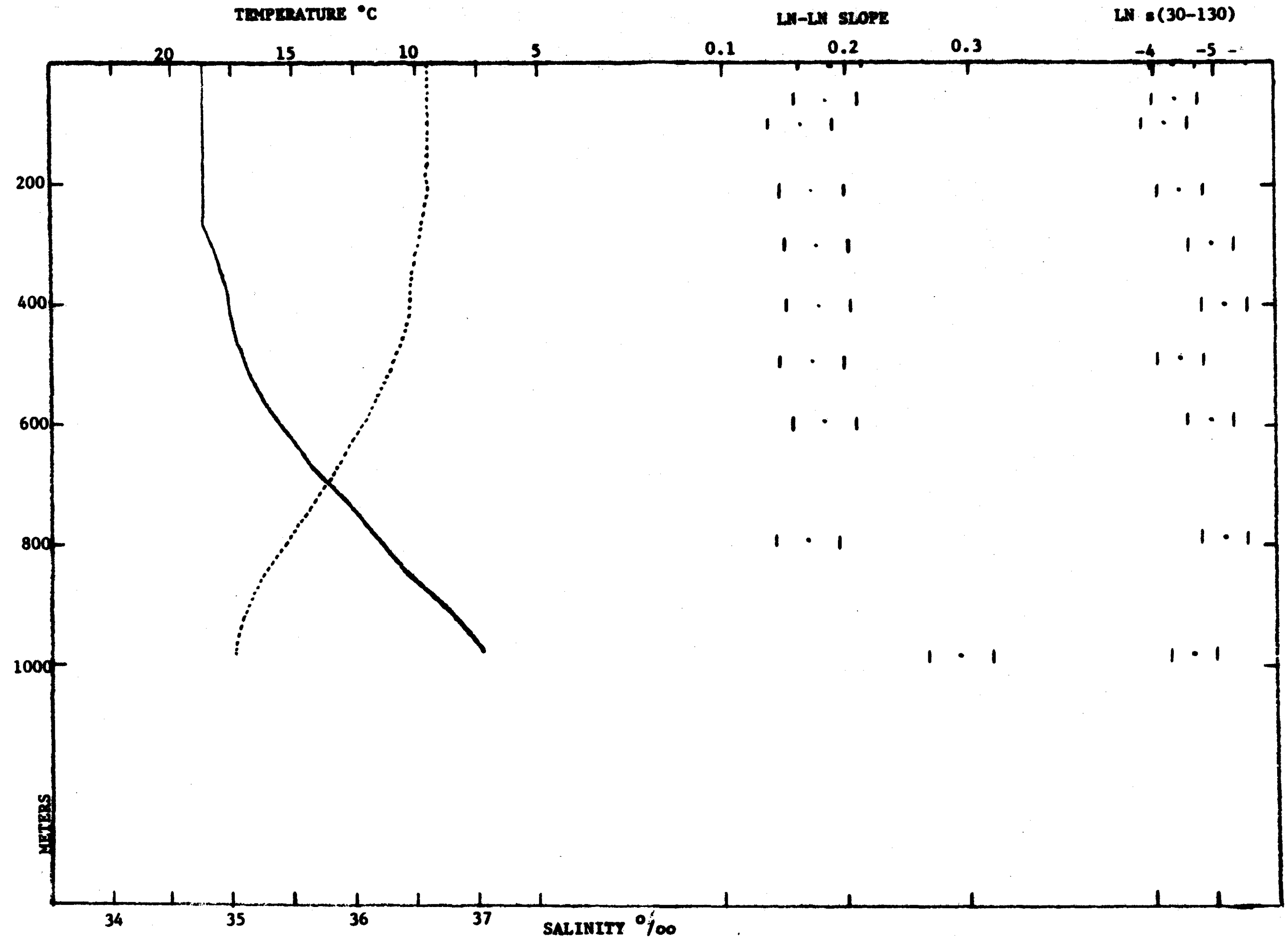


Fig. 4.5-22. On 31 Jan. 1964 at 34°05'N and 66°38'W: temperature, salinity (dotted), ln-ln slope, and ln s(30-130) against depth.

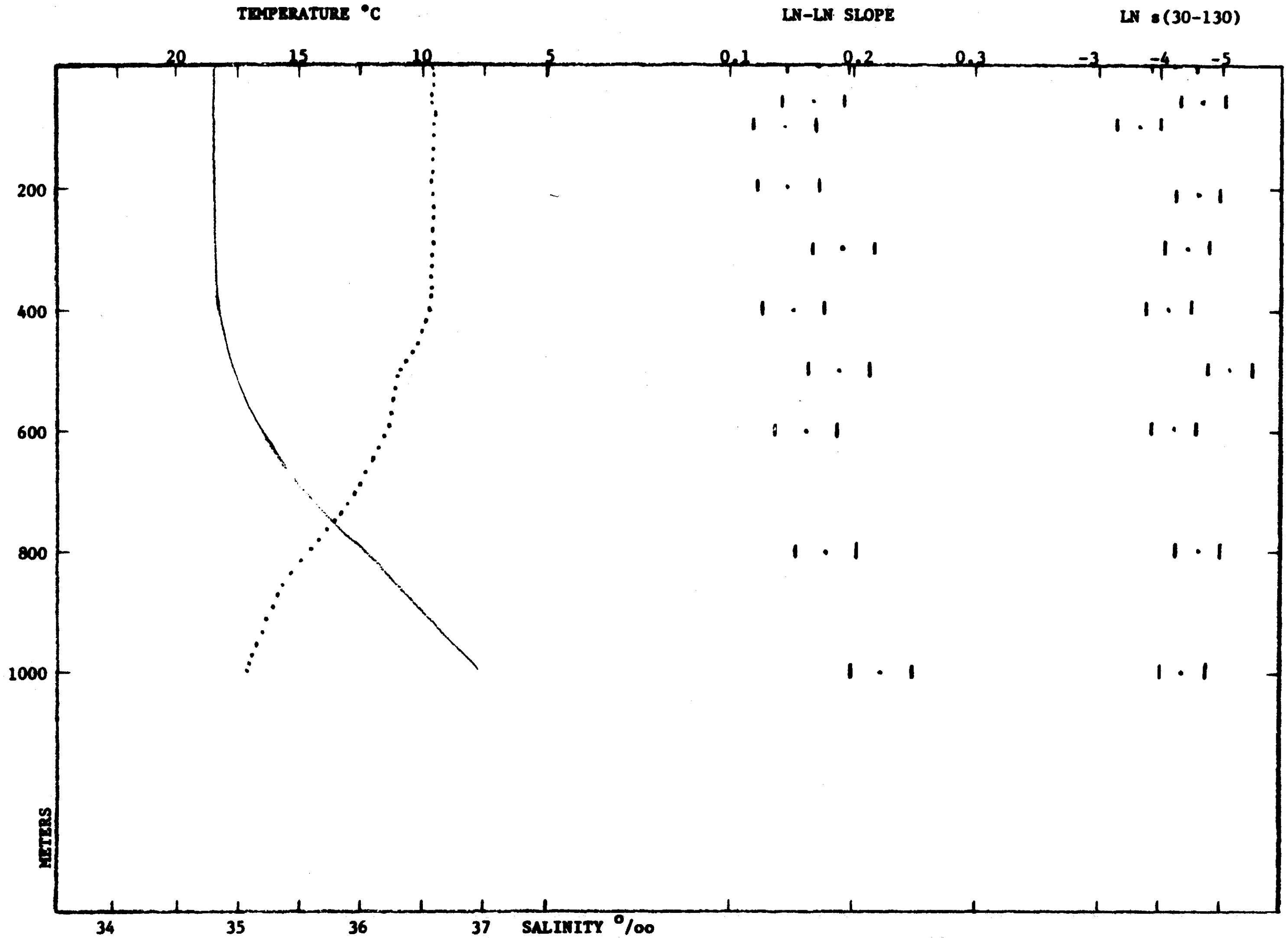


Fig. 4.5-23. On 31 Jan. 1964 at 34°58'N and 67°04'W: temperature, salinity (dotted), ln-ln slope, and ln s(30-130) against depth.

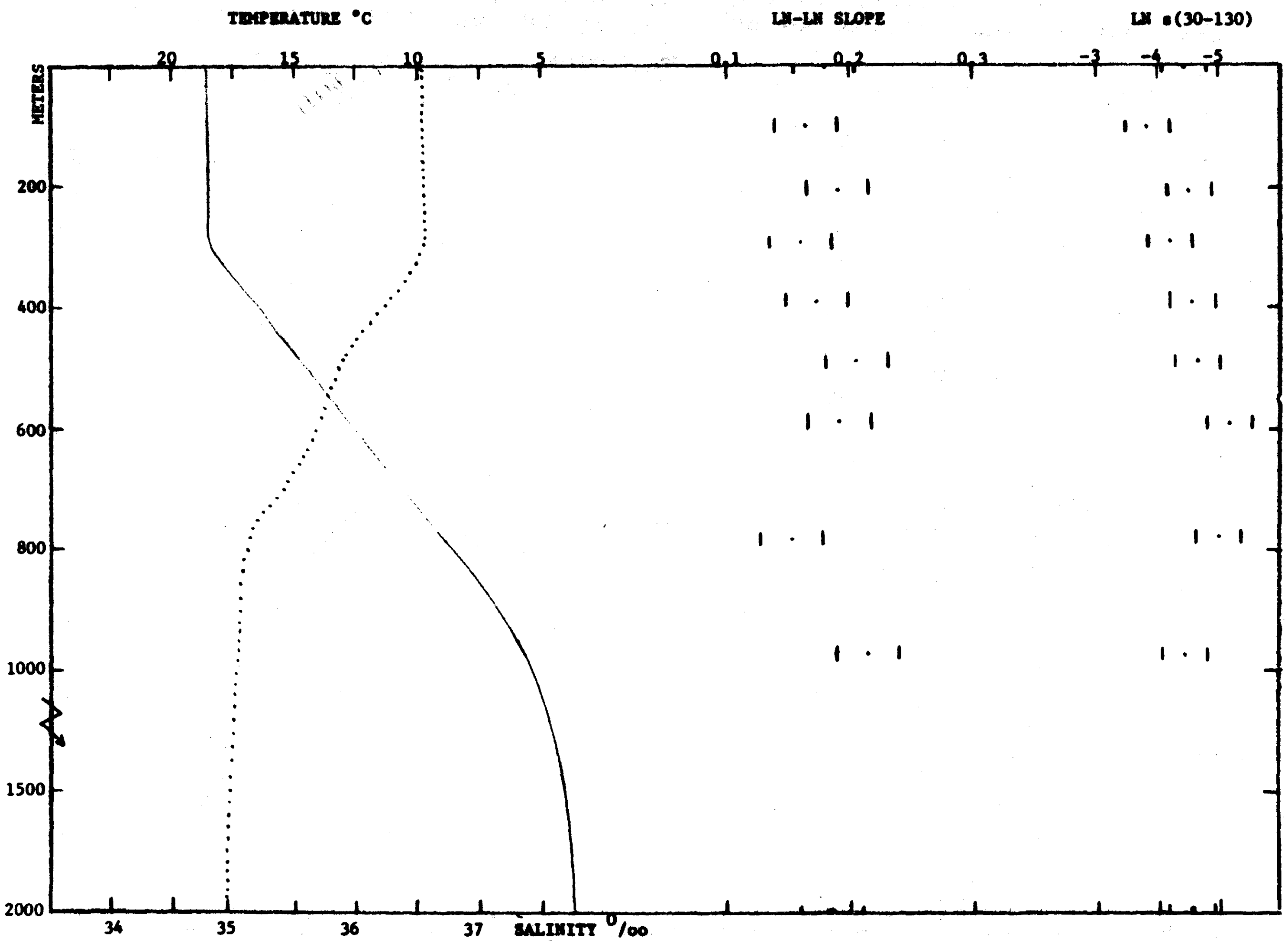


Fig. 4.5-24. On 31 Jan. 1964 at 36°03'N and 67°39'W: temperature, salinity (dotted), ln-ln slope, and ln s(30-130) against depth.

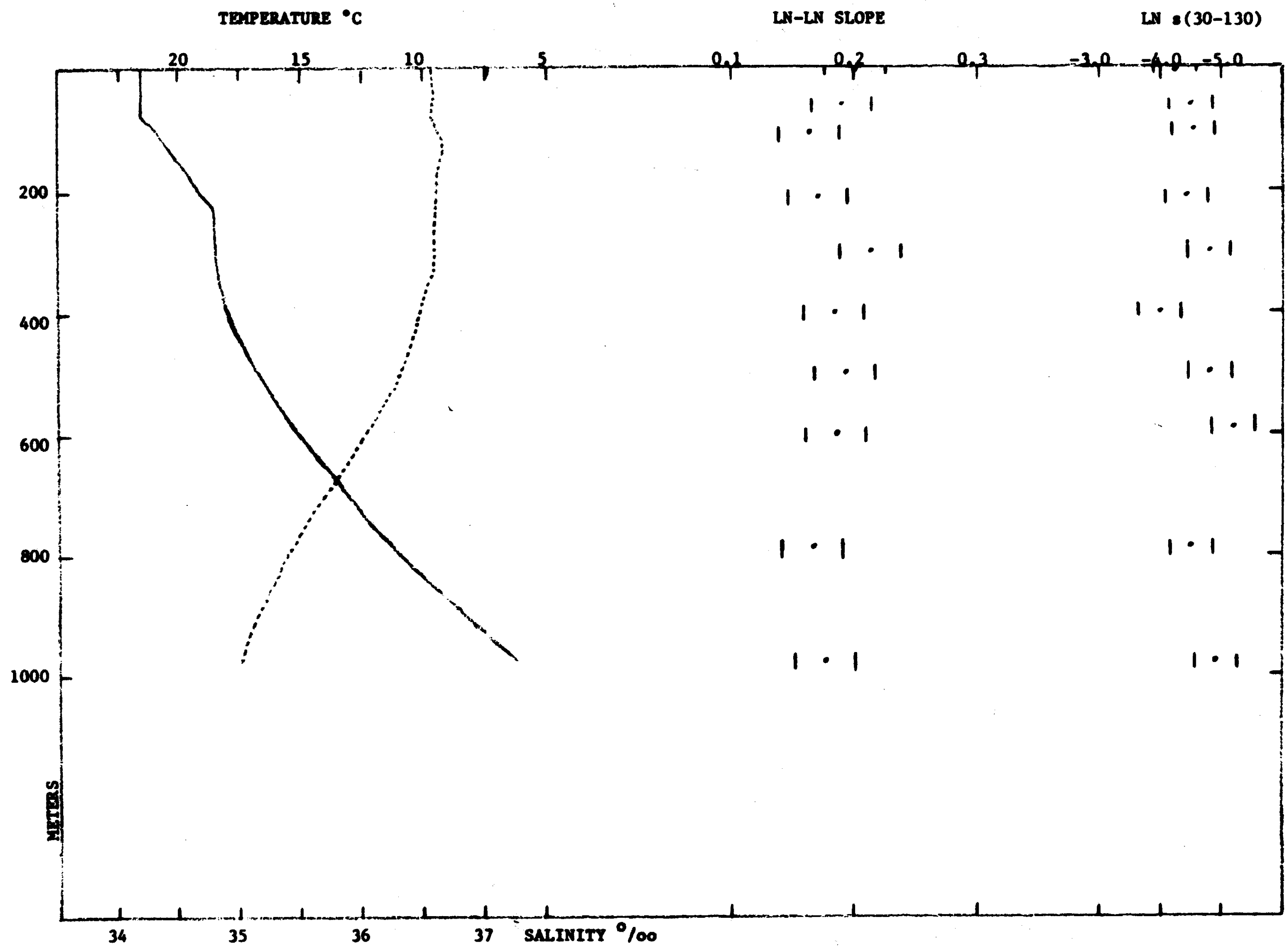


Fig. 4.5-25. On 1 Feb. 1964 at 37°39'N and 68°38'W: temperature, salinity (dotted), ln-ln slope, and ln s(30-130) against depth.

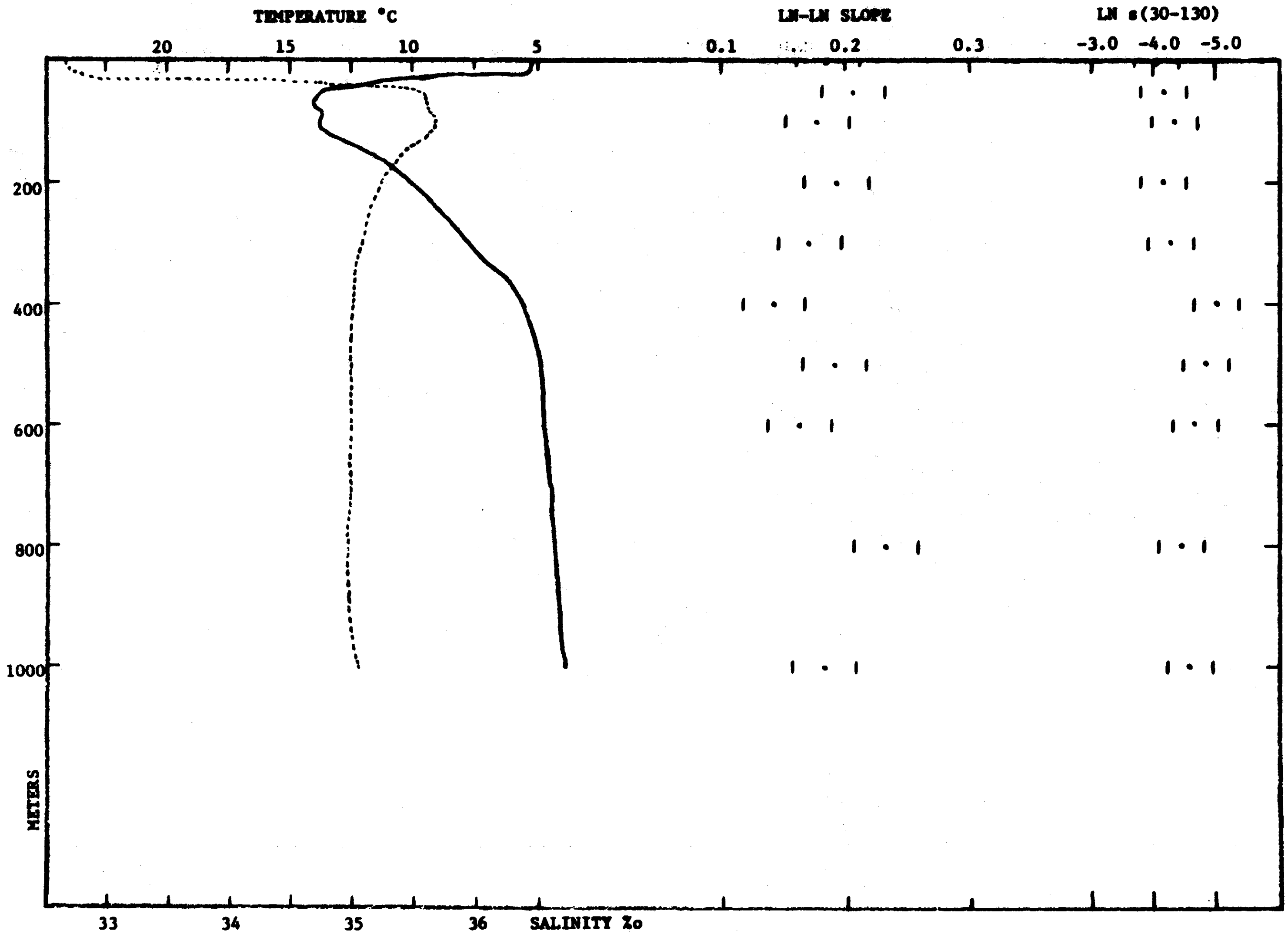


Fig. 4.5-26. On 1 Feb. 1964 at 38°58'N and 69°32'W: temperature, salinity (dotted), ln-ln slope, and ln s(30-130) against depth.

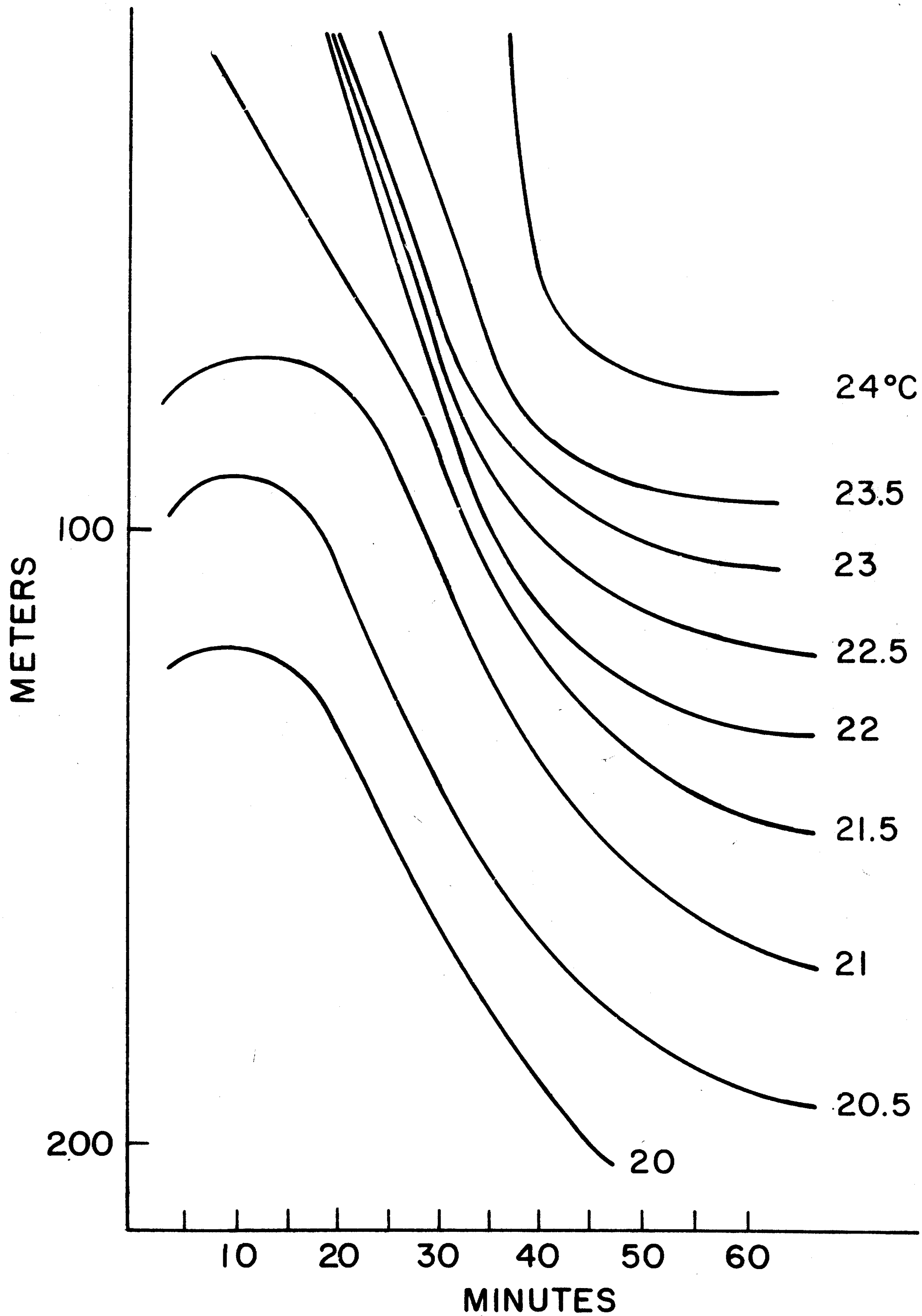


Fig. 4.5-27. A generalized temperature section across a thermal front: depth against minutes of latitude.

ing of the results of the surface samples in the neighborhood of the thermal front into arbitrary temperature intervals showed that the ratio, $\sigma(30°)/\sigma(45°)$, in the 22.8° water, 3.080±0.103, was different from the average of all other samples, 3.323±0.123, while the magnitude of the scattering showed no differences. Figure 4.5-28 gives these quantities as a function of temperature and shows that there was no difference on either side of the front in the ratio or in the magnitude of the scattering. At the 22.8° isotherm a strongly developed line of weed, which is generally taken to be a sign of surface convergence, was noted once. Coincidentally the lowest value of the ratio was observed.

4.55 "Determination of the Scattering Coefficient by Measurement at One Angle"

To test the hypothesis that the scattering coefficient can be determined from the measurement of $\sigma(\theta)$ at one angle the ratios, $s/\sigma(\theta)$ and $s(30\text{-}130)/\sigma(\theta)$ were computed. The average of these ratios and their standard deviations yielded the results given in Table 4-1. These values show that s(30-130) can be determined with a standard deviation of less than 6% by measurement of $\sigma(45°)$ but they also show that a bias is introduced by the water type.

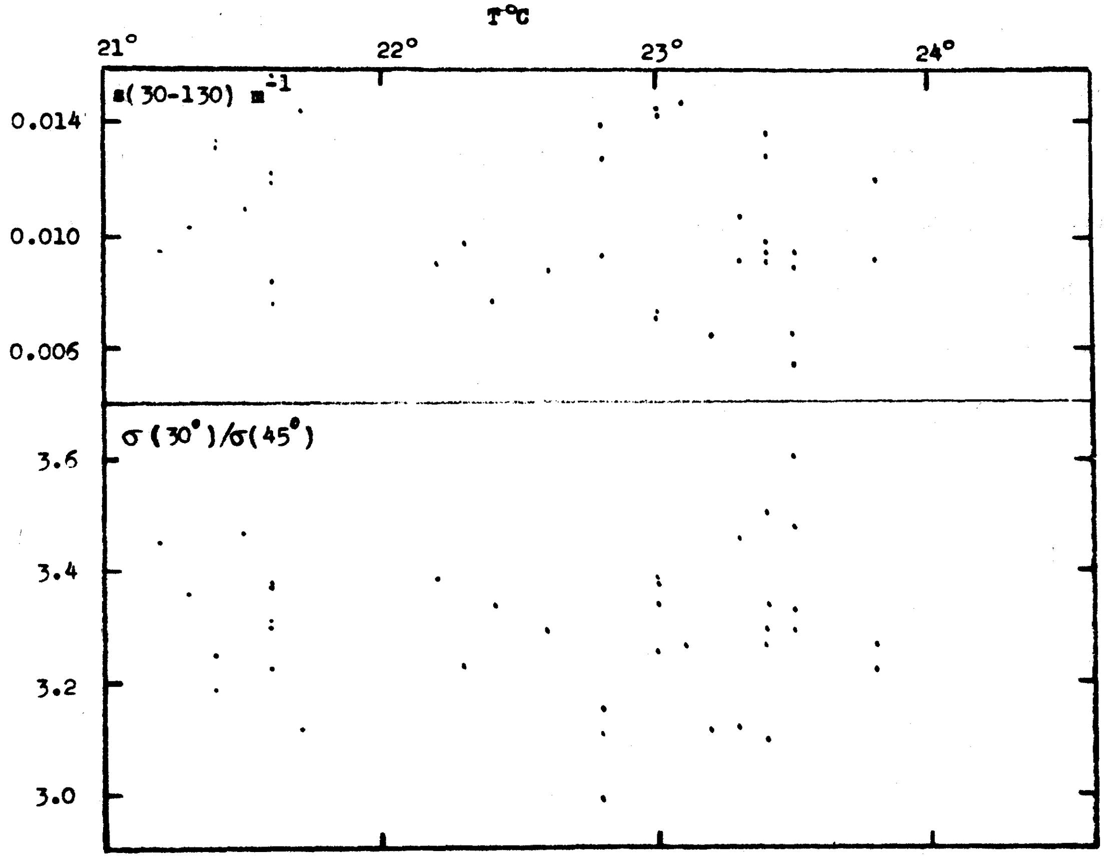


Fig. 4.5-28. s(30-130) and σ(30°)/σ(45°) as a function of temperature in the neighborhood of the thermal front.

TABLE 4-1

	s(30-130)/σ(30°)	s(30-130)/σ(45°)	s/σ(30°)	s/σ(45°)
·	1.134±0.053	3.739±0.111	4.801±0.450	16.38±2.86
·	1.207±0.097	4.044±0.202	5.417±0.712	18.05±2.83
ı water	1.171±0.070	4.119±0.209	6.064±1.663	21.96±7.75
ıter	1.174±0.064	4.220±0.159	6.358±1.141	22.97±5.53
:er	1.323±0.022	3.845±0.033	4.399±0.240	12.79±0.81
.ng Bermuda water)	1.173±0.069	4.118±0.227	5.976±1.265	21.33±6.10

4.56 "Total Scattering Coefficient"

The calculated values of the total scattering coefficient are subject to the errors discussed in Chapter Three which are introduced by extrapolation in the low angle range. In clear sea water the extrapolated values for 0° ran apparoximately a factor of five lower that that measured by Kozlyaninov (1957) for 1° and the measured values for $\sigma(30°)/\sigma(90°)$ were smaller than the one reported by him; however, the samples in coastal water exhibited ratios that were near his value.

The values of the scattering coefficient ran from $0.8m^{-1}$ in coastal waters to $0.02m^{-1}$ in the clearest Sargasso waters, while the bulk of the open ocean values were in the neighborhood of $0.04m^{-1}$. These were considerably higher than those reported by Tyler (1961a) for the region between San Pedro Bay and San Clemente Island which were $0.125m^{-1}$ closest to the California coast and decreased to $0.1m^{-1}$ farthest from land.

Tyler's measurement of $\sigma(90°)$ was approximately a factor of three below the value for theoretical water calculated by the method of Dawson and Hulburt (1941), and the data reported here are occasionally as much as 30% below the theoretical value. The measurements of other investigators of the absolute value of the volume scattering function do

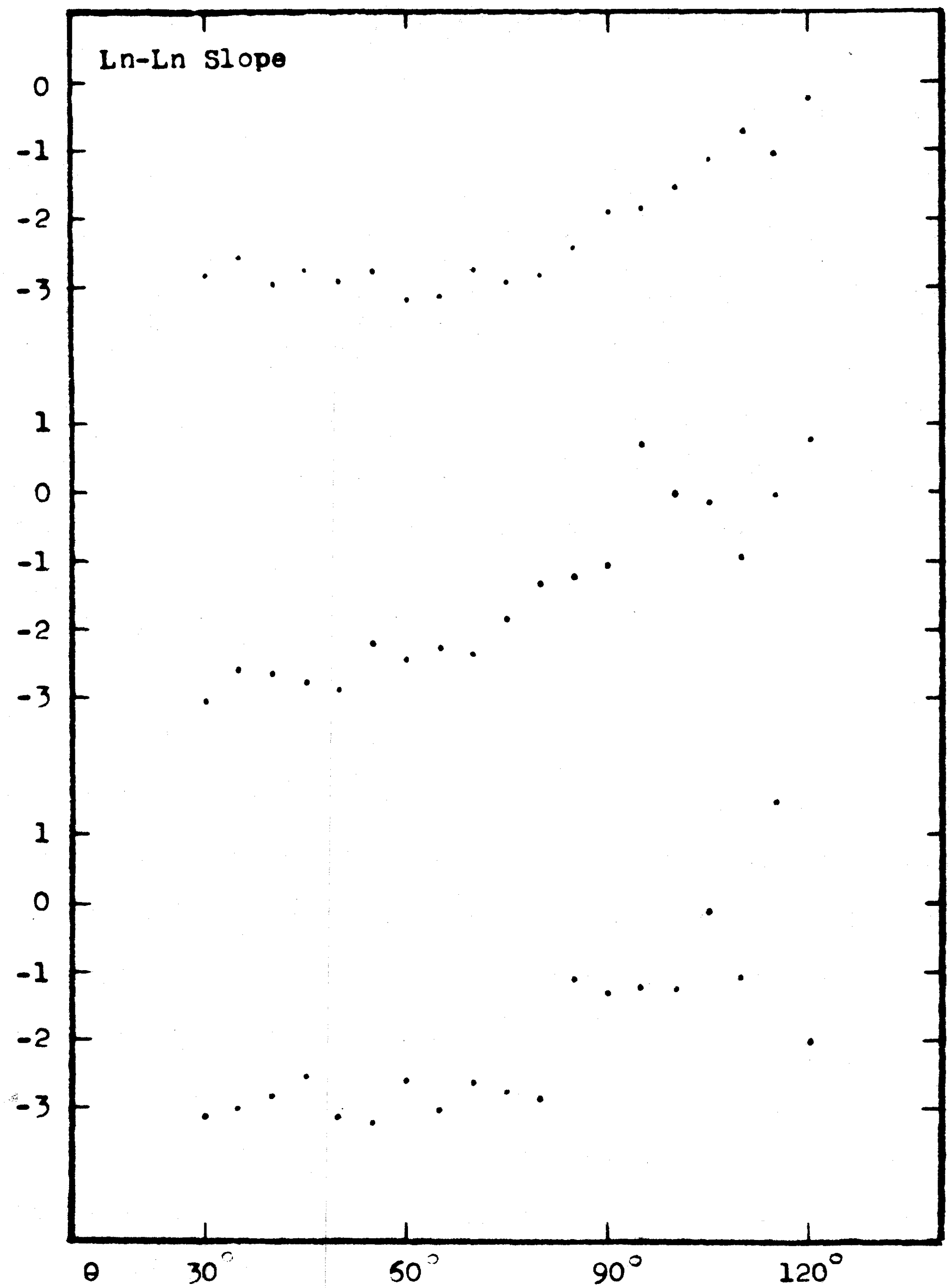


Fig. 4.5-29. ln-ln slopes against θ for sample numbers: CH42/2, CH42/38, and CR101/13.

not show a discrepancy; thus, Jerlov (1961) shows the curve for theoretical water slightly below his measured values throughout the back scattering region.

4.57 "Ln-Ln Slope"

The ln-ln slope, when plotted against angle, frequently showed that $\sigma(\theta)$ was an exponential function of θ at angles between 30° and 90°. Three examples of this behavior are shown in Figure 4.5-28. A single region of horizontal line behavior may be shown exending all the way to 90° or there may be two or three successive levels. No trends in either magnitude or extent of these features with water characteristics are immediately obvious.

4.58 "Summary"

The results for the five major water types and for the thermal front show that surface samples in the western North Atlantic can be characterized to some extent by the ratio $\sigma(30°)/\sigma(45°)$ and by the partial scattering coefficient, s(30-130); however, no correlation was found between these scattering parameters and temperature, salinity or depth in the hydrographic station samples. These latter samples did show the complexity of subsurface particulate distributions.

It has also been shown that s(30-130) can be determined by measurement of $\sigma(45°)$ if one is willing to accept a 6% uncertainty.

CHAPTER FIVE

SPECULATION AND SUGGESTIONS

A broad look at light scattering in sea water has revealed that it may prove to be a useful tool in many branches of oceanography. Sizable variations in the magnitude and shape of the volume scattering function were observed throughout the area surveyed.

An increase in the measured values of forward scattering was observed coincident with two minor thermal fronts and a sharp peak was noticed near the western edge of the Gulf Stream. The later peak may have been associated with the cold ribbon of shelf water discussed by Ford et al (1952); however, the data are not good enough to make such a claim yet.

These observations illustrate the necessity of work with "in situ" instruments. The forward scattering measurements were plagued with bubble troubles during rough weather; these bubbles contributed substantially to the scattering and some of them were created by the sampling system. The continuous trace of the forward scattering, however, provided a type of picture not previously available. It was possible to observe directly the extent of variations in the total scattering and to link them to other physical parameters. Similar continuous studies in the vertical dimension would reveal layers of accumulation and paucity of particles.

Jerlov (1961) points to the constancy of the volume scattering function as an important feature of sea water. In detail this is not the case, rather the shape varies with the water type. This variation can be detected by measuring the ratio $\sigma(30°)/\sigma(45°)$ for which purpose simple "in situ" instrumentation should be devised. If the absolute value of $\sigma(30°)$ is determined, a relatively precise estimate of s(30-130) can also be made. Figure 5.1 shows $s(30\text{-}130)/\sigma(30°)$ plotted against $\sigma(30°)/\sigma(45°)$. The best straight line that can be drawn through these points as determined by the method of least squares is also plotted, showing that an improvement in precision is made by using such a regression equation rather than the numerical average of all the values of $s(30\text{-}130)/\sigma(\theta)$.

The study of many aspects of oceanography may be enhanced by the employment of such a device. Features such as convection cells may lend themselves to study by these means, and, on a broader scale, the mixing between the slope and shelf water could be a fruitful topic for research.

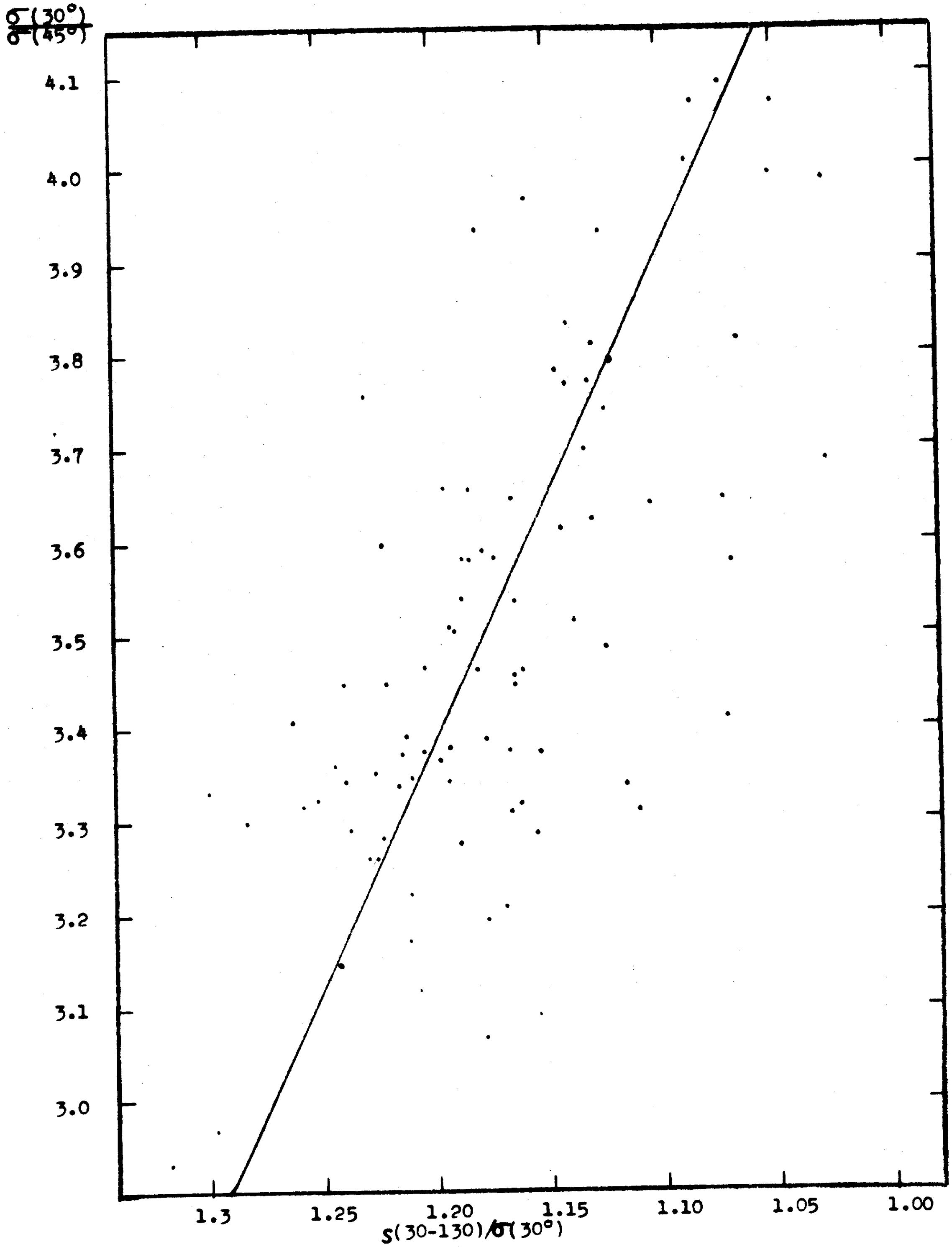


Fig. 5-1. s(30-130)/σ(30°) against σ(30°)/σ(45°).

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Last, but not least, Sharon Spilhaus, the author's wife, contributed many long hours correcting faulty spelling and punctuation and typing the seemingly innumerable drafts and revisions necessary to put this work into intelligible form.

BIOGRAPHIC SKETCH

The author, Athelstan Frederick Spilhaus, Jr., was born in Boston, Massachusetts on 21 May 1938. His secondary school education was at the Saint Paul Academy, a private military, country day school in Saint Paul, Minnesota. He entered M. I. T. in September 1955. In June 1959 he received an S. B. in Chemical Engineering and in June 1960 an S. M. in Geology and Geophysics. Since that time he has been pursuing a doctoral program at M. I. T. in which the research phases were carried out at Woods Hole Oceanographic Institution.

During the school year 1960-61 he held a teaching assistantship in the Department of Geology and Geophysics. In the years 1961-62 and 1963-64 he held research assistanships while, a Gulf Research and Developement Corp. fellowship supported him in 1962-63. At present he is a research assistant.

He is a member of Sigma Xi and numerous professional societies.

In 1960 he married Sharon Brown of Saint Paul, Minnesota. They have one son, Athelstan Frederick, III, born in 1962.

APPENDICES

APPENDIX A

OBSERVED DATA

The data obtained using the Brice-Phoenix Light Scattering Photometer are tabulated on the following pages in the form in which they appear on punched cards for the computer input. Each sample is represented by four cards, the first card of which is a title card giving the sample number, the date, and the time when the sample was run. A complete list of positions, temperatures and salinities for the samples is given at the end of this section. Reference to this list is made by means of the sample number which appears after the slash in the first group of numbers. The symbols preceding the slash indicate the ship and cruise on which the data was taken. The numbers in parentheses indicate the station number. CH represents R/V Chain and CR, R/V Crawford. The remaining three lines contain the scattering data. Reading from left to right each group of seven numbers describes the value at one angle starting at 30° and going through 135°. The two remaining groups describe the transmitted beam before and after the angular measurements were made. The first three numbers in any group of seven are the output of the photomultiplier as recorded on the strip chart recorder. The remaining numbers, all ones and zeros, indicate which neutral density filters were in place when the measurement was made. These are arranged in order of increasing density. The first number represents the filter with the lowest density, and a one indicates that the filter represented was in the beam, while a zero indicates that it was not.

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 2.050000  2.050000  2.400000  2.650000  2.950000  3.520000  8.400111  9.050111
1 CR 101/21 19 XI 63 1930  CELL=2
 5.451010  5.721100  6.730100  8.401000  5.531000  8.100000  6.170000  4.900000
 4.080000  3.370000  2.880000  2.650000  2.450000  2.370000  2.320000  2.400000
 2.510000  2.550000  2.850000  3.200000  3.610000  4.500000  8.500111  8.700111
1 CR 101/22 19 XI 63 2045H  CELL=2
 5.501010  5.701100  6.600100  8.351000  5.401000  7.900000  5.770000  4.500000
 3.550000  2.900000  2.500000  2.200000  2.000000  1.900000  1.820000  1.900000
 1.920000  2.000000  2.300000  2.500000  2.740000  3.190000  8.150111  7.700111
1 CR 101/23  19 XI 63 2200H  CELL=2
 7.501010  8.301100  4.751100  6.050100  8.531000  5.901000  9.300000  6.850000
 5.350000  4.500000  3.720000  3.330000  3.010000  2.860000  2.850000  2.780000
 2.870000  3.000000  3.260000  3.750000  4.230000  5.150000  9.500111  9.400111
1 CR101/24 19 XI 63 2300H  CELL=2
 5.861010  6.201100  7.400100  4.650100  6.331000  9.200000  6.900000  5.400000
 4.180000  3.430000  3.000000  2.680000  2.520000  2.400000  2.400000  2.400000
 2.500000  2.550000  3.000000  3.450000  4.000000  4.800000  8.950111  9.150111
1 CR 101/25 19 XI 63 2350H  CELL=2
 5.701010  5.931100  7.400100  4.700100  6.501000  4.601000  7.000000  5.230000
 4.100000  3.400000  2.950000  2.550000  2.350000  2.350000  2.250000  2.300000
 2.400000  2.600000  2.950000  3.400000  4.050000  5.100000  9.350111  9.000111
1 CR 101/26 20 XI 63 0045H  CELL=2
 8.501100  4.701100  5.700100  7.451000  5.321000  7.300000  5.650000  4.200000
 3.500000  2.800000  2.500000  2.250000  2.100000  2.000000  2.000000  2.100000
 2.100000  2.200000  2.450000  2.800000  3.200000  3.700000  8.500111  8.350111
1 CR 101/27 20 XI 63 0250H  CELL=2
 4.901010  5.401100  6.950100  8.601000  5.801000  4.651000  7.000000  5.500000
 4.080000  3.400000  2.950000  2.600000  2.300000  2.250000  2.250000  2.100000
 2.120000  2.200000  2.450000  2.650000  3.050000  3.450000  7.450111  7.450111
1 CR 101/28 20 XI 63 0445H  CELL=2
 4.601010  5.001100  6.300100  8.001000  5.501000  8.300000  6.200000  4.750000
 3.850000  3.050000  2.650000  2.450000  2.100000  2.000000  1.950000  1.900000
 1.950000  2.050000  2.400000  2.700000  3.300000  3.750000  6.650111  6.850111
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1 CR 101/29 20 XI 63 0640H  CELL=2
 7.501100  8.350100  4.800100  6.451000  8.900000  6.400000  4.650000  3.650000
 2.900000  2.350000  2.000000  1.800000  1.650000  1.500000  1.500000  1.550000
 1.600000  1.630000  1.750000  1.950000  2.250000  2.650000  6.850111  7.000111
1 CR 101/30 20 XI 63 0730H  CELL=2
 9.700100  5.400100  6.001000  7.800000  5.200000  3.800000  2.950000  2.300000
 1.850000  1.600000  1.300000  1.150000  1.150000  1.130000  1.150000  1.200000
 1.240000  1.250000  1.400000  1.550000  1.850000  2.250000  6.700111  7.050111
1 CR 101/31 20 XI 63 0830H CELL=2
 7.301100  7.950100  4.500100  5.651000  7.950000  5.700000  4.430000  3.370000
 2.800000  2.250000  1.950000  1.700000  1.630000  1.500000  1.550000  1.500000
 1.550000  1.620000  1.900000  2.000000  2.200000  2.650000  6.500111  6.600111
1 CR 101/32 20 XI 63 1030H CELL=2
 6.351100  6.600100  7.201000  4.701000  6.200000  4.600000  3.600000  2.850000
 2.350000  1.950000  1.650000  1.500000  1.400000  1.400000  1.400000  1.400000
 1.500000  1.550000  1.750000  2.000000  2.220000  2.650000  6.650111  6.500111
1 CR 101/33 20 XI 63 1230H  CELL=2
 8.501100  4.501100  5.350100  6.651000  4.801000  6.600000  4.920000  3.950000
 3.200000  2.610000  2.160000  2.000000  1.820000  1.760000  1.750000  1.710000
 1.750000  1.850000  2.100000  2.200000  2.450000  2.950000  6.750111  7.100111
1 CR 101/34 20 XI 63 1330H  CELL=2
 5.701100  6.000100  6.701000  4.201000  5.900000  4.550000  3.500000  2.800000
 2.350000  1.900000  1.600000  1.400000  1.350000  1.300000  1.400000  1.400000
 1.400000  1.450000  1.550000  1.700000  1.900000  2.250000  7.100111  6.750111
1 CR 101/35 20 XI 63 1430H  CELL=2
 5.951010  5.951100  7.050100  8.701000  5.701000  4.151000  6.500000  4.900000
 4.000000  3.250000  2.850000  2.500000  2.300000  2.150000  2.200000  2.200000
 2.300000  2.400000  2.600000  2.700000  3.130000  3.650000  6.900111  6.900111
1 CR 101/36 20 XI 63 1530H  CELL=2
 7.351100  7.300100  8.551000  5.201000  7.400000  5.500000  4.100000  3.220000
 2.600000  2.120000  1.650000  1.550000  1.480000  1.400000  1.350000  1.400000
 1.450000  1.450000  1.550000  1.780000  2.050000  2.400000  6.980111  6.650111
1 CR 101/37 20 XI 63 1630H  CELL=2
 7.101100  7.600100  8.901000  5.351000  7.400000  5.500000  4.200000  3.200000
 2.700000  2.200000  1.700000  1.600000  1.400000  1.400000  1.400000  1.450000
 1.500000  1.550000  1.700000  1.850000  2.050000  2.400000  6.400111  6.000111
1 CR 101/38 20 XI 63 1730H  CELL=2
 5.551100  5.750100  6.801000  8.800000  5.650000  4.200000  3.330000  2.750000
 2.150000  1.750000  1.500000  1.300000  1.220000  1.200000  1.250000  1.250000
 1.300000  1.350000  1.470000  1.650000  1.930000  2.330000  6.030111  6.550111
1 CR 101/39 20 XI 63 1910H  CELL=2
 6.401010  6.401100  7.250100  9.001000  6.051000  8.650000  7.000000  5.450000
 4.250000  3.350000  2.800000  2.400000  2.200000  2.050000  2.050000  2.100000
 2.150000  2.250000  2.400000  2.700000  3.050000  3.600000  5.501111  4.751111
1 CR 101/40 20 XI 63 1930H  CELL=2
 7.981100  8.550100  5.050100  6.301000  8.550000  6.300000  5.100000  3.980000
 3.340000  2.800000  2.430000  2.200000  2.050000  2.140000  2.150000  2.150000
 2.200000  2.340000  2.650000  2.950000  3.350000  3.950000  5.001111  5.011111
1 CR 101/41 20 XI 63 2030H  CELL=2
 7.551100  8.000100  9.001000  5.501000  7.450000  5.600000  4.150000  3.400000
 2.750000  2.320000  2.100000  1.850000  1.780000  1.700000  1.700000  1.730000
 1.830000  1.860000  2.050000  2.300000  2.550000  2.980000  5.301111  4.901111
1 CR 101/42 20 XI 63 2130H  CELL=2
 8.221100  8.600100  4.800100  5.951000  7.900000  5.750000  4.350000  3.450000
 2.800000  2.300000  2.000000  1.850000  1.650000  1.600000  1.600000  1.650000
 1.700000  1.750000  1.950000  2.200000  2.500000  3.080000  8.400111  8.050111
1 CR 101/43 20 XI 63 2230H CELL=2
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6.751100 7.300100 8.151000 5.201000 7.200000 4.950000 3.650000 2.950000
2.300000 1.900000 1.750000 1.550000 1.500000 1.450000 1.450000 1.480000
1.480000 1.550000 1.700000 1.850000 2.150000 2.550000 8.100111 7.900111
1 CR 101/44 20 XI 63 2330H CELL=2
5.751100 6.150100 6.951000 8.400000 5.500000 3.900000 2.850000 2.300000
1.830000 1.500000 1.350000 1.300000 1.230000 1.180000 1.200000 1.200000
1.300000 1.280000 1.410000 1.600000 1.850000 2.350000 7.350111 7.250111
1 CR 101/45 21 XI 63 1940H CELL=2 ST GEORGES HBR
6.251011 7.151101 8.901110 5.901110 8.400110 6.200110 4.600110 6.901010
5.601010 4.501010 7.201100 6.451100 5.501100 4.951100 4.601100 4.351100
4.251100 4.351100 4.451100 4.701100 5.201100 6.201100 8.151111 7.251111
1 CR 101/47 3 XII 63 1035H CELL=2 =2 BOUY ST DAVIDS
5.001110 6.000110 7.601010 5.051010 7.101100 5.101100 7.600100 5.850100
4.650100 7.601000 6.251000 5.451000 5.001000 4.601000 4.351000 4.401000
4.351000 4.601000 4.801000 5.351000 6.301000 7.501000 7.821111 7.821111
1 CR 101/483 XII 63 1130H CELL=2 100 FM CURVE BOUY
6.501110 7.500110 4.750110 6.351010 8.451100 6.351100 4.801100 7.600100
6.200100 4.900100 8.151000 7.051000 6.101000 5.851000 5.501000 5.101000
5.301000 5.501000 5.401000 5.901000 6.901000 8.001000 6.401111 5.901111
1 CR 101/49 3 XII 63 1200H CELL=2
6.101110 6.500110 8.401010 5.201010 6.801100 5.301100 3.801100 5.700100
4.500100 7.601000 6.501000 5.901000 5.101000 4.701000 4.451000 4.401000
4.301000 4.501000 5.001000 5.301000 5.901000 7.201000 5.101111 4.401111
1 CR 101/50 3 XII 63 1300H CELL=2
5.350110 5.701010 7.001100 4.301100 6.150100 4.500100 7.001000 5.401000
8.400000 6.350000 8.600000 5.200000 4.750000 4.150000 4.300000 4.500000
4.400000 4.600000 5.100000 5.550000 6.550000 8.250000 5.121111 5.331111
1 CR101/51 3 XII 63 1400H CELL=2
7.301010 7.651100 4.601100 6.100100 4.100100 6.051000 4.701000 8.200000
6.200000 4.900000 3.900000 3.650000 3.250000 3.200000 3.200000 3.050000
3.200000 3.450000 3.700000 4.150000 4.750000 5.850000 5.101111 5.171111
1 CR 101/52 3 XII 63 1500H CELL=2
8.101010 8.501100 5.001100 6.450100 4.650100 6.501000 4.951000 7.900000
5.900000 4.900000 4.200000 3.600000 3.250000 3.100000 3.050000 2.950000
3.050000 3.150000 3.550000 3.850000 4.500000 5.400000 9.670111 8.100111
1 CR 101/52 3 XII 63 1500H CELL=2
8.101010 8.501100 5.001100 6.450100 4.650100 6.501000 4.951000 7.900000
5.900000 4.900000 4.200000 3.600000 3.250000 3.100000 3.050000 2.950000
3.050000 3.150000 3.550000 3.850000 4.500000 5.400000 9.670111 8.100111
1 CR 101/53 3 XII 63 1600H CELL=2
7.401010 7.701100 9.400100 5.900100 8.401000 6.201000 9.500000 7.300000
5.600000 4.550000 4.050000 3.650000 3.150000 3.050000 2.900000 3.000000
3.100000 3.200000 3.400000 3.900000 4.450000 5.250000 5.281111 5.101111
1 CR 101/54 3 XII 63 1700H CELL=2
6.501010 6.901100 8.500100 5.500100 7.851000 5.601000 8.600000 6.650000
5.050000 4.250000 3.600000 3.250000 2.850000 2.700000 2.650000 2.650000
2.750000 2.850000 3.050000 3.400000 3.900000 4.700000 5.101111 5.251111
1 CR 101/55 3 XII 63 1800H CELL=2
4.900110 5.151010 6.151100 7.850100 5.700100 7.801000 5.901000 4.701000
7.300000 6.100000 5.200000 4.100000 3.850000 3.500000 3.400000 3.350000
3.500000 3.650000 3.850000 4.200000 4.800000 5.800000 9.970111 9.650111
1 CR 101/56 3 XII 63 1900H CELL=2
4.951010 5.401100 6.800100 8.701000 5.751000 8.600000 6.350000 5.100000
4.150000 3.450000 3.000000 2.500000 2.300000 2.220000 2.250000 2.200000
2.250000 2.380000 2.550000 2.800000 3.300000 4.000000 8.230111 8.500111
1 CR 101/57 3 XII 63 2000H CELL=2
5.751010 6.201100 7.750100 4.750100 6.701000 4.951000 7.500000 5.900000

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4.500000  3.700000  3.300000  2.800000  2.500000  2.350000  2.250000  2.400000
2.400000  2.500000  2.650000  2.900000  3.250000  4.000000  8.320111  8.250111
1 CR 101/58 3 XII 63  2100H  CELL=2
5.251010  5.401100  6.600100  4.200100  5.801000  8.550000  6.500000  5.000000
4.050000  3.600000  2.950000  2.500000  2.350000  2.150000  2.080000  2.050000
2.100000  2.150000  2.350000  2.550000  2.950000  3.380000  8.650111  7.400111
1 CR 101/59 3 XII 63  2200H  CELL=2
9.701100  5.151100  6.550100  8.351000  5.701000  8.300000  6.200000  5.000000
4.000000  3.300000  2.900000  2.400000  2.200000  2.050000  2.050000  2.150000
2.150000  2.220000  2.370000  2.700000  3.050000  3.500000  8.900111  8.400111
1 CR 101/60 3 XII 63  2300H  CELL=2
5.501010  6.051100  7.500100  4.650100  6.501000  9.750000  7.150000  5.600000
4.700000  3.750000  3.000000  2.850000  2.550000  2.400000  2.250000  2.350000
2.350000  2.500000  2.650000  2.900000  3.300000  3.900000  8.550111  8.820111
1 CR 101/61 4 XII 63  0100H CELL=2
8.601100  9.100100  5.500100  7.501000  4.801000  7.850000  5.500000  4.700000
3.700000  3.100000  2.600000  2.300000  2.180000  2.100000  2.050000  2.150000
2.200000  2.250000  2.500000  2.700000  3.150000  3.700000  9.650111  9.750111
1 CR 101/62 4 XII 63  0300H CELL=2
6.201010  6.901100  8.050100  5.200100  7.101000  5.101000  7.700000  5.550000
4.650000  3.700000  3.020000  2.650000  2.400000  2.350000  2.250000  2.250000
2.300000  2.400000  2.550000  2.850000  3.150000  3.900000  9.970111  9.300111
1 CR 101/63 4 XII 63  0500H  CELL=2
6.401010  7.001100  4.201100  5.400100  8.001000  5.501000  8.500000  6.500000
5.350000  4.300000  3.750000  3.450000  3.100000  2.850000  2.850000  2.850000
3.000000  3.100000  3.400000  3.800000  4.200000  5.100000  5.251111  5.061111
1 CR 101/64 4 XII 63  0800  CELL=2
8.501010  4.901010  6.001100  8.100100  5.850100  8.501000  6.001000  5.001000
7.500000  6.250000  5.800000  5.000000  4.500000  4.050000  3.800000  3.900000
4.000000  4.200000  4.500000  5.000000  5.650000  6.800000  5.051111  4.831111
1 CR 101/654 XII 63 1140H  CELL=2
8.501010  9.201100  5.501100  7.150100  4.600100  7.351000  5.501000  4.101000
3.151000  6.000000  5.100000  4.500000  4.000000  3.700000  3.650000  3.600000
3.700000  3.900000  4.400000  4.750000  5.450000  6.450000  9.600111  9.050111
1CR101/66 4XII63 CELL=2 1315H STA 1575 PIPE SURFACE
5.051010  5.451100  7.350100  4.400100  5.801000  4.401000  7.300000  5.400000
4.300000  3.500000  3.000000  2.600000  2.400000  2.300000  2.270000  2.300000
2.450000  2.500000  2.800000  3.100000  3.550000  4.220000  5.001111  5.051111
1CR101/67 4XII63 CELL=2 1410H  STA 1575 SURFACE
5.951010  6.501100  7.450100  5.020100  7.101000  5.251000  3.951000  6.000000
5.400000  4.000000  3.400000  3.000000  2.750000  2.600000  2.500000  2.450000
2.520000  2.600000  2.800000  3.150000  3.500000  4.250000  9.400111  8.700111
1CR101/68 4XII63 1425H STA 1575 50M BOTTLE
6.401010  7.101100  9.300100  5.800100  4.500100  6.201000  4.601000  7.600000
6.200000  5.000000  4.300000  3.650000  3.450000  3.250000  3.200000  3.100000
3.250000  3.350000  3.550000  3.830000  4.400000  5.400000  8.150111  8.850111
1 CR101/69 4XII63 1440H STA 1575 100M BOTTLE
8.501010  4.701010  5.701100  7.500100  5.200100  7.551000  5.751000  8.600000
7.400000  6.000000  5.050000  4.450000  3.900000  3.600000  3.550000  3.650000
3.550000  3.600000  3.700000  4.150000  4.700000  5.650000  9.350111  9.300111
1CR101/70 4XII63 STA1575 400M BOTTLE
5.201100  6.000100  7.501000  5.001000  7.350000  5.300000  4.400000  3.400000
2.850000  2.450000  2.200000  1.910000  1.850000  1.850000  1.850000  1.900000
2.000000  2.050000  2.200000  2.400000  2.750000  3.300000  4.871111  4.801111
1CR101/71 4XII63 1520H STA 1575 700M BOTTLE
6.801100  8.100100  5.000100  6.501000  4.701000  7.200000  5.500000  4.500000
3.800000  3.100000  2.700000  2.600000  2.350000  2.350000  2.350000  2.350000
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 2.450000  2.500000  2.800000  3.150000  3.450000  4.050000  4.801111  4.851111
1CR101/72 4XII63 1535H STA 1575 1000M BOTTLE
 5.701010  6.801100  8.500100  5.900100  8.101000  6.101000  4.601000  7.400000
 6.150000  5.150000  4.400000  3.950000  3.750000  3.500000  3.550000  3.450000
 3.550000  3.650000  3.950000  4.300000  4.800000  5.700000  4.801111  4.951111
1CR101/73 4XII63 1550H STA 1575 1500M BOTTLE
 6.351100  6.850100  8.101000  5.301000  7.900000  6.000000  4.750000  3.800000
 3.200000  2.800000  2.550000  2.400000  2.350000  2.350000  2.400000  2.350000
 2.550000  2.600000  2.850000  3.200000  3.500000  4.050000  4.851111  5.001111
1CR101/74 4XII63 1610H STA 1575 2000M BOTTLE
 7.501010  4.201010  5.001100  6.900100  4.650100  6.901000  5.151000  8.500000
 6.850000  5.500000  4.800000  4.250000  3.900000  3.700000  3.700000  3.600000
 3.700000  3.850000  4.150000  4.500000  5.100000  6.100000  4.901111  4.951111
1 CR 101/75 4 XII 63 1750HCELL=2
 4.851010  5.351100  6.700100  8.651000  6.401000  4.901000  7.500000  5.700000
 4.550000  3.600000  3.100000  2.750000  2.650000  2.600000  2.600000  2.550000
 2.750000  2.850000  3.350000  3.700000  4.120000  4.900000  8.950111  9.950111
1 CR 101/76 4 XII 63 2310H CELL=2
 8.701010  4.851010  5.651100  7.500100  4.950100  7.001000  5.101000  4.251000
 6.500000  5.600000  4.600000  4.200000  3.600000  3.350000  3.500000  3.600000
 3.800000  4.000000  4.200000  4.650000  5.350000  6.650000  5.301111  5.201111
1 CR 101/77 4 XII 63 2340H  CELL=2
 5.300110  6.001010  7.151100  9.150100  5.800100  4.000100  5.701000  9.200000
 7.300000  6.100000  5.350000  4.800000  4.500000  4.200000  4.000000  4.000000
 4.050000  4.100000  4.600000  5.100000  5.900000  7.200000  5.151111  5.101111
1 CR 101/78 4 XII 63 2400H CELL=2
 7.501010  8.401100  4.751100  6.100100  8.301000  5.801000  8.900000  7.050000
 5.800000  4.600000  4.100000  3.650000  3.350000  3.300000  3.150000  3.200000
 3.250000  3.400000  3.760000  4.200000  4.650000  5.600000  5.351111  5.201111
1 CR 101/79 5 XII 63 0020H CELL=2
 8.401100  9.550100  5.800100  7.551000  5.101000  7.600000  5.800000  4.650000
 3.750000  3.200000  2.800000  2.600000  2.400000  2.310000  2.300000  2.350000
 2.450000  2.600000  2.800000  3.100000  3.520000  4.200000  8.800111  9.990111
1 CR 101/80 5 XII 63 0040H  CELL=2
 5.851010  6.501100  8.100100  5.100100  6.601000  5.001000  7.200000  6.000000
 4.550000  3.800000  3.300000  2.850000  2.620000  2.550000  2.450000  2.550000
 2.520000  2.600000  2.860000  3.200000  3.600000  4.350000  9.600111  4.901111
1 CR 101/81 5 XII 63 0100H  CELL=2
 5.051010  5.601100  6.650100  8.301000  5.651000  8.500000  6.350000  5.100000
 4.200000  3.500000  2.950000  2.750000  2.600000  2.520000  2.600000  2.650000
 2.750000  2.800000  3.100000  3.500000  3.950000  4.850000  5.001111  5.351111
1 CR 101/82 5 XII 63 0130H  CELL=2
 5.101010  5.651100  6.500100  8.201000  5.501000  8.000000  6.150000  4.800000
 3.900000  3.300000  2.800000  2.580000  2.400000  2.340000  2.350000  2.350000
 2.500000  2.650000  3.000000  3.300000  3.670000  4.360000  5.351111  5.501111
1 CR 101/83 5 XII 63 0200H CELL=2
 9.151100  5.001100  6.250100  7.851000  5.251000  8.000000  5.850000  4.800000
 3.900000  3.250000  2.800000  2.550000  2.400000  2.300000  2.300000  2.400000
 2.450000  2.580000  2.800000  3.150000  3.550000  4.250000  5.401111  5.501111
1 CR 101/84 5 XII 63 0230H  CELL=2
 5.901010  6.301100  7.450100  4.600100  6.151000  9.400000  7.050000  5.300000
 4.300000  3.700000  3.100000  2.800000  2.650000  2.600000  2.600000  2.600000
 2.700000  2.900000  3.300000  3.750000  4.400000  5.450000  5.371111  5.601111
1 CR 101/85 5 XII 63 0300H  CELL=2
 6.401010  7.151100  8.750100  5.700100  7.601000  5.401000  8.600000  7.000000
 5.500000  4.500000  3.700000  3.250000  3.030000  3.000000  3.000000  2.850000
 3.150000  3.100000  3.350000  3.650000  4.150000  5.050000  5.451111  5.601111
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1 CR 101/86 5 XII 63 0330H  CELL=2
 7.601010  8.051100  5.001100  6.600100  9.201000  6.301000  5.001000  7.850000
 7.080000  5.550000  4.800000  4.300000  4.000000  3.900000  3.850000  3.800000
 3.950000  4.200000  4.550000  5.000000  5.750000  6.800000  7.001111  8.451111
1 CR 101/87  5 XII 63 0400H  CELL=2
 5.201110  5.700110  7.001010  9.151100  6.301100  9.100100  6.550100  5.100100
 8.151000  6.251000  5.401000  4.601000  8.500000  7.810000  7.650000  7.750000
 7.800000  8.150000  4.351000  4.751000  5.601000  6.701000  8.251111  8.351111
1 CR 101/88 5 XII 63 0430H  CELL=2  END VIS BUBBLES
 5.300110  5.801010  6.901100  9.250100  6.250100  8.851000  6.751000  5.251000
 8.250000  6.900000  5.750000  5.250000  4.700000  4.700000  4.500000  4.550000
 4.600000  4.850000  5.350000  6.200000  7.300000  8.800000  8.301111  8.251111
1 CR 101/89 5 XII 63 0500H  CELL=2
 7.001110  7.900110  4.900110  6.301010  4.351010  6.401100  5.001100  7.200100
 5.700100  4.500100  3.800100  3.300100  3.000100  2.600100  2.600100  5.301000
 5.601000  5.301000  5.601000  6.301000  3.650100  4.500100  8.301111  8.251111
1 CR 101/90 5 XII 63 0530H  CELL=2
 6.200110  7.201010  8.501100  5.401100  7.300100  5.350100  7.601000  6.001000
 4.501000  7.900000  6.850000  5.900000  5.700000  5.200000  5.100000  5.100000
 5.300000  5.600000  6.100000  7.000000  8.000000  4.551000  8.221111  8.221111
1 CR 101/91 5 XII 63 0600H  CELL=2
 4.150110  4.501010  5.651100  7.150100  4.950100  7.151000  5.001000  3.851000
 6.350000  5.200000  4.400000  4.970000  3.700000  3.600000  3.550000  3.700000
 3.750000  3.850000  4.150000  4.820000  5.550000  6.600000  8.301111  8.301111
1 CR 101/92 5 XII 63 0700H  CELL=2
 5.500110  5.901010  7.451100  4.801100  6.800100  4.700100  7.301000  5.401000
 8.800000  7.150000  6.450000  5.450000  5.200000  4.900000  4.700000  4.700000
 4.850000  5.000000  5.350000  5.850000  6.450000  7.250000  8.451111  8.201111
1 CR 101/93 5 XII 63 0800H  CELL=2
 8.350110  4.700110  6.001010  7.201100  5.101100  7.350100  5.350100  8.401000
 6.501000  5.601000  4.601000  8.000000  7.350000  7.050000  6.750000  6.850000
 6.900000  7.250000  7.500000  8.450000  9.650000  5.551000  8.261111  8.201111
1CR101/94 5XII63 0900H STA 1576 PIPE SAMPLE CELL=2
 8.300110  9.101010  5.701010  7.401100  5.001100  7.000100  5.350100  3.950100
 6.501000  5.201000  4.501000  7.780000  6.750000  6.400000  6.200000  6.100000
 6.300000  6.500000  6.950000  7.700000  4.351000  5.001000  8.151111  7.601111
1CR101/95 5XII63 STA 1576 SURFACE BOTTLE
 5.450110  6.251010  7.551100  4.951100  7.000100  5.000100  7.551000  5.701000
 4.651000  8.150000  6.750000  6.100000  5.650000  5.450000  5.250000  5.450000
 5.450000  5.550000  6.200000  7.100000  8.000000  4.651000  7.321111  7.451111
1CR101/96 5XII63 STA 1576 50M BOTTLE
 6.720110  7.401010  9.351100  6.001100  8.500100  5.900100  8.601000  6.601000
 5.351000  8.800000  7.500000  6.500000  5.850000  5.650000  5.550000  5.250000
 5.550000  5.650000  6.200000  6.750000  7.750000  9.150000  7.781111  7.751111
1CR101/97 5XII63 STA 1576 100M BOTTLE
 9.051010  5.051010  6.401100  8.400100  5.750100  8.451000  6.401000  4.801000
 7.800000  6.650000  5.700000  5.000000  4.600000  4.300000  4.280000  4.400000
 4.400000  4.600000  4.900000  5.300000  6.000000  7.100000  8.001111  8.051111
1CR101/98 5XII63 1035H STA 1576 400M BOTTLE
 5.501010  6.001100  7.700100  4.840100  7.051000  4.701000  8.000000  5.900000
 4.900000  4.150000  3.400000  3.150000  2.950000  2.820000  2.850000  2.950000
 3.100000  3.100000  3.380000  3.800000  4.150000  4.920000  8.021111  8.101111
1CR101/99 5XII63 1040H STA 1576 700M BOTTLE
 5.351010  5.951100  7.700100  5.100100  7.301000  5.301000  8.350000  6.600000
 5.400000  4.550000  4.000000  3.500000  3.400000  3.350000  3.350000  3.400000
 3.600000  3.500000  3.900000  4.280000  4.700000  5.550000  8.151111  8.121111
1CR101/100 5XII63 STA 1576 1000M BOTTLE
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3.901010  4.001100  5.000100  6.501000  4.601000  7.200000  5.500000  4.400000
3.800000  3.200000  2.800000  2.600000  2.550000  2.500000  2.600000  2.700000
2.750000  2.800000  2.950000  3.300000  3.650000  4.350000  8.051111  8.001111
1CR101/101 5XII63 1125H STA 1576 1500M BOTTLE
5.201010  5.051100  5.500100  6.951000  5.001000  3.701000  5.800000  4.800000
3.900000  3.300000  2.900000  2.700000  2.550000  2.550000  2.550000  2.700000
2.800000  2.800000  2.960000  3.400000  3.800000  4.350000  7.981111  7.901111
1CR101/102 5XII63 1140H STA 1576 2000M BOTTLE
5.501100  5.750100  7.501000  5.001000  7.500000  5.400000  4.400000  3.600000
3.150000  2.650000  2.380000  2.200000  2.100000  2.150000  2.200000  2.300000
2.450000  2.500000  2.700000  2.900000  3.300000  3.800000  8.051111  8.051111
1CR101/103 5XII63 1700H STA 1577 PIPE SAMPLE
4.801110  5.200110  6.051010  7.801100  5.201100  3.801100  5.100100  7.551000
6.101000  5.351000  4.301000  7.500000  6.550000  6.050000  5.900000  6.000000
6.200000  6.200000  6.700000  7.400000  4.101000  5.101000  8.001111  7.901111
1CR101/104 5XII63 1745H  STA1577 18M BOTTLE
8.200110  9.251010  5.551010  7.201100  4.551100  6.600100  5.000100  6.801000
5.601000  4.501000  8.000000  6.700000  6.000000  5.600000  5.400000  5.500000
5.750000  5.780000  6.000000  6.700000  7.650000  9.350000  8.051111  7.901111
1CR101/105 5XII63 1805H STA 1577 60M BOTTLE
4.750110  5.651010  6.551100  8.600100  5.800100  8.101000  6.201000  4.651000
7.000000  6.100000  5.200000  4.450000  4.100000  4.000000  3.900000  3.850000
4.150000  4.300000  4.450000  4.900000  5.650000  6.900000  8.001111  7.951111
1CR101/106 5XII63 1825H STA 1577 100M BOTTLE
5.601010  6.201100  7.800100  5.000100  6.801000  5.001000  7.350000  5.750000
4.850000  3.700000  3.200000  2.850000  2.650000  2.500000  2.500000  2.500000
2.500000  2.600000  2.850000  3.100000  3.400000  4.050000  4.801111  4.521111
1CR101/107 5XII63 1855H STA 1577 140M BOTTLE
5.401100  6.350100  7.701000  5.001000  7.000000  5.050000  3.700000  2.900000
2.400000  1.950000  1.650000  1.500000  1.400000  1.400000  1.400000  1.420000
1.450000  1.500000  1.550000  1.700000  1.900000  2.230000  6.950111  6.200111
1CR101/108 5XII63 1915H STA 1577 180M BOTTLE
5.001100  5.900100  7.101000  4.801000  6.800000  4.700000  3.700000  2.900000
2.250000  1.850000  1.600000  1.480000  1.350000  1.350000  1.300000  1.350000
1.380000  1.400000  1.560000  1.700000  1.940000  2.250000  5.900111  5.800111
1CR101/109 5XII63 STA 1577 200M BOTTLE SUSPECT O
6.501100  7.900100  5.100100  6.701000  4.751000  7.200000  5.500000  4.250000
3.450000  2.900000  2.600000  2.300000  2.170000  2.150000  2.150000  2.250000
2.330000  2.400000  2.700000  3.100000  3.750000  4.700000  6.500111  5.500111
1CR101/110 5XII63 STA 1578 PIPE SAMPLE
5.180111  5.831011  7.001101  9.201110  6.201110  4.501110  6.500110  5.000110
7.701010  6.201010  5.201010  8.701100  7.801100  7.101100  6.751100  6.451100
6.651100  6.801100  7.301100  8.101100  9.351100  5.621010  7.951111  8.001111
1CR101/111 5XII63 STA 1578 7M BOTTLE
7.901011  8.901101  5.401101  7.101110  9.950110  6.850110  5.000110  7.601010
5.801010  9.201100  7.701100  6.401100  5.701100  5.201100  4.851100  4.701100
4.771100  5.051100  5.381100  6.031100  6.951100  8.631100  7.951111  8.051111
1CR101/112 5XII63 2300H STA 1578 17M BOTTLE
8.281011  9.281101  5.651101  7.381110  5.001110  7.150110  5.150110  3.900110
6.101010  4.801010  8.101100  6.801100  6.101100  5.601100  5.201100  5.051100
5.101100  5.301100  5.701100  6.321100  7.401100  8.961100  8.001111  8.051111
1CR101/113 5XII63 STA 1578 27M BOTTLE
8.101011  9.301101  5.651101  7.401110  5.051110  7.250110  5.250110  8.001010
6.201010  4.901010  8.151100  6.901100  6.001100  5.551100  5.151100  5.001100
5.101100  5.251100  5.651100  6.451100  7.401100  9.001100  8.051111  8.101111
1CR101/114 5XII63 STA 1578 37M BOTTLE
7.081011  7.821101  4.781101  6.251110  8.800110  6.200110  9.101010  6.901010
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5.301010	8.401100	6.901100	6.001100	5.301100	4.701100	4.501100	4.301100
4.401100	4.601100	4.901100	5.551100	6.351100	7.771100	8.101111	8.051111
1CR101/115 5XII63 2340H STA 1578 47M BOTTLE							
8.051011	9.101101	5.501101	7.151110	4.851110	6.950110	5.100110	7.651010
5.851010	9.551100	7.901100	6.721100	5.901100	5.251100	4.921100	4.821100
4.901100	5.101100	5.501100	6.171100	7.201100	8.821100	8.001111	8.001111
1CR101/116 5XII63 STA 1578 57M BOTTLE							
6.851011	7.681101	9.301110	6.101110	8.500110	6.000110	9.001010	6.701010
5.101010	8.451100	6.751100	5.751100	5.081100	4.601100	4.301100	4.221100
4.201100	4.401100	4.651100	5.351100	6.151100	7.451100	8.001111	8.151111
1CR101/117 5XII63 0020HSTA 1578 65M BOTTLE BOTTOM							
5.550111	6.351011	7.951101	5.201101	7.051110	4.950110	7.650110	5.750110
8.951010	7.051010	5.801010	5.001010	8.881100	8.051100	7.451100	7.301100
7.401100	7.651100	8.251100	9.201100	5.301010	6.301010	7.901111	7.951111
1CR101/118 6XII63 0900H BETWEEN HBR BOUYS							
8.300111	4.750111	5.701011	7.401101	5.101101	7.201110	5.351110	8.200110
6.400110	4.900110	8.301010	6.951010	6.051010	5.501010	5.051010	4.901010
5.021010	5.201010	5.601010	6.201010	7.201010	8.651010	7.651111	7.651111
1 CR 101/119 6 XII 63 0910H AT WHOI DOCK							
5.250111	5.901011	7.201101	9.551110	6.451110	4.501110	6.600110	5.050110
7.351010	5.801010	4.551010	7.351100	6.251100	5.551100	5.301100	5.251100
5.401100	5.701100	6.251100	7.101100	8.251100	5.001010	7.851111	7.201111
1 CH42/1 1700 H 15I64							
6.701011	7.901101	4.851101	6.501110	9.000110	6.250110	4.700110	7.051010
5.351010	4.351010	7.151100	5.901100	5.301100	4.751100	4.601100	4.401100
4.451100	4.601100	4.951100	5.401100	6.301100	8.051100	7.801111	7.731111
1 CH42/2 1800H 15I64							
4.751011	5.401101	6.851110	9.000110	6.250110	4.450110	6.651010	4.951010
7.651100	6.201100	5.101100	8.800100	7.800100	7.200100	6.800100	6.650100
6.750100	7.150100	7.700100	8.700100	5.051100	6.201100	7.781111	7.921111
1 CH42/3 1900H 15I64							
4.551101	5.401110	6.900110	8.851010	6.001010	8.501100	6.301100	4.801100
7.450100	6.100100	5.150100	9.001000	8.001000	7.101000	7.001000	6.701000
7.101000	7.301000	8.001000	4.500100	5.200100	6.550100	7.681111	7.651111
1 CH42/4 2000H 15I64							
7.301101	8.351110	5.301110	7.200110	4.950110	7.001010	5.201010	8.001100
6.201100	4.901100	8.600100	7.350100	6.500100	6.000100	5.700100	5.550100
5.650100	5.900100	6.300100	7.100100	8.400100	5.051100	7.651111	7.551111
1 CH42/5 2100H 15I64							
8.001110	9.300110	5.650110	7.501010	5.301010	7.401100	5.601100	8.500100
6.700100	5.350100	4.600100	7.901000	7.201000	6.751000	6.201000	6.001000
6.001000	6.351000	7.001000	7.801000	9.151000	5.600100	7.761111	7.701111
1 CH42/6 2200H 15I64							
6.100110	7.001010	8.601100	5.501100	7.700100	5.500100	7.851000	6.101000
4.751000	4.001000	6.600000	6.000000	5.500000	5.100000	5.100000	5.100000
5.200000	5.300000	5.800000	6.550000	7.700000	4.551000	7.801111	7.751111
1 CH42/7 2300H 15I64							
6.000110	6.701010	4.151010	5.351100	7.600100	5.500100	8.001000	6.201000
4.601000	8.050000	6.650000	6.000000	5.500000	5.150000	5.150000	5.150000
5.250000	5.400000	5.950000	6.750000	8.000000	4.801000	7.721111	7.701111
1 CH42/8 0800H 16I64							
5.500110	6.351010	7.901100	5.251100	7.500100	5.500100	7.851000	6.001000
4.751000	3.901000	6.650000	5.700000	5.250000	4.850000	4.900000	4.950000
5.050000	5.250000	5.850000	6.800000	8.000000	4.801000	7.631111	7.661111
1 CH42/9 0900H 16I64							
9.401010	5.051010	6.101100	8.000100	5.350100	7.601000	5.701000	4.451000
7.350000	6.000000	5.200000	4.700000	4.300000	5.150000	3.900000	4.050000

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 4.200000  4.300000  4.750000  5.200000  6.200000  7.650000  7.561111  7.551111
1 CH42/10    1000H  16I64
 6.051010  6.701100  8.600100  5.700100  7.901000  5.901000  4.601000  7.500000
 6.100000  5.150000  4.500000  4.100000  3.850000  3.750000  3.750000  3.800000
 3.900000  4.000000  4.450000  5.000000  5.650000  6.900000  7.401111  7.401111
1 CH42/11    1100H  16I64
 6.301010  7.001100  4.301100  5.900100  8.251000  6.001000  4.601000  7.400000
 5.850000  4.850000  4.200000  3.650000  3.400000  3.300000  3.250000  3.500000
 3.650000  3.650000  3.900000  4.500000  5.300000  6.500000  7.351111  7.331111
1 CH42/12    1200H  16I64
 4.750110  5.301010  6.251100  8.200100  5.700100  8.301000  6.151000  4.651000
 7.800000  6.350000  5.350000  4.700000  4.250000  4.020000  4.000000  4.050000
 4.100000  4.250000  4.750000  5.200000  6.100000  7.400000  7.401111  7.301111
1 CH42/13    1300H  16I64
 6.550110  7.151010  8.501100  5.351100  7.650100  5.400100  8.101000  6.201000
 5.001000  8.400000  7.100000  6.250000  5.700000  5.300000  5.200000  5.200000
 5.300000  5.400000  5.800000  6.600000  7.700000  9.600000  7.401111  7.431111
1 CH42/14    1530H  16I64
 4.801010  5.201100  6.550100  8.701000  6.101000  9.000000  6.800000  5.350000
 4.400000  3.650000  3.150000  2.800000  2.600000  2.520000  2.600000  2.700000
 2.800000  2.800000  3.100000  3.450000  4.080000  5.000000  7.551111  7.401111
1 CH42/15    1600H  16I64
 9.000110  5.100110  6.151010  8.501100  5.651100  8.500100  6.500100  5.000100
 7.901000  6.501000  5.551000  4.821000  9.200000  8.600000  8.300000  8.300000
 8.250000  8.600000  4.451000  4.901000  5.601000  6.801000  7.441111  7.371111
1 CH42/16    1620H  16I64
 9.301100  5.301100  6.800100  4.600100  6.301000  4.501000  7.200000  5.700000
 4.500000  3.950000  3.250000  2.850000  2.750000  2.600000  2.700000  2.780000
 2.900000  3.130000  3.300000  3.600000  4.150000  5.100000  7.471111  7.351111
1 CH42/17    1637H  16I64
 6.200110  7.301010  9.251100  6.301100  8.900100  6.350100  4.950100  7.851000
 6.201000  5.101000  8.600000  7.650000  6.700000  6.280000  6.150000  6.120000
 6.150000  6.300000  6.800000  7.600000  8.700000  5.150000  7.351111  7.351111
1 CH42/18    1700H  16I64
 4.601010  5.751100  7.250100  4.950100  7.001000  5.301000  4.001000  6.600000
 5.250000  4.450000  3.800000  3.500000  3.250000  3.200000  3.150000  3.200000
 3.400000  3.250000  3.550000  4.000000  4.600000  5.400000  7.351111  7.301111
1 CH42/19    1741H  16I64
 4.751010  5.501100  7.200100  4.700100  6.751000  5.101000  7.800000  6.200000
 5.000000  4.150000  3.650000  3.300000  3.100000  3.050000  3.050000  3.150000
 3.150000  3.200000  3.400000  3.800000  4.250000  5.200000  7.351111  7.231111
1 CH42/20    1800H  16I64
 6.851100  3.801100  5.150100  6.501000  4.651000  7.200000  5.650000  4.500000
 3.800000  3.300000  3.000000  2.800000  2.700000  2.650000  2.700000  2.700000
 2.800000  2.950000  3.200000  3.630000  4.120000  5.000000  7.191111  7.131111
1  CH42/21    1833H  16I64
 6.651110  7.850110  4.800110  6.551010  9.001100  6.701100  5.001100  8.000100
 6.500100  5.300100  8.901000  7.801000  7.051000  6.201000  6.001000  6.001000
 5.901000  6.001000  6.601000  7.151000  8.151000  4.950100  7.101111  7.221111
1 CH42/22    1858H  16I64
 7.401100  8.700100  5.300100  7.201000  5.151000  3.901000  6.500000  5.300000
 4.350000  3.750000  3.350000  3.200000  3.100000  2.900000  3.000000  3.100000
 3.250000  3.350000  4.000000  4.530000  5.220000  6.450000  7.151111  7.151111
1 CH42/23    1920H  16I64
 4.671010  5.301100  6.500100  4.500100  6.501000  4.651000  7.200000  5.850000
 4.900000  4.150000  3.750000  3.200000  3.050000  2.900000  3.000000  3.050000
 3.150000  3.200000  3.550000  3.900000  4.450000  5.450000  7.261111  7.201111
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1 CH42/24	1940H	16I64					
6.301100	6.800100	4.300100	5.501000	8.300000	6.100000	4.700000	3.900000
3.200000	2.820000	2.450000	2.350000	2.250000	2.200000	2.300000	2.400000
2.400000	2.450000	2.700000	3.100000	3.600000	4.200000	7.211111	7.131111
1 CH42/25	1955H	16I64					
7.101100	7.650100	4.800100	6.401000	4.851000	7.500000	5.600000	4.400000
3.900000	3.350000	2.950000	2.750000	2.450000	2.400000	2.500000	2.650000
2.700000	2.700000	2.900000	3.200000	3.700000	4.300000	7.301111	7.101111
1 CH42/26	2020H	16I64					
4.601010	5.201100	6.850100	4.500100	6.401000	4.801000	7.500000	5.900000
4.800000	4.100000	3.500000	3.200000	2.950000	2.900000	2.900000	2.900000
3.000000	3.050000	3.350000	3.650000	4.300000	5.100000	7.221111	7.151111
1 CH42/27	2055H	16I64					
7.550110	9.051010	5.701010	7.601100	5.501100	8.100100	6.200100	4.850100
7.751000	6.501000	5.401000	4.801000	9.000000	8.400000	8.100000	7.800000
7.900000	8.150000	8.900000	4.751000	5.601000	7.001000	7.001111	7.001111
1 CH42/28	2110H	16I64					
6.600110	7.551010	9.351100	6.201100	8.700100	6.300100	4.750100	7.501000
6.051000	4.901000	8.400000	7.400000	6.850000	5.250000	5.200000	5.150000
5.200000	6.500000	7.000000	7.600000	8.850000	5.251000	7.161111	7.101111
1 CH42/29	0930H	17I64					
4.701010	5.251100	6.600100	4.500100	6.451000	4.551000	7.150000	5.500000
4.350000	3.650000	3.100000	2.750000	2.650000	2.550000	2.600000	2.700000
2.800000	2.850000	3.050000	3.500000	4.000000	4.850000	7.381111	7.221111
1 CH42/30	1007H	17I64					
5.451010	6.051100	8.000100	5.200100	7.551000	5.601000	8.600000	6.500000
5.400000	4.450000	3.900000	3.550000	3.300000	3.200000	3.250000	3.250000
3.350000	3.450000	3.750000	4.100000	4.750000	5.750000	7.401111	7.341111
1 CH42/31	1030H	17I64					
5.901010	6.901100	8.600100	5.850100	8.201000	6.001000	4.601000	7.600000
6.000000	5.000000	4.200000	3.800000	3.500000	3.400000	3.450000	3.500000
3.600000	3.700000	4.150000	4.600000	5.350000	6.550000	7.301111	7.271111
1 CH42/32	1050H	17I64					
6.601010	7.651100	4.701100	6.450100	4.450100	6.501000	4.901000	3.751000
6.550000	5.400000	4.650000	4.300000	3.700000	3.600000	3.750000	3.700000
3.750000	3.850000	4.150000	4.700000	5.300000	6.300000	7.311111	7.271111
1 CH42/33	1110H	17I64					
6.401100	7.650100	4.750100	6.751000	4.701000	7.150000	5.700000	4.600000
3.650000	3.150000	2.800000	2.500000	2.400000	2.400000	2.450000	2.530000
2.600000	2.650000	2.850000	3.150000	3.600000	4.300000	7.311111	7.301111
1 CH42/34	1125H	17I64					
5.551100	6.650100	4.300100	5.301000	8.000000	5.800000	4.600000	3.700000
3.050000	2.700000	2.350000	2.250000	2.150000	2.150000	2.250000	2.400000
2.450000	2.500000	2.850000	3.150000	3.550000	4.400000	7.261111	7.251111
1 CH42/35	1145H	17I64					
5.351010	6.201100	8.100100	5.200100	7.751000	5.651000	8.800000	6.900000
5.550000	4.700000	3.900000	3.600000	3.250000	3.300000	3.150000	3.300000
3.300000	3.450000	3.700000	4.120000	4.900000	5.850000	7.251111	7.301111
1 CH42/36	1245H	17I64					
4.651100	5.350100	7.101000	4.801000	7.000000	5.300000	4.250000	3.550000
2.900000	2.550000	2.400000	2.300000	2.200000	2.130000	2.250000	2.350000
2.450000	2.500000	2.800000	3.000000	3.450000	4.150000	7.271111	7.201111
1 CH42/37	1305H	17I64					
4.801010	5.471100	6.800100	9.151000	6.351000	4.651000	7.400000	5.800000
4.950000	4.000000	3.450000	3.100000	3.000000	2.900000	3.000000	3.100000
3.200000	3.300000	3.500000	3.950000	4.600000	5.600000	7.251111	7.171111
1 CH42/38	1325H	17I64					

8.101100	9.000100	5.700100	7.601000	5.251000	7.650000	6.000000	4.750000
3.900000	3.250000	2.850000	2.600000	2.450000	2.350000	2.480000	2.550000
2.650000	2.700000	2.900000	3.250000	3.800000	4.600000	7.191111	7.211111
1 CH42/39	1345H	17I64					
9.151100	5.251100	6.700100	4.100100	6.601000	4.701000	7.300000	5.700000
4.550000	4.000000	3.500000	3.100000	2.800000	2.700000	2.750000	2.850000
2.950000	3.000000	3.300000	3.650000	4.200000	5.130000	7.151111	7.251111
1 CH42/40	1410H	17I64					
4.301100	5.200100	6.901000	4.401000	6.700000	5.050000	3.850000	3.200000
2.700000	2.280000	2.100000	2.000000	1.930000	1.910000	2.100000	2.200000
2.230000	2.300000	2.500000	2.800000	3.150000	3.800000	7.151111	7.151111
1 CH42/41	1430H	17I64					
4.851010	5.601100	7.250100	9.451000	7.001000	5.001000	8.000000	6.200000
5.100000	4.300000	3.700000	3.300000	3.200000	3.020000	3.080000	3.100000
3.150000	3.300000	3.550000	3.850000	4.500000	5.400000	7.301111	7.131111
1 CH42/42	1450H	17I64					
6.501010	7.201100	8.700100	6.000100	8.401000	6.101000	4.601000	7.300000
6.250000	5.100000	4.350000	3.800000	3.530000	3.450000	3.500000	3.550000
3.500000	3.650000	4.000000	4.500000	5.200000	6.350000	7.101111	7.221111
1 CH42/43	2245H	17I64					
9.101100	5.101100	6.100100	8.001000	5.701000	8.350000	6.500000	4.900000
4.100000	3.350000	2.900000	2.650000	2.450000	2.350000	2.400000	2.500000
2.600000	2.650000	2.950000	3.300000	3.900000	4.850000	6.951111	6.971111
1 CH42/44	2315H	17I64					
9.351010	5.151010	6.251100	8.400100	5.700100	8.051000	6.101000	4.651000
8.200000	6.500000	5.350000	4.650000	4.300000	4.200000	4.200000	4.200000
4.200000	4.150000	4.550000	5.050000	5.950000	7.300000	7.021111	7.111111
1 CH42/45	2340H	17I64					
9.000110	5.150110	6.501010	8.501100	6.201100	9.100100	6.800100	5.200100
8.451000	7.151000	5.851000	5.351000	4.701000	4.301000	4.001000	4.051000
4.001000	4.101000	4.301000	4.751000	5.451000	6.501000	7.111111	7.081111
1 CH42/46	2355H	17I64					
5.050110	5.751010	7.301100	4.801100	6.850100	5.100100	7.501000	5.801000
9.600000	7.850000	6.600000	5.800000	5.250000	4.850000	4.800000	4.750000
4.850000	4.850000	5.300000	5.950000	7.000000	8.350000	7.071111	7.021111
1 CH42/47	0015H	18I64					
4.950110	5.551010	7.001100	9.350100	6.550100	4.700100	7.151000	5.601000
9.250000	7.450000	6.350000	5.700000	5.150000	4.850000	4.850000	4.900000
5.000000	5.100000	5.500000	6.100000	7.100000	8.800000	7.101111	7.101111
1 CH42/48	0030H	18I64					
4.901010	5.801100	7.500100	4.950100	7.001000	5.151000	7.900000	6.200000
5.000000	4.150000	3.600000	3.200000	2.950000	2.800000	2.850000	2.900000
3.000000	3.100000	3.400000	3.750000	4.350000	5.300000	7.101111	6.951111
1 CH42/49	0050H	18I64					
8.801010	5.051010	6.501100	8.800100	6.200100	8.901000	6.801000	5.151000
8.500000	6.950000	5.900000	5.150000	4.650000	4.350000	4.400000	4.350000
4.350000	4.450000	4.900000	5.400000	6.400000	7.850000	7.061111	7.081111
1 CH42/50	0105H	18I64					
7.201100	8.050100	4.900100	6.601000	4.601000	6.700000	5.150000	4.200000
3.450000	3.000000	2.550000	2.400000	2.350000	2.250000	2.350000	2.500000
2.550000	2.650000	3.000000	3.400000	4.050000	5.150000	7.031111	7.051111
1 CH42/51	0125H	18I64					
4.301010	4.801100	6.150100	8.301000	5.801000	4.301000	6.400000	5.150000
4.200000	3.600000	3.150000	2.900000	2.680000	2.650000	2.700000	2.750000
2.850000	2.950000	3.200000	3.650000	4.350000	5.500000	7.101111	7.051111
1 CH42/52	0145H	18I64					
5.701100	6.300100	7.701000	5.201000	7.750000	5.700000	4.500000	3.700000

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 3.100000  2.700000  2.450000  2.200000  2.100000  2.100000  2.200000  2.300000
 2.400000  2.500000  2.700000  3.050000  3.650000  4.600000  7.001111  7.101111
1 CH42/53   0200H  18I64
 7.901100  4.401100  5.500100  7.301000  5.101000  7.650000  6.050000  4.700000
 3.950000  3.500000  3.000000  2.700000  2.500000  2.500000  2.550000  2.700000
 2.700000  2.800000  3.150000  3.600000  4.250000  5.300000  7.001111  6.901111
1 CH42/54          18I64
 5.750110  6.801010  4.301010  5.701100  8.500100  6.150100  9.451000  7.301000
 6.151000  5.101000  9.000000  7.950000  7.100000  6.550000  6.500000  6.450000
 6.400000  6.600000  7.000000  8.000000  4.401000  5.451000  7.001111  6.931111
1 CH42/55   2235H  18I64
 7.700110  8.551010  5.351010  6.901100  4.751100  7.200100  5.250100  8.201000
 6.701000  5.251000  8.950000  8.100000  7.300000  6.800000  6.500000  6.500000
 6.700000  6.700000  7.250000  8.100000  4.601000  5.551000  7.451111  7.201111
1 CH42/56   2300H  18I64
 4.950110  5.601010  6.901100  9.000100  6.300100  9.201000  6.751000  5.501000
 8.800000  7.250000  6.200000  5.350000  4.800000  4.500000  4.350000  4.450000
 4.650000  4.650000  5.050000  5.750000  6.800000  8.350000  7.351111  7.351111
1 CH42/57   2320H  18I64
 7.501010  8.701100  5.501100  7.500100  5.300100  8.001000  5.751000  4.601000
 7.600000  6.200000  5.400000  4.750000  4.250000  4.050000  4.050000  4.100000
 4.150000  4.300000  4.600000  5.250000  6.100000  7.600000  7.251111  7.251111
1 CH42/58   2340H  18I64
 4.400110  5.201010  6.601100  9.200100  6.600100  4.800100  7.501000  5.851000
 4.801000  8.400000  7.150000  6.700000  6.000000  5.900000  5.650000  5.850000
 6.000000  6.200000  6.800000  7.350000  8.850000  5.201000  7.151111  7.131111
1 CH42/59   0005H  19I64
 8.101010  4.751010  5.901100  8.400100  6.000100  8.801000  7.101000  5.401000
 9.400000  7.750000  6.700000  6.300000  5.700000  5.550000  5.350000  5.400000
 5.500000  5.650000  6.450000  7.050000  8.100000  9.600000  7.121111  7.151111
1 CH42/60   0025H  19I64
 4.450110  5.201010  6.751100  4.601100  6.600100  5.000100  7.601000  6.001000
 4.901000  8.500000  7.250000  6.550000  6.000000  5.800000  5.750000  5.800000
 5.900000  6.200000  6.800000  7.600000  8.600000  5.051000  7.151111  7.251111
1 CH42/61   0035H  19I64
 9.101010  4.851010  5.951100  8.100100  5.500100  8.201000  6.151000  4.801000
 7.900000  6.450000  5.700000  4.950000  4.600000  4.350000  4.350000  4.350000
 4.400000  4.900000  5.600000  6.450000  7.650000  9.550000  7.091111  7.001111
1 CH42/62   0055H  19I64
 5.300110  6.001010  7.501100  4.801100  6.900100  5.100100  7.701000  5.851000
 4.801000  8.000000  6.750000  5.900000  5.400000  5.150000  5.050000  5.050000
 5.050000  5.300000  5.850000  6.500000  7.500000  9.300000  7.121111  7.101111
1 CH42/63   0110H  19I64
 5.801010  6.701100  8.500100  5.500100  7.801000  5.751000  4.451000  6.900000
 5.750000  4.900000  4.100000  3.650000  3.450000  3.250000  3.300000  3.400000
 3.500000  3.800000  4.100000  4.600000  5.400000  6.700000  7.101111  7.181111
1 CH42/64   0135H  19I64
 7.501010  4.401010  5.501100  7.500100  5.500100  8.201000  6.001000  5.901000
 8.300000  7.100000  6.000000  5.400000  5.050000  4.800000  4.800000  4.850000
 5.000000  5.200000  5.800000  6.500000  7.650000  9.300000  7.071111  7.201111
1 CH42/65   0200H  19I64
 6.151010  6.651100  7.700100  5.200100  7.401000  5.401000  8.200000  6.600000
 5.250000  4.500000  3.700000  3.300000  3.150000  3.000000  3.100000  3.250000
 3.400000  3.550000  4.100000  4.650000  5.400000  4.900000  7.251111  7.151111
1 CH42/66   0220H  19I64
 8.701010  4.851010  6.301100  8.200100  5.650100  8.401000  6.101000  4.751000
 7.850000  6.500000  5.450000  4.700000  4.300000  4.150000  4.250000  4.350000
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4.350000	4.450000	5.150000	5.850000	7.050000	8.850000	7.151111	7.201111
1 CH42/67	0235H	19I64					
6.401010	7.301100	4.601100	6.200100	8.801000	6.401000	4.801000	7.750000
6.300000	5.150000	4.300000	3.900000	3.650000	3.500000	3.600000	3.600000
3.650000	3.800000	4.150000	4.750000	5.650000	7.000000	7.191111	7.201111
1 CH42/68	0250H	19I64					
7.301010	8.201100	5.151100	7.050100	5.000100	7.501000	5.401000	4.551000
7.250000	6.400000	5.500000	4.950000	4.650000	4.300000	4.300000	4.400000
4.400000	4.750000	5.050000	5.700000	6.650000	8.200000	7.221111	7.201111
1 CH42/69	1245H	19I64					
7.801100	8.800100	5.500100	7.301000	5.301000	7.800000	5.700000	4.600000
3.700000	3.150000	2.650000	2.450000	2.350000	2.280000	2.400000	2.530000
2.600000	2.700000	2.900000	3.320000	3.900000	4.750000	7.371111	7.351111
1 CH42/70	1310H	19I64					
5.000110	6.001010	7.301100	9.850100	6.800100	4.900100	7.501000	5.601000
4.551000	7.500000	6.500000	5.700000	5.100000	4.850000	4.750000	4.800000
4.900000	5.000000	5.350000	6.100000	7.100000	8.700000	7.301111	7.301111
1 CH42/71	1335H	19I64					
9.101100	5.151100	6.750100	4.400100	6.101000	4.401000	7.000000	5.550000
4.500000	3.800000	3.250000	2.900000	2.800000	2.650000	2.700000	2.750000
2.850000	2.950000	3.200000	3.600000	4.220000	5.250000	7.201111	7.151111
1 CH42/72	1355H	19I64					
6.801010	7.901100	5.051100	7.050100	4.900100	7.101000	5.451000	8.850000
7.200000	6.000000	5.100000	4.700000	4.200000	4.000000	4.150000	4.100000
4.200000	4.250000	4.550000	5.000000	5.720000	7.000000	7.231111	7.101111
1 CH42/73	19I64						
8.901100	4.851100	5.800100	7.701000	5.501000	8.000000	6.000000	4.750000
3.950000	3.350000	2.750000	2.500000	2.400000	2.350000	2.450000	2.550000
2.600000	2.650000	2.950000	3.300000	3.900000	4.700000	7.211111	7.151111
1 CH42/74	1525H	19I64					
8.901100	4.701100	5.750100	7.351000	5.251000	7.750000	6.100000	4.850000
3.850000	3.250000	2.800000	2.550000	2.350000	2.350000	2.500000	2.550000
2.700000	2.800000	3.000000	3.500000	4.150000	5.200000	7.201111	7.201111
1 CH42/75	2235H	19I64					
9.001100	4.901100	6.200100	8.001000	5.701000	8.650000	6.500000	5.300000
4.350000	3.650000	3.150000	2.850000	2.700000	2.600000	2.720000	2.850000
2.900000	3.000000	3.300000	3.650000	4.300000	5.300000	7.381111	7.381111
1 CH42/76	2330H	19I64					
5.351010	5.801100	7.400100	4.800100	6.851000	5.101000	7.800000	6.100000
5.100000	4.300000	3.800000	3.350000	3.050000	2.950000	3.100000	3.100000
3.200000	3.250000	3.500000	4.100000	4.700000	5.650000	7.301111	7.331111
1 CH42/77	2340H	19I64					
5.601010	5.801100	7.100100	4.800100	6.601000	5.101000	8.300000	6.600000
5.500000	4.400000	3.750000	3.300000	3.150000	3.000000	3.100000	3.150000
3.200000	3.300000	3.700000	4.100000	4.700000	5.800000	7.301111	7.271111
1 CH42/78	0005H	20I64					
9.401100	5.251100	6.550100	4.300100	6.251000	8.800000	7.000000	5.450000
4.650000	3.800000	3.350000	3.000000	2.800000	2.750000	2.800000	2.900000
2.900000	3.000000	3.220000	3.650000	4.250000	5.250000	7.201111	7.201111
1 CH42/79	0020H	20I64					
5.701010	6.751100	8.800100	5.850100	8.251000	6.101000	9.400000	7.350000
6.150000	4.950000	4.350000	4.000000	3.600000	3.400000	3.450000	3.500000
3.600000	3.700000	4.050000	4.600000	5.300000	6.650000	7.301111	7.301111
1 CH42/80	0040H	20I64					
6.601010	7.651100	4.701100	6.600100	9.301000	6.701000	5.101000	8.100000
6.600000	5.400000	4.800000	4.250000	3.900000	3.650000	3.700000	3.750000
3.950000	4.100000	4.500000	5.100000	5.800000	7.300000	7.251111	7.251111

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1 CH42/81     0055H   20I64
 5.301100   5.900100   7.801000   4.901000   7.250000   5.550000   4.250000   3.400000
 3.000000   2.550000   2.350000   2.200000   2.150000   2.150000   2.250000   2.400000
 2.550000   2.650000   2.950000   3.350000   3.900000   4.950000   7.271111   7.271111
1 CH42/82     0110H   20I64
 7.501100   8.700100   5.450100   7.501000   5.301000   8.100000   6.350000   4.950000
 4.250000   3.500000   3.200000   2.800000   2.750000   2.650000   2.750000   2.800000
 2.950000   3.000000   3.200000   3.600000   4.150000   5.050000   7.301111   7.301111
1 CH42/83     0130H   20I64
 4.801100   5.550100   3.550100   4.501000   6.300000   4.900000   3.900000   3.100000
 2.850000   2.350000   2.100000   1.950000   1.900000   1.950000   2.100000   2.150000
 2.250000   2.250000   2.500000   2.800000   3.250000   3.800000   7.351111   7.301111
1 CH42/84     0150H   20I64
 5.350110   6.151010   7.601100   4.951100   7.300100   5.100100   7.801000   6.051000
 4.851000   8.250000   7.100000   6.400000   5.950000   5.450000   5.400000   5.450000
 5.600000   5.850000   6.250000   7.000000   8.300000   5.001000   7.221111   7.201111
1 CH42/85     0235H   20I64
 6.101010   7.001100   8.800100   6.100100   8.651000   6.201000   4.751000   8.000000
 6.700000   5.500000   4.900000   4.300000   4.050000   3.900000   3.900000   3.900000
 4.050000   4.250000   4.400000   5.000000   5.600000   6.850000   7.301111   7.281111
1 CH42/86     0335H   20I64
 5.700110   6.701010   8.501100   5.801100   8.300100   6.100100   4.650100   7.401000
 6.151000   5.151000   9.050000   8.100000   7.600000   6.900000   7.000000   7.000000
 7.200000   7.500000   8.000000   8.750000   4.801000   5.801000   7.131111   7.201111
1 CH42/87     2155H   20I64
 6.501010   7.001100   8.100100   5.500100   7.301000   5.201000   8.200000   6.500000
 5.400000   4.400000   3.600000   3.300000   2.850000   2.700000   2.850000   2.950000
 3.150000   3.150000   3.500000   4.050000   4.750000   5.900000   7.361111   7.501111
1 CH42/88     2225H   20I64
 8.501100   8.000100   4.800100   6.451000   9.100000   6.650000   5.200000   4.200000
 3.400000   3.000000   2.550000   2.300000   2.150000   2.100000   2.250000   2.300000
 2.300000   2.300000   2.500000   2.800000   3.150000   3.900000   7.451111   7.151111
1 CH42/89     2245H   20I64
 9.001100   5.251100   3.401100   4.800100   6.101000   4.401000   3.401000   2.651000
 2.201000   1.851000   3.350000   3.000000   2.720000   2.650000   2.700000   2.900000
 2.900000   3.000000   3.200000   3.500000   4.100000   5.000000   7.251111   7.201111
1 CH42/90     2305H   20I64
 5.101100   5.800100   6.801000   4.501000   6.500000   4.700000   3.800000   3.050000
 2.600000   2.200000   2.000000   1.850000   1.750000   1.750000   1.900000   2.000000
 2.050000   2.100000   2.250000   2.550000   3.000000   3.650000   7.201111   7.221111
1 CH42/91     2325H   20I64
 7.000100   7.901000   5.101000   7.100000   5.100000   3.900000   3.150000   2.600000
 2.100000   1.900000   1.750000   1.600000   1.600000   1.600000   1.750000   1.850000
 1.950000   1.950000   2.100000   2.320000   2.650000   3.250000   7.281111   7.301111
1 CH42/92     2340H   20I64
 8.001100   4.501100   5.700100   8.101000   5.651000   8.100000   6.300000   5.000000
 4.200000   3.500000   3.100000   2.750000   2.650000   2.600000   2.600000   2.750000
 2.850000   2.900000   3.150000   3.500000   4.050000   4.950000   7.231111   7.241111
1 CH42/93     0005H   21I64
 8.800100   4.900100   6.251000   8.600000   6.500000   4.700000   3.600000   3.000000
 2.450000   2.150000   1.900000   1.800000   1.750000   1.750000   1.900000   2.000000
 2.050000   2.100000   2.300000   2.500000   2.950000   3.500000   7.151111   7.251111
1 CH42/94     0035H   21I64
 7.351100   4.151100   5.350100   7.201000   5.001000   7.900000   6.100000   4.900000
 4.100000   3.450000   3.000000   2.750000   2.650000   2.600000   2.650000   2.700000
 2.850000   2.850000   3.100000   3.550000   4.000000   4.850000   7.251111   7.251111
1 CH42/95     0100H   21I64
 6.701100   7.900100   4.800100   6.351000   4.601000   7.200000   5.500000   4.400000
 3.650000   3.150000   2.750000   2.500000   2.300000   2.300000   2.450000   2.550000
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 2.650000  2.650000  2.900000  3.300000  3.800000  4.850000  7.201111  7.221111
1 CH42/96    0130H   21I64
 9.351100  5.001100  6.200100  7.751000  5.501000  8.350000  6.300000  5.100000
 4.250000  3.650000  3.050000  2.750000  2.600000  2.450000  2.550000  2.650000
 2.650000  2.800000  3.000000  3.350000  3.900000  4.700000  7.201111  7.151111
1 CH42/97    0150H   21I64
 5.201010  5.701100  7.200100  4.650100  6.501000  4.801000  7.450000  6.000000
 5.000000  3.900000  3.400000  3.050000  2.850000  2.800000  2.950000  2.950000
 3.050000  3.150000  3.400000  3.900000  4.500000  5.650000  7.121111  7.151111
1 CH42/98    1140H   22I64
 5.901100  6.500100  4.100100  5.201000  7.500000  5.500000  4.150000  3.350000
 2.950000  2.400000  2.200000  1.950000  1.850000  1.850000  1.930000  2.050000
 2.160000  2.200000  2.400000  2.700000  3.150000  3.900000  7.281111  7.301111
1 CH42/99    1245H   22I64
 7.401100  8.000100  4.800100  6.401000  4.551000  6.750000  5.200000  4.150000
 3.500000  2.900000  2.500000  2.250000  2.200000  2.200000  2.300000  2.350000
 2.450000  2.500000  2.700000  3.100000  3.450000  4.350000  7.331111  7.401111
1 CH42/100   1345H   22I64
 7.901010  8.851100  5.301100  7.100100  4.900100  7.101000  5.301000  8.500000
 6.750000  5.500000  4.700000  4.250000  3.750000  3.650000  3.650000  3.750000
 3.850000  3.900000  4.150000  4.650000  5.450000  6.650000  7.341111  7.341111
1 CH42/101   1515H   22I64
 7.501100  8.300100  5.100100  6.501000  4.601000  6.800000  5.500000  4.400000
 3.500000  3.000000  2.500000  2.300000  2.200000  2.200000  2.300000  2.350000
 2.500000  2.500000  2.650000  3.000000  3.450000  4.150000  7.431111  7.451111
1 CH42/102   1615H   22I64
 9.251100  4.851100  6.150100  8.001000  5.601000  4.201000  6.300000  4.900000
 4.200000  3.300000  2.900000  2.600000  2.400000  2.300000  2.400000  2.500000
 2.600000  2.600000  2.900000  3.230000  3.850000  4.900000  7.411111  7.301111
1 CH42/103   1815H   22I64
 7.101010  7.701100  4.601100  6.350100  8.851000  6.501000  4.951000  7.700000
 6.300000  5.100000  4.500000  3.950000  3.750000  3.550000  3.550000  3.600000
 3.650000  3.700000  4.000000  4.500000  5.350000  6.300000  7.451111  7.371111
1 CH42/104           22I64
 7.801010  4.301010  5.151100  7.000100  4.900100  7.251000  5.601000  8.800000
 7.100000  5.900000  5.100000  4.400000  4.150000  4.000000  3.900000  3.950000
 4.050000  4.150000  4.500000  5.050000  5.750000  7.050000  7.211111  7.251111
1 CH42/105           23I64
 7.101010  8.201100  5.001100  6.500100  4.700100  6.701000  5.001000  8.200000
 6.500000  5.500000  4.650000  4.050000  3.750000  3.700000  3.600000  3.700000
 3.800000  3.800000  4.250000  4.700000  5.400000  6.600000  7.501111  7.421111
1 CH42/106   1330H   23I64
 9.551100  5.201100  6.450100  8.501000  6.151000  9.100000  7.000000  5.500000
 4.500000  3.750000  3.250000  2.900000  2.700000  2.600000  2.650000  2.750000
 2.850000  2.950000  3.100000  3.450000  4.050000  4.800000  7.461111  7.281111
1 CH42/107   1430H   23I64
 6.701100  7.200100  4.250100  5.451000  3.701000  6.000000  4.600000  3.700000
 3.000000  2.550000  2.200000  2.000000  1.900000  1.900000  2.000000  2.100000
 2.200000  2.300000  2.450000  2.750000  3.100000  3.800000  7.121111  7.151111
1 CH42/108   1525H   23I64
 7.401010  8.101100  4.851100  6.500100  9.501000  6.751000  5.301000  8.150000
 6.750000  5.600000  4.850000  4.300000  4.100000  3.900000  3.950000  3.950000
 4.000000  4.100000  4.400000  4.850000  5.650000  6.700000  7.111111  7.221111
1 CH42/109   1620H   23I64
 6.351010  7.201100  8.900100  6.000100  8.401000  6.001000  9.500000  7.450000
 5.900000  4.900000  4.500000  4.000000  3.650000  3.550000  3.600000  3.650000
 3.800000  4.000000  4.500000  5.150000  6.000000  7.250000  7.231111  7.201111
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1 CH42/110  2200H  23I64
 4.851010  5.301100  3.151100  8.401000  6.001000  8.750000  6.500000  5.500000
 4.500000  3.700000  3.050000  2.800000  2.600000  2.500000  2.600000  2.700000
 2.850000  3.000000  3.200000  3.600000  4.250000  5.250000  7.401111  7.401111
1 CH42/111  2240H  23I64
 5.000110  5.701010  7.001100  9.250100  6.500100  4.650100  7.251000  5.501000
 4.501000  7.500000  6.300000  5.600000  5.150000  4.750000  4.750000  4.650000
 4.750000  4.900000  5.350000  6.000000  6.950000  8.550000  7.251111  7.201111
1 CH42/112  2300H  23I64
 6.501010  7.301100  9.500100  6.000100  8.201000  6.101000  4.551000  7.600000
 6.250000  5.100000  4.300000  3.850000  3.450000  3.300000  3.350000  3.300000
 3.400000  3.600000  3.850000  4.500000  5.250000  6.550000  7.201111  7.201111
1 CH42/113  2315H  23I64
 6.301010  7.401100  9.300100  6.350100  4.400100  6.501000  5.001000  7.400000
 4.800000  4.100000  3.500000  3.300000  3.150000  3.050000  3.150000  3.200000
 3.350000  3.350000  3.700000  4.000000  4.500000  5.500000  7.301111  7.151111
1 CH42/114  0015H  24I64
 6.101010  6.401100  8.200100  5.500100  7.701000  5.501000  5.001000  7.700000
 6.000000  5.200000  4.500000  3.700000  3.500000  3.250000  3.400000  3.550000
 3.650000  3.700000  3.900000  4.450000  5.100000  6.200000  7.151111  7.201111
1 CH42/115  0035H  24I64
 9.301100  5.301100  6.900100  4.700100  6.551000  4.751000  7.550000  6.000000
 5.000000  4.250000  3.650000  3.350000  3.050000  2.950000  3.200000  3.200000
 3.500000  3.300000  3.650000  4.150000  4.800000  6.100000  7.201111  7.251111
1 CH42/116  0045H  24I64
 4.801010  5.251100  6.400100  8.801000  5.851000  9.300000  6.700000  5.350000
 4.300000  3.700000  3.150000  2.750000  2.700000  2.600000  2.750000  2.750000
 2.900000  3.000000  3.350000  3.850000  4.600000  5.800000  7.211111  7.221111
1 CH42/117  0100H  24I64
 8.251100  9.300100  5.800100  7.901000  5.501000  8.200000  6.550000  5.000000
 4.050000  3.350000  2.950000  2.700000  2.600000  2.450000  2.600000  2.600000
 2.700000  2.750000  3.000000  3.450000  4.050000  5.100000  7.181111  7.201111
1 CH42/118  0115H  24I64
 4.851010  5.601100  7.300100  5.000100  6.701000  5.001000  8.000000  6.150000
 5.000000  4.350000  3.700000  3.300000  3.100000  3.000000  3.050000  3.100000
 3.250000  3.250000  3.650000  4.200000  4.900000  6.050000  7.231111  7.201111
1 CH42/119  0130H  24I64
 6.201010  7.101100  9.050100  6.100100  8.501000  6.101000  9.900000  7.650000
 6.100000  5.000000  4.350000  3.800000  3.500000  3.400000  3.300000  3.400000
 3.450000  3.650000  3.950000  4.400000  5.100000  6.300000  7.181111  7.121111
1 CH42/120  0140H  24I64
 8.701010  5.101010  6.301100  8.500100  5.900100  8.601000  6.251000  5.001000
 8.100000  6.600000  5.800000  5.000000  4.600000  4.400000  4.300000  4.200000
 4.350000  4.500000  4.800000  5.300000  6.200000  7.700000  6.951111  6.951111
1 CH42/121  1930H  24I64
 8.701010  4.701010  5.801100  7.900100  5.500100  8.001000  5.901000  4.751000
 7.700000  6.600000  5.500000  4.650000  4.250000  4.100000  4.150000  4.200000
 4.300000  4.500000  4.900000  5.600000  6.400000  7.900000  7.361111  7.501111
1 CH42/122  2100H  24I64
 5.101010  5.651100  7.000100  8.651000  6.151000  9.200000  7.000000  5.500000
 4.500000  3.650000  3.100000  2.750000  2.600000  2.450000  2.650000  2.700000
 2.800000  2.850000  3.100000  3.450000  3.950000  4.850000  7.301111  7.321111
1 CH42/123  2115H  24I64
 8.201010  4.501010  5.701100  7.600100  5.250100  8.101000  5.901000  4.701000
 7.900000  6.000000  5.600000  5.000000  4.250000  4.200000  4.100000  4.100000
 4.200000  4.300000  4.800000  5.550000  6.150000  7.600000  7.331111  7.311111
1 CH42/124  2130H  24I64
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 9.001010   4.951010   6.151100   8.350100   5.700100   8.501000   6.201000   5.101000
 8.200000   6.600000   5.700000   5.000000   4.600000   4.300000   4.350000   4.350000
 4.550000   4.550000   5.000000   5.800000   6.750000   8.200000   7.261111   7.251111
1 CH42/125   2140H   24I64
 8.001100   4.651100   6.100100   7.601000   5.601000   8.500000   6.500000   5.200000
 4.250000   3.650000   3.200000   2.900000   2.750000   2.650000   2.700000   2.900000
 2.900000   3.000000   3.300000   3.650000   4.200000   5.200000   7.301111   7.351111
1 CH42/126   2215H   24I64
 4.801010   5.701100   7.300100   4.800100   7.001000   5.101000   8.200000   6.500000
 5.300000   4.500000   4.000000   3.550000   3.350000   3.200000   3.250000   3.300000
 3.300000   3.450000   3.900000   4.400000   5.100000   6.300000   7.211111   7.201111
1 CH42/127   2255H   24I64
 8.501100   4.701100   6.100100   8.501000   5.701000   8.500000   6.600000   5.500000
 4.250000   3.650000   3.200000   2.850000   2.700000   2.700000   2.750000   2.900000
 2.950000   3.000000   3.200000   3.650000   4.300000   5.150000   7.431111   7.301111
1 CH42/128   2320H   24I64
 5.001100   5.700100   7.701000   4.851000   7.500000   5.200000   4.300000   3.350000
 2.800000   2.500000   2.100000   2.000000   1.900000   1.900000   2.000000   2.100000
 2.200000   2.300000   2.400000   2.750000   3.150000   3.800000   7.171111   7.151111
1 CH42/129   2340H   24I64
 6.901100   7.600100   4.800100   6.501000   4.601000   7.100000   5.500000   4.200000
 3.550000   3.000000   2.650000   2.600000   2.250000   2.250000   2.350000   2.450000
 2.450000   2.550000   2.800000   3.200000   3.650000   4.450000   7.131111   7.131111
1 CH42/130   0005H   25I64
 4.201100   4.850100   6.201000   8.600000   6.400000   4.500000   3.650000   3.000000
 2.500000   2.200000   2.000000   1.850000   1.750000   1.750000   1.950000   2.000000
 2.100000   2.150000   2.350000   2.600000   3.050000   3.700000   7.181111   7.251111
1 CH42/131   0025H   25I64
 5.601010   6.401100   7.900100   5.250100   7.201000   5.201000   8.000000   6.450000
 5.100000   4.300000   3.800000   3.400000   3.100000   3.050000   3.050000   3.050000
 3.100000   3.300000   3.600000   4.000000   4.600000   5.650000   7.181111   7.201111
1 CH42/132   0045H   25I64
 6.800110   7.001010   8.301100   5.301100   7.600100   5.300100   8.201000   6.401000
 5.001000   9.500000   7.500000   6.800000   6.200000   5.800000   5.700000   5.500000
 5.700000   5.750000   6.250000   7.000000   8.250000   9.900000   7.101111   7.051111
1 CH42/133   1003H   25I64
 6.101010   7.001100   8.500100   5.400100   7.601000   5.401000   8.250000   6.500000
 5.000000   4.250000   3.700000   3.250000   3.000000   2.900000   3.000000   3.200000
 3.250000   3.300000   3.600000   4.200000   4.950000   6.400000   6.931111   6.901111
1 CH42/134   1020H   25I64
 7.201100   8.400100   4.900100   6.251000   4.601000   6.750000   5.000000   4.200000
 3.400000   2.850000   2.400000   2.250000   2.050000   2.000000   2.150000   2.250000
 2.400000   2.400000   2.600000   2.950000   3.400000   4.100000   6.851111   6.921111
1 CH42/135   1030H   25I64
 6.101010   6.751100   4.251100   5.400100   7.901000   5.501000   8.900000   6.700000
 5.650000   4.600000   4.000000   3.600000   3.300000   3.200000   3.300000   3.300000
 3.300000   3.450000   3.650000   4.250000   4.850000   6.050000   6.951111   6.801111
1 CH42/136   1 45H   25I64
 7.951010   8.801100   5.451100   7.200100   5.000100   7.201000   5.501000   8.600000
 6.950000   5.700000   5.000000   4.350000   4.000000   3.750000   3.950000   3.950000
 4.050000   4.150000   4.400000   5.250000   5.800000   7.200000   6.821111   6.821111
1 CH42/137   1100H   25I64
 8.501100   5.001100   6.200100   8.301000   5.601000   8.500000   6.400000   5.300000
 4.250000   3.600000   3.160000   2.650000   2.600000   2.450000   2.450000   2.500000
 2.600000   2.700000   2.950000   3.200000   3.800000   4.600000   6.851111   6.871111
1 CH42/138   1115H   25I64
 5.901100   6.900100   4.150100   5.551000   7.600000   5.700000   4.300000   3.350000
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2.850000	2.400000	2.100000	1.900000	1.750000	1.800000	1.930000	1.950000
2.100000	2.100000	2.300000	2.550000	3.000000	3.550000	6.831111	6.831111
1 CH42/139	1130H	25I64					
4.951010	5.651100	7.100100	9.301000	6.301000	4.701000	7.400000	5.800000
4.750000	3.900000	3.300000	2.950000	2.800000	2.750000	2.750000	2.750000
2.900000	2.950000	3.200000	3.550000	4.200000	5.000000	6.681111	6.681111
1 CH42/140	1145H	25I64					
8.551100	4.801100	6.000100	7.601000	5.451000	8.000000	6.300000	4.750000
4.100000	3.400000	3.000000	2.650000	2.500000	2.450000	2.600000	2.600000
2.700000	2.750000	3.000000	3.350000	3.850000	4.750000	6.751111	6.801111
1 CH42/141	1230H	25I64					
9.251100	5.101100	6.400100	8.201000	5.851000	8.650000	6.400000	5.150000
4.350000	3.750000	3.150000	2.850000	2.500000	2.350000	2.500000	2.650000
2.800000	2.800000	3.000000	3.400000	3.950000	4.750000	6.881111	6.851111
1 CH42/142	1245H	25I64					
8.801100	4.651100	5.800100	7.401000	5.401000	7.800000	6.000000	4.700000
3.800000	3.200000	2.800000	2.550000	2.350000	2.350000	2.400000	2.500000
2.650000	2.780000	3.150000	3.650000	4.400000	5.450000	6.781111	6.651111
1 CH42/143	1315H	25I64					
8.601100	4.501100	5.700100	7.251000	5.201000	7.700000	6.250000	5.000000
4.100000	3.400000	3.100000	2.900000	2.800000	2.800000	2.850000	2.950000
3.250000	3.500000	4.100000	4.800000	5.850000	7.350000	6.681111	6.661111
1 CH42/144	1500H	25I64					
5.751010	6.401100	8.000100	5.250100	7.301000	5.400000	8.500000	6.900000
5.600000	4.750000	4.100000	3.700000	3.550000	3.350000	3.450000	3.600000
3.700000	3.850000	4.300000	4.850000	5.800000	7.250000	6.701111	6.751111
1 CH42/145	1530H	25I64					
4.751010	5.451100	6.400100	8.351000	5.701000	8.500000	6.550000	5.200000
4.350000	3.700000	3.200000	2.850000	2.650000	2.600000	2.650000	2.750000
3.000000	3.100000	3.300000	3.700000	4.350000	5.300000	6.871111	6.861111
1 CH42/146	2340H	25I64					
6.451010	7.401100	9.400100	6.100100	8.501000	6.051000	4.751000	7.950000
6.250000	5.200000	4.450000	3.950000	3.700000	3.500000	3.500000	3.450000
3.650000	3.800000	4.150000	4.500000	5.200000	6.400000	6.801111	6.751111
1 CH42/147	0005H	26I64					
4.750110	5.351010	6.651100	9.150100	6.400100	9.101000	7.151000	5.501000
4.551000	7.500000	6.300000	5.600000	5.100000	4.900000	4.750000	4.600000
4.700000	5.100000	5.300000	6.000000	7.250000	8.650000	6.651111	6.651111
1 CH42/148	0020H	26I64					
7.001010	7.901100	4.801100	6.400100	9.101000	6.601000	5.001000	8.300000
6.500000	5.500000	4.800000	4.100000	3.800000	3.650000	3.700000	3.650000
3.750000	3.800000	4.200000	4.900000	5.750000	7.200000	6.631111	6.631111
1 CH42/149	0035H	26I64					
8.001010	8.601100	5.201100	7.000100	4.700100	6.801000	5.201000	8.300000
6.800000	5.500000	4.600000	4.200000	3.900000	3.700000	3.600000	3.650000
3.750000	3.850000	4.250000	4.800000	5.600000	7.000000	6.751111	6.681111
1 CH42/150	0050H	26I64					
6.951010	7.701100	9.850100	6.200100	9.001000	6.401000	4.801000	7.650000
6.400000	5.150000	4.550000	3.950000	3.500000	3.400000	3.400000	3.400000
3.500000	3.650000	4.050000	4.600000	5.500000	6.850000	6.691111	6.731111
1 CH42/151	0105H	26I64					
6.551010	6.901100	8.350100	5.300100	7.601000	5.351000	8.450000	6.700000
5.700000	4.600000	4.000000	3.500000	3.200000	3.150000	3.100000	3.200000
3.350000	3.450000	3.800000	4.350000	5.150000	6.500000	6.661111	6.701111
1 CH42/152	0120H	26I64					
6.700110	7.901010	4.901010	6.401100	4.501100	6.700100	4.950100	8.001000
6.351000	5.201000	9.100000	7.800000	7.100000	6.500000	6.250000	6.350000

6.400000	6.600000	7.200000	8.100000	9.450000	5.501000	6.711111	6.601111
1 CH42/153 0135H 26I64							
7.401010	8.251100	4.901100	6.400100	8.801000	6.501000	4.801000	7.800000
6.600000	5.250000	4.500000	4.000000	3.550000	3.400000	3.550000	3.450000
3.550000	3.700000	4.150000	4.800000	5.900000	7.500000	6.611111	6.701111
1 CH42/154 0150H 26I64							
5.301100	5.800100	7.351000	4.801000	7.000000	5.000000	4.300000	3.400000
2.800000	2.350000	2.150000	2.000000	1.900000	1.900000	2.100000	2.150000
2.300000	2.350000	2.600000	3.050000	3.550000	4.550000	6.701111	6.651111
1 CH42/155 0205H 26I64							
6.151010	6.751100	8.650100	5.650100	8.001000	5.851000	9.300000	7.400000
5.700000	4.750000	4.100000	3.600000	3.300000	3.250000	3.250000	3.250000
3.350000	3.450000	3.800000	4.250000	4.850000	6.000000	6.701111	6.631111
1 CH42/156 0215H 26I64							
6.301100	6.850100	8.601000	5.801000	8.500000	6.400000	5.100000	4.200000
3.400000	2.900000	2.550000	2.400000	2.200000	2.150000	2.250000	2.350000
2.500000	2.500000	2.700000	3.050000	3.700000	4.450000	6.551111	6.651111
1 CH42/157 0330H 26I64							
6.551010	7.151100	4.501100	5.900100	8.301000	5.901000	4.501000	7.300000
5.800000	5.100000	4.300000	3.600000	3.450000	3.250000	3.400000	3.300000
3.400000	3.450000	3.900000	4.400000	5.200000	6.400000	6.751111	6.751111
1 CH42/158 0355H 26I64							
5.100110	5.901010	7.401100	4.701100	7.100100	5.100100	7.501000	5.901000
4.901000	7.900000	6.700000	5.850000	5.300000	5.150000	5.000000	5.000000
5.150000	5.250000	5.650000	6.450000	7.550000	9.200000	6.781111	6.751111
1 CH42/159 0415H 26I64							
8.951010	4.901010	6.101100	8.050100	5.650100	8.201000	5.901000	4.701000
8.000000	6.400000	5.500000	4.750000	4.550000	4.150000	4.150000	4.100000
4.200000	4.350000	4.700000	5.200000	6.150000	7.700000	6.751111	6.701111
1 CH42/160 0430H 26I64							
6.351010	7.051100	9.000100	6.000100	8.251000	5.801000	9.000000	7.000000
5.750000	4.700000	4.050000	3.500000	3.350000	3.150000	3.200000	3.300000
3.400000	3.500000	3.800000	4.250000	5.000000	6.250000	6.801111	6.701111
1 CH42/161 26I64 0445H ST610 4-60M							
7.201010	7.651100	9.000100	5.650100	8.101000	5.901000	9.300000	7.300000
5.800000	4.800000	4.000000	3.450000	3.200000	3.000000	3.100000	3.100000
3.300000	3.400000	3.700000	4.250000	5.000000	6.300000	6.681111	6.711111
1 CH42/162 26I64 0500H ST610 5-80M							
6.301010	6.351100	7.700100	4.900100	6.901000	5.151000	8.100000	6.300000
5.000000	4.250000	3.550000	3.100000	2.900000	2.750000	2.850000	2.850000
3.050000	3.150000	3.450000	3.900000	4.650000	5.800000	6.651111	6.711111
1 CH42/163 26I64 0510H ST610 6-100M							
4.751010	5.251100	6.750100	9.001000	6.301000	9.650000	7.400000	5.850000
4.600000	3.900000	3.300000	3.050000	2.800000	2.750000	2.700000	2.850000
2.950000	3.000000	3.250000	3.700000	4.350000	5.400000	6.681111	6.551111
1 CH42/164 26I64 0525H ST610 7-120							
7.951100	4.551100	5.900100	7.801000	5.451000	8.100000	6.150000	5.000000
4.000000	3.500000	3.000000	2.700000	2.550000	2.450000	2.450000	2.600000
2.750000	2.750000	3.000000	3.350000	4.000000	4.800000	6.581111	6.651111
1 CH42/165 26I64 0540H ST610 8-140M							
5.151010	5.851100	7.550100	4.950100	7.001000	5.001000	7.700000	6.000000
4.850000	4.050000	3.450000	3.100000	2.900000	2.750000	2.800000	2.850000
2.950000	3.000000	3.300000	3.700000	4.400000	5.450000	6.681111	6.681111
1 CH42/166 26I64 0555H ST610 9-160M							
8.100100	4.600100	5.751000	8.000000	5.900000	4.400000	3.400000	2.650000
2.350000	1.950000	1.750000	1.700000	1.600000	1.650000	1.800000	1.930000
2.050000	2.150000	2.350000	2.650000	3.150000	4.000000	6.721111	6.751111

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1 CH42/167 26I64 0610H  ST610  10-200M
 7.801100  9.100100  5.600100  7.201000  5.001000  7.500000  5.700000  4.400000
 3.650000  3.000000  2.800000  2.550000  2.400000  2.300000  2.400000  2.550000
 2.500000  2.700000  2.900000  3.450000  3.900000  4.900000  6.761111  6.751111
1 CH42/168 27I64 2335H 28 51N 66 36.5W T=21.0
 5.251010  5.701100  7.200100  8.901000  6.501000  9.350000  7.300000  5.700000
 4.850000  4.150000  3.450000  3.300000  3.000000  3.000000  3.150000  3.200000
 3.350000  3.450000  3.850000  4.400000  5.000000  6.300000  9.831111  9.651111
1 CH42/169 28I64 0030H 28 49.5N 66 27W T=21.3
 7.451010  8.201100  4.901100  6.500100  9.201000  6.701000  5.201000  8.500000
 6.500000  5.500000  4.650000  4.300000  3.750000  3.750000  3.750000  3.850000
 4.000000  4.200000  4.550000  5.100000  6.250000  7.500000  9.781111  9.801111
1 CH42/170 28I64 0130H 28 35.5N 66 19.5W T=22.3
 6.601010  7.601100  9.300100  6.000100  8.501000  5.801000  4.801000  7.300000
 6.250000  5.000000  4.450000  4.000000  3.700000  3.700000  3.750000  3.700000
 3.900000  4.150000  4.500000  5.200000  5.850000  7.250000  9.651111  9.701111
1 CH420171 28/64 0235H  28 28.5W 66 12.5W   T=23.3
 6.351010  7.201100  8.750100  5.400100  7.601000  5.801000  9.100000  6.950000
 5.800000  4.750000  4.300000  3.700000  3.500000  3.400000  3.500000  3.600000
 3.750000  3.850000  4.300000  4.900000  5.850000  7.150000  9.651111  9.751111
1 CH42/172 28I64 0330H 28 34N 66 07W T=22.8
 4.900110  5.501010  6.701100  9.100100  6.100100  8.701000  6.651000  5.251000
 8.500000  7.100000  6.050000  5.400000  4.950000  4.650000  4.800000  5.150000
 5.100000  5.300000  5.650000  6.500000  7.500000  9.000000  9.551111  9.601111
1  CH42/173  29I64 1230H 28 51N 63 07W ST611 PIPE SURF
 5.351010  6.001100  7.400100  4.700100  6.601000  4.701000  7.650000  6.150000
 5.200000  4.200000  3.550000  3.300000  3.050000  3.000000  3.100000  3.250000
 3.400000  3.550000  3.800000  4.250000  4.950000  6.100000  9.951111  9.801111
1 CH42/174 29I64 1255H ST611 1-SURFACE
 5.400110  6.301010  7.401100  4.801100  7.100100  4.900100  7.601000  5.901000
 4.601000  7.750000  6.550000  5.900000  5.300000  5.000000  5.000000  5.100000
 5.250000  5.400000  5.850000  6.600000  7.500000  9.200000  9.671111  9.701111
1 CH42/175 29I64 1315H ST611  2-60M
 5.850110  4.651010  8.101100  5.251100  7.700100  5.500100  9.001000  7.001000
 5.601000  4.401000  8.350000  7.200000  6.600000  6.050000  6.000000  6.100000
 6.200000  6.400000  6.700000  7.500000  8.500000  5.101000  9.851111  9.801111
1 CH42/176 29I64 1330H ST611  3-100M
 7.200110  8.401010  5.501010  7.001100  4.901100  7.200100  5.600100  9.001000
 7.201000  6.051000  5.001000  9.200000  8.200000  7.900000  7.650000  7.350000
 7.500000  7.750000  8.300000  9.350000  5.201000  6.401000  9.751111  9.701111
1 CH42/177 29I64 1350H  ST611  4-210M
 8.401010  4.851010  6.401100  8.550100  5.900100  8.801000  6.701000  5.351000
 8.850000  7.100000  6.300000  5.450000  5.100000  4.750000  4.800000  4.800000
 5.000000  5.150000  5.550000  6.200000  7.200000  8.750000  9.671111  9.671111
1 CH42/178 ST 611  5-300M  29I64 1400H
 5.801010  6.751100  9.050100  5.900100  8.701000  6.251000  5.001000  8.100000
 6.500000  5.450000  4.700000  4.250000  3.950000  3.850000  3.850000  3.950000
 4.150000  4.250000  4.650000  5.250000  6.150000  7.500000  9.671111  9.601111
1 CH42/179 29I64 1415H ST611  6-400M
 9.251010  5.501010  7.501100  5.001100  7.250100  5.400100  8.401000  6.601000
 5.501000  9.100000  8.000000  6.950000  6.500000  6.200000  6.150000  5.900000
 6.000000  6.100000  6.800000  7.450000  8.600000  5.101000  9.651111  9.731111
1 CH42/180 29I64 1435H ST611  7-500M
 8.001010  4.551010  5.901100  8.700100  6.150100  4.300100  7.001000  5.151000
 8.600000  7.200000  6.300000  5.500000  5.300000  5.100000  5.000000  4.900000
 5.350000  5.500000  5.800000  6.450000  7.500000  9.300000  9.701111  9.601111
1 CH42/181 29I64 1455H ST611  8-700M
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 6.700110  7.601010  9.201100  6.701100  8.900100  6.300100  9.701000  7.601000
 6.201000  5.101000  8.650000  7.800000  7.100000  6.700000  6.800000  6.750000
 7.000000  7.050000  7.800000  8.750000  4.801000  5.901000  9.601111  9.581111
1 CH42/182 29I64 1515H ST611 9-1000M  QUE + 90
 6.701010  7.301100  5.201100  7.150100  5.100100  7.301000  5.701000  4.601000
 7.750000  6.700000  6.000000  5.250000  5.050000  5.000000  5.200000  5.300000
 5.400000  5.750000  5.900000  6.550000  7.650000  9.600000  9.601111  9.991111
1 CH42/183 29I64 2320H ST612 29 57N 64 04W PIPE SURFACE
 9.051010  5.201010  6.401100  8.500100  5.900100  8.401000  6.701000  5.001000
 8.500000  7.250000  6.350000  5.750000  5.200000  5.150000  4.950000  5.050000
 5.050000  5.300000  5.650000  6.500000  7.400000  9.000000  8.951111  9.001111
1 CH42/184 29I64 2350H ST612 1-SURFACE
 5.950110  6.901010  8.501100  5.601100  8.000100  5.600100  8.701000  6.951000
 5.601000  4.901000  8.500000  7.300000  6.800000  6.350000  6.250000  6.400000
 6.400000  6.750000  7.450000  8.500000  4.701000  5.751000  8.821111  8.821111
1 CH42/185 30I64 0005H ST 612 2-60M
 8.551010  4.851010  5.951100  8.000100  5.600100  8.201000  6.301000  4.951000
 8.500000  7.000000  5.850000  5.200000  4.800000  4.600000  4.700000  4.750000
 4.900000  5.000000  5.500000  6.100000  7.300000  9.050000  8.971111  8.851111
1 CH42/186 30I64 0025H ST612  3-100M
 4.800110  5.451010  6.751100  8.950100  6.150100  4.400100  6.901000  5.401000
 9.000000  7.600000  6.550000  5.750000  5.300000  4.950000  4.900000  5.050000
 5.200000  5.400000  5.800000  6.550000  7.600000  9.500000  8.851111  8.851111
1 CH42/187 30I64 0045H ST612  4-210
 5.550110  6.301010  7.901100  5.201100  7.450100  5.300100  8.301000  6.351000
 5.101000  8.600000  7.400000  6.350000  6.000000  5.600000  5.600000  5.500000
 5.700000  5.850000  6.400000  7.350000  8.800000  5.451000  8.801111  8.801111
1 CH42/188 30I64 0100H ST612 6-400M
 6.951010  7.901100  4.901100  6.400100  9.201000  6.601000  5.001000  8.250000
 6.600000  5.600000  4.900000  4.350000  4.100000  3.900000  4.000000  4.150000
 4.250000  4.400000  4.850000  5.650000  7.000000  8.950000  8.781111  8.801111
1 CH42/189 30I64 /15H  ST612 8-700M
 8.351100  4.701100  6.300100  8.351000  5.901000  9.150000  7.000000  5.850000
 4.600000  3.950000  3.600000  3.400000  3.200000  3.150000  3.350000  3.450000
 3.550000  3.750000  4.100000  4.700000  5.600000  6.900000  8.871111  8.871111
1 CH42/190 30I64 0130H  ST612  5-300M
 5.101010  5.701100  7.400100  4.800100  6.851000  5.051000  7.750000  6.200000
 5.000000  4.150000  3.650000  3.250000  3.150000  3.050000  3.200000  3.250000
 3.400000  3.550000  3.900000  4.400000  5.200000  6.350000  8.821111  8.751111
1 CH42/191 30I64 0145H  ST612  9-1000M
 7.801010  4.001010  5.201100  6.900100  5.350100  7.351000  5.751000  9.100000
 7.500000  6.300000  5.500000  5.150000  4.800000  4.600000  4.750000  4.800000
 4.900000  5.000000  5.450000  6.100000  7.150000  8.650000  8.731111  8.731111
1 CH42/192 30I64 0200H ST612  M-600M
 6.351010  7.201100  9.050100  5.900100  8.501000  6.301000  4.801000  7.900000
 6.150000  5.200000  4.700000  4.350000  3.950000  3.900000  4.000000  4.050000
 4.150000  4.350000  4.800000  5.450000  6.500000  8.400000  8.731111  8.751111
1CH42/193 30I64 0740H ST613 31 3N 64 47W PIPE SURFACE
 5.400110  6.051010  7.601100  4.701100  6.700100  5.000100  7.851000  6.151000
 5.001000  4.201000  7.400000  6.650000  6.100000  5.700000  5.700000  5.750000
 5.900000  6.400000  6.500000  7.400000  8.750000  5.051000  9.031111  9.021111
1 CH42/194 30I64 0815H ST 613  1-SURFACE
 6.400110  7.601010  5.001010  6.101100  8.850100  6.350100  4.850100  7.651000
 6.301000  5.101000  9.450000  8.300000  7.500000  6.850000  6.750000  6.800000
 6.950000  7.150000  7.800000  8.700000  4.951000  5.901000  8.901111  8.751111
1 CH42/195 30I64 0835H ST613  2-60M
 7.601010  8.501100  5.201100  6.800100  4.800100  7.201000  5.501000  8.900000
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 7.250000  6.000000  5.200000  4.750000  4.350000  4.100000  4.200000  4.350000
 4.600000  4.700000  5.200000  6.000000  7.100000  8.650000  8.751111  8.781111
1 CH42/196 30I64 0850H  ST613  3-100M
 9.101010  5.101010  6.301100  8.500100  5.850100  8.751000  6.601000  5.201000
 8.350000  7.000000  5.800000  5.200000  4.850000  4.600000  4.650000  4.700000
 4.800000  4.900000  5.400000  6.000000  7.050000  8.650000  8.861111  8.721111
1 CH42/197 30I64 0910H ST613  4-210M
 7.200110  8.351010  5.201010  7.051100  4.901100  7.350100  5.500100  8.551000
 6.751000  5.601000  4.701000  8.550000  7.700000  7.300000  7.250000  7.100000
 7.250000  7.700000  8.350000  4.601000  5.351000  6.701000  8.701111  8.851111
1 CH42/198 30I64 0925H ST613  10-1000M
 7.001010  8.001100  4.801100  6.600100  9.401000  6.801000  5.501000  9.000000
 7.400000  6.250000  5.500000  4.800000  4.700000  4.400000  4.500000  4.800000
 4.800000  5.000000  5.400000  6.000000  7.000000  8.300000  8.871111  8.901111
1 CH42/199 30I64 0945H  ST613  5-300M
 8.751010  5.001010  6.501100  8.800100  6.300100  9.001000  6.901000  5.501000
 9.100000  7.750000  6.750000  6.050000  5.550000  5.300000  5.350000  5.400000
 5.650000  5.850000  6.400000  7.400000  8.750000  5.351000  8.731111  8.751111
1 CH42/200 30I64 1000H ST613  7-500M
 5.201010  6.201100  8.300100  5.600100  7.901000  6.001000  9.400000  7.400000
 6.050000  5.100000  4.600000  4.300000  3.850000  3.800000  3.900000  3.950000
 4.100000  4.200000  4.550000  5.100000  6.100000  7.700000  8.781111  8.801111
1 CH42/201 30I64 1015H  ST613  9-800M
 6.001100  7.000100  4.750100  6.601000  4.601000  7.200000  5.850000  4.600000
 4.000000  3.400000  3.000000  2.800000  2.700000  2.700000  2.850000  2.950000
 3.100000  3.250000  3.550000  3.950000  4.600000  5.700000  8.851111  8.851111
1 CH42/202 30I64 1035H ST613  6-500M
 9.051100  5.101100  6.600100  9.101000  6.401000  4.701000  7.650000  5.950000
 4.900000  4.200000  3.800000  3.520000  3.300000  3.250000  3.400000  3.550000
 3.750000  3.950000  4.530000  4.900000  5.750000  7.300000  8.701111  8.951111
1 CH42/203 30I64 1050H ST613  8-600M
 8.701100  5.001100  6.700100  9.001000  6.401000  4.801000  7.750000  6.300000
 5.100000  4.350000  3.850000  3.600000  3.500000  3.350000  3.500000  3.700000
 3.800000  4.100000  4.400000  5.000000  5.800000  7.100000  8.881111  8.901111
1 CH42/204 30I64 1410HST614 32 4.5N 65 20.3W PIPE SURF
 6.751010  7.501100  9.500100  6.000100  8.501000  6.401000  5.001000  8.000000
 6.500000  5.300000  4.500000  4.050000  3.800000  3.650000  3.550000  3.700000
 4.050000  4.200000  4.500000  5.150000  6.000000  7.300000  8.701111  8.651111
1 CH42/205 30I64 1445H ST614  1-SURFACE
 9.051010  4.951010  6.201100  8.500100  6.000100  9.001000  6.701000  5.301000
 8.700000  7.300000  6.450000  5.550000  5.250000  5.100000  4.850000  4.850000
 4.900000  5.300000  5.700000  6.550000  7.600000  9.200000  8.551111  8.631111
1 CH42/206 30I64 1500H  ST614  2-60M
 4.850110  5.551010  6.851100  9.050100  6.500100  4.700100  7.051000  5.601000
 9.300000  7.500000  6.500000  5.750000  5.250000  5.100000  5.000000  5.100000
 5.350000  5.300000  6.000000  6.800000  7.800000  4.651000  8.601111  8.651111
1 CH42/207 30I64 1520H  ST614  8-600M
 5.901010  6.501100  9.000100  5.500100  8.001000  5.701000  9.350000  7.600000
 6.200000  5.200000  4.600000  4.050000  3.800000  3.700000  3.850000  4.000000
 4.000000  4.150000  4.450000  5.050000  5.850000  7.150000  8.551111  8.551111
1 CH42/208 30I64 1535H  ST614  7-500M
 6.950110  8.151010  5.151010  7.001100  4.951100  7.400100  5.650100  8.801000
 7.101000  6.051000  5.101000  9.200000  8.250000  7.900000  7.650000  7.600000
 7.700000  7.850000  8.600000  4.551000  5.201000  6.301000  8.551111  8.601111
1 CH42/209 30I64 1550H  ST614  6-400M
 6.201010  7.001100  9.200100  5.900100  8.901000  6.251000  4.851000  7.900000
 6.500000  5.600000  4.850000  4.500000  4.050000  4.150000  4.150000  4.350000
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 4.650000  4.850000  5.300000  6.000000  7.300000  9.300000  8.351111  8.351111
1 CH42/210 30I64 1605H  ST614  9-800M
 5.751010  6.901100  8.700100  5.850100  8.301000  6.051000  4.701000  7.600000
 6.200000  5.400000  4.650000  4.150000  4.000000  3.700000  3.900000  4.000000
 4.050000  4.250000  4.600000  5.300000  6.200000  7.850000  8.351111  8.421111
1 CH42/211 30I64 1620H ST614  10-1000M
 7.951100  5.001100  6.450100  9.001000  6.501000  4.901000  8.000000  6.400000
 5.500000  4.750000  4.400000  3.900000  3.900000  3.850000  3.950000  4.100000
 4.300000  4.500000  4.850000  5.450000  6.400000  7.800000  8.461111  8.551111
1 CH42/212 30I64 1635H  ST614  5-300M
 8.901100  5.101100  6.400100  8.751000  6.101000  9.500000  7.400000  6.100000
 4.950000  4.300000  3.750000  3.600000  3.400000  3.350000  3.400000  3.500000
 3.700000  3.800000  4.250000  4.850000  5.500000  6.650000  8.531111  8.501111
1 CH42/213 30I64 1650H  ST614  4-210M
 7.151010  4.101010  5.301100  7.300100  5.100100  7.601000  5.751000  9.200000
 7.500000  6.400000  5.450000  4.850000  4.550000  4.400000  4.300000  4.350000
 4.500000  4.650000  5.000000  5.650000  6.650000  7.900000  8.501111  8.601111
1 CH42/214 30I64 1710H  ST614  3-100M
 6.801010  7.751100  4.701100  6.300100  9.001000  6.701000  5.151000  8.100000
 6.800000  5.550000  4.900000  4.450000  4.050000  4.000000  4.050000  4.100000
 4.200000  4.400000  4.850000  5.400000  6.300000  7.700000  8.551111  8.551111
1 CH42/215 30I64 2015H ST615 32 55.6N 65 53.1W PIPE S
 5.350110  6.201010  7.651100  5.151100  7.400100  5.350100  8.101000  6.451000
 5.251000  4.351000  7.450000  6.650000  6.100000  5.800000  5.600000  5.800000
 5.800000  6.300000  6.650000  7.500000  8.700000  5.151000  8.401111  8.381111
1 CH42/216 30I64 2050H ST615  1-SURFACE
 5.600110  6.351010  7.801100  5.201100  7.400100  5.350100  8.501000  6.501000
 5.301000  8.700000  7.850000  7.100000  6.550000  6.050000  6.050000  6.150000
 6.300000  6.650000  7.450000  8.650000  5.051000  6.301000  8.351111  8.451111
1 CH42/217 30I64 2110H ST615  2-60M
 6.451010  6.901100  8.750100  5.850100  8.051000  6.001000  9.500000  7.250000
 5.750000  4.900000  4.200000  3.800000  3.550000  3.550000  3.500000  3.650000
 3.800000  3.900000  4.320000  5.000000  5.810000  7.200000  8.431111  8.401111
1 CH42/218 30I64 2120H  ST615  10-1000M
 5.801010  6.701100  4.351100  5.900100  8.401000  6.351000  5.051000  8.500000
 7.450000  6.250000  5.550000  5.300000  4.850000  4.700000  4.850000  4.900000
 5.150000  5.250000  5.750000  6.400000  7.400000  8.750000  8.351111  8.321111
1 CH42/219 30I64 2135H ST615  9-800M
 5.601010  6.601100  8.300100  5.650100  8.001000  6.101000  4.601000  7.450000
 6.250000  5.050000  4.500000  4.050000  3.850000  3.650000  3.800000  3.900000
 4.000000  4.100000  4.400000  4.850000  5.700000  6.850000  8.481111  8.481111
1 CH42/220 30I64 2150H ST615  3-100M
 6.851010  7.851100  4.851100  6.400100  4.600100  6.701000  5.201000  8.300000
 6.600000  5.400000  4.650000  4.200000  3.850000  3.750000  3.800000  3.900000
 4.150000  4.200000  4.600000  5.200000  6.150000  7.600000  8.501111  8.471111
1 CH42/221 30I64 2205H  ST615  8-600M
 5.201010  5.901100  7.500100  5.000100  7.201000  5.251000  8.250000  6.450000
 5.500000  4.450000  3.900000  3.600000  3.300000  3.250000  3.400000  3.400000
 3.600000  3.700000  4.000000  4.500000  5.200000  6.450000  8.501111  8.351111
1 CH42/222 30I64 2220H ST615  4-210M
 5.750110  6.401010  8.101100  5.251100  7.900100  5.450100  8.401000  6.351000
 5.101000  8.750000  7.100000  6.350000  5.850000  5.550000  5.600000  5.550000
 5.750000  5.900000  6.400000  7.250000  8.400000  5.051000  8.501111  8.451111
1 CH42/223 30I64 ST615  7-500M
 7.401010  8.751100  5.451100  7.400100  5.200100  7.801000  5.751000  4.601000
 7.800000  6.500000  5.550000  5.100000  4.600000  4.350000  4.350000  4.400000
 4.550000  4.700000  5.100000  5.700000  6.650000  8.200000  8.431111  8.421111
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1 CH42/224 30I64 2255H  ST615  5-300M
 5.001010  5.751100  7.300100  4.800100  6.801000  5.301000  8.000000  6.300000
 5.100000  4.350000  3.800000  3.350000  3.250000  3.300000  3.350000  3.350000
 3.550000  3.600000  3.900000  4.350000  5.000000  6.150000  8.391111  8.421111
1 CH42/225 30I64 2310H  ST615  6-400M
 5.401010  6.001100  7.600100  5.200100  7.301000  5.101000  8.100000  6.450000
 5.300000  4.700000  4.100000  3.800000  3.600000  3.530000  3.670000  3.850000
 4.100000  4.350000  4.900000  5.600000  6.650000  8.500000  8.401111  8.351111
1 CH42/226 31I64 0630H ST61633 59.7N 66 34.1W PIPE SURFACE
 9.101010  5.201010  6.251100  8.550100  6.200100  9.201000  6.801000  5.451000
 8.750000  7.300000  6.300000  5.650000  5.300000  5.000000  5.000000  5.050000
 5.200000  5.280000  5.750000  6.400000  7.200000  8.700000  8.601111  8.421111
1 CH42/227 31I64 0725H ST616 1-SURFACE
 7.601010  8.801100  5.401100  7.600100  5.350100  7.451000  6.001000  4.701000
 7.500000  6.450000  5.400000  5.000000  4.450000  4.300000  4.350000  4.300000
 4.500000  4.600000  5.050000  5.700000  6.450000  7.750000  8.401111  8.551111
1 CH42/228 31I64 /MK/H  ST 616  10-1000M
 5.101010  5.001100  6.500100  4.500100  6.501000  4.751000  8.000000  6.400000
 5.500000  4.800000  4.350000  4.150000  4.050000  4.000000  4.150000  4.250000
 4.350000  4.500000  5.050000  5.700000  6.700000  8.000000  8.451111  8.451111
1 CH42/229 31I64 0810H ST616  9-800M
 5.201100  6.050100  8.001000  5.451000  7.850000  6.200000  4.700000  3.950000
 3.400000  2.800000  2.600000  2.500000  2.350000  2.300000  2.550000  2.600000
 2.700000  2.800000  3.000000  3.350000  3.900000  4.600000  8.451111  8.401111
1 CH42/230 31I64 0825H ST616  8-600M
 6.801100  8.050100  5.300100  6.651000  5.051000  7.900000  6.450000  4.900000
 4.050000  3.600000  3.200000  3.050000  2.850000  2.850000  2.950000  3.100000
 3.200000  3.250000  3.650000  4.200000  4.900000  6.050000  8.301111  8.551111
1 CH42/231 31I64 0840H ST616  7-500M
 6.551010  7.651100  4.801100  6.700100  4.700100  6.901000  5.251000  8.600000
 7.000000  5.750000  5.000000  4.500000  4.200000  4.000000  4.000000  4.050000
 4.130000  4.210000  4.700000  5.150000  5.900000  7.200000  8.441111  8.501111
1 CH42/232 31I64 0910H ST616  6-400M
 5.301100  6.200100  8.201000  5.551000  8.200000  6.100000  4.900000  4.100000
 3.500000  2.900000  2.700000  2.650000  2.600000  2.400000  2.650000  2.750000
 3.000000  3.000000  3.250000  3.650000  4.200000  5.200000  8.401111  8.501111
1 CH42/233 31I64 0930H ST616 5-300M
 7.151100  8.200100  5.200100  7.001000  4.801000  8.000000  6.000000  4.750000
 3.900000  3.400000  2.900000  2.750000  2.600000  2.600000  2.700000  2.750000
 2.950000  3.050000  3.250000  3.750000  4.300000  5.250000  8.401111  8.351111
1 CH42/234 31I64 0945H  ST616  4-210M
 5.251010  6.101100  7.800100  5.350100  7.401000  5.781000  4.451000  7.200000
 6.200000  5.400000  4.900000  4.600000  4.450000  4.250000  4.350000  4.400000
 4.650000  5.050000  5.700000  6.450000  7.350000  9.200000  8.151111  8.201111
1 CH42/235 31I64 1005H ST616 3-100M
 8.201010  4.831010  6.101100  8.500100  5.950100  8.701000  6.801000  5.201000
 8.500000  7.000000  6.100000  5.500000  4.850000  4.650000  4.600000  4.650000
 4.800000  5.000000  5.300000  6.100000  7.000000  8.500000  8.491111  8.601111
1 CH42/236 31I64 1025H ST616  2-60M
 7.701010  8.701100  5.351100  7.400100  5.050100  7.601000  5.801000  9.250000
 7.500000  6.150000  5.200000  4.650000  4.350000  4.200000  4.150000  4.200000
 4.350000  4.500000  4.750000  5.400000  6.300000  7.650000  8.471111  8.501111
1 CH42/237 31I64 1040H ST616  10-1000M REPEAT
 6.101100  7.500100  4.750100  6.501000  4.801000  7.400000  5.950000  4.900000
 4.250000  3.500000  3.150000  2.900000  2.850000  2.800000  2.900000  3.100000
 3.200000  3.300000  3.600000  4.200000  4.700000  5.700000  8.521111  8.581111
1 CH42/238 31I64 1410H ST617 34 57.5N 67 4.2W PIPE
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8.301010	4.701010	5.901100	8.050100	5.600100	8.151000	6.251000	4.851000
8.100000	6.700000	5.700000	5.030000	4.600000	4.400000	4.400000	4.600000
4.700000	4.800000	5.150000	5.650000	6.550000	8.050000	8.231111	8.271111
1 CH42/239 31I64 1450H ST617 1-SURFACE							
7.901010	4.451010	5.801100	7.800100	5.450100	7.901000	6.101000	4.751000
7.700000	6.500000	5.400000	5.150000	4.750000	4.600000	4.500000	4.800000
4.800000	4.950000	5.350000	6.150000	6.900000	8.850000	8.201111	8.151111
1 CH42/240 31I64 1505H ST617 5-300M							
6.051010	6.901100	8.950100	5.900100	8.551000	6.301000	4.651000	7.200000
6.400000	5.500000	4.650000	4.100000	4.000000	3.850000	3.800000	3.850000
3.850000	4.050000	4.700000	5.100000	5.700000	7.100000	8.001111	8.051111
1 CH42/241 31I64 1525H ST617 7-500M							
5.501100	6.600100	8.301000	5.701000	8.500000	6.450000	5.150000	4.150000
3.500000	2.850000	2.600000	2.450000	2.250000	2.350000	2.400000	2.550000
2.650000	2.650000	2.950000	3.250000	3.700000	4.550000	8.201111	8.151111
1 CH42/242 31I64 1535H ST617 6-400M							
8.801010	5.101010	6.501100	8.800100	6.000100	9.001000	6.801000	5.301000
8.800000	7.400000	6.100000	5.400000	5.050000	4.700000	4.850000	4.800000
5.000000	5.000000	5.450000	6.100000	7.100000	8.650000	8.221111	8.301111
1 CH42/243 31I64 ST617 4-210M 1550H							
9.601100	5.801100	7.050100	5.200100	6.801000	5.201000	8.200000	6.400000
5.050000	4.500000	4.050000	3.600000	3.550000	3.850000	3.750000	3.600000
3.750000	3.950000	4.600000	5.200000	5.900000	7.200000	8.151111	8.281111
1 CH42/245 31I64 1610H ST617 8-600M							
7.601010	8.701100	5.501100	7.650100	5.150100	8.001000	5.851000	4.651000
7.800000	6.700000	5.600000	5.300000	4.750000	4.600000	4.700000	4.700000
4.700000	4.850000	5.200000	5.900000	6.750000	8.000000	8.251111	8.221111
1 CH42/245 31I64 1620H ST617 3-100M							
7.000110	8.301010	5.301010	6.701100	4.751100	7.150100	5.300100	8.351000
6.601000	5.601000	9.800000	8.700000	8.000000	7.250000	7.100000	7.100000
7.400000	7.750000	8.300000	4.451000	5.101000	6.151000	8.201111	8.371111
1 CH42/246 31I64 1635H ST617 9-800M							
9.001100	5.151100	6.900100	9.251000	6.701000	5.301000	8.200000	6.600000
5.400000	4.800000	4.350000	4.000000	3.800000	3.850000	3.950000	4.000000
4.200000	4.500000	4.850000	5.450000	6.150000	7.400000	8.351111	8.351111
1 CH42/247 31I64 ST617 2-60M 1650H							
9.201100	5.201100	7.100100	9.401000	6.701000	4.851000	8.200000	6.400000
5.150000	4.500000	3.850000	3.600000	3.400000	3.320000	3.450000	3.550000
3.700000	3.800000	4.200000	4.800000	5.420000	6.450000	8.351111	8.401111
1 CH42/248 31I64 1700H ST617 10-1000M							
5.701010	6.351100	8.200100	5.700100	8.351000	6.401000	5.151000	8.450000
7.000000	6.300000	5.700000	5.550000	5.250000	5.150000	5.300000	5.300000
5.450000	6.000000	6.600000	7.400000	8.600000	9.900000	8.301111	8.251111
1 CH42/249 31I64 2110H ST618 36 3N 67 39W PIPE SURFACE							
7.401010	8.401100	5.151100	6.900100	4.700100	7.001000	5.201000	8.500000
7.000000	5.800000	5.050000	4.500000	4.250000	4.150000	4.150000	4.250000
4.400000	4.600000	5.100000	5.600000	6.400000	7.750000	8.701111	8.601111
1 CH42/250 31I64 2150H ST618 1-SURFACE							
6.451010	7.401100	9.600100	6.250100	8.951000	6.551000	4.951000	8.350000
6.600000	5.400000	4.800000	4.400000	4.000000	3.850000	3.950000	4.000000
4.100000	4.250000	4.650000	5.200000	6.150000	7.500000	8.551111	8.801111
1 CH42/251 31I64 2210H ST618 2-2000M							
5.701010	6.601100	8.550100	5.750100	8.301000	6.101000	4.601000	7.500000
6.100000	5.150000	4.250000	4.000000	3.700000	3.550000	3.750000	3.800000
3.900000	4.000000	4.300000	4.850000	5.750000	6.700000	8.651111	8.601111
1 CH42/252 31I64 2225H ST618 10-1000M							
6.301010	6.901100	4.451100	6.050100	8.801000	7.001000	5.301000	8.750000

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 7.300000  6.320000  5.550000  5.200000  5.050000  4.900000  5.050000  5.100000
 5.200000  5.500000  5.950000  6.550000  7.450000  8.700000  8.651111  8.651111
1 CH42/253 31I64 ST618  9-800M
 6.901100  8.400100  5.300100  7.201000  5.051000  3.901000  6.000000  4.900000
 4.100000  3.650000  3.050000  2.800000  2.600000  2.550000  2.700000  2.850000
 2.900000  3.150000  3.400000  3.800000  4.350000  5.200000  8.651111  8.701111
1 CH42/254 31I64 2255H ST618  8-600M
 5.401100  6.350100  8.251000  5.651000  8.500000  6.250000  4.950000  4.000000
 3.300000  2.850000  2.600000  2.400000  2.350000  2.380000  2.450000  2.600000
 2.750000  2.800000  3.100000  3.350000  3.900000  4.700000  8.721111  8.701111
1 CH42/255 31I64 2315H ST618  7-500M
 4.901010  5.501100  7.200100  4.900100  7.101000  5.101000  8.400000  6.400000
 5.200000  4.700000  4.250000  3.850000  3.800000  3.650000  3.750000  3.850000
 4.050000  4.100000  4.500000  5.050000  5.900000  7.050000  8.701111  8.751111
1 CH42/256 31I64 2335H  ST618 6-400M
 6.301010  7.251100  4.701100  5.900100  8.701000  6.301000  4.701000  7.550000
 6.200000  5.100000  4.400000  4.050000  3.850000  3.600000  3.700000  3.750000
 3.900000  4.100000  4.300000  4.850000  5.650000  6.900000  8.681111  8.651111
1 CH42/257 31I64 2350H  ST618  5-300M
 8.551010  4.801010  6.201100  8.300100  5.700100  8.201000  6.601000  5.151000
 8.400000  7.250000  6.200000  5.550000  5.300000  5.000000  4.850000  4.850000
 5.000000  5.300000  5.800000  6.500000  7.700000  9.500000  8.651111  8.581111
1 CH42/258 1I164 0010H ST618  J-210M
 6.001010  6.901100  8.650100  6.000100  4.200100  6.251000  4.751000  7.800000
 6.300000  5.250000  4.600000  4.000000  3.800000  3.650000  3.600000  3.900000
 3.950000  3.950000  4.300000  4.900000  5.600000  6.900000  8.651111  8.701111
1 CH42/254 1I164 0035H  ST618 3-100M
 6.300110  7.301010  9.101100  6.001100  8.500100  6.050100  4.600100  7.101000
 5.701000  9.650000  8.300000  7.200000  6.450000  6.150000  6.000000  6.100000
 6.250000  6.350000  6.850000  7.650000  8.900000  5.301000  8.651111  8.681111
1 CH42/260 1I164 0055H ST618  2-2000M REPEAT
 8.801100  4.951100  6.900100  4.550100  6.701000  5.201000  7.750000  6.200000
 5.150000  4.300000  3.850000  3.650000  3.400000  3.400000  3.500000  3.650000
 3.800000  4.000000  4.500000  5.300000  6.250000  7.900000  8.551111  8.471111
1 CH42/261 1I164 0615H ST619 37 39N 68 38W PIPE GS
 6.151010  6.751100  8.600100  5.150100  7.351000  5.101000  8.000000  6.200000
 5.050000  4.300000  3.900000  3.450000  3.250000  3.150000  3.330000  3.450000
 3.500000  3.600000  3.880000  4.450000  5.200000  6.550000  8.701111  8.701111
1 CH42/262 1I164 0700H ST619  U SURFACE
 8.051010  9.051100  5.451100  7.500100  5.200100  7.601000  6.101000  4.701000
 7.650000  6.650000  5.900000  5.400000  5.200000  4.950000  4.950000  5.050000
 5.150000  5.450000  6.100000  7.100000  8.250000  5.001000  8.651111  8.651111
1 CH42/263 1I164 0720H ST 619  2-600M
 6.151010  6.951100  8.700100  5.700100  8.001000  5.851000  4.351000  7.200000
 5.900000  5.050000  4.250000  3.750000  3.500000  3.350000  3.450000  3.450000
 3.650000  3.800000  4.050000  4.700000  5.400000  6.650000  8.651111  8.451111
1 CH42/264 1I164 0735H ST619  8-600M
 5.401100  6.200100  8.001000  5.401000  7.800000  5.700000  4.550000  3.800000
 3.100000  2.700000  2.450000  2.300000  2.150000  2.150000  2.400000  2.550000
 2.700000  2.750000  3.050000  3.550000  4.200000  5.400000  8.451111  8.501111
1 CH42/265 1I164 0805H  ST619  5-300M
 8.901100  4.701100  6.200100  7.851000  5.601000  8.500000  6.700000  5.200000
 4.250000  3.750000  3.150000  2.950000  2.800000  2.850000  2.950000  3.100000
 3.250000  3.500000  3.920000  4.700000  5.800000  7.850000  8.351111  8.351111
1 CH42/266 1I164 0825H ST619  10-1000M
 3.601010  4.051100  5.300100  7.151000  4.951000  7.700000  6.150000  4.700000
 3.900000  3.450000  3.000000  2.900000  2.850000  2.800000  2.850000  3.050000
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3.200000  3.300000  3.700000  4.250000  4.850000  6.050000  8.501111  8.381111
1 CH42/267 1II64 0845H  ST619  4-210M
6.351010  7.501100  9.500100  6.350100  4.500100  6.351000  4.851000  7.900000
6.400000  5.150000  4.600000  4.000000  3.850000  3.600000  3.650000  3.800000
3.900000  4.000000  4.350000  5.100000  5.900000  7.300000  8.451111  8.401111
1 CH42/268 1II64 0905H  ST619  3-100M
5.601010  6.651100  8.500100  5.700100  8.101000  5.801000  4.401000  7.350000
5.850000  5.000000  4.300000  3.900000  3.650000  3.600000  3.750000  3.750000
4.000000  4.100000  4.350000  5.150000  6.100000  7.800000  8.301111  8.401111
1 CH42/269 1II64 0920H  ST619  7-500M
8.151100  4.451100  5.850100  8.051000  5.551000  8.500000  6.500000  5.100000
4.300000  3.600000  3.150000  2.950000  2.870000  2.850000  2.970000  3.100000
3.200000  3.250000  3.650000  4.150000  4.750000  5.800000  8.351111  8.351111
1 CH42/270 1II64 0950H  ST619  6-400M
5.050110  5.801010  7.151100  4.601100  6.700100  4.950100  7.201000  5.701000
4.651000  8.000000  6.700000  6.100000  5.600000  5.500000  5.450000  5.450000
5.700000  5.800000  6.350000  7.200000  8.400000  5.101000  8.451111  8.451111
1 CH42/271 1II64 1015H  ST619  9-800M
5.801010  6.701100  8.700100  5.850100  8.151000  5.801000  4.601000  7.500000
6.200000  5.200000  4.600000  4.050000  3.800000  3.650000  3.800000  3.950000
4.050000  4.300000  4.700000  5.100000  5.900000  7.200000  8.451111  8.451111
1 CH42/272 1II64 1415H ST620 38 58N 69 53W PIPE SURF
5.550110  6.001010  7.501100  4.801100  6.350100  9.201000  6.701000  5.351000
8.350000  6.700000  5.750000  5.300000  4.600000  4.450000  4.550000  4.450000
4.630000  4.900000  5.350000  6.050000  7.100000  8.950000  8.551111  8.551111
1 CH42/273 1II64 1435H  ST620  1-SURFACE
5.800110  6.601010  8.001100  5.001100  7.200100  4.800100  7.001000  5.201000
8.800000  7.300000  6.000000  5.300000  4.800000  4.600000  4.600000  4.600000
4.750000  4.900000  5.500000  6.250000  7.350000  9.600000  8.651111  8.451111
1 CH42/274 1II64 1455H  ST620  3-100M
7.601010  8.851100  5.651100  7.500100  5.450100  7.901000  5.751000  9.550000
7.300000  6.100000  5.250000  4.750000  4.450000  4.150000  4.150000  4.150000
4.300000  4.450000  4.850000  5.400000  6.550000  7.950000  8.551111  8.551111
1 CH42/275 1II64 1510H  ST620  9-800M
3.500110  7.251100  4.501100  6.600100  4.400100  6.551000  5.251000  8.000000
6.600000  5.750000  4.850000  4.500000  4.200000  4.050000  4.150000  4.200000
4.250000  4.650000  4.800000  5.450000  6.350000  7.500000  8.481111  8.401111
1 CH42/276 1II64 1520H  ST620  2-60M
8.901010  4.951010  6.251100  8.700100  6.200100  8.901000  6.701000  5.201000
9.200000  7.150000  6.050000  5.400000  5.250000  4.750000  4.750000  4.700000
5.000000  5.200000  5.700000  6.400000  7.500000  8.750000  8.351111  8.351111
1 CH42/277 1II64 1535H  ST620  5-300M
8.251010  5.301010  5.301100  7.700100  5.100100  7.251000  5.901000  8.400000
7.100000  6.300000  5.100000  4.550000  4.250000  4.100000  4.100000  4.200000
4.250000  4.350000  4.750000  5.500000  6.300000  7.700000  8.251111  8.451111
1 CH42/278 1II64 1550H ST 620   4-210M
9.301010  5.251010  6.501100  4.301100  6.200100  4.600100  6.701000  5.401000
4.301000  7.350000  6.200000  5.400000  5.050000  4.900000  4.850000  4.950000
5.100000  5.350000  5.600000  6.350000  7.400000  9.100000  8.501111  8.501111
1 CH42/279 1II64 1605H  ST620 6- 400M
6.301100  7.500100  5.200100  6.601000  4.801000  8.000000  5.900000  4.900000
3.750000  3.350000  2.950000  2.650000  2.550000  2.500000  2.700000  2.750000
2.800000  3.000000  3.200000  3.550000  4.100000  5.100000  8.301111  8.301111
1 CH42/280 1II64 1620H  ST620  7-500M
4.201010  4.801100  6.250100  4.250100  6.101000  9.300000  7.400000  5.600000
4.600000  4.200000  3.450000  3.200000  3.000000  2.950000  3.100000  3.200000
3.200000  3.400000  3.650000  4.150000  4.750000  5.700000  8.401111  8.301111
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1 CH42/281 1I164 1645H  ST620  8-600M
 2.650110  6.051100  7.750100  5.250100  7.051000  5.301000  8.000000  6.450000
 5.000000  4.200000  3.800000  3.400000  3.200000  3.150000  3.300000  3.400000
 3.650000  3.650000  4.000000  4.600000  5.200000  6.350000  8.301111  8.351111
1 CH42/282 1I164 1700H  ST620  10-1000M
 5.351010  6.401100  8.300100  5.300100  8.101000  5.751000  4.501000  7.300000
 6.100000  5.200000  4.400000  4.150000  3.750000  3.600000  3.600000  3.750000
 3.850000  4.050000  4.350000  4.750000  5.700000  6.900000  8.401111  8.401111
                                                                       808

                                                               TOTAL   808*
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Table of data pertinent to each sample

Sample	Date	Time	N.Lat.	W.Long.	Depth	T°C	S°/oo
CR101/1	18Nov1963	2000	41°18'	70°52'	pump	11.5	*
2	"	2100	41°11'	70°50'	"	12.0	*
3	"	2215	41°01'	70°41'	"	*	32.371
4	19Nov1963	0000	40°46'	70°28'	"	*	32.217
5	"	0300	40°18'	70°07'	"	*	32.771
6	"	0600	39°51'	69°49'	"	11.4	32.665
7	"	0720	39°41'	69°44'	"	12.0	*
8	"	0830	39°30'	69°35'	"	18.0	35.641
9	"	0930	39°20'	69°29'	"	17.9	35.566
10	"	1040	39°08'	69°20'	"	18.8	35.754
11	"	1130	39°00'	69°14'	"	18.7	35.742
12	"	1330	38°39'	69°01'	"	18.6	35.506
13	"	1410	38°34'	68°57'	"	18.7	35.616
14	"	1510	38°23'	68°50'	"	18.5	35.552
15	"	1605	38°14'	68°42'	"	20.4	35.815
16	"	1630	38°10'	68°38'	"	20.8	35.812
17	"	1710	38°02'	68°31'	"	21.8	35.811
18	"	1740	37°57'	68°25'	"	21.3	35.761
19	"	1810	35°53'	68°21'	"	22.1	36.294
20	"	1840	37°48'	68°14'	"	24.4	36.399
21	"	1930	37°41'	68°07'	"	24.3	36.405
22	"	2045	37°29'	68°00'	"	*	36.485
23	"	2200	37°17'	67°46'	"	21.9	36.493
24	"	2300	37°07'	67°37'	"	22.2	36.427
25	"	2350	36°59'	67°31'	"	21.8	36.555

Sample	Date	Time	N.Lat.	W.Long.	Depth	T°C	S°/oo
CR101/26	20Nov1963	0045	36°49'	67°24'	pump	21.5	36.642
27	"	0250	36°28'	67°08'	"	21.5	36.558
28	"	0445	36°12'	66°59'	"	21.5	36.567
29	"	0640	35°54'	66°47'	"	21.5	36.557
30	"	0730	35°45'	66°40'	"	21.8	36.567
31	"	0830	35°35'	66°33'	"	21.8	36.564
32	"	1030	35°15'	66°21'	"	21.4	36.569
33	"	1230	34°56'	66°08'	"	21.8	36.526
34	"	1330	34°45'	66°01'	"	21.8	*
35	"	1430	34°36'	65°53'	"	21.8	36.494
36	"	1530	34°26'	65°47'	"	21.5	*
37	"	1630	34°17'	65°41'	"	21.3	36.477
38	"	1730	34°07'	65°36'	"	21.5	*
39	"	1910	33°53'	65°25'	"	*	36.546
40	"	1930	33°47'	65°21'	"	21.6	*
41	"	2030	33°36'	65°14'	"	22.1	36.525
42	"	2130	33°28'	65°07'	"	22.1	*
43	"	2230	33°20'	65°02'	"	22.1	36.530
44	"	2330	33°11'	64°55'	"	22.2	36.529
45	21Nov1963	1940			"	19.7	*
46	3Dec1963	1000			"	*	*
47	"	1035	32°28'	64°38'	"	21.6	*
48	"	1130	32°30'	64°40'	"	21.7	*
49	"	1200	32°36'	64°41'	"	21.7	*
50	"	1300	32°47'	64°50'	"	21.8	36.550

SAMPLE	DATE	TIME	N.Lat.	W.Long.	Depth	T°C	S°/oo
CR101/51	3Dec1963	1400	32°57'	64°57'	pump	21.8	36.549
52	"	1500	33°05'	65°00'	"	21.8	36.563
53	"	1600	33°18'	65°11'	"	21.6	36.571
54	"	1700	33°26'	65°18'	"	21.6	36.570
55	"	1800	33°39'	65°27'	"	21.6	36.561
56	"	1900	33°49'	65°33'	"	21.5	36.578
57	"	2000	34°00'	65°40'	"	21.1	36.571
58	"	2100	34°13'	65°48'	"	21.1	36.564
59	"	2200	34°22'	65°54'	"	*	36.589
60	"	2300	34°33'	66°00'	"	*	35.560
61	4Dec1963	0100	34°55'	66°16'	"	*	36.546
62	"	0300	35°13'	66°30'	"	*	36.576
63	"	0500	35°25'	66°35'	"	*	36.496
64	"	0800	35°41'	66°57'	"	*	36.454
65	"	1140	36°02'	67°16'	"	22.0	36.507
(1575) 66	"	1315	36°14'	67°23'	"	*	36.495
67	"	1410	"	"	1m	21.85	36.491
68	"	1425	"	"	50m	21.46	36.518
69	"	1440	"	"	100m	21.32	36.570
70	"	1500	"	"	398m	17.98	36.457
71	"	1520	"	"	700m	14.63	35.940
72	"	1535	"	"	995m	8.74	35.106
73	"	1550	"	"	1492m	4.42	34.992
74	"	1610	"	"	1990m	3.81	34.970
75	"	1750	36°44'	67°45'	pump	*	36.533

SAMPLE	DATE	Time	N.Lat.	W.Long.	Depth	T°C	S°/oo
CR101/76	4dec1963	2310	37°26'	68°13'	pump	22.6	36.468
77	"	2340	37°30'	68°14'	"	22.2	36.497
78	"	2400	37°33'	68°15'	"	22.5	36.483
79	5Dec1963	0020	37°35'	68°16'	"	22.3	36.487
80	"	0040	37°38'	68°18'	"	22.9	36.461
81	"	0100	37°41'	68°19	"	22.8	36.472
82	"	0130	37°45'	68°22'	"	22.8	36.508
83	"	0200	37°50'	68°24'	"	22.5	36.534
84	"	0230	37°54'	68°26'	"	22.4	36.503
85	"	0300	37°59'	68°28'	"	22.3	36.525
86	"	0330	37°03'	68°28'	"	22.6	36.514
87	"	0400	38°07'	68°29'	"	22.2	36.418
88	"	0430	38°12'	68°31'	"	21.8	36.432
89	"	0500	38°17'	68°33'	"	17.3	35.541
90	"	0530	38°21'	68°36'	"	17.7	35.449
91	"	0600	38°27'	68°39'	"	17.1	35.559
92	"	0700	38°35'	68°47'	"	17.1	35.694
93	"	0800	38°45'	68°55'	"	15.4	35.029
(1576) 94	"	0900	38°55'	69°05'	"	*	34.813
95	"	0945	"	"	1m	14.62	34.834
96	"	1000	"	"	50m	14.58	34.824
97	"	1015	"	"	100m	14.52	35.691
98	"	1030	"	"	381m	7.06	35.060
99	"	1040	"	"	649m	4.66	35.000
100	"	1100	"	"	956m	4.12	34.977

Sample		Date	Time	N.Lat.	W.Long.	Depth	T°C	S°/oo
CR101/101		5Dec1963	1125	38°55'	69°05'	1432m	3.75	34.963
	102	"	1140	"	"	1910m	3.43	34.958
(1577)	103	"	1700	39°57'	69°57'	pump	11.3	33.485
	104	"	1745	"	"	18m	11.93	33.837
	105	"	1805	"	"	60m	14.58	34.821
	106	"	1825	"	"	100m	14.79	35.574
	107	"	1855	"	"	140m	13.04	35.685
	108	"	1915	"	"	180m	12.99	35.450
	109	"	1930	"	"	200m	11.84	35.567
(1578)	110	"	2230	40°31'	70°25'	pump	10.4	32.412
	111	"	2245	"	"	7m	10.42	32.401
	112	"	2300	"	"	17m	10.42	32.404
	113	"	2315	"	"	27m	*	32.394
	114	"	2330	"	"	37m	10.42	32.400
	115	"	2340	"	"	47m	10.45	32.413
	116	"	2400	"	"	57m	10.58	32.472
	117	6Dec1963	0020	"	"	65m	13.20	33.897
	118	"	0900	41°31'	70°40'	pump	*	31.804
	119	"	0910	W.H.O.I. Pier		pump	*	*
CH42/	1	15Jan1963	1700			"	*	*
	2	"	1800			"	*	32.512
	3	"	1900			"	*	*
	4	"	2000			"	*	*
	5	"	2100			"	*	32.791
	6	"	2200			"	*	*

Sample	Date	Time	N.Lat.	W.Long.	Depth	T°C	S°/oo
CH42/7	15Jan1963	2300			pump	13.20	32.791
8	16Jan1963	0800	37°55'	69°59'	"	*	36.344
9	"	0900	37°50'	69°55'	"	*	36.571
10	"	1000	37°45'	69°50'	"	*	36.579
11	"	1100	37°40'	69°50'	"	*	36.589
12	"	1200	37°35'	69°52'	"	(21.1)	(36.599)
13	"	1300	37°25'	69°55'	"	(21.1)	(36.609)
(601)14	"	1530	37°11'	70°00'	"	*	*
15	"	1600	"	"	1m	20.77	36.570
16	"	1620	"	"	90m	19.50	36.624
17	"	1635	"	"	200m	19.22	36.603
18	"	1700	"	"	1934m	3.82	34.965
19	"	1740	"	"	1934m	R	R
20	"	1800	"	"	299m	18.43	36.535
21	"	1835	"	"	398m	*	36.456
22	"	1900	"	"	592m	15.07	35.994
23	"	1920	"	"	784m	9.97	35.276
24	"	1940	"	"	973m	5.78	35.029
25	"	1955	"	"	1451m	4.12	34.967
26	"	2020	"	"	1934m	R	R
27	"	2055	"	"	348m	*	36.493
28	"	2110	"	"	30m	21.19	36.571
(602)29	17Jan1964	0930	34°53'	70°00'	pump	*	*
30	"	1005	"	"	1m	18.34	36.539
31	"	1030	"	"	28m	18.32	36.540

Sample	Date	Time	N.Lat.	W.Long.	Depth	T°C	S°/oo
CH42/32	17Jan1964	1050	34°53'	70°00'	950m	6.22	35.057
33	"	1110	"	"	750m	9.11	35.185
34	"	1125	"	"	556m	12.93	35.660
35	"	1145	"	"	370m	16.46	36.229
36	"	1245	"	"	278m	17.33	36.348
37	"	1305	"	"	185m	18.34	36.546
38	"	1325	"	"	130m	18.35	36.547
39	"	1345	"	"	85m	18.32	36.542
40	"	1410	"	"	950m	R	R
41	"	1430	"	"	750m	R	R
42	"	1450	"	"	1m	R	R
(603) 43	"	2245	32°47'	70°00	pump	*	*
44	"	2315	"	"	1m	19.05	36.596
45	"	2340	"	"	971m	7.63	35.101
46	"	2355	"	"	97m	19.03	36.605
47	18Jan1964	0015	"	"	213m	19,03	36.603
48	"	0030	"	"	301m	18.33	36.528
49	"	0050	"	"	388m	17.85	36.466
50	"	0105	"	"	485m	17.27	36.383
51	"	0125	"	"	582m	15.86	36.158
52	"	0145	"	"	679m	14.07	35.829
53	"	0200	"	"	776m	11.90	35.529
54	"	0220	"	"	971m	R	R
(604) 55	"	2235	30°21'	69°32'	pump	*	*
56	"	2300	"	"	100m	19.94	36.610

Sample	Date	Time	N.Lat.	W.Long.	Depth	T°C	S°/oo
CH42/57	18Jan1964	2320	30°21'	69°32'	400m	17.78	36.451
58	"	2340	"	"	1000m	6.67	35.071
59	19Jan1964	0005	"	"	1000m	R	R
60	"	0025	"	"	1000m	R	R
61	"	0035	"	"	pump	R	R
62	"	0055	"	"	100m	R	R
63	"	0110	"	"	400m	R	R
64	"	0135	"	"	1000m	R	R
65	"	0200	"	"	pump	R	R
66	"	0220	"	"	100m	R	R
67	"	0235	"	"	400m	R	R
68	"	0250	"	"	1000m	R	R
69	"	1245	"	"	pump	R	R
70	"	1310	"	"	100m	R	R
71	"	1335	"	"	400m	R	R
72	"	1355	"	"	1000m	R	R
73	"	1510	"	"	pump	(22.3)	(36.713)
74	"	1525	"	"	pump	(22.3)	(36.713)
(605) 75	"	2235	26°32'	69°30'	pump	*	*
76	"	2330	"	"	1m	23.72	36.714
77	"	2340	"	"	100m	21.47	36.712
78	20Jan1964	0005	"	"	220m	18.79	36.550
79	"	0020	"	"	310m	18.05	36.522
80	"	0040	"	"	400m	17.38	36.399
81	"	0055	"	"	500m	16.03	36.168

Sample	Date	Time	N.Lat.	W.Long.	Depth	T°C	S°/oo
CH42/82	20Jan1964	0110	26°32'	69°30'	600m	13.86	35.828
83	"	0130	"	"	700m	11.81	35.461
84	"	0150	"	"	800m	9.45	35.261
85	"	0235	"	"	1000m	6.55	35.035
86	"	0335	"	"	1000m	R	R
(606) 87	"	2155	27°15'	69°52'	pump	*	*
88	"	2225	"	"	1000m	6.52	35.080
89	"	2245	"	"	800m	9.90	35.307
90	"	2305	"	"	700m	12.35	35.609
91	"	2325	"	"	600m	14.53	35.926
92	"	2340	"	"	500m	16.51	36.246
93	21Jan1964	0005	"	"	400m	17.57	36.425
94	"	0035	"	"	310m	18.13	36.493
95	"	0100	"	"	220m	18.72	36.543
96	"	0130	"	"	100m	21.54	36.713
97	"	0150	"	"	1m	21.63	36.723
98	22Jan1964	1140	26°01'	71°45'	pump	23.5	36.718
99	"	1245	26°11'	71°51'	pump	23.0	36.733
100	"	1345	26°26'	71°55'	pump	23.0	36.720
101	"	1515	26°32'	71°52'	pump	23.0	36.731
102	"	1615	26°44'	71°41'	pump	21.6	36.695
103	"	1815	26°40'	72°03'	pump	23.4	36.720
104	"	1915	26°53'	72°08'	pump	23.1	36.716
105	23Jan1964	0010	27°41'	71°54'	pump	21.4	36.765
106	"	1330	27°14'	72°50'	pump	23.8	36.715

	Sample	Date	Time	N.Lat.	W.Long.	Depth	T°C	S°/oo
	CH42/107	23Jan1964	1430	27°24'	72°44'	pump	23.5	36.732
	108	"	1525	27°28'	72°40'	pump	23.0	36.759
	109	"	1620	27°33'	72°31'	pump	22.8	36.748
(607)	110	"	2200	28°03'	71°47'	pump	*	*
	111	"	2240	"	"	1m	22.17	36.841
	112	"	2300	"	"	89m	21.53	36.730
	113	"	2315	"	"	208m	18.88	36.556
	114	24Jan1964	0015	"	"	990m	7.05	35.046
	115	"	0035	"	"	792m	11.41	35.492
	116	"	0045	"	"	693m	13.43	35.757
	117	"	0100	"	"	594m	15.51	36.086
	118	"	0115	"	"	495m	17.05	36.344
	119	"	0130	"	"	396m	17.80	36.457
	120	"	0140	"	"	297m	*	36.521
	121	"	1930	27°05'	69°20'	pump	21.0	36.688
(608)	122	"	2100	27°10'	69°17'	pump	*	*
	123	"	2115	"	"	1m	21.19	36.769
	124	"	2130	"	"	89m	21.13	36.714
	125	"	2140	"	"	208m	18.87	36.581
	126	"	2215	"	"	297m	*	36.536
	127	"	2255	"	"	396m	17.53	36.420
	128	"	2320	"	"	495m	16.69	36.284
	129	"	2340	"	"	595m	14.56	35.942
	130	25Jan1964	0005	"	"	695m	12.29	35.605
	131	"	0025	"	"	795m	9.83	35.301

Sample	Date	Time	N.Lat.	W.Long.	Depth	T°C	S°/oo
CH42/132	25Jan1964	0045	27°10'	69°17'	995m	6.42	35.061
133	"	1005	26°46'	68°23'	pump	21.6	36.727
134	"	1020	26°46'	68°24'	pump	21.6	36.701
135	"	1030	26°45'	68°25'	pump	21.6	(36.705)
136	"	1045	26°44'	68°25'	pump	21.6	(36.720)
137	"	1100	26°43'	68°26'	pump	22.8	36.745
138	"	1115	26°42'	68°27'	pump	23.2	36.741
139	"	1130	26°41'	68°27'	pump	23.3	36.727
140	"	1145	26°40'	68°28'	pump	23.4	36.725
141	"	1230	26°35'	68°27'	pump	23.5	36.720
142	"	1245	26°34'	68°28'	pump	23.5	36.717
143	"	1315	26°32'	68°29'	pump	23.5	36.730
144	"	1500	26°22'	68°22'	pump	23.8	36.703
145	"	1530	26°22'	68°19'	pump	23.4	*
(609) 146	"	2340	26°28'	67°35'	pump	*	*
147	26Jan1964	0005	"	"	1m	23.44	36.709
148	"	0200	"	"	20m	23.43	36.697
149	"	0035	"	"	120m	21.44	36.680
150	"	0050	"	"	100m	*	36.688
151	"	0105	"	"	60m	22.63	36.752
152	"	0120	"	"	40m	23.41	36.699
153	"	0135	"	"	80m	21.72	36.691
154	"	0150	"	"	200m	18.85	36.560
155	"	0140	"	"	140m	20.84	36.667
156	"	0215	"	"	160m	19.87	36.622

Sample	Date	Time	N.Lat.	W.Long.	Depth	T°C	S°/oo
CH42/157	26Jan1964	0330	26°52'	67°45'	pump	*	*
158	"	0355	"	"	1m	21.38	36.727
159	"	0415	"	"	20m	21.14	36.717
160	"	0430	"	"	40m	21.30	36.717
161	"	0445	"	"	60m	20.32	36.625
162	"	0500	"	"	80m	19.94	36.614
163	"	0510	"	"	100m	*	36.587
164	"	0525	"	"	120m	19.13	36.567
165	"	0540	"	"	140m	18.91	36.553
166	"	0555	"	"	160m	18.76	36.542
167	"	0610	"	"	200m	18.55	36.535
168	27Jan1964	2335	28°51'	66°37'	pump	21.0	36.728
169	28Jan1964	0030	28°50'	66°27'	pump	21.3	36.727
170	"	0130	28°34'	66°20'	pump	22.3	36.766
171	"	0235	28°29'	66°13'	pump	23.3	36.807
172	"	0330	28°34'	66°07'	pump	22.8	36.793
(611) 173	29Jan1964	1230	28°51'	63°07'	pump	*	*
174	"	1255	"	"	1m	22.37	36.845
175	"	1315	"	"	60m	21.55	36.839
176	"	1330	"	"	100m	21.34	36.735
177	"	1350	"	"	210m	18.63	36.542
178	"	1400	"	"	300m	18.10	36.500
179	"	1415	"	"	400m	17.43	36.408
180	"	1435	"	"	500m	*	36.278
181	"	1455	"	"	699m	12.63	35.686

Sample		Date	Time	N.Lat.	W.Long.	Depth	T°C	S°/oo
CH42/182		29Jan1964	1515	28°51'	63°07'	992m	7.03	35.071
(512)	183	"	2320	29°57'	64°04'	pump	*	*
	184	"	2350	"	"	1m	*	36.780
	185	30Jan1964	0005	"	"	56m	21.66	36.759
	186	"	0025	"	"	93m	21.53	36.739
	187	"	0045	"	"	193m	18.74	36.554
	188	"	0100	"	"	361m	17.60	36.439
	189	"	0115	"	"	641m	13.83	35.815
	190	"	0130	"	"	273m	18.03	36.486
	191	"	0145	"	"	940m	7.95	35.133
	192	"	0200	"	"	541m	15.51	36.063
(613)	193	"	0740	31°03'	64°47'	pump	*	*
	194	"	0815	"	"	1m	19.95	36.628
	195	"	0835	"	"	59m	19.91	36.644
	196	"	0805	"	"	98m	19.91	36.644
	197	"	0910	"	"	205m	*	36.644
	198	"	0925	"	"	985m	6.70	35.073
	199	"	0945	"	"	293m	18.26	36.507
	200	"	1000	"	"	490m	16.90	36.313
	201	"	1015	"	"	787m	10.90	35.394
	202	"	1035	"	"	391m	17.69	36.443
	203	"	1050	"	"	590m	15.43	36.061
(614)	204	"	1410	32°05'	65°20'	pump	*	*
	205	"	1445	"	"	1m	19.47	36.633
	206	"	1500	"	"	60m	19.72	36.637

Sample	Date	Time	N.Lat.	W.Long.	Depth	T°C	S°/oo
CH42/207	30Jan1964	1520	32°05'	65°20'	600m	14.87	35.968
208	"	1535	"	"	500m	16.30	36.206
209	"	1550	"	"	400m	17.39	36.399
210	"	1605	"	"	800m	10.21	35.380
211	"	1620	"	"	1000m	6.52	35.072
212	"	1635	"	"	300m	18.19	36.495
213	"	1650	"	"	210m	18.46	36.539
214	"	1710	"	"	100m	19.52	36.635
(615) 215	"	2015	32°56'	65°57'	pump	*	*
216	"	2050	"	"	1m	18.78	36.586
217	"	2110	"	"	54m	18.80	36.586
218	"	2120	"	"	917m	7.64	35.104
219	"	2135	"	"	734m	11.82	35.511
220	"	2150	"	"	90m	18.82	36.585
221	"	2205	"	"	550m	15.57	36.083
222	"	2220	"	"	190m	18.83	36.585
223	"	2235	"	"	456m	17.05	36.321
224	"	2255	"	"	271m	18.27	36.507
225	"	2310	"	"	361m	17.76	36.445
(616) 226	31Jan1964	0630	34°05'	66°38'	pump	*	*
227	"	0725	"	"	1m	18.76	36.585
228	"	0750	"	"	980m	7.37	35.014
229	"	0810	"	"	784m	11.64	35.498
230	"	0825	"	"	588m	15.72	36.102
231	"	0840	"	"	490m	17.05	35.341

Sample		Date	Time	N.Lat.	W.Long.	Depth	T°C	S°/oo
	CH42/232	31Jan1964	0910	34°05'	66°38'	392m	17.75	36.456
	233	"	0930	"	"	294m	18.38	36.525
	234	"	0945	"	"	206m	18.73	36.603
	235	"	1005	"	"	98m	18.77	36.590
	236	"	1025	"	"	59m	18.75	36.603
	237	"	1040	"	"	980m	R	R
(617)	238	"	1410	34°58'	67°04'	pump	*	*
	239	"	1450	"	"	1m	*	36.577
	240	"	1505	"	"	300m	18.50	36.582
	241	"	1525	"	"	500m	17.50	36.334
	242	"	1535	"	"	400m	18.38	36.552
	243	"	1550	"	"	210m	18.49	36.574
	244	"	1610	"	"	600m	16.51	36.242
	245	"	1620	"	"	100m	18.45	36.585
	246	"	1635	"	"	800m	12.10	35.543
	247	"	1650	"	"	60m	18.47	36.574
	248	"	1700	"	"	1000m	7.56	35.086
(618)	249	"	2100	36°03'	67°39'	pump	*	*
	250	"	2150	"	"	1m	18.54	36.546
	251	"	2210	"	"	1940m	3.68	34.962
	252	"	2225	"	"	970m	5.75	35.032
	253	"	2240	"	"	776m	8.84	35.149
	254	"	2255	"	"	582m	13.09	35.748
	255	"	2315	"	"	485m	14.77	35.930
	256	"	2335	"	"	388m	16.75	36.252

Sample	Date	Time	N.Lat.	W.Long.	Depth	T°C	S°/oo
CH42/257	31Jan1964	2350	36°03'	67°39'	291m	18.52	36.558
258	1Feb1964	0100	"	"	204m	18.53	36.555
259	"	0035	"	"	97m	18.54	36.551
260	"	0055	"	"	1940m	R	R
(619) 261	"	0615	37°39'	68°38'	pump	*	*
262	"	0700	"	"	1m	21.67	36.571
263	"	0720	"	"	59m	21.63	36.560
264	"	0735	"	"	588m	15.38	36.054
265	"	0805	"	"	294m	18.56	36.589
266	"	0825	"	"	971m	6.35	35.042
267	"	0845	"	"	206m	18.96	36.593
268	"	0905	"	"	98m	20.86	36.638
269	"	0920	"	"	490m	16.97	36.309
270	"	0950	"	"	392m	18.10	36.497
271	"	1015	"	"	782m	11.22	35.433
(620) 272	"	1415	38°58'	69°32'	pump	*	*
273	"	1435	"	"	1m	5.07	32.698
274	"	1455	"	"	100m	13.65	35.701
275	"	1510	"	"	800m	4.05	34.979
276	"	1520	"	"	60m	13.81	35.614
277	"	1535	"	"	300m	7.78	35.101
278	"	1550	"	"	210m	9.72	35.225
279	"	1605	"	"	400m	5.70	35.032
280	"	1620	"	"	500m	4.86	35.008
281	"	1645	"	"	600m	4.72	35.024

Sample	Date	Time	N.Lat.	W.Long.	Depth	T°C	S°/oo
CH42/282	1Feb1964	1700	38°58'	69°32'	1000m	3.94	34.046

* not recorded

R rerun, data given at first run.

Salinity and temperature values in parenthesis are interpolated.

APPENDIX B

FORTRAN PROGRAM

The following pages are a copy of the FORTRAN program employed in the data reduction.

```
C     SCATTERING CALCULATIONS
      READ 5000,  M
 5000 FORMAT (I5)
      DIMENSION AMP(30),I1(30),I2(30),I3(30),I4(30),RNORM(37),THETA(37)
      DIMENSION X(37)   , RTHETA(37), RNOLN(37), SLOLN(37), RTHLN(37)
      DIMENSION SLOPE(37), RATIO(37),  RAPAR(37), SLO2(37),  RINT(37)
      DO 340  N=1,M
      READ  3900
 3900 FORMAT (54H                                                      )
C     CORRECTIVE ROUTINE
     0READ 4000, AMP(7), I1(7), I2(7), I3(7), I4(7),
     1AMP(8), I1(8), I2(8), I3(8), I4(8),
     2AMP(9), I1(9), I2(9), I3(9), I4(9),
     3AMP(10), I1(10), I2(10), I3(10), I4(10),
     4AMP(11), I1(11), I2(11), I3(11), I4(11),
     5AMP(12), I1(12), I2(12), I3(12), I4(12),
     6AMP(13), I1(13), I2(13), I3(13), I4(13),
     7AMP(14), I1(14), I2(14), I3(14), I4(14)
     0READ 4000, AMP(15), I1(15), I2(15), I3(15), I4(15),
     1AMP(16), I1(16), I2(16), I3(16), I4(16),
     2AMP(17), I1(17), I2(17), I3(17), I4(17),
     3AMP(18), I1(18), I2(18), I3(18), I4(18),
     4AMP(19), I1(19), I2(19), I3(19), I4(19),
     5AMP(20), I1(20), I2(20), I3(20), I4(20),
     6AMP(21), I1(21), I2(21), I3(21), I4(21),
     7AMP(22), I1(22), I2(22), I3(22), I4(22)
     0READ 4000, AMP(23), I1(23), I2(23), I3(23), I4(23),
     1AMP(24), I1(24), I2(24), I3(24), I4(24),
     2AMP(25), I1(25), I2(25), I3(25), I4(25),
     3AMP(26), I1(26), I2(26), I3(26), I4(26),
     4AMP(27), I1(27), I2(27), I3(27), I4(27),
     5AMP(28), I1(28), I2(28), I3(28), I4(28),
     6DIRECT,  I1D, I2D, I3D, I4D,
     7DIR2, I12, I22, I32, I42
 40000FORMAT (F5.2,4I1,F6.2,4I1,F6.2,4I1,F6.2,4I1,F6.2,4I1,F6.2,4I1,
     1F6.2,4I1,F6.2,4I1)
        A1 = .490
        A2 = .245
        A3 = .122
        A4 = .0611
       DO 310 J=7,28
       IF(I1(J)-1) 301,302,1
  301 AMP(J)=AMP(J) * A1
  302 IF(I2(J)-1) 303,304,1
  303 AMP(J)=AMP(J) * A2
  304 IF(I3(J)-1) 305,306,1
  305 AMP(J)=AMP(J) * A3
  306 IF(I4(J)-1) 307,310,1
  307 AMP(J)=AMP(J) * A4
  310 CONTINUE
      IF(I1D-1) 311,312,1
  311 DIRECT =DIRECT * A1
  312 IF (I2D-1) 313,314,1
  313 DIRECT =DIRECT * A2
  314 IF(I3D-1) 315,316,1
  315 DIRECT = DIRECT * A3
  316 IF(I4D-1) 317,318,1
  317 DIRECT =DIRECT * A4
  318 IF(I12 - 1) 321,322,1
```

```
 321 DIR2 = DIR2 * A1
 322 IF(I22 - 1) 323,324,1
 323 DIR2 = DIR2 * A2
 324 IF( I32 - 1)325,326,1
 325 DIR2 = DIR2 * A3
 326 IF(I42 - 1) 327,328,1
 327 DIR2 = DIR2 * A4
 328 DO  319  J =7,28
 319 AMP(J) = AMP(J)   /(DIRECT - ((DIRECT-DIR2)/22.) * FLOATF(J-7) )
     DO 320 J=10,28                                                    730
     L=38-J                                                            740
 320 AMP(L)= AMP(L) - 0.078* AMP(J)
     DO 333  J=1,37
 335 THETA(J) = FLOATF((J-1)*5)
 333 RTHETA(J) =  THETA(J) * 3.1416 / 180.
     DO  331  J=7,9
 331 AMP(J)  = AMP(J) -0.078 * AMP(28) * SINF(RTHETA(10))/
    1SINF(RTHETA(J))
     DO 330 J=7,28                                                     760
 330 RNORM(J)= AMP(J)*SINF(RTHETA(J) )  * 1.42
     DO  341  J=7,28
 341 RNOLN(J)  = LOGF( RNORM(J))
     DO 342  J=2,37
 342 RTHLN(J)  =  LOGF(RTHETA(J))
     RTHLN(1)  = -6.35
C    EXTRAPOLATION ROUTINE
     E = 2.303
     G = 5.
     X1 = 0.
     X2 = 0.
     X3 = 0.
     X4 =0.
     Y = 0.
     XY = 0.
     X2Y = 0.
     DO 400  J=7,11
     X(J) = LOGF(RNORM(J))/E
     X1 = X1 + THETA(J)
     X2 = X2 + THETA(J)**2
     X3 = X3 + THETA(J)**3
     X4 = X4 + THETA(J)**4
     Y = Y + X(J)
     XY = XY + THETA(J)*X(J)
 400 X2Y = X2Y + THETA(J)**2 * X(J)
     D = G*X2*X4+2.*X2*X1*X3 -X2**3 - G*X3**2 - X1**2*X4
     A =(Y*X2*X4+X1*X3*X2Y+X2*XY*X3 - X2**2*X2Y-Y*X3**2-X1*XY*X4)/ D
     B =(G*XY*X4+Y*X3*X2+X2*X1*X2Y - X2**2*XY-G*X3*X2Y-Y*X1*X4) / D
     C =(G*X2*X2Y+X1*XY*X2+Y*X1*X3 - Y*X2**2-G*XY*X3-X1**2*X2Y) / D
 105 DO 110  J=1,6                                                     102
     X(J) = A + B*THETA(J) + C*THETA(J)**2
     RNORM(J)= 10.** X(J)                                              140
 110 RNOLN(J)  =  LOGF(RNORM(J))
  95 SIGX = 0.                                                           7
     SIGX2 = 0.                                                         78
     SIGY = 0.                                                           8
     SIGXY = 0.                                                         82
     DO 100 J=24,28
```

```
      X(J)=LOGF(RNORM(J)) / 2.303                                           86
      SIGX = SIGX + THETA(J)                                                88
      SIGX2 = SIGX2 + THETA(J)**2                                            9
      SIGY = SIGY + X(J)                                                     9
  100 SIGXY = SIGXY + THETA(J) * X(J)                                       94
      A = (SIGX2*SIGY - SIGX*SIGXY)/(5.* SIGX2 - SIGX**2)                   96
      B = (5.* SIGXY - SIGX* SIGY) / (5.* SIGX2 - SIGX**2)                  98
      DO 101  J=29,37
      X(J) = A+B*THETA(J)                                                  120
  130 RNORM(J)= 10.** X(J)                                                 205
  101 RNOLN(J)  =  LOGF(RNORM(J))
      DO  350  J=1,36
      SLOPE(J) = (RNORM(J) - RNORM(J+1))/ (RTHETA(J)- RTHETA( J+1))
  350 SLOLN(J) = (RNOLN(J) - RNOLN(J+1)) / (RTHLN(J) - RTHLN(J+1))
      SLOLN(37) =0.0
      SLOPE(37) = 0.0
      DO 355   J=2,36
  355 SLO2(J) = (SLOPE(J) - SLOPE(J-1)) / (RTHETA(J) - RTHETA(J-1))
      SLO2(1) = 0.0
      SLO2(37) = 0.0
      SYM30 = RNORM(7) / RNORM(10)
      SYM45  = RNORM(10)/RNORM(28)                                         880
C     INTEGRATION ROUTINE
      DO 205  J=1,37
  205 RINT (J) = RNORM(J) * SINF(RTHETA(J))
      EVEN= 0.0                                                            810
      ODD= 0.0                                                             800
      DO 200  J=2,36,2                                                     840
  200 EVEN= EVEN + RINT(J)
      DO  210  J=3,35,2                                                    840
  210 ODD = ODD+ RINT(J)
      SCAT    = .183 *(RINT(1) + RINT(37) + 4. * EVEN + 2. * ODD)
      ODD= 0.0
      EVEN= 0.0
      DO 201  J=8,26,2
  201 EVEN= EVEN + RINT(J)
      DO  211  J =9,25,2
  211 ODD = ODD+ RINT(J)
      SCAPAR = .183 *(RINT(7) + RINT(27) + 4. * EVEN + 2. * ODD)
      DO  401  J=1,37
      RATIO(J) = SCAT / RNORM(J)
  401 RAPAR(J) = SCAPAR / RNORM(J)
      PRINT  3900
   90 PRINT 2000                                                           210
 20000FORMAT (112H0THETA  SIGMA THETA    LN SIGMA THETA  LN-LN SLOPE
     1  SLOPE      2ND DERIVATIVE   SCAT/SIGMA    SCAT30-130/SIGMA///)
     0PRINT 2010,(THETA(J), RNORM(J), RNOLN(J), SLOLN(J), SLOPE(J) ,
     1SLO2(J) , RATIO(J),  RAPAR(J) ,  J = 1,37      )
 2010 FORMAT (1X,F4.0,3X,E14.4,E14.4,E14.4,E14.4,E14.4  ,E14.4,E14.4 )
      PRINT 3000 , SCAT,  SYM30,  SYM45   , SCAPAR
 3000 FORMAT  (6H0SCAT= E14.4,5X,7H 30/45= E14.4,5X,8H 45/135=E14.4 ,5X,
     112H SCAT30-130= E14.4)
       GO TO  340
    1 PRINT 2005
 2005 FORMAT  (23H1MISPUNCHED  DATA  CARD///)
  340 CONTINUE
      CALL EXIT                                                            920
```

APPENDIX C

REDUCED DATA

The reduced data appear on the following pages. Nine sets of data appear on each page and the heading above each set identifies the sample from which it was derived. The columns give, in order: θ, $\sigma(\theta)$, ln $\sigma(\theta)$, the ln-ln slope between θ and $\theta+5°$, the second derivative at θ, s/$\sigma(\theta)$, and s(30-130)/$\sigma(\theta)$. The bottom line contains s, $\sigma(30°)/\sigma(45°)$, $\sigma(45°)/\sigma(135°)$, and s(30-130). The two digit numbers are the exponents of the base ten by which all numbers must be multiplied to place them in the correct order of magnitude.

CR 101/1 18 XI 63 2000H CELL=1

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
0	.5719E 01	.1744E 01	-.1794E 00	-.3305E 02	.0000E 00	.1340E 00	.3196E-01
5	.2835E 01	.1042E 01	-.9500E 00	-.1567E 02	.1991E 03	.2704E 00	.6447E-01
10	.1468E 01	.3836E 00	-.1517E 01	-.7727E 01	[illegible]	.5223E 00	.1246E 00
15	.7932E 00	-.2316E 00	-.1988E 01	-.3959E 01	.4317E 02	.9663E 00	.2304E 00
20	.4477E 00	-.8036E 00	-.2369E 01	-.2107E 01	.2123E 02	.1712E 01	.4083E 00
25	.2639E 00	-.1332E 01	-.2608E 01	-.1144E 01	.1103E 02	.2905E 01	.6927E 00
30	.1640E 00	-.1808E 01	-.3178E 01	-.7280E 00	.4769E 01	.4674E 01	.1114E 01
35	.1005E 00	-.2298E 01	-.2668E 01	-.3451E 00	.4387E 01	.7628E 01	.1819E 01
40	.7037E-01	-.2654E 01	-.2981E 01	-.2388E 00	.1219E 01	.1089E 02	.2597E 01
45	.4954E-01	-.3005E 01	-.3239E 01	-.1641E 00	.8555E 00	.1547E 02	.3690E 01
50	.3521E-01	-.3346E 01	-.2311E 01	-.7977E-01	.9645E 00	.2177E 02	.5191E 01
55	.2825E-01	-.3567E 01	-.3486E 01	-.8471E-01	-.5663E-01	.2713E 02	.6469E 01
60	.2086E-01	-.3870E 01	-.3211E 01	-.5417E-01	.3500E 00	.3675E 02	.8762E 01
65	.1613E-01	-.4127E 01	-.2212E 01	-.2795E-01	.3005E 00	.4751E 02	.1133E 02
70	.1369E-01	-.4291E 01	-.4173E 01	-.3926E-01	-.1295E 00	.5598E 02	.1335E 02
75	.1027E-01	-.4579E 01	-.2393E 01	-.1684E-01	.2569E 00	.7465E 02	.1780E 02
80	.8799E-02	-.4733E 01	-.3647E 01	-.2000E-01	-.3625E-01	.8712E 02	.2077E 02
85	.7054E-02	-.4954E 01	-.2048E 01	-.8930E-02	.1269E 00	.1087E 03	.2591E 02
90	.6274E-02	-.5071E 01	-.1403E 01	-.5252E-02	.4215E-01	.1222E 03	.2913E 02
95	.5816E-02	-.5147E 01	-.3320E 01	-.1043E-01	-.5939E-01	.1318E 03	.3143E 02
100	.4905E-02	-.5317E 01	-.1553E 01	-.4101E-02	.7258E-01	.1563E 03	.3726E 02
105	.4547E-02	-.5393E 01	-.3016E 01	-.6821E-02	-.3117E-01	.1686E 03	.4020E 02
110	.3952E-02	-.5534E 01	-.1407E 01	-.2745E-02	.4671E-01	.1940E 03	.4625E 02
115	.3712E-02	-.5596E 01	-.2467E 01	-.4240E-02	-.1713E-01	.2065E 03	.4923E 02
120	.3342E-02	-.5701E 01	.6282E 00	.9950E-03	.5999E-01	.2293E 03	.5469E 02
125	.3429E-02	-.5675E 01	.1800E 01	.2074E-02	.2153E-01	.2239E 03	.5330E 02
130	.3680E-02	-.5605E 01	-.5274E 01	-.7611E-02	-.1202E 00	.2083E 03	.4967E 02
135	.3016E-02	-.5804E 01	.9036E 00	.1155E-02	.1005E 00	.2542E 03	.6061E 02
140	.3117E-02	-.5771E 01	-.9100E 00	-.1122E-02	-.2609E-01	.2460E 03	.5865E 02
145	.3019E-02	-.5803E 01	-.9420E 00	-.1087E-02	.4043E-03	.2539E 03	.6055E 02
150	.2924E-02	-.5835E 01	-.9739E 00	-.1053E-02	.3915E-03	.2622E 03	.6252E 02
155	.2832E-02	-.5867E 01	-.1006E 01	-.1020E-02	.3793E-03	.2707E 03	.6454E 02
160	.2743E-02	-.5899E 01	-.1038E 01	-.9879E-03	.3673E-03	.2795E 03	.6664E 02
165	.2657E-02	-.5931E 01	-.1070E 01	-.9568E-03	.3558E-03	.2885E 03	.6880E 02
170	.2573E-02	-.5963E 01	-.1102E 01	-.9268E-03	.3446E-03	.2979E 03	.7103E 02
175	.2492E-02	-.5995E 01	-.1134E 01	-.8976E-03	.3338E-03	.3076E 03	.7334E 02
180	.2414E-02	-.6026E 01	.0000E 00	.0000E 00	.0000E 00	.3175E 03	.7572E 02

S.AT= .7665E 00 30/45= .3311E 01 45/135= .1643E 02 SCAT30-130= .1828E 00

101/2 18 XI 63 2100H CELL=1

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
0	.5273E 01	.1663E 01	-.1530E 00	-.3202E 02	.0000E 00	.1145E 00	.2415E-01
5	.2479E 01	.9078E 00	-.1018E 01	-.1438E 02	.2022E 03	.2439E 00	.5138E-01
10	.1224E 01	.2023E 00	-.1618E 01	-.6749E 01	.9740E 02	.4938E 00	.1040E 00
15	.6353E 00	-.4536E 00	-.2108E 01	-.3311E 01	.1940E 02	.9515E 00	.2005E 00
20	.3444E 00	-.1066E 01	-.2498E 01	-.1695E 01	.1851E 02	.1745E 01	.3677E 00
25	.1905E 00	-.1617E 01	-.2815E 01	-.9113E 00	.8965E 01	.3046E 01	.6418E 00
30	.1108E 00	-.2130E 01	-.3148E 01	-.5234E 00	.4465E 01	.5089E 01	.1072E 01
35	.7312E-01	-.2616E 01	-.2920E 01	-.2705E 00	.2897E 01	.8267E 01	.1742E 01
40	.4951E-01	-.3006E 01	-.2595E 01	-.1882E 00	.1173E 01	.1221E 02	.2573E 01
45	.3484E-01	-.3357E 01	-.3147E 01	-.1127E 00	.6360E 00	.1735E 02	.3656E 01
50	.2500E-01	-.3689E 01	-.3621E 01	-.8367E-01	.1323E 00	.2418E 02	.5094E 01
55	.1770E-01	-.4034E 01	-.2749E 01	-.4371E-01	.4574E 00	.3415E 02	.7193E 01
60	.1389E-01	-.4277E 01	-.3574E 01	-.3955E-01	.4726E-01	.4353E 02	.9172E 01
65	.1043E-01	-.4563E 01	-.2261E 01	-.1844E-01	.2423E 00	.5794E 02	.1221E 02
70	.9826E-02	-.4730E 01	-.3363E 01	-.2036E-01	-.2862E-01	.6651E 02	.1466E 02
75	.6996E-02	-.4962E 01	-.3264E 01	-.1525E-01	.6519E-01	.8640E 02	.1821E 02
80	.5665E-02	-.5173E 01	-.2346E 01	-.5586E-02	.7630E-01	.1067E 03	.2248E 02
85	.4916E-02	-.5315E 01	-.2250E 01	-.6798E-02	.7049E-01	.1230E 03	.2591E 02
90	.4323E-02	-.5444E 01	-.2772E 01	-.6774E-02	.2766E-03	.1396E 03	.2946E 02
95	.3732E-02	-.5591E 01	-.1149E 01	-.2458E-02	.4957E-01	.1620E 03	.3413E 02
100	.3518E-02	-.5650E 01	-.2126E 01	-.3971E-02	-.1747E-01	.1718E 03	.3620E 02
105	.3171E-02	-.5754E 01	-.1360E 01	-.2772E-02	.1555E-01	.1906E 03	.4016E 02
110	.2917E-02	-.5817E 01	-.7371E 00	-.1072E-02	.1327E-01	.2031E 03	.4278E 02
115	.2884E-02	-.5849E 01	-.1878E 01	-.7564E-02	-.1712E-01	.2096E 03	.4417E 02
120	.2660E-02	-.5930E 01	.3796E-01	.9703E-04	.1050E-01	.2273E 03	.4789E 02
125	.2668E-02	-.5926E 01	-.1877E 00	-.7217E-03	-.3675E-02	.2266E 03	.4774E 02
130	.2669E-02	-.5934E 01	-.2012E 01	-.2266E-02	-.2118E-01	.2282E 03	.4809E 02
135	.2453E-02	-.6011E 01	-.4527E 00	-.4580E-03	.2068E-01	.2465E 03	.5193E 02
140	.2413E-02	-.6027E 01	-.5360E 00	-.4915E-03	.4450E-02	.2505E 03	.5279E 02
145	.2335E-02	-.6060E 01	-.7668E 00	-.8671E-03	.3294E-03	.2589E 03	.5455E 02
150	.2260E-02	-.6093E 01	-.9396E 00	-.8369E-03	.3188E-03	.2675E 03	.5637E 02
155	.2187E-02	-.6125E 01	-.1032E 01	-.8040E-03	.3645E-03	.2764E 03	.5825E 02
160	.2116E-02	-.6158E 01	-.1065E 01	-.7819E-03	.2595E-03	.2856E 03	.6019E 02
165	.2048E-02	-.6191E 01	-.1098E 01	-.7567E-03	.2689E-03	.2952E 03	.6219E 02
170	.1982E-02	-.6224E 01	-.1111E 01	-.7373E-03	.2796E-03	.3050E 03	.6426E 02
175	.1918E-02	-.6256E 01	-.1163E 01	-.7087E-03	.2706E-03	.3152E 03	.6641E 02
180	.1856E-02	-.6283E 01	.0000E 00	.0000E 00	.0000E 00	.3257E 03	.6862E 02

S.AT= .6065E 00 30/45= .3410E 01 45/135= .1420E 02 SCAT30-130= .1274E 00

CR 101/3 18 XI 63 2215H CELL=1

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
0	.3893E 01	.1359E 01	-.1825E 00	-.2274E 02	.0000E 00	.1315E 00	.3132E-01
5	.1907E 01	.6454E 00	-.9630E 00	-.1064E 02	.1388E 03	.2683E 00	.6395E-01
10	.9781E 00	-.2210E-01	-.1532E 01	-.5193E 01	.6250E 02	.5230E 00	.1247E 00
15	.5255E 00	-.6434E 00	-.1999E 01	-.2634E 01	.2926E 02	.9735E 00	.2321E 00
20	.2957E 00	-.1219E 01	-.2320E 01	-.1392E 01	.1623E 02	.1730E 01	.4126E 00
25	.1742E 00	-.1747E 01	-.2753E 01	-.7879E 00	.6913E 01	.2936E 01	.7000E 00
30	.1055E 00	-.2249E 01	-.2684E 01	-.4034E 00	.4338E 01	.4851E 01	.1156E 01
35	.6973E-01	-.2663E 01	-.3043E 01	-.2668E 00	.1634E 01	.7337E 01	.1749E 01
40	.4666E-01	-.3070E 01	-.3141E 01	-.1666E 00	.1121E 01	.1101E 02	.2626E 01
45	.3208E-01	-.3440E 01	-.2572E 01	-.8727E-01	.8860E 00	.1595E 02	.3801E 01
50	.2446E-01	-.3711E 01	-.3466E 01	-.7867E-01	.1608E 00	.2091E 02	.4986E 01
55	.1762E-01	-.4039E 01	-.2768E 01	-.4321E-01	.4041E 00	.2904E 02	.6922E 01
60	.1385E-01	-.4280E 01	-.3503E 01	-.3679E-01	.5153E-01	.3695E 02	.8807E 01
65	.1046E-01	-.4560E 01	-.2764E 01	-.2220E-01	.1901E 00	.4890E 02	.1166E 02
70	.8523E-02	-.4765E 01	-.3105E 01	-.1683E-01	.3864E-01	.6002E 02	.1431E 02
75	.6879E-02	-.4979E 01	-.3098E 01	-.1429E-01	.5209E-01	.7436E 02	.1773E 02
80	.5633E-02	-.5178E 01	-.3144E 01	-.1120E-01	.3536E-01	.9082E 02	.2165E 02
85	.4695E-02	-.5370E 01	-.2333E 01	-.6660E-02	.5202E-01	.1090E 03	.2620E 02
90	.4074E-02	-.5503E 01	-.1719E 01	-.4143E-02	.2884E-01	.1256E 03	.2973E 02
95	.3712E-02	-.5596E 01	-.1662E 01	-.3476E-02	.7650E-02	.1378E 03	.3283E 02
100	.3409E-02	-.5651E 01	-.1653E 01	-.2673E-02	.3203E-02	.1501E 03	.3577E 02
105	.3176E-02	-.5752E 01	-.1342E 01	-.2042E-02	.7221E-02	.1611E 03	.3840E 02
110	.2998E-02	-.5810E 01	-.9468E 00	-.1638E-02	.6931E-02	.1707E 03	.4068E 02
115	.2872E-02	-.5853E 01	-.1054E 01	-.1443E-02	-.6662E-04	.1781E 03	.4246E 02
120	.2746E-02	-.5898E 01	-.2178E 00	-.2010E-03	.1976E-01	.1863E 03	.4441E 02
125	.2771E-02	-.5889E 01	-.8077E 00	-.9900E-03	-.1457E-01	.1846E 03	.4401E 02
130	.2684E-02	-.5920E 01	-.3362E 00	-.4422E-03	.6271E-02	.1906E 03	.4543E 02
135	.2646E-02	-.5935E 01	-.5237E 00	-.5714E-03	-.1474E-02	.1934E 03	.4609E 02
140	.2596E-02	-.5954E 01	-.5329E 00	-.5511E-03	.2326E-03	.1971E 03	.4698E 02
145	.2548E-02	-.5973E 01	-.5516E 00	-.5609E-03	.1170E-03	.2008E 03	.4786E 02
150	.2500E-02	-.5991E 01	-.5703E 00	-.5309E-03	.1144E-04	.2046E 03	.4877E 02
155	.2454E-02	-.6010E 01	-.5990E 00	-.5210E-03	.1127E-03	.2084E 03	.4969E 02
160	.2409E-02	-.6029E 01	-.6077E 00	-.5114E-03	.1106E-03	.2124E 03	.5063E 02
165	.2364E-02	-.6047E 01	-.6264E 00	-.5019E-03	.1086E-03	.2164E 03	.5159E 02
170	.2320E-02	-.6066E 01	-.6452E 00	-.4926E-03	.1065E-03	.2205E 03	.5256E 02
175	.2277E-02	-.6085E 01	-.6639E 00	-.4835E-03	.1046E-03	.2246E 03	.5355E 02
180	.2235E-02	-.6103E 01	.0000E 00	.0000E 00	.0000E 00	.2288E 03	.5456E 02

S.AT= .5116E 00 30/45= .3287E 01 45/135= .1213E 02 SCAT30-130= .1219E 00

101/4 19 XI 63 0000H CELL=1

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
0	.1669E 01	.5123E 00	-.1322E 00	-.7722E 01	.0000E 00	.2295E 00	.7122E-01
5	.9952E 00	-.4854E-02	-.7171E 00	-.4467E 01	.3731E 02	.3849E 00	.1194E 00
10	.6054E 00	-.5019E 00	-.1176E 01	-.2632E 01	.2103E 02	.6327E 00	.1963E 00
15	.3757E 00	-.9790E 00	-.1589E 01	-.1579E 01	.1206E 02	.1019E 01	.3164E 00
20	.2379E 00	-.1436E 01	-.1950E 01	-.9650E 00	.7038E 01	.1610E 01	.4997E 00
25	.1537E 00	-.1873E 01	-.2311E 01	-.6034E 00	.4120E 01	.2492E 01	.7735E 00
30	.1008E 00	-.2294E 01	-.2671E 01	-.3900E 00	.2568E 01	.3798E 01	.1179E 01
35	.6681E-01	-.2706E 01	-.2875E 01	-.2466E 00	.1713E 01	.5733E 01	.1779E 01
40	.4582E-01	-.3083E 01	-.2816E 01	-.1481E 00	.1059E 01	.8359E 01	.2594E 01
45	.3289E-01	-.3414E 01	-.3461E 01	-.1152E 00	.3777E 00	.1164E 02	.3614E 01
50	.2204E-01	-.3772E 01	-.2614E 01	-.5773E-01	.6504E 00	.1677E 02	.5204E 01
55	.1780E-01	-.4028E 01	-.3449E 01	-.5299E-01	.5541E-01	.2151E 02	.6676E 01
60	.1319E-01	-.4328E 01	-.2741E 01	-.2978E-01	.2627E 00	.2906E 02	.9013E 01
65	.1057E-01	-.4549E 01	-.3226E 01	-.2576E-01	.4815E-01	.3627E 02	.1124E 02
70	.8325E-02	-.4788E 01	-.2569E 01	-.1539E-01	.1183E 00	.4601E 02	.1428E 02
75	.6982E-02	-.4964E 01	-.3714E 01	-.1705E-01	-.1510E-01	.5485E 02	.1702E 02
80	.5496E-02	-.5204E 01	-.3303E 01	-.1088E-01	.7168E-01	.6971E 02	.2163E 02
85	.4552E-02	-.5392E 01	-.1930E 01	-.5447E-02	.5130E-01	.8414E 02	.2611E 02
90	.4077E-02	-.5502E 01	-.3033E 01	-.7068E-02	-.1854E-01	.9395E 02	.2916E 02
95	.3460E-02	-.5666E 01	-.1689E 01	-.3290E-02	.4327E-01	.1107E 03	.3435E 02
100	.3173E-02	-.5753E 01	-.2006E 01	-.3387E-02	-.1117E-02	.1207E 03	.3746E 02
105	.2878E-02	-.5851E 01	-.6602E 00	-.9973E-03	.2739E-01	.1331E 03	.4131E 02
110	.2791E-02	-.5882E 01	-.1589E 01	-.2181E-02	-.1356E-01	.1373E 03	.4260E 02
115	.2600E-02	-.5952E 01	-.9446E 00	-.1174E-02	.1153E-01	.1473E 03	.4571E 02
120	.2498E-02	-.5992E 01	-.1694E 01	-.1913E-02	-.8463E-02	.1533E 03	.4759E 02
125	.2331E-02	-.6062E 01	.8793E 00	.9372E-03	.3266E-01	.1643E 03	.5100E 02
130	.2413E-02	-.6027E 01	-.3248E 01	-.3190E-02	-.4729E-01	.1588E 03	.4927E 02
135	.2134E-02	-.6150E 01	-.4035E 00	-.3562E-03	.3247E-01	.1795E 03	.5569E 02
140	.2103E-02	-.6164E 01	-.1224E 01	-.1013E-02	-.7529E-02	.1821E 03	.5652E 02
145	.2015E-02	-.6207E 01	-.1267E 01	-.9707E-03	.4881E-03	.1901E 03	.5900E 02
150	.1930E-02	-.6250E 01	-.1310E 01	-.9298E-03	.4678E-03	.1985E 03	.6159E 02
155	.1849E-02	-.6293E 01	-.1353E 01	-.8908E-03	.4480E-03	.2072E 03	.6429E 02
160	.1771E-02	-.6336E 01	-.1396E 01	-.8533E-03	.4292E-03	.2162E 03	.6711E 02
165	.1697E-02	-.6379E 01	-.1439E 01	-.8174E-03	.4111E-03	.2257E 03	.7006E 02
170	.1625E-02	-.6422E 01	-.1482E 01	-.7831E-03	.3938E-03	.2356E 03	.7313E 02
175	.1557E-02	-.6465E 01	-.1525E 01	-.7501E-03	.3772E-03	.2460E 03	.7634E 02
180	.1492E-02	-.6508E 01	.0000E 00	.0000E 00	.0000E 00	.2568E 03	.7969E 02

S.AT= .3830E 00 30/45= .3066E 01 45/135= .1541E 02 SCAT30-130= .1189E 00

CR 101/5 19 XI 63 0300H CELL=1

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2757E 01	.1014E 01	[illegible]	-.1620E 02	.0000E 00	.1221E 00	.2538E-01
5	.1343E 01	.2950E 00	-.9756E 00	-.7583E 01	.9878E 02	.2507E 00	.5210E-01
10	[illegible]	-.3836E 00	-.1574E 01	-.3683E 01	.4469E 02	.4941E 00	.1027E 00
15	.3660E 00	-.1022E 01	-.2077E 01	-.1855E 01	.2094E 02	.9353E 00	.1944E 00
20	.1981E 00	-.1619E 01	-.2495E 01	-.9692E 00	.1016E 02	.1700E 01	.3533E 00
25	.1135E 00	-.2176E 01	-.2806E 01	-.5208E 00	.5138E 01	.2966E 01	.6165E 00
30	.6806E-01	-.2687E 01	-.3431E 01	-.3203E 00	.2290E 01	.4947E 01	.1028E 01
35	.4010E-01	-.3216E 01	-.2948E 01	-.1496E 00	.1957E 01	.8395E 01	.1745E 01
40	.2705E-01	-.3610E 01	-.3240E 01	-.9834E-01	.5868E 00	.1245E 02	.2586E 01
45	.1847E-01	-.3992E 01	-.3732E 01	-.6881E-01	.3384E 00	.1823E 02	.3788E 01
50	.1247E-01	-.4385E 01	-.2679E 01	-.3219E-01	.4197E 00	.2701E 02	.5613E 01
55	.9657E-02	-.4640E 01	-.3328E 01	-.2782E-01	.5008E-01	.3486E 02	.7246E 01
60	.7229E-02	-.4930E 01	-.2779E 01	-.1652E-01	.1295E 00	.4657E 02	.9679E 01
65	.5788E-02	-.5152E 01	-.2897E 01	-.1281E-01	.4250E-01	.5818E 02	.1209E 02
70	.4669E-02	-.5367E 01	-.2844E 01	-.9534E-02	.3757E-01	.7211E 02	.1499E 02
75	.3837E-02	-.5563E 01	-.2633E 01	-.6871E-02	.3051E-01	.8774E 02	.1823E 02
80	.3238E-02	-.5733E 01	-.3536E 01	-.7158E-02	-.3289E-02	.1040E 03	.2161E 02
85	.2613E-02	-.5947E 01	-.2095E 01	-.3379E-02	.4331E-01	.1288E 03	.2678E 02
90	.2318E-02	-.6067E 01	-.1487E 01	-.2052E-02	.1520E-01	.1452E 03	.3018E 02
95	.2139E-02	-.6147E 01	-.1196E 01	-.1459E-02	.6805E-02	.1574E 03	.3271E 02
100	.2012E-02	-.6209E 01	-.8173E 00	-.9012E-03	.6387E-02	.1674E 03	.3478E 02
105	.1933E-02	-.6249E 01	-.1307E 01	-.1307E-02	-.4649E-02	.1742E 03	.3620E 02
110	.1819E-02	-.6309E 01	-.5598E-01	-.5181E-04	.1438E-01	.1851E 03	.3846E 02
115	.1815E-02	-.6312E 01	.3542E 00	.3159E-03	.4213E-02	.1855E 03	.3856E 02
120	.1842E-02	-.6297E 01	-.1985E 01	-.1643E-02	-.2245E-01	.1828E 03	.3798E 02
125	.1699E-02	-.6378E 01	.2814E 00	.2160E-03	.2130E-01	.1982E 03	.4119E 02
130	.1718E-02	-.6367E 01	-.1813E 01	-.1302E-02	-.1739E-01	.1960E 03	.4074E 02
135	.1604E-02	-.6435E 01	-.4494E 00	-.2980E-03	.1150E-01	.2099E 03	.4362E 02
140	.1578E-02	-.6452E 01	-.9023E 00	-.5636E-03	-.3044E-02	.2134E 03	.4434E 02
145	.1529E-02	-.6483E 01	-.9339E 00	-.5460E-03	.2013E-03	.2202E 03	.4577E 02
150	.1481E-02	-.6515E 01	-.9656E 00	-.5290E-03	.1950E-03	.2273E 03	.4724E 02
155	.1435E-02	-.6547E 01	-.9973E 00	-.5125E-03	.1889E-03	.2346E 03	.4876E 02
160	.1390E-02	-.6578E 01	-.1029E 01	-.4965E-03	.1830E-03	.2422E 03	.5033E 02
165	.1347E-02	-.6610E 01	-.1061E 01	-.4811E-03	.1773E-03	.2500E 03	.5195E 02
170	.1305E-02	-.6642E 01	-.1092E 01	-.4661E-03	.1718E-03	.2580E 03	.5362E 02
175	.1264E-02	-.6673E 01	-.1124E 01	-.4515E-03	.1665E-03	.2663E 03	.5534E 02
180	.1225E-02	-.6705E 01	.0000E 00	.0000E 00	.0000E 00	.2749E 03	.5712E 02

S.AT= .3367E 00 30/45= .3684E 01 45/135= .1152E 02 SCAT30-130= .6997E-01

101/6 19 XI 63 0600H CELL=1

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
0	.2748E 01	.1011E 01	-.2006E 00	-.1712E 02	.0000E 00	.1074E 00	.2221E-01
5	.1254E 01	.2261E 00	-.1055E 01	-.7453E 01	.1108E 03	.2355E 00	.4868E-01
10	.6033E 00	-.5054E 00	-.1673E 01	-.3405E 01	.5639E 02	.4893E 00	.1012E 00
15	.3061E 00	-.1184E 01	-.2173E 01	-.1631E 01	.2033E 02	.9643E 00	.1994E 00
20	.1638E 00	-.1809E 01	-.2564E 01	-.8179E 00	.9315E 01	.1802E 01	.3725E 00
25	.9246E-01	-.2381E 01	-.2924E 01	-.4378E 00	.4355E 01	.3193E 01	.6601E 00
30	.5426E-01	-.2914E 01	-.2946E 01	-.2270E 00	.2416E 01	.5441E 01	.1125E 01
35	.3445E-01	-.3368E 01	-.3151E 01	-.1356E 00	.1047E 01	.8568E 01	.1771E 01
40	.2262E-01	-.3789E 01	-.3174E 01	-.8085E-01	.6273E 00	.1305E 02	.2698E 01
45	.1557E-01	-.4163E 01	-.2771E 01	-.4516E-01	.4089E 00	.1896E 02	.3921E 01
50	.1163E-01	-.4455E 01	-.2634E 01	-.2957E-01	.1767E 00	.2539E 02	.5250E 01
55	.9045E-02	-.4706E 01	-.4010E 01	-.3053E-01	-.1096E-01	.3264E 02	.6748E 01
60	.6351E-02	-.5054E 01	-.2814E 01	-.1574E-01	.1809E 00	.4626E 02	.9566E 01
65	.5094E-02	-.5280E 01	-.2741E 01	-.1073E-01	.4599E-01	.5795E 02	.1198E 02
70	.4158E-02	-.5483E 01	-.2824E 01	-.8434E-02	.2632E-01	.7100E 02	.1468E 02
75	.3422E-02	-.5678E 01	-.2808E 01	-.6499E-02	.2217E-01	.8628E 02	.1784E 02
80	.2855E-02	-.5859E 01	-.2564E 01	-.4709E-02	.2051E-01	.1036E 03	.2138E 02
85	.2443E-02	-.6014E 01	-.2365E 01	-.3540E-02	.1340E-01	.1208E 03	.2498E 02
90	.2135E-02	-.6150E 01	-.2066E 01	-.2585E-02	.1094E-01	.1383E 03	.2859E 02
95	.1909E-02	-.6261E 01	-.9843E 00	-.1077E-02	.1728E-01	.1546E 03	.3197E 02
100	.1815E-02	-.6312E 01	-.9563E 00	-.9681E-03	.1676E-02	.1627E 03	.3363E 02
105	.1732E-02	-.6358E 01	-.9434E 00	-.8523E-03	.1078E-02	.1704E 03	.3524E 02
110	.1658E-02	-.6402E 01	-.2578E 00	-.2165E-03	.7285E-02	.1781E 03	.3682E 02
115	.1639E-02	-.6414E 01	.8451E 00	.7293E-03	.1084E-01	.1801E 03	.3724E 02
120	.1703E-02	-.6376E 01	-.5432E 00	-.4281E-03	-.1326E-01	.1739E 03	.3595E 02
125	.1665E-02	-.6398E 01	-.4317E-01	-.3229E-04	.4539E-02	.1773E 03	.3665E 02
130	.1662E-02	-.6400E 01	.7460E-01	.5371E-04	.9853E-03	.1776E 03	.3672E 02
135	.1667E-02	-.6397E 01	.1159E 00	.8069E-04	.3097E-03	.1771E 03	.3661E 02
140	.1674E-02	-.6392E 01	.2893E-01	.1563E-04	-.7013E-03	.1763E 03	.3646E 02
145	.1676E-02	-.6391E 01	.2995E-01	.1951E-04	.2755E-06	.1762E 03	.3642E 02
150	.1678E-02	-.6390E 01	.3096E-01	.1953E-04	.2292E-06	.1760E 03	.3638E 02
155	.1679E-02	-.6389E 01	.3198E-01	.1955E-04	.2389E-06	.1758E 03	.3635E 02
160	.1681E-02	-.6388E 01	.3299E-01	.1956E-04	.2026E-06	.1756E 03	.3631E 02
165	.1683E-02	-.6387E 01	.3401E-01	.1957E-04	.2408E-06	.1754E 03	.3627E 02
170	.1685E-02	-.6386E 01	.3502E-01	.1961E-04	.2408E-06	.1753E 03	.3624E 02
175	.1686E-02	-.6385E 01	.3604E-01	.1963E-04	.2139E-06	.1751E 03	.3620E 02
180	.1688E-02	-.6384E 01	.0000E 00	.0000E 00	.0000E 00	.1749E 03	.3616E 02

S.AT= .2952E 00 30/45= .3686E 01 45/135= .9338E 01 SCAT30-130= .6106E-01

CR 101/7 19 XI 63 0720H CELL=1

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
0	.2114E 01	.7486E 00	-.1357E 00	-.1251E 02	.0000E 00	.1261E 00	.2836E-01
5	.1022E 01	.2218E-01	-.9821E 00	-.5785E 01	.7704E 02	.2607E 00	.5988E-01
10	.5176E 00	-.6586E 00	-.1566E 01	-.2788E 01	.3636E 02	.5150E 00	.1183E 00
15	.2743E 00	-.1294E 01	-.2049E 01	-.1400E 01	.1591E 02	.9720E 00	.2232E 00
20	.1521E 00	-.1883E 01	-.2437E 01	-.7312E 00	.7661E 01	.1752E 01	.4025E 00
25	.8831E-01	-.2427E 01	-.2834E 01	-.4083E 00	.3700E 01	.3019E 01	.6933E 00
30	.5268E-01	-.2946E 01	-.2826E 01	-.2162E 00	.2202E 01	.5061E 01	.1162E 01
35	.3381E-01	-.3387E 01	-.3059E 01	-.1295E 00	.9881E 00	.7886E 01	.1811E 01
40	.2247E-01	-.3795E 01	-.3108E 01	-.8310E-01	.5368E 00	.1186E 02	.2726E 01
45	.1522E-01	-.4185E 01	-.2792E 01	-.5444E-01	.4430E 00	.1751E 02	.4022E 01
50	.1134E-01	-.4479E 01	-.2171E 01	-.2820E-01	.2309E 00	.2350E 02	.5398E 01
55	.9222E-02	-.4686E 01	-.3716E 01	-.2920E-01	-.5617E-01	.2891E 02	.6639E 01
60	.6674E-02	-.5010E 01	-.2513E 01	-.1393E-01	.1769E 00	.3996E 02	.9176E 01
65	.5458E-02	-.5211E 01	-.3429E 01	-.1403E-01	-.1145E-02	.4884E 02	.1122E 02
70	.4233E-02	-.5465E 01	-.2532E 01	-.7735E-02	.7173E-01	.6297E 02	.1446E 02
75	.3555E-02	-.5639E 01	-.3673E 01	-.8493E-02	-.8225E-02	.7499E 02	.1722E 02
80	.2814E-02	-.5873E 01	-.1122E 01	-.2121E-02	.7302E-01	.9475E 02	.2176E 02
85	.2628E-02	-.5941E 01	-.2650E 01	-.4234E-02	-.2421E-01	.1014E 03	.2329E 02
90	.2259E-02	-.6093E 01	-.9764E 00	-.1331E-02	.3326E-01	.1180E 03	.2710E 02
95	.2143E-02	-.6146E 01	-.1592E 01	-.1926E-02	-.6815E-02	.1244E 03	.2857E 02
100	.1975E-02	-.6227E 01	-.1310E 01	-.2014E-02	-.1006E-02	.1350E 03	.3100E 02
105	.1792E-02	-.6320E 01	-.1497E 01	-.1829E-02	.2114E-02	.1482E 03	.3403E 02
110	.1639E-02	-.6413E 01	.7744E 00	.6165E-03	.2803E-01	.1626E 03	.3735E 02
115	.1693E-02	-.6381E 01	-.2146E-01	-.1771E-04	-.7260E-02	.1574E 03	.3616E 02
120	.1692E-02	-.6382E 01	-.3106E 01	-.2302E-02	-.2623E-01	.1576E 03	.3619E 02
125	.1490E-02	-.6509E 01	-.2142E 00	-.1429E-03	.2480E-01	.1789E 03	.4108E 02
130	.1478E-02	-.6517E 01	.7429E 01	.5440E-02	.6664E-01	.1804E 03	.4143E 02
135	.1956E-02	-.6237E 01	-.1332E 01	-.2559E-02	-.9211E-01	.1363E 03	.3130E 02
140	.1733E-02	-.6358E 01	.4375E 00	.3072E-03	.3283E-01	.1538E 03	.3533E 02
145	.1760E-02	-.6343E 01	.4528E 00	.3119E-03	.5446E-04	.1515E 03	.3479E 02
150	.1787E-02	-.6327E 01	.4682E 00	.3168E-03	.5531E-04	.1492E 03	.3426E 02
155	.1815E-02	-.6312E 01	.4835E 00	.3217E-03	.5614E-04	.1469E 03	.3374E 02
160	.1843E-02	-.6297E 01	.4989E 00	.3266E-03	.5704E-04	.1447E 03	.3323E 02
165	.1871E-02	-.6281E 01	.5142E 00	.3317E-03	.5783E-04	.1425E 03	.3272E 02
170	.1900E-02	-.6266E 01	.5296E 00	.3368E-03	.5880E-04	.1403E 03	.3222E 02
175	.1930E-02	-.6250E 01	.5449E 00	.3420E-03	.5971E-04	.1382E 03	.3173E 02
180	.1959E-02	-.6235E 01	.0000E 00	.0000E 00	.0000E 00	.1361E 03	.3125E 02

S.AT= .2666E 00 30/45= .3461E 01 45/135= .7781E 01 SCAT30-130= .6123E-01

CR 101/8 19 XI 63 0830H CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.9561E 00	-.4485E-01	-.2162E 00	-.6253E 01	.0000E 00	.9520E-01	.1560E-01
5	.4105E 00	-.8905E 00	-.1127E 01	-.2550E 01	.4243E 02	.2218E 00	.4566E-01
10	.1879E 00	-.1672E 01	-.1769E 01	-.1102E 01	.1660E 02	.4846E 00	.9923E-01
15	.9173E-01	-.2389E 01	-.2269E 01	-.5035E 00	.6854E 01	.9924E 00	.2043E 00
20	.4775E-01	-.3042E 01	-.2635E 01	-.2634E 00	.2985E 01	.1906E 01	.3925E 00
25	.2651E-01	-.3630E 01	-.2352E 01	-.1231E 00	.1378E 01	.3434E 01	.7070E 00
30	.1576E-01	-.4150E 01	-.3148E 01	-.6944E-01	.6154E 00	.5776E 01	.1189E 01
35	.9700E-02	-.4636E 01	-.2956E 01	-.3525E-01	.3918E 00	.9384E 01	.1932E 01
40	.6625E-02	-.5017E 01	-.2720E 01	-.2081E-01	.1655E 00	.1374E 02	.2829E 01
45	.4909E-02	-.5317E 01	-.2774E 01	-.1396E-01	.7842E-01	.1854E 02	.3817E 01
50	.3590E-02	-.5630E 01	-.2962E 01	-.1012E-01	.4402E-01	.2536E 02	.5220E 01
55	.2707E-02	-.5912E 01	-.3120E 01	-.7375E-02	.3144E-01	.3363E 02	.6923E 01
60	.2063E-02	-.6183E 01	-.2738E 01	-.4654E-02	.3119E-01	.4412E 02	.9083E 01
65	.1657E-02	-.6403E 01	-.3292E 01	-.4111E-02	.6217E-02	.5493E 02	.1131E 02
70	.1298E-02	-.6647E 01	-.2118E 01	-.2362E-02	.1989E-01	.7011E 02	.1443E 02
75	.1092E-02	-.6820E 01	-.3035E 01	-.2726E-02	.1620E-02	.8337E 02	.1716E 02
80	.8976E-03	-.7016E 01	-.1311E 01	-.7896E-03	.1665E-01	.1014E 03	.2088E 02
85	.8287E-03	-.7096E 01	-.2139E 01	-.1093E-02	-.3476E-02	.1098E 03	.2261E 02
90	.7336E-03	-.7218E 01	-.1097E 01	-.4841E-03	.6976E-02	.1241E 03	.2555E 02
95	.6911E-03	-.7277E 01	-.6495E 00	-.2634E-03	.2529E-02	.1317E 03	.2712E 02
100	.6681E-03	-.7311E 01	-.1203E 01	-.4364E-03	-.1984E-02	.1362E 03	.2805E 02
105	.6300E-03	-.7370E 01	-.1159E 01	-.3789E-03	.6611E-03	.1445E 03	.2974E 02
110	.5970E-03	-.7424E 01	-.6450E 00	-.2081E-03	.1957E-02	.1525E 03	.3139E 02
115	.5788E-03	-.7455E 01	-.1780E 00	-.1059E-03	.1172E-02	.1573E 03	.3238E 02
120	.5696E-03	-.7471E 01	.3229E-01	.8608E-05	.1312E-02	.1598E 03	.3290E 02
125	.5703E-03	-.7469E 01	-.7135E 00	-.1618E-03	-.2182E-02	.1596E 03	.3286E 02
130	.5564E-03	-.7494E 01	-.9473E 00	-.2326E-03	-.5796E-03	.1662E 03	.3380E 02
135	.5342E-03	-.7535E 01	-.1493E 00	-.3315E-04	.2287E-02	.1704E 03	.3508E 02
140	.5313E-03	-.7540E 01	-.5340E 00	-.1146E-03	-.1154E-03	.1713E 03	.3527E 02
145	.5214E-03	-.7559E 01	-.5527E 00	-.1104E-03	.2404E-04	.1746E 03	.3594E 02
150	.5117E-03	-.7578E 01	-.5715E 00	-.1089E-03	.2359E-04	.1779E 03	.3662E 02
155	.5022E-03	-.7596E 01	-.5902E 00	-.1106E-03	.2316E-04	.1812E 03	.3731E 02
160	.4928E-03	-.7615E 01	-.6089E 00	-.1049E-03	.2272E-04	.1847E 03	.3802E 02
165	.4838E-03	-.7634E 01	-.6277E 00	-.1029E-03	.2230E-04	.1882E 03	.3874E 02
170	.4748E-03	-.7653E 01	-.6464E 00	-.1016E-03	.2190E-04	.1917E 03	.3947E 02
175	.4660E-03	-.7671E 01	-.6651E 00	-.9912E-04	.2148E-04	.1953E 03	.4022E 02
180	.4573E-03	-.7690E 01	.0000E 00	.0000E 00	.0000E 00	.1990E 03	.4098E 02

S.AT= .8103E-01 30/45= .3277E 01 45/135= .6003E 01 SCAT30-130= .1874E-01

101/9 19 XI 63 0930H CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
0	.8019E 00	-.2208E 00	-.1724E 00	-.4733E 01	.0000E 00	.1401E 00	.3630E-01
5	.3976E 00	-.9223E 00	-.9461E 00	-.2141E 01	.2798E 02	.2826E 00	.7321E-01
10	.2066E 00	-.1578E 01	-.1505E 01	-.1080E 01	.1274E 02	.5445E 00	.1411E 00
15	.1171E 00	-.2188E 01	-.1962E 01	-.5541E 00	.6076E 01	.1002E 01	.2596E 00
20	.6376E-01	-.2753E 01	-.2724E 01	-.2957E 00	.2961E 01	.1762E 01	.4565E 00
25	.3796E-01	-.3271E 01	-.2652E 01	-.1664E 00	.1477E 01	.2960E 01	.7668E 00
30	.2341E-01	-.3755E 01	-.3055E 01	-.1007E 00	.7569E 00	.4801E 01	.1244E 01
35	.1461E-01	-.4226E 01	-.2629E 01	-.4957E-01	.5863E 00	.7688E 01	.1992E 01
40	.1029E-01	-.4577E 01	-.2754E 01	-.3266E-01	.1738E 00	.1092E 02	.2829E 01
45	.7438E-02	-.4901E 01	-.3084E 01	-.2364E-01	.1033E 00	.1511E 02	.3913E 01
50	.5375E-02	-.5226E 01	-.2991E 01	-.1528E-01	.9508E-01	.2090E 02	.5415E 01
55	.4042E-02	-.5511E 01	-.2473E 01	-.8804E-02	.7418E-01	.2779E 02	.7201E 01
60	.3274E-02	-.5722E 01	-.2861E 01	-.7196E-02	.1893E-01	.3432E 02	.8892E 01
65	.2646E-02	-.5935E 01	-.2993E 01	-.6030E-02	.1336E-01	.4247E 02	.1100E 02
70	.2119E-02	-.6157E 01	-.2791E 01	-.4256E-02	.2036E-01	.5302E 02	.1373E 02
75	.1748E-02	-.6349E 01	-.9740E 00	-.1271E-02	.3476E-01	.6427E 02	.1665E 02
80	.1642E-02	-.6412E 01	-.2110E 01	-.2458E-02	-.1418E-01	.6845E 02	.1773E 02
85	.1427E-02	-.6552E 01	-.2545E 01	-.2214E-02	.2793E-02	.7873E 02	.2040E 02
90	.1239E-02	-.6699E 01	-.1397E 01	-.1029E-02	.1359E-01	.9106E 02	.2359E 02
95	.1144E-02	-.6773E 01	-.2051E 01	-.1309E-02	-.3217E-02	.9821E 02	.2544E 02
100	.1030E-02	-.6878E 01	-.6265E 00	-.3553E-03	.1093E-01	.1091E 03	.2826E 02
105	.9989E-03	-.6909E 01	-.1335E 01	-.6691E-03	-.3825E-02	.1125E 03	.2914E 02
110	.9387E-03	-.6971E 01	-.7276E 00	-.3624E-03	.3973E-02	.1197E 03	.3101E 02
115	.9089E-03	-.7003E 01	.5665E 00	.2542E-03	.6836E-02	.1236E 03	.3203E 02
120	.9310E-03	-.6979E 01	-.2781E 00	-.3759E-03	-.7220E-02	.1207E 03	.3126E 02
125	.8982E-03	-.7015E 01	-.7243E 00	-.8666E-03	-.5624E-02	.1251E 03	.3240E 02
130	.8226E-03	-.7103E 01	-.6295E 00	-.2213E-03	.7395E-02	.1366E 03	.3538E 02
135	.8033E-03	-.7127E 01	-.7875E 00	-.2599E-03	-.4470E-03	.1399E 03	.3623E 02
140	.7806E-03	-.7155E 01	-.1056E 01	-.3255E-03	-.2513E-03	.1439E 03	.3729E 02
145	.7522E-03	-.7192E 01	-.1093E 01	-.3137E-03	.1357E-03	.1494E 03	.3870E 02
150	.7248E-03	-.7230E 01	-.1130E 01	-.3023E-03	.1308E-03	.1550E 03	.4016E 02
155	.6985E-03	-.7267E 01	-.1168E 01	-.2913E-03	.1260E-03	.1609E 03	.4167E 02
160	.6730E-03	-.7304E 01	-.1205E 01	-.2807E-03	.1215E-03	.1669E 03	.4325E 02
165	.6486E-03	-.7341E 01	-.1242E 01	-.2704E-03	.1170E-03	.1732E 03	.4488E 02
170	.6250E-03	-.7379E 01	-.1279E 01	-.2606E-03	.1128E-03	.1798E 03	.4658E 02
175	.6022E-03	-.7415E 01	-.1316E 01	-.2511E-03	.1087E-03	.1866E 03	.4833E 02
180	.5803E-03	-.7452E 01	.0000E 00	.0000E 00	.0000E 00	.1936E 03	.5016E 02

S.AT= .1126E 00 30/45= .3167E 01 45/135= .9208E 01 SCAT30-130= .2911E-01

CR 101/10 19 XI 63 1040H CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1502E 01	.4070E 00	-.2260E 00	-.1010E 02	.0000E 00	.8644E-01	.1850E-01
5	.6208E 00	-.4767E 00	-.1176E 01	-.3967E 01	.7031E 02	.2092E 00	.3993E-01
10	.2747E 00	-.1292E 01	-.1843E 01	-.1657E 01	.2647E 02	.4728E 00	.9026E-01
15	.1301E 00	-.2039E 01	-.2360E 01	-.7348E 00	.1056E 02	.9981E 00	.1905E 00
20	.6599E-01	-.2718E 01	-.2736E 01	-.3456E 00	.4460E 01	.1968E 01	.3756E 00
25	.3584E-01	-.3329E 01	-.3044E 01	-.1749E 00	.1956E 01	.3624E 01	.6917E 00
30	.2057E-01	-.3884E 01	-.3175E 01	-.9125E-01	.9587E 00	.6312E 01	.1206E 01
35	.1261E-01	-.4373E 01	-.2997E 01	-.4766E-01	.4995E 00	.1030E 02	.1966E 01
40	.8452E-02	-.4773E 01	-.2774E 01	-.2699E-01	.2368E 00	.1537E 02	.2935E 01
45	.6096E-02	-.5100E 01	-.2730E 01	-.1746E-01	.1092E 00	.2130E 02	.4067E 01
50	.4572E-02	-.5388E 01	-.2831E 01	-.1239E-01	.5809E-01	.2840E 02	.5422E 01
55	.3491E-02	-.5658E 01	-.2530E 01	-.7905E-02	.5141E-01	.3720E 02	.7101E 01
60	.2801E-02	-.5878E 01	-.2804E 01	-.6452E-02	.1665E-01	.4636E 02	.8850E 01
65	.2238E-02	-.6102E 01	-.3013E 01	-.5132E-02	.1512E-01	.5803E 02	.1108E 02
70	.1790E-02	-.6325E 01	-.2485E 01	-.3232E-02	.2177E-01	.7255E 02	.1385E 02
75	.1508E-02	-.6497E 01	-.2519E 01	-.2593E-02	.7327E-02	.8612E 02	.1644E 02
80	.1282E-02	-.6660E 01	-.2278E 01	-.1895E-02	.8003E-02	.1013E 03	.1934E 02
85	.1116E-02	-.6798E 01	-.1898E 01	-.1315E-02	.6699E-02	.1163E 03	.2220E 02
90	.1002E-02	-.6906E 01	-.8269E 00	-.5019E-03	.9319E-02	.1296E 03	.2475E 02
95	.9579E-03	-.6951E 01	-.1037E 01	-.5684E-03	-.7616E-03	.1356E 03	.2588E 02
100	.9083E-03	-.7004E 01	-.6528E 00	-.3263E-03	.2774E-02	.1430E 03	.2729E 02
105	.8798E-03	-.7036E 01	-.7992E 00	-.3679E-03	-.4771E-03	.1476E 03	.2818E 02
110	.8477E-03	-.7073E 01	-.4640E 00	-.1983E-03	.1944E-02	.1532E 03	.2924E 02
115	.8304E-03	-.7094E 01	.6437E 00	.2643E-03	.5301E-02	.1564E 03	.2985E 02
120	.8535E-03	-.7066E 01	.1099E 00	.4397E-04	-.2525E-02	.1522E 03	.2906E 02
125	.8573E-03	-.7062E 01	.3515E 00	.1364E-03	.1059E-02	.1515E 03	.2892E 02
130	.8692E-03	-.7048E 01	.1225E 01	.4711E-03	.3836E-02	.1494E 03	.2852E 02
135	.9103E-03	-.7002E 01	.2572E 00	.9804E-04	-.4275E-02	.1427E 03	.2723E 02
140	.9189E-03	-.6992E 01	.5757E 00	.2149E-03	.1359E-02	.1413E 03	.2698E 02
145	.9376E-03	-.6972E 01	.5959E 00	.2192E-03	.5025E-04	.1385E 03	.2644E 02
150	.9568E-03	-.6952E 01	.6161E 00	.2237E-03	.5126E-04	.1357E 03	.2591E 02
155	.9763E-03	-.6932E 01	.6363E 00	.2283E-03	.5232E-04	.1330E 03	.2539E 02
160	.9962E-03	-.6912E 01	.6565E 00	.2329E-03	.5337E-04	.1304E 03	.2488E 02
165	.1017E-02	-.6891E 01	.6767E 00	.2377E-03	.5447E-04	.1278E 03	.2439E 02
170	.1037E-02	-.6871E 01	.6969E 00	.2425E-03	.5559E-04	.1252E 03	.2390E 02
175	.1058E-02	-.6851E 01	.7171E 00	.2475E-03	.5672E-04	.1227E 03	.2342E 02
180	.1080E-02	-.6831E 01	.0000E 00	.0000E 00	.0000E 00	.1202E 03	.2296E 02

SCAT= .1299E 00 30/45= .3375E 01 45/135= .6697E 01 SCAT30-130= .2479E-01

CR 101/11 19 XI 63 1130H CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3967E 00	-.9245E 00	-.1611E 00	-.2308E 01	.0000E 00	.1456E 00	.4059E-01
5	.1954E 00	-.1633E 01	-.9557E 00	-.1084E 01	.1402E 02	.2957E 00	.8244E-01
10	.1007E 00	-.2295E 01	-.1520E 01	-.5311E 00	.6340E 01	.5735E 00	.1599E 00
15	.5438E-01	-.2912E 01	-.1983E 01	-.2709E 00	.2982E 01	.1062E 01	.2962E 00
20	.3074E-01	-.3482E 01	-.2350E 01	-.1438E 00	.1457E 01	.1879E 01	.5239E 00
25	.1819E-01	-.4007E 01	-.2708E 01	-.8123E-01	.7165E 00	.3175E 01	.8855E 00
30	.1110E-01	-.4501E 01	-.2839E 01	-.4509E-01	.4141E 00	.5202E 01	.1450E 01
35	.7164E-02	-.4938E 01	-.3037E 01	-.2738E-01	.2029E 00	.8058E 01	.2247E 01
40	.4779E-02	-.5344E 01	-.2587E 01	-.1439E-01	.1490E 00	.1209E 02	.3370E 01
45	.3523E-02	-.5648E 01	-.3110E 01	-.1128E-01	.3557E-01	.1639E 02	.4571E 01
50	.2539E-02	-.5976E 01	-.2187E 01	-.5473E-02	.6655E-01	.2275E 02	.6345E 01
55	.2061E-02	-.6184E 01	-.2031E 01	-.3826E-02	.1888E-01	.2802E 02	.7813E 01
60	.1727E-02	-.6361E 01	-.2363E 01	-.3412E-02	.4748E-02	.3344E 02	.9324E 01
65	.1430E-02	-.6550E 01	-.2901E 01	-.3169E-02	.2776E-02	.4040E 02	.1127E 02
70	.1153E-02	-.6765E 01	-.1988E 01	-.1693E-02	.1691E-01	.5010E 02	.1397E 02
75	.1005E-02	-.6903E 01	-.8275E 00	-.5990E-03	.1254E-01	.5746E 02	.1602E 02
80	.9529E-03	-.6956E 01	-.1378E 01	-.8753E-03	-.3166E-02	.6061E 02	.1690E 02
85	.8766E-03	-.7040E 01	.4544E 00	.2643E-03	.1306E-01	.6590E 02	.1837E 02
90	.8996E-03	-.7014E 01	-.4091E 00	-.2255E-03	-.5613E-02	.6421E 02	.1790E 02
95	.8799E-03	-.7036E 01	-.7901E 00	-.4005E-03	-.2005E-02	.6564E 02	.1830E 02
100	.8450E-03	-.7076E 01	-.1595E 00	-.7508E-04	.3729E-02	.6836E 02	.1906E 02
105	.8384E-03	-.7084E 01	-.1134E 01	-.4937E-03	-.4797E-02	.6889E 02	.1921E 02
110	.7954E-03	-.7137E 01	-.1117E 01	-.4415E-03	.5983E-03	.7262E 02	.2025E 02
115	.7568E-03	-.7186E 01	.3799E 01	.1522E-02	.2250E-01	.7632E 02	.2128E 02
120	.8897E-03	-.7025E 01	.1014E 01	.4309E-03	-.1250E-01	.6493E 02	.1810E 02
125	.9273E-03	-.6983E 01	-.2398E 01	-.1178E-02	-.1844E-01	.6229E 02	.1737E 02
130	.8245E-03	-.7101E 01	.4980E 00	.1793E-03	.1555E-01	.7006E 02	.1953E 02
135	.8401E-03	-.7082E 01	.1310E 01	.4697E-03	.3328E-02	.6876E 02	.1917E 02
140	.8811E-03	-.7034E 01	.3779E 00	.1348E-03	-.3838E-02	.6556E 02	.1828E 02
145	.8929E-03	-.7021E 01	.3912E 00	.1364E-03	.2062E-04	.6469E 02	.1804E 02
150	.9048E-03	-.7008E 01	.4045E 00	.1384E-03	.2090E-04	.6384E 02	.1780E 02
155	.9169E-03	-.6995E 01	.4177E 00	.1403E-03	.2117E-04	.6300E 02	.1757E 02
160	.9291E-03	-.6981E 01	.4310E 00	.1421E-03	.2146E-04	.6217E 02	.1733E 02
165	.9415E-03	-.6968E 01	.4443E 00	.1440E-03	.2175E-04	.6135E 02	.1711E 02
170	.9541E-03	-.6955E 01	.4575E 00	.1460E-03	.2203E-04	.6054E 02	.1688E 02
175	.9668E-03	-.6942E 01	.4708E 00	.1479E-03	.2233E-04	.5975E 02	.1666E 02
180	.9797E-03	-.6928E 01	.0000E 00	.0000E 00	.0000E 00	.5896E 02	.1644E 02

SCAT= .5776E-01 30/45= .3151E 01 45/135= .4194E 01 SCAT30-130= .1610E-01

CR 101/12 19 XI 63 1330H CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SI-
00	.1482E 01	.3933E 00	-.2183E 00	-.9749E 01	.0000E 00	.8854E-01	.1565E-01
5	.6310E 00	-.4604E 00	-.1145E 01	-.3961E 01	.6632E 02	.2079E 00	.3675E-01
10	.2854E 00	-.1254E 01	-.1809E 01	-.1700E 01	.2591E 02	.4598E 00	.8128E-01
15	.1370E 00	-.1988E 01	-.2341E 01	-.7695E 00	.1066E 02	.9575E 00	.1693E 00
20	.6987E-01	-.2661E 01	-.2749E 01	-.3671E 00	.4611E 01	.1878E 01	.3319E 00
25	.3783E-01	-.3275E 01	-.3232E 01	-.1930E 00	.1995E 01	.3468E 01	.6130E 00
30	.2099E-01	-.3864E 01	-.2868E 01	-.8593E-01	.1227E 01	.6251E 01	.1105E 01
35	.1349E-01	-.4306E 01	-.3803E 01	-.6154E-01	.2795E 00	.9727E 01	.1719E 01
40	.8118E-02	-.4814E 01	-.2904E 01	-.2695E-01	.3965E 00	.1616E 02	.2857E 01
45	.5766E-02	-.5156E 01	[illegible]	-.1787E-01	.1040E 00	.2275E 02	.4022E 01
50	.4206E-02	-.5471E 01	-.2739E 01	-.1108E-01	.7791E-01	.3119E 02	.5514E 01
55	.3240E-02	-.5732E 01	-.3002E 01	-.8534E-02	.2912E-01	.4050E 02	.7159E 01
60	.2495E-02	-.5993E 01	-.2982E 01	-.6671E-02	.2822E-01	.5258E 02	.9295E 01
65	.1965E-02	-.6232E 01	-.2884E 01	-.4334E-02	.1990E-01	.6676E 02	.1180E 02
70	.1587E-02	-.6446E 01	-.3494E 01	-.3896E-02	.5023E-02	.8267E 02	.1461E 02
75	.1247E-02	-.6687E 01	-.2574E 01	-.2187E-02	.1957E-01	.1052E 03	.1860E 02
80	.1056E-02	-.6853E 01	-.2144E 01	-.1475E-02	.8165E-02	.1242E 03	.2196E 02
85	.9275E-03	-.6983E 01	-.1623E 01	-.9416E-03	.6111E-02	.1415E 03	.2501E 02
90	.8453E-03	-.7076E 01	-.1728E 01	-.8642E-03	.8876E-03	.1552E 03	.2744E 02
95	.7699E-03	-.7169E 01	-.4039E 00	-.1809E-03	.7830E-02	.1704E 03	.3012E 02
100	.7541E-03	-.7190E 01	-.7488E 00	-.3100E-03	-.1479E-02	.1740E 03	.3076E 02
105	.7271E-03	-.7227E 01	-.1374E 01	-.5159E-03	-.2360E-02	.1804E 03	.3190E 02
110	.6820E-03	-.7290E 01	-.1406E 01	-.4734E-03	.4867E-03	.1924E 03	.3400E 02
115	.6407E-03	-.7353E 01	.1407E 01	.4532E-03	.1062E-01	.2048E 03	.3620E 02
120	.6803E-03	-.7293E 01	-.9262E 00	-.2892E-03	-.8507E-02	.1929E 03	.3409E 02
125	.6550E-03	-.7331E 01	-.8994E 00	-.2601E-03	.3331E-03	.2003E 03	.3541E 02
130	.6323E-03	-.7366E 01	-.1991E 01	-.5246E-03	-.3030E-02	.2075E 03	.3668E 02
135	.5865E-03	-.7441E 01	.2983E 00	.7332E-04	.6851E-02	.2237E 03	.3954E 02
140	.5929E-03	-.7430E 01	-.7116E 00	-.1676E-03	-.2760E-02	.2213E 03	.3911E 02
145	.5783E-03	-.7455E 01	-.7366E 00	-.1634E-03	.4736E-04	.2269E 03	.4010E 02
150	.5641E-03	-.7480E 01	-.7616E 00	-.1594E-03	.4619E-04	.2326E 03	.4112E 02
155	.5501E-03	-.7505E 01	-.7866E 00	-.1555E-03	.4505E-04	.2385E 03	.4216E 02
160	.5366E-03	-.7530E 01	-.8115E 00	-.1516E-03	.4394E-04	.2445E 03	.4322E 02
165	.5233E-03	-.7555E 01	-.8365E 00	-.1479E-03	.4286E-04	.2507E 03	.4432E 02
170	.5104E-03	-.7580E 01	-.8615E 00	-.1443E-03	.4180E-04	.2570E 03	.4544E 02
175	.4978E-03	-.7605E 01	-.8864E 00	-.1407E-03	.4077E-04	.2635E 03	.4659E 02
180	.4856E-03	-.7630E 01	.0000E 00	.0000E 00	.0000E 00	.2702E 03	.4776E 02

SCAT= .1312E 00 30/45= .3640E 01 45/135= .9831E 01 SCAT30-130= .2319E-01

CR 101/13 19 XI 63 1410H CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1513E 01	.4139E 00	-.2271E 00	-.1020E 02	.0000E 00	.8485E-01	.1503E-01
5	.6224E 00	-.4742E 00	-.1181E 01	[illegible]	[illegible]	[illegible]	[illegible]
10	.2745E 00	-.1293E 01	-.1848E 01	[illegible]	[illegible]	[illegible]	[illegible]
15	.1297E 00	-.2042E 01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	.6570E-01	-.2723E 01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	.3567E-01	-.3333E 01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	.2049E-01	-.3888E 01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	.1269E-01	-.4367E 01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	.8500E-02	-.4768E 01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	.6071E-02	-.5104E 01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	.4638E-02	-.5374E 01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	.3447E-02	-.5670E 01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	.2597E-02	-.5953E 01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	.2105E-02	-.6163E 01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	.1676E-02	-.6391E 01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	.1396E-02	-.6574E 01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	.1170E-02	-.6751E 01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	.9823E-03	-.6926E 01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	.9190E-03	-.6992E 01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	.8551E-03	-.7064E 01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	.8027E-03	-.7128E 01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	.7549E-03	-.7189E 01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	.7504E-03	-.7195E 01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	.7122E-03	-.7247E 01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	.7588E-03	-.7184E 01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	.7582E-03	-.7185E 01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	.7091E-03	-.7251E 01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	.6978E-03	-.7268E 01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	.7044E-03	-.7258E 01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	.6968E-03	-.7269E 01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	.6892E-03	-.7280E 01	-.3315E 00	-.8538E-04	.1069E-04	[illegible]	[illegible]
155	.6818E-03	-.7291E 01	-.3424E 00	-.8446E-04	.1057E-04	.1883E 03	.3512E 02
160	.6744E-03	-.7302E 01	-.3532E 00	-.8355E-04	.1047E-04	.1903E 03	.3550E 02
165	.6671E-03	-.7313E 01	-.3641E 00	-.8265E-04	.1036E-04	.1924E 03	.3589E 02
170	.6599E-03	-.7323E 01	-.3750E 00	-.8179E-04	.1025E-04	.1945E 03	.3628E 02
175	.6528E-03	-.7334E 01	-.3859E 00	-.8087E-04	.1012E-04	.1966E 03	.3668E 02
180	.6457E-03	-.7345E 01	.0000E 00	.0000E 00	.0000E 00	.1988E 03	.3708E 02

SCAT= .1284E 00 30/45= .3376E 01 45/135= .8701E 01 SCAT30-130= .2594E-01

CR 101/14 19 XI 63 1510H CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	.5733E-03	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	.5630E-03	-.7482E 01	-.5703E 00	-.1158E-03	.2423E-04	.1445E 03	[illegible]
160	.5529E-03	-.7500E 01	-.5884E 00	-.1137E-03	.2381E-04	.1472E 03	.3721E 02
165	.5429E-03	-.7518E 01	-.6045E 00	-.1116E-03	.2337E-04	.1498E 03	.3779E 02
170	.5332E-03	-.7537E 01	-.6246E 00	-.1096E-03	.2295E-04	.1526E 03	.3848E 02
175	.5236E-03	-.7555E 01	-.6428E 00	-.1077E-03	.2255E-04	.1554E 03	.3918E 02
180	.5142E-03	-.7573E 01	.0000E 00	.0000E 00	.0000E 00	.1582E 03	.3990E 02

SCAT= .8135E-01 30/45= .3310E 01 45/135= .8927E 01 SCAT30-130= .2052E-01

CR 101/15 19 XI 63 1605H CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/S
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	.5512E-03	-.7503E 01	-.4325E 00	-.8613E-04	.1364E-04	.2307E 03	.3627E 02
160	.5437E-03	-.7517E 01	-.4462E 00	-.8496E-04	.1346E-04	.2339E 03	.3667E 02
165	.5363E-03	-.7531E 01	-.4599E 00	-.8380E-04	.1328E-04	.2372E 03	.3718E 02
170	.5290E-03	-.7545E 01	-.4737E 00	-.8266E-04	.1309E-04	.2404E 03	.3769E 02
175	.5217E-03	-.7558E 01	-.4874E 00	-.8153E-04	.1292E-04	.2438E 03	.3821E 02
180	.5146E-03	-.7572E 01	.0000E 00	.0000E 00	.0000E 00	.2471E 03	.3874E 02

SCAT= .1272E 00 30/45= .3645E 01 45/135= .8981E 01 SCAT30-130= .1994E-01

101/16 19 XI 63 1630H CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1678E 01	.5176E 00	-.2313E 00	-.1165E 02	.0000E 00	.8079E-01	.1438E-01
5	.6788E 00	-.3874E 00	-.1202E 01	-.4398E 01	.9076E 02	.1997E 00	.3555E-01
10	.2950E 00	-.1221E 01	-.1879E 01	-.1603E 01	.2976E 02	.4596E 00	.8180E-01
15	.1377E 00	-.1982E 01	-.2399E 01	-.7869E 00	.1164E 02	.9841E 00	.1752E 00
20	.6906E-01	-.2673E 01	-.2773E 01	-.3652E 00	.4833E 01	.1963E 01	.3494E 00
25	.3720E-01	-.3292E 01	-.2982E 01	-.1788E 00	.2136E 01	.3644E 01	.6488E 00
30	.2160E-01	-.3835E 01	-.3321E 01	-.9915E-01	.9123E 00	.6276E 01	.1117E 01
35	.1294E-01	-.4347E 01	-.2837E 01	-.4678E-01	.6001E 00	.1047E 02	.1864E 01
40	.8862E-02	-.4726E 01	-.2670E 01	-.2761E-01	.2220E 00	.1529E 02	.2723E 01
45	.6471E-02	-.5040E 01	-.2792E 01	-.1890E-01	.9750E-01	.2095E 02	.3729E 01
50	.4822E-02	-.5335E 01	-.3640E 01	-.1565E-01	.3955E-01	.2811E 02	.5005E 01
55	.3474E-02	-.5663E 01	-.3291E 01	-.9911E-02	.6343E-01	.3902E 02	.6947E 01
60	.2609E-02	-.5949E 01	-.3116E 01	-.6539E-02	.3795E-01	.5196E 02	.9251E 01
65	.2033E-02	-.6198E 01	-.2639E 01	-.4119E-02	.2820E-01	.6668E 02	.1187E 02
70	.1672E-02	-.6394E 01	-.2926E 01	-.3499E-02	.7324E-02	.8108E 02	.1444E 02
75	.1366E-02	-.6596E 01	-.2606E 01	-.2474E-02	.1233E-01	.9920E 02	.1766E 02
80	.1155E-02	-.6764E 01	-.2930E 01	-.2154E-02	.3093E-02	.1176E 03	.2090E 02
85	.9669E-03	-.6941E 01	-.1854E 01	-.1114E-02	.1191E-01	.1402E 03	.2496E 02
90	.8697E-03	-.7047E 01	-.9368E 00	-.4922E-03	.7126E-02	.1559E 03	.2775E 02
95	.8267E-03	-.7098E 01	-.1964E 01	-.9079E-03	-.4763E-02	.1640E 03	.2919E 02
100	.7475E-03	-.7199E 01	-.1671E 01	-.6205E-03	.2720E-02	.1813E 03	.3229E 02
105	.6890E-03	-.7280E 01	-.5463E 00	-.1981E-03	.5414E-02	.1967E 03	.3503E 02
110	.6717E-03	-.7306E 01	-.1208E 00	-.4120E-04	.1798E-02	.2018E 03	.3593E 02
115	.6681E-03	-.7311E 01	-.2107E 00	-.6834E-04	-.3110E-03	.2029E 03	.3612E 02
120	.6621E-03	-.7320E 01	-.1617E 01	-.4842E-03	-.6771E-02	.2047E 03	.3645E 02
125	.6198E-03	-.7386E 01	-.1711E 01	-.4610E-03	.2713E-03	.2187E 03	.3894E 02
130	.5796E-03	-.7453E 01	-.8066E 00	-.1581E-03	.3001E-02	.2338E 03	.4164E 02
135	.5622E-03	-.7484E 01	-.1355E 01	-.3097E-03	-.1267E-02	.2411E 03	.4292E 02
140	.5352E-03	-.7533E 01	-.1363E 01	-.2863E-03	.2676E-03	.2533E 03	.4509E 02
145	.5102E-03	-.7581E 01	-.1410E 01	-.2730E-03	.1532E-03	.2657E 03	.4730E 02
150	.4864E-03	-.7629E 01	-.1458E 01	-.2602E-03	.1466E-03	.2787E 03	.4962E 02
155	.4637E-03	-.7676E 01	-.1506E 01	-.2481E-03	.1392E-03	.2923E 03	.5205E 02
160	.4420E-03	-.7724E 01	-.1554E 01	-.2366E-03	.1327E-03	.3067E 03	.5460E 02
165	.4214E-03	-.7772E 01	-.1602E 01	-.2254E-03	.1265E-03	.3217E 03	.5727E 02
170	.4017E-03	-.7820E 01	-.1649E 01	-.2149E-03	.1206E-03	.3374E 03	.6008E 02
175	.3830E-03	-.7868E 01	-.1697E 01	-.2049E-03	.1150E-03	.3539E 03	.6302E 02
180	.3651E-03	-.7915E 01	.0000E 00	.0000E 00	.0000E 00	.3713E 03	.6610E 02

SCAT= .1355E 00 30/45= .3324E 01 45/135= .1181E 02 SCAT30-130= .2413E-01

CR 101/17 19 XI 63 1710H CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2007E 01	.6968E 00	-.2345E 00	-.1381E 02	.0000E 00	.7460E-01	.1113E-01
5	.8022E 00	-.2204E 00	-.1229E 01	-.5270E 01	.9786E 02	.1869E 00	.2786E-01
10	.3623E 00	-.1072E 01	-.1939E 01	-.2135E 01	.3592E 02	.4380E 00	.6530E-01
15	.1559E 00	-.1858E 01	-.2505E 01	-.9177E 00	.1395E 02	.9613E 00	.1433E 00
20	.7586E-01	-.2579E 01	-.2936E 01	-.4178E 00	.5729E 01	.1976E 01	.2947E 00
25	.3940E-01	-.3234E 01	-.3261E 01	-.2024E 00	.2468E 01	.3805E 01	.5673E 00
30	.2176E-01	-.3829E 01	-.3688E 01	-.1036E 00	.1132E 01	.6896E 01	.1028E 01
35	.1270E-01	-.4366E 01	-.3324E 01	-.5215E-01	.5897E 00	.1181E 02	.1760E 01
40	.8145E-02	-.4810E 01	-.3410E 01	-.3087E-01	.2638E 00	.1840E 02	.2744E 01
45	.5451E-02	-.5212E 01	-.3128E 01	-.1754E-01	.1528E 00	.2750E 02	.4100E 01
50	.3921E-02	-.5542E 01	-.3021E 01	-.1124E-01	.7216E-01	.3824E 02	.5701E 01
55	.2940E-02	-.5829E 01	-.2849E 01	-.7396E-02	.4406E-01	.5100E 02	.7604E 01
60	.2294E-02	-.6077E 01	-.2819E 01	-.5311E-02	.2389E-01	.6535E 02	.9743E 01
65	.1831E-02	-.6303E 01	-.2897E 01	-.4053E-02	.1442E-01	.8189E 02	.1221E 02
70	.1477E-02	-.6518E 01	-.3025E 01	-.3149E-02	.9900E-02	.1015E 03	.1513E 02
75	.1199E-02	-.6726E 01	-.2758E 01	-.1863E-02	.1519E-01	.1251E 03	.1865E 02
80	.1036E-02	-.6872E 01	-.3999E 01	-.1355E-02	.5815E-02	.1447E 03	.2157E 02
85	.9179E-03	-.6993E 01	-.1303E 01	-.7547E-03	.6882E-02	.1633E 03	.2435E 02
90	.8521E-03	-.7068E 01	-.1815E 01	-.9128E-03	-.1812E-02	.1759E 03	.2623E 02
95	.7724E-03	-.7166E 01	-.4807E 00	-.2156E-03	.7790E-02	.1941E 03	.2894E 02
100	.7536E-03	-.7191E 01	-.7128E 00	-.3276E-03	-.1286E-02	.1989E 03	.2966E 02
105	.7250E-03	-.7229E 01	-.9885E-01	-.3812E-04	.3318E-02	.2068E 03	.3083E 02
110	.7217E-03	-.7234E 01	-.9319E 00	-.3565E-03	-.3668E-02	.2077E 03	.3097E 02
115	.6906E-03	-.7278E 01	-.2869E-01	-.9657E-05	.3475E-02	.2171E 03	.3237E 02
120	.6897E-03	-.7279E 01	-.2101E-01	-.6774E-05	.3301E-05	.2173E 03	.3241E 02
125	.6891E-03	-.7280E 01	-.5446E 00	-.1669E-03	-.1835E-02	.2175E 03	.3243E 02
130	.6744E-03	-.7301E 01	-.1270E 01	-.3617E-03	-.2232E-02	.2222E 03	.3313E 02
135	.6430E-03	-.7349E 01	.9816E-01	.2635E-04	.4447E-02	.2331E 03	.3476E 02
140	.6453E-03	-.7346E 01	-.5700E 00	-.1209E-03	-.1688E-02	.2323E 03	.3464E 02
145	.6348E-03	-.7367E 01	-.4865E 00	-.1190E-03	.2266E-04	.2362E 03	.3521E 02
150	.6246E-03	-.7379E 01	-.5029E 00	-.1170E-03	.2230E-04	.2401E 03	.3580E 02
155	.6142E-03	-.7395E 01	-.5194E 00	-.1151E-03	.2194E-04	.2441E 03	.3639E 02
160	.6041E-03	-.7412E 01	-.5359E 00	-.1132E-03	.2157E-04	.2481E 03	.3700E 02
165	.5942E-03	-.7428E 01	-.5524E 00	-.1114E-03	.2122E-04	.2523E 03	.3761E 02
170	.5845E-03	-.7445E 01	-.5689E 00	-.1096E-03	.2089E-04	.2565E 03	.3824E 02
175	.5750E-03	-.7461E 01	-.5854E 00	-.1078E-03	.2052E-04	.2607E 03	.3888E 02
180	.5656E-03	-.7478E 01	.0000E 00	.0000E 00	.0000E 00	.2651E 03	.3952E 02

SCAT= .1499E 00 30/45= .3988E 01 45/135= .8427E 01 SCAT30-130= .2235E-01

101/18 19 XI 63 1740H CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/
00	.1660E 01	.5071E 00	-.2101E 00	-.1066E 02	.0000E 00	.7727E-01	.1305E-01
5	.7301E 00	-.3146E 00	-.1102E 01	-.4469E 01	.7096E 02	.2212E 00	.4133E-01
10	.3601E 00	-.1072E 01	-.1742E 01	-.1976E 01	.2859E 02	.4750E 00	.2302E-01
15	.1678E 00	-.1785E 01	-.2255E 01	-.9177E 00	.1210E 02	.9675E 00	.1485E 00
20	.8773E-01	-.2434E 01	-.2648E 01	-.4585E 00	.5376E 01	.1841E 01	.3606E 00
25	.4858E-01	-.3024E 01	-.3068E 01	-.2385E 00	.2407E 01	.3325E 01	.6511E 00
30	.2777E-01	-.3586E 01	-.2791E 01	-.1113E 00	.1458E 01	.5817E 01	.1139E 01
35	.1806E-01	-.4014E 01	-.3541E 01	-.7797E-01	.3817E 00	.8945E 01	.1752E 01
40	.1125E-01	-.4487E 01	-.3001E 01	-.3862E-01	.6534E 00	.1435E 02	.2811E 01
45	.7903E-02	-.4840E 01	-.2744E 01	-.2274E-01	.1795E 00	.2044E 02	.4003E 01
50	.5919E-02	-.5130E 01	-.3658E 01	-.1904E-01	.4234E-01	.2729E 02	.5344E 01
55	.4257E-02	-.5459E 01	-.2771E 01	-.1032E-01	.7999E-01	.3794E 02	.7431E 01
60	.3357E-02	-.5697E 01	-.2355E 01	-.7113E-02	.3672E-01	.4812E 02	.9424E 01
65	.2736E-02	-.5901E 01	-.2663E 01	-.5614E-02	.1718E-01	.5903E 02	.1156E 02
70	.2266E-02	-.6089E 01	-.3515E 01	-.5563E-02	.8144E-03	.7191E 02	.1408E 02
75	.1762E-02	-.6341E 01	-.2000E 01	-.2445E-02	.3550E-01	.9165E 02	.1795E 02
80	.1549E-02	-.6470E 01	-.2441E 01	-.2642E-02	.3568E-04	.1043E 03	.2042E 02
85	.1336E-02	-.6618E 01	-.1877E 01	-.1557E-02	.1014E-01	.1209E 03	.2368E 02
90	.1200E-02	-.6725E 01	-.1356E 01	-.9723E-03	.6703E-02	.1346E 03	.2636E 02
95	.1115E-02	-.6799E 01	-.1874E 01	-.1141E-02	-.1914E-02	.1448E 03	.2837E 02
100	.1016E-02	-.6892E 01	.2252E-01	.1450E-04	.1326E-01	.1590E 03	.3115E 02
105	.1017E-02	-.6891E 01	-.1522E 01	-.7963E-03	-.9291E-02	.1588E 03	.3111E 02
110	.9473E-03	-.6962E 01	-.1345E 01	-.8591E-03	-.1178E-02	.1705E 03	.3339E 02
115	.8689E-03	-.7049E 01	.3025E 00	.1290E-03	.1178E-01	.1859E 03	.3641E 02
120	.8801E-03	-.7035E 01	-.1180E 01	-.4742E-03	-.6912E-02	.1835E 03	.3594E 02
125	.8388E-03	-.7084E 01	-.2135E 01	-.7721E-03	-.3414E-02	.1926E 03	.3771E 02
130	.7716E-03	-.7167E 01	-.1176E 01	-.1173E-03	.4598E-02	.2094E 03	.4101E 02
135	.6690E-03	-.7310E 01	-.3013E 00	-.1084E-03	.1220E-01	.2414E 03	.4729E 02
140	.6595E-03	-.7324E 01	-.1466E 01	-.4749E-03	-.4266E-02	.2449E 03	.4796E 02
145	.6177E-03	-.7389E 01	-.1931E 01	-.4486E-03	.3478E-03	.2615E 03	.5121E 02
150	.5786E-03	-.7455E 01	-.1997E 01	-.4204E-03	.3257E-03	.2792E 03	.5467E 02
155	.5419E-03	-.7520E 01	-.2062E 01	-.3935E-03	.3051E-03	.2981E 03	.5837E 02
160	.5076E-03	-.7586E 01	-.2128E 01	-.3686E-03	.2858E-03	.3183E 03	.6232E 02
165	.4754E-03	-.7651E 01	-.2193E 01	-.3452E-03	.2677E-03	.3398E 03	.6654E 02
170	.4453E-03	-.7717E 01	-.2258E 01	-.3233E-03	.2507E-03	.3627E 03	.7104E 02
175	.4171E-03	-.7782E 01	-.2124E 01	-.3024E-03	.2345E-03	.3873E 03	.7585E 02
180	.3906E-03	-.7848E 01	.0000E 00	.0000E 00	.0000E 00	.4135E 03	.8098E 02

SCAT= .1615E 00 30/45= .3514E 01 45/135= .1181E 02 SCAT30-130= .2163E-01

1/19 19 XI 63 1?2?H CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

CR 101/20 19 XI 63 1440H CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3571E 01	.1273E 01	-.3040E 00	-.2040E 02	.0000E 00	.4192E-01	.3029E-02
5	.1007E 01	.8378E-01	-.1360E 01	-.8250E 01	.2315E 03	.1377E 00	.1257E-01
10	.3667E 00	-.1003E 01	-.2428E 01	-.2633E 01	.4446E 02	.4002E 00	.3720E-01
15	.1370E 00	-.1988E 01	-.3067E 01	-.9203E 00	.1962E 02	.1093E 01	.9979E-01
20	.5669E-01	-.2870E 01	-.3496E 01	-.3510E 00	.6514E 01	.2041E 01	.2412E 00
25	.2598E-01	-.3650E 01	-.3892E 01	-.1902E 00	.2311E 01	.5702E 01	.5262E 00
30	.1207E-01	-.4353E 01	-.3630E 01	-.6323E-01	.9971E 00	.1163E 02	.1062E 01
35	.7356E-02	-.4912E 01	-.3602E 01	-.3219E-01	.3587E 00	.2039E 02	.1859E 01
40	.4548E-02	-.5393E 01	-.3394E 01	-.1717E-01	.1720E 00	.3292E 02	.3007E 01
45	.3049E-02	-.5793E 01	-.2306E 01	-.7537E-02	.1104E 00	.4910E 02	.4484E 01
50	.2391E-02	-.6036E 01	-.2686E 01	-.6188E-02	.1948E-01	.6261E 02	.5710E 01
55	.1891E-02	-.6292E 01	-.2363E 01	-.3943E-02	.2079E-01	.7917E 02	.7280E 01
60	.1507E-02	-.6498E 01	-.2900E 01	-.3508E-02	.4073E-02	.9934E 02	.9072E 01
65	.1194E-02	-.6730E 01	-.2307E 01	-.2150E-02	.1047E-01	.1254E 03	.1145E 02
70	.1006E-02	-.6901E 01	-.2805E 01	-.2029E-02	.1300E-02	.1488E 03	.1360E 02
75	.8294E-03	-.7095E 01	-.2077E 01	-.1192E-02	.9500E-02	.1805E 03	.1649E 02
80	.7253E-03	-.7229E 01	-.2639E 01	-.1314E-02	-.1401E-02	.2064E 03	.1886E 02
85	.6106E-03	-.7401E 01	-.1590E 01	-.7380E-03	.6604E-02	.2452E 03	.2239E 02
90	.5462E-03	-.7512E 01	-.8149E 00	-.2698E-03	.8345E-02	.2741E 03	.2503E 02
95	.5227E-03	-.7557E 01	-.1220E 01	-.3632E-03	-.1071E-02	.2864E 03	.2616E 02
100	.4910E-03	-.7619E 01	-.2639E 00	-.7108E-04	.3339E-02	.3049E 03	.2708E 02
105	.4847E-03	-.7632E 01	-.1308E 00	-.3576E-04	.4140E-03	.3089E 03	.2821E 02
110	.4816E-03	-.7638E 01	-.1759E 01	-.4191E-03	-.4347E-02	.3109E 03	.2839E 02
115	.4454E-03	-.7717E 01	.1904E 01	.4308E-03	.9693E-02	.3362E 03	.3070E 02
120	.4830E-03	-.7636E 01	-.1072E 00	-.2418E-04	-.5213E-02	.3100E 03	.2832E 02
125	.4809E-03	-.7640E 01	-.9937E 00	-.2106E-03	-.2137E-02	.3114E 03	.2843E 02
130	.4625E-03	-.7679E 01	.6997E 00	.1418E-03	.4039E-02	.3237E 03	.2956E 02
135	.4749E-03	-.7652E 01	.4070E 00	.8015E-04	-.7067E-03	.3153E 03	.2879E 02
140	.4819E-03	-.7630E 01	.2417E 00	.4703E-04	-.3795E-03	.3107E 03	.2838E 02
145	.4860E-03	-.7629E 01	.2502E 00	.4743E-04	.4509E-05	.3081E 03	.2814E 02
150	.4901E-03	-.7621E 01	.2588E 00	.4783E-04	.4629E-05	.3055E 03	.2790E 02
155	.4943E-03	-.7612E 01	.2671E 00	.4824E-04	.4667E-05	.3029E 03	.2766E 02
160	.4985E-03	-.7604E 01	.2756E 00	.4865E-04	.4705E-05	.3004E 03	.2740E 02
165	.5027E-03	-.7595E 01	.2841E 00	.4906E-04	.4756E-05	.2978E 03	.2720E 02
170	.5070E-03	-.7587E 01	.2926E 00	.4948E-04	.4780E-05	.2953E 03	.2697E 02
175	.5113E-03	-.7579E 01	.3010E 00	.4990E-04	.4837E-05	.2928E 03	.2674E 02
180	.5157E-03	-.7570E 01	.0000E 00	.0000E 00	.0000E 00	.2903E 03	.2651E 02

SCAT= .1497E 00 30/45= .4222E 01 45/135= .6421E 01 SCAT30-130= .1367E-01

C 101/21 19 XI 63 1?30 CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

CR 101/22 19 XI 63 2040H CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

101/23 19 XI 63 2200H CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

101/24 19 XI 63 2300H CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

101/25 19 XI 63 2350H CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

101/26 20 XI 63 0045H CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

101/27 20 XI 63 0250H CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

101/28.20.X1.A3.0945H. CELL#2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
[illegible]	.4937E 00	-.3657E 00	-.1965E 00	-.6243E 01	.0000E 00	.1156E 00	.2610E-01
[illegible]	.3217E 00	-.1134E 01	-.1033E 01	-.1885E 01	.2726E 02	.2498E 00	.5646E-01
[illegible]	.1577E 00	-.1850E 01	-.1630E 01	-.8734E 00	.1159E 02	.5111E 00	.1155E 00
[illegible]	.8099E-01	-.2513E 01	-.2123E 01	-.4242E 00	.5150E 01	.9922E 00	.2243E 00
[illegible]	.4397E-01	-.3124E 01	-.2502E 01	-.2156E 00	.2391E 01	.1828E 01	.4131E 00
[illegible]	.2516E-01	-.3682E 01	-.2854E 01	-.1170E 00	.1130E 01	.3194E 01	.7219E 00
[illegible]	.1495E-01	-.4203E 01	-.3114E 01	-.6512E-01	.5918E 00	.5376E 01	.1215E 01
[illegible]	.9252E-02	-.4683E 01	-.2787E 01	-.3295E-01	.3710E 00	.8685E 01	.1963E 01
[illegible]	.6377E-02	-.5055E 01	-.3088E 01	-.2228E-01	.1222E 00	.1260E 02	.2848E 01
[illegible]	.4493E-02	-.5419E 01	-.2857E 01	-.1320E-01	.1040E 00	.1813E 02	.4098E 01
[illegible]	.3280E-02	-.5720E 01	-.2504E 01	-.7081E-02	.5984E-01	.2450E 02	.5537E 01
[illegible]	.2584E-02	-.5958E 01	-.2785E 01	-.6372E-02	.1844E-01	.3110E 02	.7030E 01
[illegible]	.2028E-02	-.6201E 01	-.2822E 01	-.4688E-02	.1914E-01	.3963E 02	.8957E 01
65	.1618E-02	-.6427E 01	-.2444E 01	-.3074E-02	.1861E-01	.4967E 02	.1123E 02
70	.1350E-02	-.6608E 01	-.3134E 01	-.3607E-02	.7684E-01	.5954E 02	.1346E 02
75	.1087E-02	-.6824E 01	-.2044E 01	-.1559E-02	.1682E-01	.7392E 02	.1671E 02
80	.9528E-03	-.6956E 01	-.1239E 01	-.7006E-03	.8587E-02	.8434E 02	.1906E 02
85	.8839E-03	-.7031E 01	-.3040E 01	-.1615E-02	-.9460E-02	.9042E 02	.2055E 02
90	.7429E-03	-.7205E 01	-.1350E 01	-.6028E-03	.1160E-01	.1082E 03	.2445E 02
95	.6903E-03	-.7278E 01	-.9774E 00	-.3868E-03	.2470E-02	.1164E 03	.2631E 02
100	.6565E-03	-.7328E 01	-.1613E 01	-.3010E-03	-.1300E-02	.1224E 03	.2767E 02
105	.6128E-03	-.7397E 01	-.7991E 00	-.2562E-03	.2805E-02	.1311E 03	.2964E 02
110	.5906E-03	-.7435E 01	-.6641E 00	-.1381E-03	.1253E-02	.1361E 03	.3076E 02
115	.5704E-03	-.7455E 01	.1974E 01	.5813E-03	.8241E-02	.1309E 03	.3140E 02
120	.6291E-03	-.7371E 01	.2300E 00	.7644E-04	-.5064E-02	.1277E 03	.2887E 02
125	.6353E-03	-.7361E 01	.2455E 01	.7357E-03	.7619E-02	.1265E 03	.2859E 02
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

C. 101/29.20.X1.A3.0840H. CELL#2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

CA.101/30.20.X1.A3.0730H. CELL#2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

101/31.20.X1.A3.0930H CELL#2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

A.101/32.20.X1.A3.1030H. CELL#2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

C. 101/33.20.X1.A3.1230H CELL#2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

101/34.20.X1.A3.1330H. CELL#2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

C. 101/35.20.X1.A3.1430H CELL#2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

C. 101/36.20.X1.A3.1530H. CELL#2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

101/37 20 XI 63 1630H CELL+2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	.4672E-03	-.7669E 01	-.3619E 00	-.6118E-04	.8098E-05	[illegible]	[illegible]
160	.4618E-03	-.7680E 01	-.3736E 00	-.6066E-04	.8010E-05	.1531E 03	.2951E 02
165	.4565E-03	-.7692E 01	-.3849E 00	-.5977E-04	.7912E-05	.1610E 03	.2985E 02
170	.4513E-03	-.7703E 01	-.3964E 00	-.5909E-04	.7828E-05	.1628E 03	.3019E 02
175	.4462E-03	-.7715E 01	-.4079E 00	-.5841E-04	.7729E-05	.1647E 03	.3054E 02
180	.4411E-03	-.7726E 01	.0000E 00	.0000E 00	.0000E 00	.1666E 03	.3090E 02

SCAT= .7369E-01 30/45= .1832E 01 45/135= .6625E 01 SCAT30-130= .1363E-01

101/38 20 XI 63 1730H CELL+2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	.5088E-03	-.7583E 01	.7745E 00	.1440E-03	.3886E-04	.1172E 03	.2132E 02
165	.5211E-03	-.7560E 01	.7983E 00	.1475E-03	.3981E-04	.1144E 03	.2082E 02
170	.5337E-03	-.7536E 01	.8221E 00	.1511E-03	.4077E-04	.1117E 03	.2033E 02
175	.5466E-03	-.7512E 01	.8460E 00	[illegible]	[illegible]	[illegible]	[illegible]
180	.5597E-03	-.7488E 01	.0000E 00	.0000E 00	.0000E 00	.1091E 03	.1985E 02

SCAT= .4105E-01 30/45= .3708E 01 45/135= .5831E 01 SCAT30-130= .1111E-01

101/39 20 XI 63 1910H CELL+2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	.4518E-03	-.7702E 01	.1632E 00	.2689E-04	.1599E-05	.2387E 03	[illegible]
160	.4542E-03	-.7697E 01	.1684E 00	.2703E-04	.1594E-05	.2374E 03	.2850E 02
165	.4565E-03	-.7692E 01	.1735E 00	.2717E-04	.1612E-05	.2362E 03	.2836E 02
170	.4589E-03	-.7687E 01	.1787E 00	.2731E-04	.1614E-05	.2350E 03	.2821E 02
175	.4613E-03	-.7682E 01	.1839E 00	.2746E-04	.1626E-05	.2338E 03	.2806E 02
180	.4637E-03	-.7676E 01	.0000E 00	.0000E 00	.0000E 00	.2326E 03	.2792E 02

SCAT= .1078E 00 30/45= .4039E 01 45/135= .6908E 01 SCAT30-130= .1295E-01

101/40 20 XI 63 1930H CELL+2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
0	.5121E 00	-.6692E 00	-.2100E 00	-.3287E 01	.0000E 00	.9975E-01	.2021E-01
5	.2253E 00	-.1490E 01	-.1105E 01	-.1381E 01	.2184E 02	.2268E 00	.4593E-01
10	.1047E 00	-.2256E 01	-.1752E 01	-.6104E 00	.8832E 01	.4882E 00	.9878E-01
15	.5148E-01	-.2967E 01	-.2277E 01	-.2835E 00	.3746E 01	.9923E 00	.2010E 00
20	.2676E-01	-.3622E 01	-.2687E 01	-.1382E 00	.1665E 01	.1910E 01	.3869E 00
25	.1468E-01	-.4221E 01	-.3059E 01	-.7193E-01	.7592E 00	.3479E 01	.7047E 00
30	.8406E-02	-.4779E 01	-.3311E 01	-.3850E-01	.3830E 00	.6077E 01	.1231E 01
35	.5045E-02	-.5289E 01	-.3122E 01	-.1971E-01	.2154E 00	.1012E 02	.2051E 01
40	.3325E-02	-.5706E 01	-.3247E 01	-.1211E-01	.8710E-01	.1536E 02	.3112E 01
45	.2269E-02	-.6089E 01	-.3177E 01	-.7396E-02	.5407E-01	.2252E 02	.4561E 01
50	.1623E-02	-.6423E 01	-.2566E 01	-.4036E-02	.3850E-01	.3147E 02	.6374E 01
55	.1271E-02	-.6668E 01	-.1838E 01	-.2152E-02	.2158E-01	.4019E 02	.8140E 01
60	.1083E-02	-.6828E 01	-.2600E 01	-.2332E-02	-.2063E-02	.4716E 02	.9552E 01
65	.8797E-03	-.7036E 01	-.1957E 01	-.1361E-02	.1114E-01	.5807E 02	.1176E 02
70	.7610E-03	-.7181E 01	-.2288E 01	-.1274E-02	.3946E-03	.6713E 02	.1360E 02
75	.6499E-03	-.7339E 01	-.2048E 01	-.9219E-03	.4030E-02	.7860E 02	.1592E 02
80	.5696E-03	-.7471E 01	-.1573E 01	-.5936E-03	.3761E-02	.8971E 02	.1817E 02
85	.5176E-03	-.7566E 01	-.1326E 01	-.4329E-03	.1843E-02	.9869E 02	.1999E 02
90	.4798E-03	-.7642E 01	.6783E 00	.2054E-03	.7314E-02	.1065E 03	.2156E 02
95	.4978E-03	-.7605E 01	-.3051E 00	-.8856E-04	-.3368E-02	.1026E 03	.2079E 02
100	.4700E-03	-.7621E 01	-.2032E 00	-.1894E-03	-.1155E-02	.1042E 03	.2112E 02
105	.4735E-03	-.7655E 01	-.5071E 00	-.1265E-03	.7205E-03	.1079E 03	.2185E 02
110	.4625E-03	-.7679E 01	.2045E 00	.4041E-04	.2004E-02	.1105E 03	.2237E 02
115	.4667E-03	-.7670E 01	.1374E 01	.3221E-03	.3136E-02	.1095E 03	.2217E 02
120	.4968E-03	-.7611E 01	.7811E 00	.1837E-03	-.1585E-02	.1032E 03	.2091E 02
125	.5108E-03	-.7579E 01	.5138E 00	.1172E-03	-.7397E-03	1.0000E 02	.2026E 02
130	.5212E-03	-.7559E 01	.3582E 00	.8129E-04	-.4360E-03	.9800E 02	.1985E 02
135	.5283E-03	-.7546E 01	.1210E 01	.2724E-03	.2191E-02	.9669E 02	.1959E 02
140	.5521E-03	-.7502E 01	.8551E 00	.1927E-03	-.9138E-03	.9254E 02	.1874E 02
145	.5689E-03	-.7472E 01	.8851E 00	.1986E-03	.6727E-04	.8979E 02	.1819E 02
150	.5862E-03	-.7442E 01	.9151E 00	.2046E-03	.6921E-04	.8714E 02	.1765E 02
155	.6041E-03	-.7412E 01	.9451E 00	.2109E-03	.7143E-04	.8456E 02	.1713E 02
160	.6225E-03	-.7382E 01	.9751E 00	.2173E-03	.7360E-04	[illegible]	.1663E 02
165	.6415E-03	-.7352E 01	.1005E 01	.2239E-03	.7584E-04	.7963E 02	.1613E 02
170	.6610E-03	-.7322E 01	.1035E 01	.2307E-03	.7816E-04	.7728E 02	.1565E 02
175	.6811E-03	-.7292E 01	.1065E 01	.2377E-03	.8053E-04	.7500E 02	.1519E 02
180	.7018E-03	-.7262E 01	.0000E 00	.0000E 00	.0000E 00	.7278E 02	.1474E 02

SCAT= .5108E-01 30/45= .3705E 01 45/135= .4294E 01 SCAT30-130= .1035E-01

101/41 20 XI 63 2030H CELL+2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
0	.6408E 00	-.4450E 00	-.2276E 00	-.4328E 01	.0000E 00	.8139E-01	.1357E-01
5	.2631E 00	-.1335E 01	-.1194E 01	-.1698E 01	.3014E 02	.1982E 00	.3304E-01
10	.1150E 00	-.2163E 01	-.1889E 01	-.7069E 00	.1138E 02	.4536E 00	.7561E-01
15	.5346E-01	-.2929E 01	-.2446E 01	-.3095E 00	.4531E 01	.9755E 00	.1626E 00
20	.2645E-01	-.3632E 01	-.2875E 01	-.1435E 00	.1902E 01	.1972E 01	.3286E 00
25	.1393E-01	-.4274E 01	-.3309E 01	-.7357E-01	.8017E 00	.3745E 01	.6241E 00
30	.7509E-02	-.4892E 01	-.3357E 01	-.3576E-01	.4457E 00	.6946E 01	.1158E 01
35	.4475E-02	-.5409E 01	-.3460E 01	-.1897E-01	.1809E 00	.1165E 02	.1941E 01
40	.2819E-02	-.5871E 01	-.3387E 01	-.1063E-01	.9567E-01	.1850E 02	.3083E 01
45	.1892E-02	-.6270E 01	-.3157E 01	-.6135E-02	.5149E-01	.2757E 02	.4595E 01
50	.1357E-02	-.6603E 01	-.2313E 01	-.3076E-02	.3506E-01	.3845E 02	.6408E 01
55	.1088E-02	-.6824E 01	-.2842E 01	-.2732E-02	.3945E-02	.4793E 02	.7989E 01
60	.8498E-03	-.7071E 01	-.1930E 01	-.1394E-02	.1533E-01	.6138E 02	.1023E 02
65	.7281E-03	-.7225E 01	-.2457E 01	-.1389E-02	.5999E-04	.7163E 02	.1194E 02
70	.6069E-03	-.7407E 01	-.2106E 01	-.9405E-03	.5138E-02	.8594E 02	.1432E 02
75	.5248E-03	-.7552E 01	-.1265E 01	-.4714E-03	.5376E-02	.9938E 02	.1656E 02
80	.4837E-03	-.7634E 01	-.1986E 01	-.6286E-03	-.1801E-02	.1078E 03	.1797E 02
85	.4288E-03	-.7754E 01	-.7699E 00	-.2116E-03	.4779E-02	.1216E 03	.2027E 02
90	.4104E-03	-.7798E 01	-.9811E 00	-.2429E-03	-.3597E-03	.1271E 03	.2118E 02
95	.3892E-03	-.7851E 01	-.3833E 00	-.8682E-04	.1789E-02	.1340E 03	.2234E 02
100	.3816E-03	-.7871E 01	-.1326E 00	-.2817E-04	.6721E-03	.1367E 03	.2278E 02
105	.3791E-03	-.7878E 01	.4162E 00	.8493E-04	.1296E-02	.1376E 03	.2293E 02
110	.3866E-03	-.7858E 01	-.9751E 00	-.1879E-03	-.3126E-02	.1349E 03	.2249E 02
115	.3702E-03	-.7902E 01	.9267E 00	.1706E-03	.4108E-02	.1409E 03	.2349E 02
120	.3850E-03	-.7862E 01	.6828E 00	.1267E-03	-.5261E-03	.1355E 03	.2258E 02
125	.3959E-03	-.7834E 01	-.8146E-01	-.1443E-04	-.1599E-02	.1317E 03	.2196E 02
130	.3946E-03	-.7838E 01	-.1161E-01	-.1981E-05	.1672E-03	.1322E 03	.2203E 02
135	.3945E-03	-.7838E 01	.8312E 00	.1387E-03	.1612E-02	.1322E 03	.2204E 02
140	.4066E-03	-.7808E 01	.6325E 00	.1125E-03	-.7731E-03	.1283E 03	.2138E 02
145	.4128E-03	-.7793E 01	.4477E 00	.7234E-04	.1248E-04	.1264E 03	.2106E 02
150	.4191E-03	-.7777E 01	.4624E 00	.7365E-04	.1268E-04	.1245E 03	.2074E 02
155	.4255E-03	-.7762E 01	.4781E 00	.7457E-04	.1287E-04	.1226E 03	.2043E 02
160	.4320E-03	-.7747E 01	.4933E 00	.7571E-04	.1307E-04	.1207E 03	.2012E 02
165	.4386E-03	-.7732E 01	.5084E 00	.7687E-04	.1327E-04	.1189E 03	.1982E 02
170	.4453E-03	-.7717E 01	.5236E 00	.7805E-04	.1348E-04	.1171E 03	.1952E 02
175	.4521E-03	-.7702E 01	.5388E 00	.7924E-04	.1367E-04	.1154E 03	.1923E 02
180	.4571E-03	-.7686E 01	.0000E 00	.0000E 00	.0000E 00	.1136E 03	.1894E 02

SCAT= .5216E-01 30/45= .3969E 01 45/135= .4796E 01 SCAT30-130= .8696E-02

101/42 20 XI 63 2130H CELL+2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
0	.9476E 00	-.5174E-01	-.2120E 00	-.6588E 01	.0000E 00	.7731E-01	.1207E-01
5	.3813E 00	-.9590E 00	-.1217E 01	-.2503E 01	.4567E 02	.1915E 00	.2990E-01
10	.1648E 00	-.1803E 01	-.1925E 01	-.1023E 01	.1696E 02	.4653E 00	.6952E-01
15	.7554E-01	-.2583E 01	-.2497E 01	-.4430E 00	.6651E 01	.9718E 00	.1517E 00
20	.3688E-01	-.3300E 01	-.2929E 01	-.2028E 00	.2753E 01	.1991E 01	.3108E 00
25	.1918E-01	-.3954E 01	-.3289E 01	-.9915E-01	.1187E 01	.3827E 01	.5974E 00
30	.1053E-01	-.4553E 01	-.3448E 01	-.4975E-01	.5661E 00	.6971E 01	.1088E 01
35	.6189E-02	-.5085E 01	-.3527E 01	-.2664E-01	.2645E 00	.1186E 02	.1852E 01
40	.3866E-02	-.5556E 01	-.3275E 01	-.1617E-01	.1629E 00	.1900E 02	.2966E 01
45	.2628E-02	-.5942E 01	-.3350E 01	-.8955E-02	.5978E-01	.2794E 02	.4362E 01
50	.1846E-02	-.6295E 01	-.2665E 01	-.4766E-02	.4823E-01	.3976E 02	.6208E 01
55	.1432E-02	-.6549E 01	-.2606E 01	-.3329E-02	.1624E-01	.5126E 02	.8003E 01
60	.1161E-02	-.6775E 01	-.2363E 01	-.2254E-02	.1232E-01	.6431E 02	.1004E 02
65	.9448E-03	-.6965E 01	-.2412E 01	-.1772E-02	.5524E-02	.7770E 02	.1213E 02
70	.7902E-03	-.7143E 01	-.2554E 01	-.1663E-02	.3564E-02	.9290E 02	.1450E 02
75	.6625E-03	-.7319E 01	-.1938E 01	-.8928E-03	.6530E-02	.1108E 03	.1730E 02
80	.5846E-03	-.7445E 01	-.1149E 01	-.4509E-03	.5066E-02	.1256E 03	.1960E 02
85	.5453E-03	-.7514E 01	-.2209E 01	-.7411E-03	-.3326E-02	.1346E 03	.2102E 02
90	.4806E-03	-.7640E 01	-.8628E 00	-.2453E-03	.5681E-02	.1527E 03	.2385E 02
95	.4592E-03	-.7686E 01	-.3348E 00	-.8959E-04	.1785E-02	.1599E 03	.2496E 02
100	.4514E-03	-.7703E 01	.2903E-01	.7331E-05	.1111E-02	.1626E 03	.2538E 02
105	.4520E-03	-.7702E 01	-.3714E 00	-.8871E-04	-.1101E-02	.1624E 03	.2535E 02
110	.4443E-03	-.7719E 01	-.7531E 00	-.1626E-03	-.9060E-03	.1652E 03	.2580E 02
115	.4296E-03	-.7753E 01	.9836E 00	.2105E-03	.4332E-02	.1709E 03	.2667E 02
120	.4480E-03	-.7711E 01	.7869E 00	.1676E-03	-.4915E-03	.1639E 03	.2558E 02
125	.4626E-03	-.7679E 01	.2769E 00	.5790E-04	-.1257E-02	.1587E 03	.2477E 02
130	.4673E-03	-.7668E 01	.1358E 01	.2818E-03	.2564E-02	.1570E 03	.2451E 02
135	.4923E-03	-.7616E 01	.7478E 00	.1555E-03	-.1448E-02	.1491E 03	.2328E 02
140	.5058E-03	-.7589E 01	.4580E 00	.1866E-03	.3443E-03	.1451E 03	.2266E 02
145	.5220E-03	-.7558E 01	.9295E 00	.1915E-03	.6808E-04	.1406E 03	.2195E 02
150	.5388E-03	-.7526E 01	.9610E 00	.1976E-03	.7026E-04	.1363E 03	.2127E 02
155	.5560E-03	-.7495E 01	.9925E 00	.2040E-03	.7250E-04	.1320E 03	.2061E 02
160	.5738E-03	-.7463E 01	.1024E 01	.2105E-03	.7483E-04	.1279E 03	.1997E 02
165	.5922E-03	-.7432E 01	.1056E 01	.2172E-03	.7722E-04	.1240E 03	.1935E 02
170	.6111E-03	-.7400E 01	.1087E 01	.2242E-03	.7969E-04	.1201E 03	.1875E 02
175	.6307E-03	-.7369E 01	.1119E 01	.2314E-03	.8224E-04	.1164E 03	.1817E 02
180	.6509E-03	-.7337E 01	.0000E 00	.0000E 00	.0000E 00	.1128E 03	.1761E 02

SCAT= .7341E-01 30/45= .4008E 01 45/135= .5338E 01 SCAT30-130= .1144E-01

101/43 20 XI 63 2230H CELL+2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
0	.8711E 00	-.1380E 00	-.2384E 00	-.6053E 01	.0000E 00	.7406E-01	.1166E-01
5	.3429E 00	-.1070E 01	-.1244E 01	-.2270E 01	.4335E 02	.1882E 00	.2962E-01
10	.1448E 00	-.1931E 01	-.1954E 01	-.9676E 00	.1561E 02	.4456E 00	.7015E-01
15	.6556E-01	-.2725E 01	-.2510E 01	-.3863E 00	.5973E 01	.9840E 00	.1549E 00
20	.3185E-01	-.3447E 01	-.2922E 01	-.1748E 00	.2424E 01	.2026E 01	.3188E 00
25	.1660E-01	-.4099E 01	-.3175E 01	-.8740E-01	.1001E 01	.3887E 01	.6119E 00
30	.8969E-02	-.4714E 01	-.3234E 01	-.4037E-01	.5390E 00	.7193E 01	.1132E 01
35	.5446E-02	-.5213E 01	-.3530E 01	-.2346E-01	.1938E 00	.1185E 02	.1865E 01
40	.3399E-02	-.5684E 01	-.3029E 01	-.1169E-01	.1369E 00	.1898E 02	.2988E 01
45	.2379E-02	-.6041E 01	-.2456E 01	-.7295E-02	.5035E-01	.2712E 02	.4268E 01
50	.1743E-02	-.6352E 01	-.3279E 01	-.5366E-02	.2217E-01	.3702E 02	.5828E 01
55	.1275E-02	-.6665E 01	-.2934E 01	-.3271E-02	.2370E-01	.5061E 02	.7966E 01
60	.9876E-03	-.6920E 01	-.2138E 01	-.1780E-02	.1732E-01	.6532E 02	.1028E 02
65	.8323E-03	-.7091E 01	-.2984E 01	-.1892E-02	-.1290E-02	.7752E 02	.1220E 02
70	.6671E-03	-.7313E 01	-.2514E 01	-.1217E-02	.7734E-02	.9670E 02	.1522E 02
75	.5609E-03	-.7486E 01	-.1018E 01	-.4088E-03	.7266E-02	.1150E 03	.1811E 02
80	.5252E-03	-.7552E 01	-.1938E 01	-.6671E-03	-.2960E-02	.1228E 03	.1934E 02
85	.4670E-03	-.7669E 01	-.6936E 00	-.2080E-03	.5261E-02	.1381E 03	.2175E 02
90	.4488E-03	-.7709E 01	-.7809E 00	-.2126E-03	-.5296E-04	.1437E 03	.2263E 02
95	.4301E-03	-.7751E 01	-.4269E 00	-.1068E-03	.1213E-02	.1499E 03	.2360E 02
100	.4210E-03	-.7773E 01	-.8399E-01	-.1973E-04	.9978E-03	.1531E 03	.2412E 02
105	.4192E-03	-.7777E 01	-.1066E 01	-.2325E-03	-.2438E-02	.1539E 03	.2422E 02
110	.3989E-03	-.7827E 01	-.6405E 00	-.8864E-04	.1648E-02	.1617E 03	.2546E 02
115	.3912E-03	-.7846E 01	.6160E 00	.1191E-03	.2380E-02	.1649E 03	.2596E 02
120	.4016E-03	-.7820E 01	-.6720E 00	-.8797E-04	-.2373E-02	.1606E 03	.2529E 02
125	.3939E-03	-.7839E 01	.4574E 00	.8171E-04	.1944E-02	.1638E 03	.2578E 02
130	.4011E-03	-.7821E 01	.1612E 00	.2455E-04	-.6569E-03	.1609E 03	.2532E 02
135	.4032E-03	-.7816E 01	.1801E 00	.3036E-04	.6654E-04	.1600E 03	.2519E 02
140	.4058E-03	-.7810E 01	.1681E 00	.2752E-04	-.1259E-04	.1590E 03	.2502E 02
145	.4082E-03	-.7804E 01	.1740E 00	.2768E-04	.1865E-05	.1580E 03	.2488E 02
150	.4107E-03	-.7798E 01	.1799E 00	.2784E-04	.1877E-05	.1571E 03	.2473E 02
155	.4131E-03	-.7792E 01	.1858E 00	.2801E-04	.1890E-05	.1562E 03	.2458E 02
160	.4155E-03	-.7786E 01	.1917E 00	.2817E-04	.1893E-05	.1553E 03	.2444E 02
165	.4180E-03	-.7780E 01	.1976E 00	.2834E-04	.1913E-05	.1543E 03	.2429E 02
170	.4205E-03	-.7774E 01	.2035E 00	.2851E-04	.1922E-05	.1534E 03	.2415E 02
175	.4230E-03	-.7768E 01	.2094E 00	.2868E-04	.1933E-05	.1525E 03	.2401E 02
180	.4255E-03	-.7762E 01	.0000E 00	.0000E 00	.0000E 00	.1516E 03	.2387E 02

SCAT= .6451E-01 30/45= .3770E 01 45/135= .5801E 01 SCAT30-130= .1016E-01

101/44 20 XI 63 2330H CELL+2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
0	.5374E 00	-.6209E 00	-.2090E 00	-.3640E 01	.0000E 00	.9567E-01	.1699E-01
5	.2373E 00	-.1438E 01	-.1106E 01	-.1456E 01	.2273E 02	.2167E 00	.3848E-01
10	.1102E 00	-.2205E 01	-.1765E 01	-.6457E 00	.9286E 01	.4667E 00	.8283E-01
15	.5388E-01	-.2921E 01	-.2311E 01	-.2999E 00	.3963E 01	.9543E 00	.1695E 00
20	.2771E-01	-.3586E 01	-.2752E 01	-.1657E 00	.1767E 01	.1856E 01	.3295E 00
25	.1500E-01	-.4200E 01	-.3168E 01	-.7539E-01	.8058E 00	.3429E 01	.6089E 00
30	.8416E-02	-.4778E 01	-.3314E 01	-.3858E-01	.4219E 00	.6110E 01	.1085E 01
35	.5050E-02	-.5288E 01	-.3446E 01	-.2134E-01	.1975E 00	.1019E 02	.1808E 01
40	.3187E-02	-.5749E 01	-.3681E 01	-.1285E-01	.9733E-01	.1613E 02	.2865E 01
45	.2066E-02	-.6182E 01	-.3296E 01	-.6947E-02	.6752E-01	.2489E 02	.4419E 01
50	.1460E-02	-.6529E 01	-.2259E 01	-.4111E-02	.3269E-01	.3522E 02	.6254E 01
55	.1101E-02	-.6811E 01	-.3036E 01	-.2929E-02	.1354E-01	.4670E 02	.8292E 01
60	.8434E-03	-.7076E 01	-.2145E 01	-.1541E-02	.1590E-01	.6082E 02	.1080E 02
65	.7109E-03	-.7249E 01	-.2757E 01	-.1506E-02	.4106E-03	.7233E 02	.1284E 02
70	.5795E-03	-.7453E 01	-.2580E 01	-.1083E-02	.4843E-02	.8871E 02	.1574E 02
75	.4850E-03	-.7631E 01	-.1436E 01	-.4920E-03	.6772E-02	.1060E 03	.1883E 02
80	.4421E-03	-.7724E 01	-.4470E 00	-.1354E-03	.4086E-02	.1163E 03	.2065E 02
85	.4303E-03	-.7751E 01	-.1139E 01	-.3109E-03	-.2010E-02	.1195E 03	.2122E 02
90	.4031E-03	-.7816E 01	-.9342E 00	-.2394E-03	.8190E-03	.1276E 03	.2265E 02
95	.3822E-03	-.7869E 01	[illegible]	.1784E-04	.2948E-02	.1345E 03	.2389E 02
100	.3838E-03	-.7865E 01	-.6032E 00	-.1271E-03	-.1641E-02	.1340E 03	.2379E 02
105	.3727E-03	-.7895E 01	.8517E 00	.1726E-03	.3434E-02	.1380E 03	.2450E 02
110	.3878E-03	-.7855E 01	-.1820E 01	-.3635E-03	-.6164E-02	.1326E 03	.2355E 02
115	.3560E-03	-.7940E 01	.7449E 00	.1314E-03	.5672E-02	.1444E 03	.2564E 02
120	.3675E-03	-.7909E 01	.8019E 00	.1401E-03	-.9981E-04	.1399E 03	.2484E 02
125	.3797E-03	-.7876E 01	.6828E 00	.1181E-03	-.2523E-03	.1354E 03	.2404E 02
130	.3800E-03	-.7849E 01	.3588E 01	.6606E-03	.1075E-02	.1318E 03	.2341E 02
135	.4302E-03	-.7751E 01	.5179E 00	.9374E-04	-.4204E-02	.1195E 03	.2122E 02
140	.4384E-03	-.7732E 01	.1248E 01	.2250E-03	.1504E-02	.1173E 03	.2083E 02
145	.4581E-03	-.7689E 01	.1292E 01	.2350E-03	.1154E-03	.1123E 03	.1993E 02
150	.4786E-03	-.7645E 01	.1336E 01	.2456E-03	.1206E-03	.1074E 03	.1908E 02
155	.5000E-03	-.7601E 01	.1380E 01	.2566E-03	.1260E-03	.1028E 03	.1826E 02
160	.5224E-03	-.7557E 01	.1424E 01	.2680E-03	.1316E-03	.9843E 02	.1748E 02
165	.5458E-03	-.7513E 01	.1467E 01	.2800E-03	.1375E-03	.9421E 02	.1673E 02
170	.5702E-03	-.7469E 01	.1511E 01	.2926E-03	.1437E-03	.9017E 02	.1601E 02
175	.5957E-03	-.7426E 01	.1555E 01	.3057E-03	.1501E-03	.8631E 02	.1533E 02
180	.6224E-03	-.7382E 01	.0000E 00	.0000E 00	.0000E 00	.8261E 02	.1467E 02

SCAT= .5143E-01 30/45= .4674E 01 45/135= .4803E 01 SCAT30-130= .9130E-02

101/45 21 XI 63 1940H CELL+2 ST GEORGES HBR

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
0	.4214E 01	.1438E 01	-.1774E 00	-.2416E 02	.0000E 00	.1468E 00	.4103E-01
5	.2106E 01	.7448E 00	-.9324E 00	-.1149E 02	.1452E 03	.2937E 00	.8210E-01
10	.1104E 01	.9849E-01	-.1477E 01	-.5698E 01	.6635E 02	.5605E 00	.1567E 00
15	.6063E 00	-.5004E 00	-.1917E 01	-.2945E 01	.3154E 02	.1020E 01	.2852E 00
20	.3493E 00	-.1052E 01	-.2259E 01	-.1585E 01	.1559E 02	.1771E 01	.4950E 00
25	.2110E 00	-.1556E 01	-.2524E 01	-.8919E 00	.7939E 01	.2931E 01	.8194E 00
30	.1332E 00	-.2016E 01	-.2733E 01	-.5246E 00	.4209E 01	.4644E 01	.1298E 01
35	.8739E-01	-.2437E 01	-.2656E 01	-.2990E 00	.2585E 01	.7078E 01	.1978E 01
40	.6130E-01	-.2792E 01	-.2643E 01	-.1882E 00	.1269E 01	.1009E 02	.2821E 01
45	.4487E-01	-.3104E 01	-.2629E 01	-.1244E 00	.7316E 00	.1378E 02	.3853E 01
50	.3401E-01	-.3381E 01	-.2458E 01	-.8142E-01	.4926E 00	.1818E 02	.5083E 01
55	.2691E-01	-.3615E 01	-.2780E 01	-.6625E-01	.1737E 00	.2299E 02	.6425E 01
60	.2113E-01	-.3857E 01	-.3035E 01	-.5221E-01	.1609E 00	.2928E 02	.8184E 01
65	.1657E-01	-.4100E 01	-.2326E 01	-.3007E-01	.2537E 00	.3733E 02	.1043E 02
70	.1395E-01	-.4273E 01	-.2814E 01	-.2820E-01	.2142E-01	.4435E 02	.1240E 02
75	.1149E-01	-.4467E 01	-.3335E 01	-.2549E-01	.3112E-01	.5385E 02	.1505E 02
80	.9261E-02	-.4682E 01	-.1704E 01	-.1042E-01	.1727E 00	.6679E 02	.1867E 02
85	.8352E-02	-.4785E 01	-.3069E 01	-.1540E-01	-.5713E-01	.7405E 02	.2070E 02
90	.7008E-02	-.4961E 01	-.2378E 01	-.9690E-02	.6564E-01	.8826E 02	.2467E 02
95	.6163E-02	-.5089E 01	-.1964E 01	-.6767E-02	.3349E-01	.1004E 03	.2806E 02
100	.5572E-02	-.5190E 01	-.2321E 01	-.6937E-02	-.8013E-03	.1110E 03	.3103E 02
105	.4975E-02	-.5303E 01	-.2042E 01	-.5167E-02	.1914E-01	.1243E 03	.3475E 02
110	.4524E-02	-.5398E 01	-.1253E 01	-.2808E-02	.2703E-01	.1367E 03	.3821E 02
115	.4279E-02	-.5454E 01	-.2600E 01	-.5137E-02	-.2670E-01	.1445E 03	.4040E 02
120	.3831E-02	-.5565E 01	-.2868E 01	-.4851E-02	.3282E-02	.1616E 03	.4513E 02
125	.3408E-02	-.5682E 01	-.2586E 01	-.3767E-02	.1242E-01	.1815E 03	.5074E 02
130	.3079E-02	-.5783E 01	-.2071E 01	-.2652E-02	.1277E-01	.2009E 03	.5615E 02
135	.2948E-02	-.5861E 01	-.3704E 01	-.3589E-02	-.1074E-01	.2172E 03	.6072E 02
140	.2534E-02	-.5978E 01	-.2944E 01	-.2850E-02	.8469E-02	.2441E 03	.6822E 02
145	.2286E-02	-.6081E 01	-.3047E 01	-.2571E-02	.3206E-02	.2706E 03	.7565E 02
150	.2061E-02	-.6184E 01	-.3150E 01	-.2318E-02	.2891E-02	.3001E 03	.8388E 02
155	.1859E-02	-.6288E 01	-.3254E 01	-.2091E-02	.2607E-02	.3327E 03	.9301E 02
160	.1677E-02	-.6391E 01	-.3357E 01	-.1886E-02	.2351E-02	.3689E 03	.1031E 03
165	.1512E-02	-.6494E 01	-.3460E 01	-.1700E-02	.2121E-02	.4091E 03	.1144E 03
170	.1364E-02	-.6598E 01	-.3564E 01	-.1534E-02	.1912E-02	.4536E 03	.1268E 03
175	.1230E-02	-.6701E 01	-.3667E 01	-.1383E-02	.1725E-02	.5030E 03	.1406E 03
180	.1109E-02	-.6804E 01	.0000E 00	.0000E 00	.0000E 00	.5577E 03	.1559E 03

SCAT= .6185E 00 30/45= .2968E 01 45/135= .1576E 02 SCAT30-130= .1729E 00

101/46 3 XII 63 10COH CELL=1

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.4880E 01	.3585E 01	-.1703E 00	-.2719E 02	.0000E 00	.1616E 00	.4904E-01
5	.2507E 01	.9190E 00	-.9057E 00	-.1129E 02	.1593E 03	.3146E 00	.7351E-01
10	.1347E 01	.2981E 00	-.1420E 01	-.6727E 01	.7482E 02	.5853E 00	.1740E 00
15	.7577E 00	-.2775E 00	-.1844E 01	-.3574E 01	.3648E 02	.1041E 01	.3094E 00
20	.4458E 00	-.8079E 00	-.2174E 01	-.1964E 01	.1845E 02	.1769E 01	.5258E 00
25	.2744E 00	-.1293E 01	-.2447E 01	-.1132E 01	.9534E 01	.2874E 01	.8542E 00
30	.1757E 00	-.1739E 01	-.2637E 01	-.6724E 00	.5263E 01	.4489E 01	.1334E 01
35	.1170E 00	-.2146E 01	-.2591E 01	-.3921E 00	.3212E 01	.6741E 01	.2004E 01
40	.8276E-01	-.2492E 01	-.2503E 01	-.2421E 00	.1719E 01	.9528E 01	.2832E 01
45	.6163E-01	-.2787E 01	-.2605E 01	-.1695E 00	.8321E 00	.1279E 02	.3803E 01
50	.4684E-01	-.3061E 01	-.2772E 01	-.1246E 00	.5143E 00	.1683E 02	.5004E 01
55	.3597E-01	-.3325E 01	-.2672E 01	-.8550E-01	.4483E 00	.2143E 02	.6518E 01
60	.2850E-01	-.3558E 01	-.2667E 01	-.6279E-01	.2602E 00	.2756E 02	.8224E 01
65	.2302E-01	-.3771E 01	-.2717E 01	-.4812E-01	.1681E 00	.3425E 02	.1018E 02
70	.1882E-01	-.3973E 01	-.2625E 01	-.3573E-01	.1420E 00	.4189E 02	.1245E 02
75	.1571E-01	-.4154E 01	-.2920E 01	-.3091E-01	.3520E-01	.5070E 02	.1492E 02
80	.1301E-01	-.4342E 01	-.2774E 01	-.2308E-01	.8979E-01	.6062E 02	.1802E 02
85	.1100E-01	-.4510E 01	-.2510E 01	-.1684E-01	.7152E-01	.7172E 02	.2132E 02
90	.9526E-02	-.4654E 01	-.2208E 01	-.1228E-01	.5217E-01	.8278E 02	.2461E 02
95	.8454E-02	-.4773E 01	-.2279E 01	-.1069E-01	.1827E-01	.9328E 02	.2773E 02
100	.7521E-02	-.4890E 01	-.2463E 01	-.9758E-02	.1067E-01	.1048E 03	.3117E 02
105	.6670E-02	-.5010E 01	-.1737E 01	-.5932E-02	.4384E-01	.1182E 03	.3515E 02
110	.6152E-02	-.5091E 01	-.9958E 00	-.3053E-02	.3300E-01	.1282E 03	.3810E 02
115	.5886E-02	-.5135E 01	-.1874E 01	-.5170E-02	-.2476E-01	.1340E 03	.3983E 02
120	.5436E-02	-.5215E 01	-.1360E 01	-.3362E-02	.2071E-01	.1451E 03	.4313E 02
125	.5141E-02	-.5271E 01	-.2444E 01	-.5385E-02	-.2318E-01	.1534E 03	.4560E 02
130	.4671E-02	-.5366E 01	-.1907E 01	-.3716E-02	.1912E-01	.1688E 03	.5018E 02
135	.4367E-02	-.5438E 01	-.2008E 01	-.3507E-02	.2395E-02	.1814E 03	.5393E 02
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

101/47 3 XII 63 1025H CELL=7 -2 RDLY 53 DAVIDS

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

101/48 3 XII 63 11COH CELL=2 100 FT CLRVE BCUY

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	.1114E-02	-.6800E 01	-.1679E 01	-.6835E-03	.4436E-03	.1650E 03	.5200E 02
155	.1054E-02	-.6855E 01	-.1734E 01	-.6473E-03	.4198E-03	.1743E 03	.5495E 02
160	.9980E-03	-.6910E 01	-.1789E 01	-.6126E-03	.3974E-03	.1842E 03	.5806E 02
165	.9445E-03	-.6965E 01	-.1844E 01	-.5798E-03	.3761E-03	.1946E 03	.6134E 02
170	.8939E-03	-.7020E 01	-.1899E 01	-.5498E-03	.3559E-03	.2056E 03	.6482E 02
175	.8461E-03	-.7075E 01	-.1954E 01	-.5194E-03	.3368E-03	.2173E 03	.6848E 02
180	.8007E-03	-.7130E 01	.0000E 00	.0000E 00	.0000E 00	.2236E 03	.7236E 02

SCATA= .1438E 00 30/45= .2936E 01 45/135= .1151E 02 SCAT30-130= .5796E-01

101/49 3 XII 63 12COH CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	.1662E-02	-.6400E 01	-.6870E 00	-.4385E-03	.1184E-03	.1414E 03	.3717E 02
150	.1624E-02	-.6422E 01	-.7103E 00	-.4284E-03	.1157E-03	.1447E 03	.3805E 02
155	.1587E-02	-.6446E 01	-.7336E 00	-.4195E-03	.1130E-03	.1481E 03	.3895E 02
160	.1550E-02	-.6469E 01	-.7569E 00	-.4098E-03	.1104E-03	.1516E 03	.3986E 02
165	.1514E-02	-.6493E 01	-.7802E 00	-.3995E-03	.1079E-03	.1552E 03	.4080E 02
170	.1480E-02	-.6516E 01	-.8035E 00	-.3903E-03	.1054E-03	.1589E 03	.4176E 02
175	.1445E-02	-.6539E 01	-.8267E 00	-.3813E-03	.1030E-03	.1626E 03	.4275E 02
180	.1412E-02	-.6563E 01	.0000E 00	.0000E 00	.0000E 00	.1664E 03	.4376E 02

SCATA= .2350E 00 30/45= .3363E 01 45/135= .8701E 01 SCAT30-130= .6179E-01

101/50 3 XII 63 13COH CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	.9057E-03	-.7007E 01	-.3604E 00	-.1351E-03	-.1135E-01	.1458E 03	.2871E 02
140	.8939E-03	-.7020E 01	.6472E 00	.2353E-03	.4265E-02	.1477E 03	.2909E 02
145	.9144E-03	-.6997E 01	.6499E 00	.2407E-03	.6194E-04	.1444E 03	.2844E 02
150	.9355E-03	-.6974E 01	.6926E 00	.2462E-03	.6334E-04	.1412E 03	.2780E 02
155	.9569E-03	-.6952E 01	.7153E 00	.2519E-03	.6492E-04	.1380E 03	.2717E 02
160	.9789E-03	-.6929E 01	.7380E 00	.2577E-03	.6629E-04	.1349E 03	.2656E 02
165	.1001E-02	-.6906E 01	.7607E 00	.2636E-03	.6782E-04	.1319E 03	.2597E 02
170	.1024E-02	-.6884E 01	.7834E 00	.2696E-03	.6939E-04	.1289E 03	.2538E 02
175	.1048E-02	-.6861E 01	.8061E 00	.2758E-03	.7096E-04	.1260E 03	.2481E 02
180	.1072E-02	-.6838E 01	.0000E 00	.0000E 00	.0000E 00	.1232E 03	.2426E 02

SCATA= .1321E 00 30/45= .3582E 01 45/135= .6826E 01 SCAT30-130= .2600E-01

101/51 3 XII 63 16COH CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
0	.1060E 01	.5864E-01	-.2215E 00	-.7042E 01	.0000E 00	.8917E-01	.1703E-01
5	.4458E 00	-.8078E 00	-.1157E 01	-.2819E 01	.4840E 02	.2171E 00	.4050E-01
10	.1999E 00	-.1610E 01	-.1820E 01	-.1196E 01	.1860E 02	.4730E 00	.9073E-01
15	.9555E-01	-.2348E 01	-.2342E 01	-.5368E 00	.7548E 01	.9895E 00	.1890E 00
20	.4870E-01	-.3022E 01	-.2732E 01	-.2588E 00	.3232E 01	.1941E 01	.3707E 00
25	.2647E-01	-.3632E 01	-.3057E 01	-.1296E 00	.1434E 01	.3572E 01	.6821E 00
30	.1516E-01	-.4189E 01	-.3348E 01	-.7004E-01	.6827E 00	.6237E 01	.1191E 01
35	.9049E-02	-.4705E 01	-.2982E 01	-.3406E-01	.4123E 00	.1045E 02	.1795E 01
40	.6076E-02	-.5104E 01	-.2485E 01	-.2006E-01	.1606E 00	.1556E 02	.2971E 01
45	.4326E-02	-.5443E 01	-.3051E 01	-.1364E-01	.7364E-01	.2186E 02	.4174E 01
50	.3136E-02	-.5765E 01	-.2537E 01	-.7718E-02	.6782E-01	.3015E 02	.5758E 01
55	.2462E-02	-.6007E 01	-.2315E 01	-.5148E-02	.2946E-01	.3840E 02	.7333E 01
60	.2013E-02	-.6208E 01	-.1434E 01	-.2501E-02	.3033E-01	.4697E 02	.8970E 01
65	.1795E-02	-.6323E 01	-.3397E 01	-.4577E-02	-.2379E-01	.5268E 02	.1006E 02
70	.1395E-02	-.6575E 01	-.3166E 01	-.3120E-02	.1470E-01	.6776E 02	.1294E 02
75	.1123E-02	-.6792E 01	-.3499E 01	-.2601E-02	.5939E-02	.8419E 02	.1608E 02
80	.8961E-03	-.7017E 01	-.9316E 00	-.5931E-03	.2294E-01	.1055E 03	.2015E 02
85	.8438E-03	-.7078E 01	-.2272E 01	-.1178E-02	-.6628E-02	.1121E 03	.2140E 02
90	.7411E-03	-.7207E 01	-.5323E 00	-.2676E-03	.1043E-01	.1276E 03	.2437E 02
95	.7177E-03	-.7239E 01	-.3698E 00	-.1545E-03	.1296E-02	.1317E 03	.2516E 02
100	.7062E-03	-.7258E 01	-.2096E 01	-.7844E-03	-.7218E-02	.1363E 03	.2564E 02
105	.6358E-03	-.7361E 01	-.2746E 00	-.7574E-04	.8121E-02	.1487E 03	.2840E 02
110	.6292E-03	-.7371E 01	-.7630E-01	-.2372E-04	.5955E-03	.1503E 03	.2870E 02
115	.6271E-03	-.7374E 01	.5970E-01	.1828E-04	.4819E-03	.1508E 03	.2879E 02
120	.6287E-03	-.7372E 01	.4808E 00	.1628E-03	.1422E-02	.1506E 03	.2872E 02
125	.6411E-03	-.7352E 01	.2290E 00	.6629E-04	-.8768E-03	.1475E 03	.2816E 02
130	.6469E-03	-.7343E 01	.1158E 01	.3311E-03	.3035E-02	.1462E 03	.2791E 02
135	.6758E-03	-.7300E 01	.1676E 00	.4735E-04	-.3252E-02	.1399E 03	.2672E 02
140	.6800E-03	-.7293E 01	.5081E 00	.1402E-03	.1063E-02	.1391E 03	.2655E 02
145	.6922E-03	-.7276E 01	.5259E 00	.1427E-03	.2889E-04	.1366E 03	.2609E 02
150	.7046E-03	-.7258E 01	.5437E 00	.1452E-03	.2941E-04	.1342E 03	.2562E 02
155	.7173E-03	-.7240E 01	.5615E 00	.1479E-03	.2994E-04	.1318E 03	.2517E 02
160	.7304E-03	-.7222E 01	.5794E 00	.1505E-03	.3046E-04	.1295E 03	.2472E 02
165	.7434E-03	-.7204E 01	.5972E 00	.1532E-03	.3103E-04	.1272E 03	.2429E 02
170	.7567E-03	-.7187E 01	.6150E 00	.1560E-03	.3158E-04	.1249E 03	.2386E 02
175	.7703E-03	-.7169E 01	.6329E 00	.1588E-03	.3215E-04	.1227E 03	.2344E 02
180	.7842E-03	-.7151E 01	.0000E 00	.0000E 00	.0000E 00	.1206E 03	.2303E 02

SCATA= .9455E-01 30/45= .3505E 01 45/135= .6401E 01 SCAT30-130= .1806E-01

101/52 3 XII 63 15COH CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
0	.2173E 01	.7762E 00	-.2565E 00	-.1577E 02	.0000E 00	.6459E-01	.9826E-02
5	.7969E 00	-.2271E 00	-.1327E 01	-.5492E 01	.1178E 03	.1761E 00	.2680E-01
10	.3176E 00	-.1147E 01	-.2064E 01	-.2063E 01	.3530E 02	.4420E 00	.6724E-01
15	.1375E 00	-.1984E 01	-.2620E 01	-.8342E 00	.1408E 02	.1021E 01	.1553E 00
20	.6473E-01	-.2738E 01	-.3604E 01	-.3623E 00	.5407E 01	.2169E 01	.3299E 00
25	.3311E-01	-.3408E 01	-.3311E 01	-.1719E 00	.2182E 01	.4240E 01	.6449E 00
30	.1811E-01	-.4012E 01	-.3287E 01	-.8247E-01	.1025E 01	.7753E 01	.1179E 01
35	.1091E-01	-.4518E 01	-.3087E 01	-.4223E-01	.4611E 00	.1287E 02	.1957E 01
40	.7226E-02	-.4930E 01	-.3053E 01	-.2500E-01	.1974E 00	.1943E 02	.2956E 01
45	.5042E-02	-.5290E 01	-.2798E 01	-.1243E-01	.1441E 00	.2784E 02	.4235E 01
50	.3958E-02	-.5532E 01	-.3021E 01	-.1135E-01	.1237E-01	.3547E 02	.5395E 01
55	.2967E-02	-.5820E 01	-.2460E 01	-.6552E-02	.5493E-01	.4730E 02	.7196E 01
60	.2396E-02	-.6034E 01	-.2452E 01	-.4892E-02	.1902E-01	.5859E 02	.8913E 01
65	.1969E-02	-.6230E 01	-.3475E 01	-.5122E-02	-.2634E-02	.7130E 02	.1085E 02
70	.1422E-02	-.6588E 01	-.2273E 01	-.2531E-02	.2969E-01	.9224E 02	.1403E 02
75	.1301E-02	-.6645E 01	-.2115E 01	-.1902E-02	.7208E-02	.1079E 03	.1641E 02
80	.1135E-02	-.6781E 01	-.2342E 01	-.1755E-02	.1685E-02	.1237E 03	.1882E 02
85	.9817E-03	-.6926E 01	-.1879E 01	-.1146E-02	.6986E-02	.1430E 03	.2175E 02
90	.8817E-03	-.7034E 01	-.1019E 01	-.5614E-03	.6925E-02	.1592E 03	.2422E 02
95	.8344E-03	-.7089E 01	-.7020E 00	-.3392E-03	.2329E-02	.1682E 03	.2559E 02
100	.8049E-03	-.7125E 01	-.1360E 01	-.5922E-03	-.2910E-02	.1744E 03	.2653E 02
105	.7533E-03	-.7191E 01	-.1473E 00	-.5693E-04	.6133E-02	.1863E 03	.2835E 02
110	.7483E-03	-.7198E 01	-.9542E 00	-.3524E-03	-.3386E-02	.1876E 03	.2854E 02
115	.7175E-03	-.7240E 01	.1330E 01	.4748E-03	.9525E-02	.1956E 03	.2976E 02
120	.7593E-03	-.7183E 01	-.3772E 00	-.1331E-03	-.7012E-02	.1849E 03	.2812E 02
125	.7477E-03	-.7199E 01	.7881E 00	.2690E-03	.4608E-02	.1877E 03	.2856E 02
130	.7712E-03	-.7168E 01	.1619E 01	.5862E-03	.2690E-02	.1820E 03	.2769E 02
135	.8136E-03	-.7114E 01	.4365E 00	.1389E-03	-.3981E-02	.1725E 03	.2625E 02
140	.8257E-03	-.7099E 01	.7002E 00	.2558E-03	.1360E-02	.1700E 03	.2586E 02
145	.8480E-03	-.7073E 01	.7969E 00	.2627E-03	.7925E-04	.1655E 03	.2518E 02
150	.8710E-03	-.7046E 01	.8136E 00	.2698E-03	.8139E-04	.1612E 03	.2452E 02
155	.8945E-03	-.7019E 01	.8402E 00	.2771E-03	.8360E-04	.1569E 03	.2387E 02
160	.9187E-03	-.6993E 01	.8669E 00	.2846E-03	.8585E-04	.1528E 03	.2326E 02
165	.9435E-03	-.6966E 01	.8936E 00	.2923E-03	.8817E-04	.1488E 03	.2263E 02
170	.9690E-03	-.6939E 01	.9203E 00	.3002E-03	.9056E-04	.1448E 03	.2204E 02
175	.9952E-03	-.6913E 01	.9470E 00	.3083E-03	.9300E-04	.1410E 03	.2145E 02
180	.1022E-02	-.6886E 01	.0000E 00	.0000E 00	.0000E 00	.1373E 03	.2089E 02

SCATA= .1406E 00 30/45= .3591E 01 45/135= .6197E 01 SCAT30-130= .2135E-01

101/53 3 XII 63 16COH CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
0	.1593E 01	.4657E 00	-.2484E 00	-.1136E 02	.0000E 00	.6476E-01	.1087E-01
5	.6020E 00	-.5076E 00	-.1291E 01	-.4079E 01	.8341E 02	.1820E 00	.2877E-01
10	.2460E 00	-.1402E 01	-.2013E 01	-.1573E 01	.2871E 02	.4452E 00	.7040E-01
15	.1088E 00	-.2219E 01	-.2565E 01	-.6504E 00	.1057E 02	.1007E 01	.1592E 00
20	.5201E-01	-.2956E 01	-.2955E 01	-.2877E 00	.4156E 01	.2106E 01	.3330E 00
25	.2690E-01	-.3616E 01	-.3259E 01	-.1381E 00	.1719E 01	.4072E 01	.6439E 00
30	.1485E-01	-.4210E 01	-.3379E 01	-.6908E-01	.7907E 00	.7377E 01	.1166E 01
35	.8821E-02	-.4731E 01	-.3003E 01	-.3339E-01	.4089E 00	.1242E 02	.1964E 01
40	.5907E-02	-.5132E 01	-.3162E 01	-.2106E-01	.1615E 00	.1856E 02	.2932E 01
45	.4070E-02	-.5504E 01	-.2483E 01	-.1073E-01	.1181E 00	.2691E 02	.4255E 01
50	.3135E-02	-.5766E 01	-.2507E 01	-.7633E-02	.3555E-01	.3496E 02	.5527E 01
55	.2467E-02	-.6005E 01	-.2682E 01	-.5885E-02	.2003E-01	.4439E 02	.7019E 01
60	.1919E-02	-.6238E 01	-.2784E 01	-.4573E-02	.1618E-01	.5406E 02	.8864E 01
65	.1504E-02	-.6461E 01	-.3194E 01	-.3776E-02	.7981E-02	.7005E 02	.1108E 02
70	.1214E-02	-.6697E 01	-.2712E 01	-.2413E-02	.1562E-01	[illegible]	.1403E 02
75	.1024E-02	-.6885E 01	-.1549E 01	-.1116E-02	.1486E-01	.1070E 03	.1692E 02
80	.9261E-03	-.6984E 01	-.1660E 01	-.1016E-02	.1166E-02	.1183E 03	.1870E 02
85	.8375E-03	-.7085E 01	-.2834E 01	-.1435E-02	-.4806E-02	.1308E 03	.2068E 02
90	.7122E-03	-.7247E 01	-.9474E 00	-.4054E-03	.1180E-01	.1538E 03	.2432E 02
95	.6768E-03	-.7298E 01	-.1506E 01	-.5765E-03	-.1961E-02	.1618E 03	.2559E 02
100	.6285E-03	-.7372E 01	.1260E 00	.4358E-04	.7106E-02	.1744E 03	.2764E 02
105	.6303E-03	-.7369E 01	-.3941E 00	-.1312E-03	-.2003E-02	.1738E 03	.2748E 02
110	.6187E-03	-.7388E 01	-.1025E 01	-.3159E-03	-.2117E-02	.1770E 03	.2799E 02
115	.5913E-03	-.7433E 01	-.7355E 00	-.2098E-03	.1227E-02	.1852E 03	.2929E 02
120	.5731E-03	-.7465E 01	.9644E 00	.2637E-03	.5614E-02	.1911E 03	.3022E 02
125	.5961E-03	-.7425E 01	.1067E 00	.2864E-04	-.2693E-02	.1838E 03	.2906E 02
130	.5986E-03	-.7421E 01	.1650E 00	.4284E-04	.1430E-03	.1830E 03	.2893E 02
135	.6023E-03	-.7415E 01	.2337E 00	.5892E-04	.1840E-03	.1819E 03	.2875E 02
140	.6075E-03	-.7406E 01	.2294E 00	.5624E-04	-.3068E-04	.1803E 03	.2851E 02
145	.6124E-03	-.7398E 01	.2374E 00	.5671E-04	.5204E-05	.1789E 03	.2828E 02
150	.6173E-03	-.7390E 01	.2455E 00	.5712E-04	.5256E-05	.1774E 03	.2806E 02
155	.6223E-03	-.7382E 01	.2535E 00	.5763E-04	.5289E-05	.1760E 03	.2783E 02
160	.6273E-03	-.7374E 01	.2616E 00	.5810E-04	.5362E-05	.1746E 03	.2761E 02
165	.6324E-03	-.7366E 01	.2696E 00	.5857E-04	.5381E-05	.1732E 03	.2739E 02
170	.6375E-03	-.7358E 01	.2777E 00	.5904E-04	.5417E-05	.1718E 03	.2717E 02
175	.6427E-03	-.7350E 01	.2857E 00	.5952E-04	.5473E-05	.1704E 03	.2695E 02
180	.6479E-03	-.7342E 01	.0000E 00	.0000E 00	.0000E 00	.1691E 03	.2673E 02

SCATA= .1085E 00 30/45= .3668E 01 45/135= .6758E 01 SCAT30-130= .1232E-01

101/54 3 XII 63 17COH CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
0	.1273E 01	.2415E 00	-.2618E 00	-.8922E 01	.0000E 00	.7388E-01	.1253E-01
5	.4946E 00	-.7041E 00	-.1253E 01	-.3290E 01	.6453E 02	.1902E 00	.3224E-01
10	.2076E 00	-.1573E 01	-.1356E 01	-.1300E 01	.2280E 02	.4536E 00	.7687E-01
15	.9394E-01	-.2365E 01	-.2487E 01	-.5501E 00	.8599E 01	.1002E 01	.1697E 00
20	.4594E-01	-.3080E 01	-.2862E 01	-.2685E 00	.3454E 01	.2047E 01	.3471E 00
25	.2425E-01	-.3719E 01	-.3211E 01	-.1237E 00	.1436E 01	.3878E 01	.6575E 00
30	.1351E-01	-.4305E 01	-.3266E 01	-.6122E-01	.7096E 00	.6963E 01	.1181E 01
35	.8164E-02	-.4808E 01	-.2754E 01	-.3050E-01	.3521E 00	.1152E 02	.1953E 01
40	.5503E-02	-.5202E 01	-.2922E 01	-.1836E-01	.1391E 00	.1709E 02	.2898E 01
45	.3900E-02	-.5547E 01	-.2490E 01	-.1078E-01	.9262E-01	.2411E 02	.4088E 01
50	.3003E-02	-.5808E 01	-.2849E 01	-.8309E-02	.2258E-01	.3131E 02	.5309E 01
55	.2276E-02	-.6084E 01	-.2696E 01	-.5459E-02	.3266E-01	.4128E 02	.6999E 01
60	.1802E-02	-.6319E 01	-.2235E 01	-.4060E-02	.1603E-01	.5219E 02	.8849E 01
65	.1448E-02	-.6538E 01	-.3370E 01	-.3666E-02	.4514E-02	.6497E 02	.1101E 02
70	.1128E-02	-.6787E 01	-.2214E 01	-.1831E-02	.2103E-01	.8339E 02	.1414E 02
75	.9681E-03	-.6940E 01	-.2436E 01	-.1614E-02	.2480E-02	.9715E 02	.1647E 02
80	.8272E-03	-.7097E 01	-.1650E 01	-.9025E-03	.8154E-02	.1137E 03	.1928E 02
85	.7485E-03	-.7197E 01	-.2619E 01	-.1193E-02	-.3324E-02	.1257E 03	.2131E 02
90	.6444E-03	-.7347E 01	-.1421E 01	-.5462E-03	.7407E-02	.1460E 03	.2475E 02
95	.5967E-03	-.7424E 01	-.8825E 00	-.3026E-03	.2791E-02	.1576E 03	.2672E 02
100	.5703E-03	-.7469E 01	-.8735E 00	-.2718E-03	.3296E-03	.1649E 03	.2796E 02
105	.5464E-03	-.7512E 01	-.2879E 00	-.8330E-04	.2184E-02	.1721E 03	.2918E 02
110	.5391E-03	-.7526E 01	-.1108E 01	-.2969E-03	-.2447E-02	.1745E 03	.2958E 02
115	.5132E-03	-.7575E 01	-.6574E 00	-.1673E-03	.1542E-02	.1833E 03	.3107E 02
120	.4991E-03	-.7603E 01	-.1502E 01	-.3496E-03	-.1459E-02	.1885E 03	.3195E 02
125	.4960E-03	-.7609E 01	-.4280E 00	-.9462E-04	-.6836E-03	.1896E 03	.3215E 02
130	.4878E-03	-.7626E 01	.5600E 00	.1136E-03	.2452E-02	.1928E 03	.3268E 02
135	.4982E-03	-.7605E 01	-.6088E 00	-.1250E-03	-.2800E-02	.1888E 03	.3201E 02
140	.4873E-03	-.7627E 01	-.2349E 00	-.4584E-04	.9072E-03	.1930E 03	.3273E 02
145	.4833E-03	-.7635E 01	-.2432E 00	-.4546E-04	.4316E-05	.1946E 03	.3300E 02
150	.4793E-03	-.7643E 01	-.2514E 00	-.4509E-04	.4269E-05	.1962E 03	.3327E 02
155	.4754E-03	-.7651E 01	-.2596E 00	-.4472E-04	.4250E-05	.1979E 03	.3355E 02
160	.4715E-03	-.7660E 01	-.2679E 00	-.4435E-04	.4199E-05	.1995E 03	.3382E 02
165	.4676E-03	-.7668E 01	-.2761E 00	-.4399E-04	.4180E-05	.2011E 03	.3410E 02
170	.4638E-03	-.7676E 01	-.2844E 00	-.4363E-04	.4135E-05	.2028E 03	.3439E 02
175	.4599E-03	-.7684E 01	-.2926E 00	-.4327E-04	.4105E-05	.2045E 03	.3467E 02
180	.4562E-03	-.7693E 01	.0000E 00	.0000E 00	.0000E 00	.2062E 03	.3496E 02

SCATA= .9605E-01 30/45= .3463E 01 45/135= .7830E 01 SCAT30-130= .1595E-01

101/55 3.X11.A3.10CCM CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
0	.2393E 01	.8727E 00	-.7521E 00	-.1719E 02	.0000E 00	.6629E-01	.1005E-01
5	.8930E 00	-.1132E 00	-.1306E 01	-.6095E 01	.1272E 03	.1776E 00	.2694E-01
10	.3611E 00	-.1019E 01	-.2034E 01	-.2324E 01	.6321E 02	.4393E 00	.6662E-01
15	.1583E 00	-.1843E 01	-.2507E 01	-.9520E 00	.1572E 02	.1002E 01	.1520E 00
20	.7521E-01	-.2587E 01	-.2974E 01	-.4186E 00	.4120E 01	.2109E 01	.3199E 00
25	.3873E-01	-.3251E 01	-.3200E 01	-.2001E 00	.2497E 01	.4095E 01	.6211E 00
30	.2127E-01	-.3850E 01	-.3284E 01	-.9682E-01	.1109E 01	.7450E 01	.1131E 01
35	.1282E-01	-.4357E 01	-.3043E 01	-.4904E-01	.5472E 00	.1237E 02	.1874E 01
40	.8561E-02	-.4763E 01	-.3105E 01	-.3061E-01	.2114E 00	.1853E 02	.2817E 01
45	.5869E-02	-.5138E 01	-.2289E 01	-.1410E-01	.1860E 00	.2703E 02	.4099E 01
50	.5119E-02	-.5279E 01	-.3316E 01	-.1431E-01	.7713E-03	.3430E 02	.5213E 01
55	.3366E-02	-.5694E 01	-.2603E 01	-.7817E-02	.7441E-01	.4713E 02	.7148E 01
60	.2683E-02	-.5921E 01	-.2315E 01	-.5204E-02	.2998E-01	.5911E 02	.8965E 01
65	.2230E-02	-.6106E 01	-.4293E 01	-.5518E-02	-.3635E-02	.7115E 02	.1079E 02
70	.1768E-02	-.6338E 01	-.2263E 01	-.2824E-02	.3005E-01	.8675E 02	.1326E 02
75	.1495E-02	-.6505E 01	-.2281E 01	-.2346E-02	.6302E-02	.1061E 03	.1609E 02
80	.1291E-02	-.6653E 01	-.3924E 01	-.3168E-02	-.9415E-02	.1229E 03	.1866E 02
85	.1014E-02	-.6894E 01	-.1133E 01	-.8528E-03	.2653E-01	.1564E 03	.2372E 02
90	.9370E-03	-.6970E 01	-.2671E 01	-.1161E-02	-.1298E-02	.1408E 03	.2540E 02
95	.8432E-03	-.7082E 01	-.1359E 01	-.6443E-03	.5641E-02	.1696E 03	.2863E 02
100	.7837E-03	-.7152E 01	-.1492E 01	-.5025E-03	.1613E-02	.2070E 03	.3070E 02
105	.7394E-03	-.7210E 01	-.1243E 00	-.4887E-04	.5256E-02	.2149E 03	.3254E 02
110	.7351E-03	-.7215E 01	-.9681E 00	-.3569E-03	-.1507E-02	.2156E 03	.3213E 02
115	.7041E-03	-.7259E 01	-.9161E 00	-.3085E-03	.5310E-03	.2253E 03	.3417E 02
120	.6822E-03	-.7290E 01	-.8580E 00	-.2671E-03	.4798E-03	.2342E 03	.3552E 02
125	.6519E-03	-.7335E 01	-.1290E 01	-.3710E-03	-.1200E-02	.2476E 03	.3679E 02
130	.6215E-03	-.7383E 01	-.7290E 00	-.1882E-03	.6537E-02	.2352E 03	.3621E 02
135	.6300E-03	-.7356E 01	-.1449E 01	-.3746E-03	-.6570E-02	.2483E 03	.3766E 02
140	.6061E-03	-.7408E 01	-.7291E 00	-.1972E-03	.2091E-02	.2417E 03	.3969E 02
145	.5893E-03	-.7437E 01	-.8778E 00	-.1869E-03	.6095E-04	.2692E 03	.4002E 02
150	.5730E-03	-.7465E 01	-.8338E 00	-.1817E-03	.5927E-04	.2268E 03	.4100E 02
155	.5572E-03	-.7493E 01	-.8439E 00	-.1767E-03	.5762E-04	.2847E 03	.4318E 02
160	.5417E-03	-.7521E 01	-.8120E 00	-.1718E-03	.5603E-04	.2928E 03	.4401E 02
165	.5268E-03	-.7549E 01	-.9401E 00	-.1670E-03	.5448E-04	.3011E 03	.4567E 02
170	.5122E-03	-.7577E 01	-.9681E 00	-.1624E-03	.5298E-04	.3097E 03	.4492E 02
175	.4980E-03	-.7605E 01	-.9962E 00	-.1579E-03	.5150E-04	.3185E 03	.4631E 02
180	.4842E-03	-.7633E 01	.0000E 00	.0000E 00	.0000E 00	.3276E 03	.4900E 02

[illegible] .1504E 00 30/45= .3626E 01 45/135= .8188E 01 SCAT30-130= .2606E-01

101/56 3.X11.A3.13CCM. CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

101/57.3 X11.A3.20CCM CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

101/58.3 X11.A3.21CCM. CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

101/59.3 X11.A3.22CCM CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

101/60 3.X11.A3.23CCM. CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

101/61.5 X11.A3.01CCM CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

101/62.6 X11.A3.03CCM. CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

101/63.5 X11.A3.05CCM CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

C101/64 4 XII 63 0950 CELL+2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
165	.7594E-03	-.7183E 01	-.1972E 00	-.5109E-04	.3462E-05	.1238E 03	.3115E 02
170	.7546E-03	-.7189E 01	-.2031E 00	-.5029E-04	.3447E-05	.1243E 03	.3117E 02
175	.7505E-03	-.7195E 01	-.2090E 00	-.5049E-04	.3411E-05	.1251E 03	.3119E 02
180	.7461E-03	-.7201E 01	.0000E 00	.0000E 00	.0000E 00	.1260E 03	.3411E 02

C101/65 4 XII 63 1140H CELL+2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	.9185E-03	-.6993E 01	.2710E 00	.8550E-04	.7896E-05	.1028E 03	.2546E 02
170	.9260E-03	-.6985E 01	.2781E 00	.8622E-04	.7973E-05	.1020E 03	.2524E 02
175	.9335E-03	-.6977E 01	.2472E 00	.8690E-04	.8009E-05	.1012E 03	.2506E 02
180	.9411E-03	-.6968E 01	.0000E 00	.0000E 00	.0000E 00	.1006E 03	.2485E 02

C101/66 4XII63 CELL+2 1135H STA 1575 PIPE SURFACE

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
165	.5518E-03	-.7502E 01	.4748E 00	.9026E-04	.1455E-04	.8081E 02	.2411E 02
170	.5597E-03	-.7488E 01	.4889E 00	.9155E-04	.1472E-04	.7967E 02	.2377E 02
175	.5677E-03	-.7474E 01	.5031E 00	.9286E-04	.1490E-04	.7855E 02	.2343E 02
180	.5758E-03	-.7460E 01	.0000E 00	.0000E 00	.0000E 00	.7746E 02	.2310E 02

C101/67 4XII63 CELL+2 1410H STA 1575 SURFACE

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
0	.1529E 01	.4243E 00	-.2526E 00	-.1023E 02	.0000E 00	.4746E-01	.1100E-01
5	.5641E 00	-.5637E 00	-.1307E 01	-.3086E 01	.8145E 02	.1811E 00	.2954E-01
10	.2300E 00	-.1470E 01	-.2032E 01	-.1479E 01	.2758E 02	.4482E 00	.7310E-01
15	.1009E 00	-.2294E 01	-.2540E 01	-.6057E 00	.1001E 02	.1022E 01	.1666E 00
20	.4803E-01	-.3036E 01	-.2352E 01	-.2660E 00	.3892E 01	.2146E 01	.3500E 00
25	.2402E-01	-.3696E 01	-.3266E 01	-.1276E 00	.1546E 01	.4153E 01	.6773E 00
30	.1360E-01	-.4291E 01	-.3050E 01	-.5892E-01	.7882E 00	.7332E 01	.1229E 01
35	.8552E-02	-.4762E 01	-.3465E 01	-.3610E-01	.2580E 00	.1205E 02	.1966E 01
40	.5386E-02	-.5226E 01	-.2538E 01	-.1546E-01	.2333E 00	.1916E 02	.3122E 01
45	.3993E-02	-.5523E 01	-.2522E 01	-.1068E-01	.6090E-01	.2581E 02	.4210E 01
50	.3061E-02	-.5789E 01	-.2472E 01	-.7364E-02	.1797E-01	.3367E 02	.5492E 01
55	.2419E-02	-.6025E 01	-.2640E 01	-.5666E-02	.1921E-01	.4262E 02	.6951E 01
60	.1922E-02	-.6254E 01	-.3165E 01	-.4921E-02	.4603E-02	.5362E 02	.8745E 01
65	.1492E-02	-.6508E 01	-.9205E 00	-.1120E-02	.4356E-01	.6908E 02	.1127E 02
70	.1396E-02	-.6576E 01	-.6071E 01	-.3911E-02	-.3109E-01	.7395E 02	.1206E 02
75	.1052E-02	-.6857E 01	-.2316E 01	-.1675E-02	.2563E-01	.9796E 02	.1597E 02
80	.9063E-03	-.7006E 01	-.1290E 01	-.1161E-02	.5663E-02	.1137E 03	.1855E 02
85	.8033E-03	-.7127E 01	-.1695E 01	-.8500E-03	.3780E-02	.1283E 03	.2093E 02
90	.7291E-03	-.7224E 01	-.1272E 01	-.5553E-03	.3377E-02	.1413E 03	.2306E 02
95	.6807E-03	-.7292E 01	-.1248E 01	-.4810E-03	.8194E-03	.1514E 03	.2470E 02
100	.6384E-03	-.7356E 01	-.1203E 01	-.4120E-03	.7650E-04	.1614E 03	.2633E 02
105	.6021E-03	-.7415E 01	-.8580E 00	-.2702E-03	.1603E-02	.1712E 03	.2792E 02
110	.5785E-03	-.7455E 01	-.3340E 00	-.9793E-04	.1975E-02	.1782E 03	.2906E 02
115	.5699E-03	-.7470E 01	-.4531E 00	-.1267E-03	-.3071E-03	.1809E 03	.2950E 02
120	.5590E-03	-.7489E 01	.9188E 00	.1105E-03	.2695E-02	.1844E 03	.3007E 02
125	.5687E-03	-.7472E 01	-.7933E 00	-.1596E-03	-.3554E-02	.1813E 03	.2956E 02
130	.5813E-03	-.7450E 01	.1236E 01	.3013E-03	.5762E-02	.1870E 03	.3050E 02
135	.5776E-03	-.7457E 01	-.4525E 00	-.1008E-03	-.4690E-02	.1785E 03	.2911E 02
140	.5681E-03	-.7473E 01	.3529E-01	.8181E-05	.1332E-02	.1816E 03	.2959E 02
145	.5688E-03	-.7472E 01	.3704E-01	.8192E-05	.1194E-06	.1812E 03	.2955E 02
150	.5696E-03	-.7471E 01	.3880E-01	.8202E-05	.1163E-06	.1810E 03	.2952E 02
155	.5703E-03	-.7469E 01	.3995E-01	.8212E-05	.1137E-06	.1807E 03	.2948E 02
160	.5710E-03	-.7468E 01	.4081E-01	.8222E-05	.1233E-06	.1805E 03	.2944E 02
165	.5717E-03	-.7467E 01	.4267E-01	.8233E-05	.1185E-06	.1803E 03	.2941E 02
170	.5726E-03	-.7466E 01	.6333E-01	.8263E-05	.1185E-06	.1801E 03	.2937E 02
175	.5731E-03	-.7464E 01	.4458E-01	.8253E-05	.1175E-06	.1798E 03	.2933E 02
180	.5739E-03	-.7463E 01	.0000E 00	.0000E 00	.0000E 00	.1796E 03	.2930E 02

SCAT= .1031E 00   30/45= .3427E 01   45/135= .4814E 01   SCAT30-130= .1681E-01

C101/68 4XII63 1425H STA 1575 50M BOTTLE

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
0	.1238E 01	.2134E 00	-.2298E 00	-.8514E 01	.0000E 00	.8611E-01	.1225E-01
5	.5042E 00	-.6848E 00	-.1190E 01	-.3245E 01	.5924E 02	.2115E 00	.4360E-01
10	.2211E 00	-.1509E 01	-.1851E 01	-.1333E 01	.2194E 02	.4826E 00	.9945E-01
15	.1044E 00	-.2260E 01	-.2351E 01	-.5879E 00	.8585E 01	.1022E 01	.2106E 00
20	.5308E-01	-.2936E 01	-.2659E 01	-.2752E 00	.3508E 01	.2009E 01	.4142E 00
25	.2907E-01	-.3538E 01	-.2949E 01	-.1385E 00	.1566E 01	.3669E 01	.7564E 00
30	.1690E-01	-.4076E 01	-.2547E 01	-.7152E-01	.7625E 00	.6201E 01	.1275E 01
35	.1070E-01	-.4538E 01	-.2512E 01	-.3493E-01	.4245E 00	.9969E 01	.2055E 01
40	.7468E-02	-.4873E 01	-.3260E 01	-.2795E-01	.4002E-01	.1396E 02	.2874E 01
45	.5209E-02	-.5257E 01	-.1695E 01	-.9761E-02	.2084E 00	.2047E 02	.4220E 01
50	.4398E-02	-.5436E 01	-.3298E 01	-.1363E-01	-.4269E-01	.2447E 02	.5045E 01
55	.3182E-02	-.5750E 01	-.2903E 01	-.8139E-02	.6108E-01	.3351E 02	.6909E 01
60	.2472E-02	-.6003E 01	-.2182E 01	-.6530E-02	.4125E-01	.4316E 02	.8896E 01
65	.2076E-02	-.6177E 01	-.2402E 01	-.3878E-02	.7571E-02	.5137E 02	.1059E 02
70	.1737E-02	-.6355E 01	-.2888E 01	-.3597E-02	.1224E-02	.6138E 02	.1265E 02
75	.1473E-02	-.6555E 01	-.2256E 01	-.2210E-02	.1589E-01	.7492E 02	.1544E 02
80	.1231E-02	-.6700E 01	-.2281E 01	-.2188E-02	.2560E-03	.8666E 02	.1787E 02
85	.1040E-02	-.6863E 01	-.1270E 01	-.8340E-03	.1551E-01	.1026E 03	.2115E 02
90	.9669E-03	-.6961E 01	-.1851E 01	-.8359E-03	-.2172E-04	.1103E 03	.2276E 02
95	.8939E-03	-.7020E 01	-.9903E 00	-.5073E-03	.3764E-02	.1193E 03	.2459E 02
100	.8436E-03	-.7078E 01	-.1440E 01	-.7683E-03	-.2264E-02	.1255E 03	.2587E 02
105	.7843E-03	-.7151E 01	-.2722E 00	-.1131E-03	.7265E-02	.1360E 03	.2803E 02
110	.7766E-03	-.7163E 01	-.1036E 01	-.3986E-03	-.3282E-02	.1377E 03	.2839E 02
115	.7396E-03	-.7209E 01	-.7321E 00	-.2600E-03	.1599E-02	.1442E 03	.2973E 02
120	.7160E-03	-.7241E 01	-.1400E 01	-.4564E-03	-.2253E-02	.1488E 03	.3067E 02
125	.6770E-03	-.7298E 01	-.1000E 01	-.2985E-03	.1810E-02	.1575E 03	.3247E 02
130	.6510E-03	-.7337E 01	.3386E 01	.3022E-03	.1147E-01	.1638E 03	.3377E 02
135	.7123E-03	-.7247E 01	-.1911E 01	-.5479E-03	-.1432E-01	.1497E 03	.3086E 02
140	.6645E-03	-.7317E 01	-.4888E 00	-.1285E-03	.4784E-02	.1605E 03	.3309E 02
145	.6532E-03	-.7334E 01	-.5060E 00	-.1273E-03	.2523E-04	.1613E 03	.3366E 02
150	.6421E-03	-.7351E 01	-.5231E 00	-.1261E-03	.2483E-04	.1661E 03	.3424E 02
155	.6311E-03	-.7368E 01	-.5403E 00	-.1250E-03	.2440E-04	.1690E 03	.3483E 02
160	.6204E-03	-.7385E 01	-.5574E 00	-.1200E-03	.2400E-04	.1719E 03	.3544E 02
165	.6098E-03	-.7402E 01	-.5746E 00	-.1189E-03	.2356E-04	.1749E 03	.3605E 02
170	.5995E-03	-.7419E 01	-.5918E 00	-.1160E-03	.2317E-04	.1779E 03	.3667E 02
175	.5893E-03	-.7437E 01	-.6089E 00	-.1149E-03	.2277E-04	.1810E 03	.3731E 02
180	.5793E-03	-.7454E 01	.0000E 00	.0000E 00	.0000E 00	.1841E 03	.3795E 02

SCAT= .1064E 00   30/45= .3258E 01   45/135= .7314E 01   SCAT30-130= .2188E-01

C101/69 4XII63 1440H STA 1575 100M BOTTLE

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
0	.1313E 00	-.6899E-01	-.1989E 00	-.5782E 01	.0000E 00	.1131E 00	.2508E-01
5	.4288E 00	-.8468E 00	-.1043E 01	-.2529E 01	.3728E 02	.2461E 00	.5634E-01
10	.2081E 00	-.1570E 01	-.1449E 01	-.1162E 01	.1566E 02	.5072E 00	.1161E 00
15	.1047E 00	-.2234E 01	-.2132E 01	-.5604E 00	.6894E 01	.9894E 00	.2265E 00
20	.5776E-01	-.2851E 01	-.2502E 01	-.2833E 00	.3176E 01	.1827E 01	.4102E 00
25	.3304E-01	-.3410E 01	-.2845E 01	-.1553E 00	.1490E 01	.3196E 01	.7311E 00
30	.1967E-01	-.3929E 01	-.2981E 01	-.8260E-01	.8097E 00	.5366E 01	.1228E 01
35	.1246E-01	-.4385E 01	-.2236E 01	-.4631E-01	.4158E 00	.8470E 01	.1939E 01
40	.8619E-02	-.4777E 01	-.2336E 01	-.2820E-01	.2076E 00	.1224E 02	.2870E 01
45	.5958E-02	-.5123E 01	-.2742E 01	-.1713E-01	.1269E 00	.1771E 02	.4055E 01
50	.4463E-02	-.5412E 01	-.2694E 01	-.1158E-01	.6355E-01	.2365E 02	.5413E 01
55	.3452E-02	-.5669E 01	-.2530E 01	-.7816E-02	.4319E-01	.3057E 02	.6998E 01
60	.2770E-02	-.5889E 01	-.3415E 01	-.7592E-02	.2565E-02	.3809E 02	.8720E 01
65	.2108E-02	-.6162E 01	-.1603E 01	-.2705E-02	.5601E-01	.5007E 02	.1146E 02
70	.1872E-02	-.6281E 01	-.2788E 01	-.3753E-02	-.1201E-01	.5638E 02	.1291E 02
75	.1544E-02	-.6473E 01	-.2487E 01	-.2624E-02	.1294E-01	.6834E 02	.1564E 02
80	.1315E-02	-.6634E 01	-.2036E 01	-.1750E-02	.1001E-01	.8026E 02	.1837E 02
85	.1163E-02	-.6757E 01	-.2630E 01	-.1859E-02	-.1250E-02	.9078E 02	.2078E 02
90	.1000E-02	-.6908E 01	-.1919E 01	-.1124E-02	.8368E-02	.1055E 03	.2415E 02
95	.9017E-03	-.7011E 01	-.8070E 00	-.4190E-03	.8141E-02	.1170E 03	.2679E 02
100	.8851E-03	-.7053E 01	-.2225E 00	-.1072E-03	.3525E-02	.1220E 03	.2792E 02
105	.8558E-03	-.7063E 01	-.2045E 01	-.8899E-03	-.8972E-02	.1233E 03	.2823E 02
110	.7781E-03	-.7159E 01	-.1132E 01	-.4393E-03	.5163E-02	.1356E 03	.3105E 02
115	.7398E-03	-.7209E 01	-.2742E 01	-.7714E-03	-.1006E-02	.1427E 03	.3266E 02
120	.6725E-03	-.7305E 01	.5025E-01	.1598E-04	.9023E-02	.1569E 03	.3593E 02
125	.6739E-03	-.7302E 01	-.8646E 00	-.2574E-03	-.3133E-02	.1566E 03	.3585E 02
130	.6514E-03	-.7336E 01	-.2554E 00	-.7167E-04	.2129E-02	.1620E 03	.3709E 02
135	.6451E-03	-.7346E 01	-.1211E 01	-.3186E-03	-.2829E-02	.1636E 03	.3745E 02
140	.6173E-03	-.7390E 01	-.8708E 00	-.2129E-03	.1211E-02	.1709E 03	.3913E 02
145	.5988E-03	-.7421E 01	-.9013E 00	-.2065E-03	.7342E-04	.1763E 03	.4035E 02
150	.5807E-03	-.7451E 01	-.9319E 00	-.2003E-03	.7121E-04	.1817E 03	.4160E 02
155	.5633E-03	-.7482E 01	-.9625E 00	-.1942E-03	.6906E-04	.1874E 03	.4289E 02
160	.5463E-03	-.7512E 01	-.9930E 00	-.1884E-03	.6700E-04	.1932E 03	.4422E 02
165	.5299E-03	-.7543E 01	-.1024E 01	-.1827E-03	.6497E-04	.1992E 03	.4559E 02
170	.5139E-03	-.7573E 01	-.1054E 01	-.1772E-03	.6301E-04	.2053E 03	.4701E 02
175	.4985E-03	-.7604E 01	-.1085E 01	-.1719E-03	.6112E-04	.2117E 03	.4847E 02
180	.4835E-03	-.7635E 01	.0000E 00	.0000E 00	.0000E 00	.2183E 03	.4997E 02

SCAT= .1055E 00   30/45= .1301E 01   45/135= .9235E 01   SCAT30-130= .2614E-01

C101/70 4XII63 STA1575 400M BOTTLE

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2551E 00	-.1366E 01	-.2001E 00	-.1542E 01	.0000E 00	.1236E 00	.3311E-01
5	.1167E 00	-.2149E 01	-.1043E 01	-.6801E 00	.1030E 02	.2703E 00	.7204E-01
10	.5661E-01	-.2872E 01	-.1637E 01	-.3166E 00	.4286E 01	.5569E 00	.1501E 00
15	.2715E-01	-.3535E 01	-.2100E 01	-.1515E 00	.1069E 01	.1081E 01	.2915E 00
20	.1593E-01	-.4139E 01	-.2461E 01	-.7668E-01	.8572E 00	.1979E 01	.5313E 00
25	.9241E-02	-.4684E 01	-.2733E 01	-.4155E-01	.4025E 00	.3412E 01	.9195E 00
30	.5616E-02	-.5182E 01	-.2427E 01	-.2273E-01	.2157E 00	.5615E 01	.1513E 01
35	.3631E-02	-.5618E 01	-.2694E 01	-.1257E-01	.1164E 00	.8683E 01	.2340E 01
40	.2536E-02	-.5974E 01	-.2672E 01	-.7860E-02	.5622E-01	.1244E 02	.3353E 01
45	.1850E-02	-.6293E 01	-.2986E 01	-.4712E-02	.3584E-01	.1704E 02	.4594E 01
50	.1439E-02	-.6544E 01	-.2782E 01	-.3065E-02	.9932E-02	.2192E 02	.5907E 01
55	.1103E-02	-.6810E 01	-.1595E 01	-.1580E-02	.2595E-01	.2858E 02	.7704E 01
60	.9650E-03	-.6943E 01	-.2349E 01	-.2146E-02	-.6920E-02	.3267E 02	.8805E 01
65	.7744E-03	-.7163E 01	-.1994E 01	-.1218E-02	.1107E-01	.4071E 02	.1097E 02
70	.6681E-03	-.7311E 01	-.1871E 01	-.9368E-03	.3330E-02	.4718E 02	.1272E 02
75	.5872E-03	-.7440E 01	-.1440E 01	-.5973E-03	.3777E-02	.5369E 02	.1447E 02
80	.5351E-03	-.7533E 01	-.2305E 01	-.7888E-03	-.2321E-02	.5892E 02	.1588E 02
85	.4653E-03	-.7673E 01	-.6395E 00	-.1914E-03	.6972E-02	.6776E 02	.1826E 02
90	.4486E-03	-.7709E 01	-.1310E 00	-.2966E-04	.1653E-02	.7028E 02	.1894E 02
95	.4460E-03	-.7715E 01	-.4593E 00	-.1216E-03	-.1053E-02	.7069E 02	.1905E 02
100	.4356E-03	-.7739E 01	-.1066E-01	-.2560E-05	.1363E-02	.7241E 02	.1953E 02
105	.4352E-03	-.7740E 01	.2754E 00	.6430E-04	.7665E-03	.7245E 02	.1953E 02
110	.4408E-03	-.7727E 01	.7021E 00	.1853E-03	.2515E-02	.7152E 02	.1928E 02
115	.4272E-03	-.7758E 01	-.1122E 00	-.2333E-04	.1511E-02	.7379E 02	.1989E 02
120	.4252E-03	-.7763E 01	.3494E 00	.6345E-04	.1000E-02	.7414E 02	.1998E 02
125	.4308E-03	-.7750E 01	.4595E 00	.1293E-03	.7493E-03	.7318E 02	.1973E 02
130	.4421E-03	-.7724E 01	.1638E 01	.3334E-03	.2213E-02	.7133E 02	.1922E 02
135	.4702E-03	-.7662E 01	.3478E-01	.7604E-05	-.3607E-02	.6705E 02	.1807E 02
140	.4708E-03	-.7661E 01	.6649E 00	.1264E-03	.1358E-02	.6696E 02	.1805E 02
145	.4818E-03	-.7638E 01	.6900E 00	.1289E-03	.3362E-04	.6544E 02	.1764E 02
150	.4931E-03	-.7615E 01	.7030E 00	.1318E-03	.3441E-04	.6394E 02	.1723E 02
155	.5046E-03	-.7592E 01	.7261E 00	.1348E-03	.3521E-04	.6248E 02	.1684E 02
160	.5163E-03	-.7569E 01	.7491E 00	.1380E-03	.3603E-04	.6106E 02	.1646E 02
165	.5284E-03	-.7546E 01	.7722E 00	.1412E-03	.3687E-04	.5967E 02	.1608E 02
170	.5407E-03	-.7523E 01	.7952E 00	.1445E-03	.3774E-04	.5831E 02	.1572E 02
175	.5533E-03	-.7500E 01	.8183E 00	.1479E-03	.3860E-04	.5698E 02	.1536E 02
180	.5662E-03	-.7477E 01	.0000E 00	.0000E 00	.0000E 00	.5568E 02	.1501E 02

SCAT= .3153E-01   30/45= .3035E 01   45/135= .3034E 01   SCAT30-130= .8497E-02

C101/71 4XII63 1520M STA 1575 700M BOTTLE

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2405E 00	-.1345E 01	-.1819E 00	-.1528E 01	.0000E 00	.1482E 00	.4296E-01
5	.1278E 00	-.2057E 01	-.9556E 00	-.7096E 00	.9282E 01	.3019E 00	.8753E-01
10	.6592E-01	-.2719E 01	-.1512E 01	-.3462E 00	.4164E 01	.5855E 00	.1698E 00
15	.3571E-01	-.3332E 01	-.1960E 01	-.1763E 00	.1947E 01	.1081E 01	.3134E 00
20	.2032E-01	-.3896E 01	-.2304E 01	-.9365E-01	.9475E 00	.1900E 01	.5508E 00
25	.1215E-01	-.4411E 01	-.2677E 01	-.5375E-01	.4572E 00	.3178E 01	.9214E 00
30	.7456E-02	-.4899E 01	-.2624E 01	-.2862E-01	.2903E 00	.5178E 01	.1501E 01
35	.4974E-02	-.5303E 01	-.2792E 01	-.1774E-01	.1223E 00	.7759E 01	.2250E 01
40	.3474E-02	-.5662E 01	-.2695E 01	-.1136E-01	.1333E-01	.1112E 02	.3224E 01
45	.2436E-02	-.6017E 01	-.2363E 01	-.6153E-02	.5947E-01	.1584E 02	.4593E 01
50	.1899E-02	-.6266E 01	-.2376E 01	-.4411E-02	.1596E-01	.2032E 02	.5892E 01
55	.1514E-02	-.6493E 01	-.2524E 01	-.3426E-02	.1129E-01	.2549E 02	.7389E 01
60	.1215E-02	-.6713E 01	-.1992E 01	-.2053E-02	.1573E-01	.3176E 02	.9207E 01
65	.1036E-02	-.6872E 01	-.1998E 01	-.1558E-02	.5671E-02	.3725E 02	.1080E 02
70	.9003E-03	-.7013E 01	-.2494E 01	-.1750E-02	-.2198E-02	.4287E 02	.1243E 02
75	.7476E-03	-.7199E 01	-.1993E 01	-.1034E-02	.8204E-02	.5163E 02	.1497E 02
80	.6576E-03	-.7327E 01	-.9477E 00	-.2195E-03	.9331E-02	.5871E 02	.1702E 02
85	.6382E-03	-.7357E 01	-.1967E 01	-.7775E-03	-.6399E-02	.6047E 02	.1753E 02
90	.5706E-03	-.7469E 01	-.2481E 00	-.8708E-04	.7916E-02	.6767E 02	.1962E 02
95	.5628E-03	-.7483E 01	-.3061E 00	-.1005E-03	-.1535E-03	.6859E 02	.1988E 02
100	.5540E-03	-.7498E 01	-.2106E 00	-.2163E-03	-.1323E-02	.6967E 02	.2020E 02
105	.5351E-03	-.7533E 01	-.1482E 00	-.4212E-04	.1995E-02	.7213E 02	.2091E 02
110	.5316E-03	-.7540E 01	-.8781E-01	-.2331E-03	-.2189E-02	.7263E 02	.2106E 02
115	.5111E-03	-.7579E 01	.1225E 01	.3133E-03	.6262E-02	.7552E 02	.2189E 02
120	.5386E-03	-.7527E 01	.7444E 00	.1954E-03	-.1350E-02	.7168E 02	.2078E 02
125	.5555E-03	-.7496E 01	-.6442E 00	-.1508E-03	-.4061E-02	.6948E 02	.2014E 02
130	.5416E-03	-.7521E 01	.2528E 00	.1789E-03	.3072E-02	.7126E 02	.2066E 02
135	.5571E-03	-.7492E 01	.6740E 00	.1585E-03	-.2340E-03	.6976E 02	.2008E 02
140	.5711E-03	-.7468E 01	.5096E 00	.1181E-03	-.4627E-03	.6759E 02	.1959E 02
145	.5814E-03	-.7450E 01	.5275E 00	.1202E-03	.2441E-04	.6639E 02	.1925E 02
150	.5919E-03	-.7432E 01	.5454E 00	.1224E-03	.2485E-04	.6521E 02	.1891E 02
155	.6026E-03	-.7414E 01	.5633E 00	.1246E-03	.2531E-04	.6406E 02	.1857E 02
160	.6134E-03	-.7396E 01	.5812E 00	.1268E-03	.2576E-04	.6292E 02	.1824E 02
165	.6245E-03	-.7379E 01	.5990E 00	.1291E-03	.2623E-04	.6181E 02	.1792E 02
170	.6358E-03	-.7361E 01	.6169E 00	.1315E-03	.2669E-04	.6071E 02	.1760E 02
175	.6472E-03	-.7343E 01	.6348E 00	.1338E-03	.2719E-04	.5963E 02	.1729E 02
180	.6589E-03	-.7325E 01	.0000E 00	.0000E 00	.0000E 00	.5858E 02	.1698E 02

SCAT= .3560E-01   30/45= .3060E 01   45/135= .4372E 01   SCAT30-130= .1118E-01

C4101/72 4XII63 1535H STA 1575 1000M BOTTLE

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3074E 00	-.1180E 01	-.1608E 00	-.1644E 01	.0000E 00	.1862E 00	.9983E-01
5	.1638E 00	-.1809E 01	-.8502E 00	-.8361E 00	.9264E 01	.3493E 00	.1122E 00
10	.9089E-01	-.2398E 01	-.1355E 01	-.4403E 00	.4935E 01	.6297E 00	.2023E 00
15	.5246E-01	-.2948E 01	-.1772E 01	-.2401E 00	.2295E 01	.1091E 01	.3505E 00
20	.3151E-01	-.3458E 01	-.2107E 01	-.1354E 00	.1200E 01	.1816E 01	.5836E 00
25	.1969E-01	-.3928E 01	-.2463E 01	-.8162E-01	.6163E 00	.2906E 01	.9339E 00
30	.1257E-01	-.4377E 01	-.2510E 01	-.4621E-01	.4058E 00	.4554E 01	.1463E 01
35	.8535E-02	-.4764E 01	-.2850E 01	-.3096E-01	.1747E 00	.6705E 01	.2154E 01
40	.5834E-02	-.5144E 01	-.2327E 01	-.1602E-01	.1712E 00	.9810E 01	.3152E 01
45	.4435E-02	-.5418E 01	-.2864E 01	-.1324E-01	.3108E-01	.1290E 02	.4146E 01
50	.3280E-02	-.5720E 01	-.2332E 01	-.7492E-02	.6587E-01	.1745E 02	.5606E 01
55	.2626E-02	-.5942E 01	-.2689E 01	-.6270E-02	.1391E-01	.2179E 02	.7002E 01
60	.2070E-02	-.6176E 01	-.2495E 01	-.4311E-02	.2256E-01	.2754E 02	.8868E 01
65	.1702E-02	-.6376E 01	-.2120E 01	-.2835E-02	.1691E-01	.3362E 02	.1080E 02
70	.1455E-02	-.6533E 01	-.2304E 01	-.2449E-02	.4421E-02	.3934E 02	.1264E 02
75	.1241E-02	-.6692E 01	-.2336E 01	-.1900E-02	.5263E-02	.4612E 02	.1482E 02
80	.1067E-02	-.6843E 01	-.1724E 01	-.1216E-02	.8096E-02	.5363E 02	.1723E 02
85	.9612E-03	-.6947E 01	-.1152E 01	-.7820E-03	.5864E-02	.5954E 02	.1913E 02
90	.9000E-03	-.7013E 01	-.1580E 01	-.8442E-03	-.1629E-02	.6359E 02	.2043E 02
95	.8263E-03	-.7099E 01	-.1669E 00	-.8073E-04	.8749E-02	.6926E 02	.2225E 02
100	.8193E-03	-.7107E 01	-.1475E 01	-.6517E-03	-.6543E-02	.6986E 02	.2245E 02
105	.7624E-03	-.7179E 01	-.4811E 00	-.1934E-03	.5253E-02	.7507E 02	.2412E 02
110	.7455E-03	-.7201E 01	-.8467E 00	-.3156E-03	-.1408E-02	.7677E 02	.2467E 02
115	.7180E-03	-.7239E 01	-.4616E-01	-.1615E-04	.3431E-02	.7971E 02	.2561E 02
120	.7166E-03	-.7241E 01	-.6117E 00	-.2025E-03	-.2135E-02	.7987E 02	.2566E 02
125	.6989E-03	-.7266E 01	-.4550E 00	-.1417E-03	.6972E-03	.8189E 02	.2631E 02
130	.6865E-03	-.7284E 01	-.2147E-01	-.6372E-05	.1550E-02	.8336E 02	.2678E 02
135	.6860E-03	-.7285E 01	-.4723E 00	-.1339E-03	-.1461E-02	.8343E 02	.2681E 02
140	.6743E-03	-.7302E 01	-.3818E 00	-.1028E-03	.3555E-03	.8487E 02	.2727E 02
145	.6653E-03	-.7315E 01	-.3952E 00	-.1015E-03	.1568E-04	.8602E 02	.2764E 02
150	.6565E-03	-.7329E 01	-.4086E 00	-.1001E-03	.1547E-04	.8718E 02	.2801E 02
155	.6477E-03	-.7342E 01	-.4220E 00	-.9878E-04	.1527E-04	.8835E 02	.2839E 02
160	.6391E-03	-.7355E 01	-.4354E 00	-.9746E-04	.1506E-04	.8955E 02	.2877E 02
165	.6306E-03	-.7369E 01	-.4488E 00	-.9617E-04	.1486E-04	.9075E 02	.2916E 02
170	.6222E-03	-.7382E 01	-.4622E 00	-.9489E-04	.1466E-04	.9198E 02	.2955E 02
175	.6139E-03	-.7396E 01	-.4756E 00	-.9362E-04	.1448E-04	.9322E 02	.2995E 02
180	.6058E-03	-.7409E 01	.0000E 00	.0000E 00	.0000E 00	.9448E 02	.3036E 02

SCAT= .5723E-01   30/45= .2834E 01   45/135= .6446E 01   SCAT30-130= .1839E-01

CR 101/79 5 XII 63 0020H CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3833E 00	-.9590E 00	-.1829E 00	-.2244E 01	.0000E 00	.1355E 00	.3499E-01
5	.1875E 00	-.1674E 01	-.9663E 00	-.1049E 01	.1370E 02	.2769E 00	.7027E-01
10	.9595E-01	-.2344E 01	-.1540E 01	-.5106E 00	.6166E 01	.5411E 00	.1373E 00
15	.5139E-01	-.2968E 01	-.2013E 01	-.2588E 00	.2889E 01	.1010E 01	.2563E 00
20	.2880E-01	-.3547E 01	-.2391E 01	-.1365E 00	.1402E 01	.1803E 01	.4574E 00
25	.1689E-01	-.4081E 01	-.2730E 01	-.7588E-01	.6943E 00	.3074E 01	.7799E 00
30	.1027E-01	-.4579E 01	-.2959E 01	-.4310E-01	.3756E 00	.5056E 01	.1289E 01
35	.6507E-02	-.5035E 01	-.2950E 01	-.2428E-01	.2157E 00	.7978E 01	.2024E 01
40	.4389E-02	-.5429E 01	-.2920E 01	-.1464E-01	.1105E 00	.1183E 02	.3002E 01
45	.3111E-02	-.5773E 01	-.3068E 01	-.9847E-02	.5488E-01	.1669E 02	.4234E 01
50	.2252E-02	-.6096E 01	-.2715E 01	-.5884E-02	.4541E-01	.2305E 02	.5849E 01
55	.1739E-02	-.6355E 01	-.2604E 01	-.4038E-02	.2115E-01	.2986E 02	.7577E 01
60	.1386E-02	-.6581E 01	-.2345E 01	-.2718E-02	.1513E-01	.3746E 02	.9504E 01
65	.1149E-02	-.6769E 01	-.2599E 01	-.2307E-02	.4713E-02	.4519E 02	.1147E 02
70	.9476E-03	-.6962E 01	-.2086E 01	-.1455E-02	.9753E-02	.5479E 02	.1390E 02
75	.8206E-03	-.7105E 01	-.1978E 01	-.1127E-02	.3763E-02	.6326E 02	.1605E 02
80	.7223E-03	-.7233E 01	-.1231E 01	-.5953E-03	.6092E-02	.7188E 02	.1824E 02
85	.6703E-03	-.7308E 01	-.1727E 01	-.7221E-03	-.1452E-02	.7745E 02	.1965E 02
90	.6073E-03	-.7406E 01	-.1101E 01	-.4022E-03	.3666E-02	.8549E 02	.2169E 02
95	.5722E-03	-.7466E 01	-.5989E 00	-.1984E-03	.2336E-02	.9073E 02	.2302E 02
100	.5549E-03	-.7497E 01	-.3636E 00	-.1118E-03	.9919E-03	.9356E 02	.2374E 02
105	.5451E-03	-.7514E 01	-.1835E 00	-.5310E-04	.6728E-03	.9523E 02	.2416E 02
110	.5405E-03	-.7523E 01	-.1948E 00	-.5341E-04	-.3504E-05	.9605E 02	.2437E 02
115	.5358E-03	-.7532E 01	-.1667E 00	-.4341E-04	.1146E-03	.9689E 02	.2458E 02
120	.5321E-03	-.7539E 01	-.3736E-01	-.9291E-05	.3910E-03	.9758E 02	.2476E 02
125	.5312E-03	-.7540E 01	-.1192E 00	-.2839E-04	-.2189E-03	.9773E 02	.2480E 02
130	.5288E-03	-.7545E 01	.2339E-01	.5350E-05	.3866E-03	.9818E 02	.2491E 02
135	.5292E-03	-.7544E 01	-.1049E 00	-.2309E-04	-.3259E-03	.9810E 02	.2489E 02
140	.5272E-03	-.7548E 01	-.8040E-01	-.1871E-04	.5022E-04	.9847E 02	.2499E 02
145	.5256E-03	-.7551E 01	-.9150E-01	-.1865E-04	.6669E-06	.9878E 02	.2506E 02
150	.5240E-03	-.7554E 01	-.9460E-01	-.1860E-04	.6584E-06	.9908E 02	.2514E 02
155	.5223E-03	-.7557E 01	-.9770E-01	-.1854E-04	.6650E-06	.9939E 02	.2522E 02
160	.5207E-03	-.7560E 01	-.1008E 00	-.1848E-04	.6525E-06	.9970E 02	.2530E 02
165	.5191E-03	-.7563E 01	-.1039E 00	-.1842E-04	.6611E-06	.1000E 03	.2538E 02
170	.5175E-03	-.7567E 01	-.1070E 00	-.1837E-04	.6535E-06	.1003E 03	.2546E 02
175	.5159E-03	-.7570E 01	-.1101E 00	-.1831E-04	.6479E-06	.1006E 03	.2553E 02
180	.5143E-03	-.7573E 01	.0000E 00	.0000E 00	.0000E 00	.1009E 03	.2561E 02

SCAT= .5192E-01 30/45= .3300E 01 45/135= .5879E 01 SCAT30-130= .1317E-01

LN SIGMA THETA	LN SIGMA	THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

1/91.5 XII 63 ORCOM CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
[illegible]	.4430E 00	-.8151E 00	-.1038E 00	-.2660E 01	.0000E 00	.1238E 00	.2901E-01
[illegible]	.2109E 00	-.1556E 01	-.1000E 01	-.1208E 01	.1664E 02	.7601E 00	.6095E-01
[illegible]	.1054E 00	-.2250E 01	-.1588E 01	-.5737E 00	.7272E 01	.5203E 00	.1219E 00
[illegible]	.5537E-01	-.2894E 01	-.2068E 01	-.2845E 00	.1314E 01	.9907E 00	.2321E 00
[illegible]	.3054E-01	-.3489E 01	-.2445E 01	-.1572E 00	.1573E 01	.1796E 01	.4208E 00
[illegible]	.1770E-01	-.4034E 01	-.2816E 01	-.8144E-01	.7535E 00	.3099E 01	.7262E 00
[illegible]	.1059E-01	-.4548E 01	-.3094E 01	-.4604E-01	.4056E 00	.5179E 01	.1213E 01
[illegible]	.6574E-02	-.5025E 01	-.2682E 01	-.2767E-01	.2678E 00	.8344E 01	.1955E 01
[illegible]	.4545E-02	-.5383E 01	-.3279E 01	-.1687E-01	.6651E-01	.1194E 02	.2797E 01
[illegible]	.3123E-02	-.5769E 01	-.2767E 01	-.9049E-02	.9563E-01	.1757E 02	.4116E 01
[illegible]	.2313E-02	-.6061E 01	-.2757E 01	-.6179E-02	.3288E-01	.2351E 02	.5509E 01
[illegible]	.1794E-02	-.6323E 01	-.3541E 01	-.5451E-02	.8339E-02	.3058E 02	.7164E 01
[illegible]	.1318E-02	-.6631E 01	-.2781E 01	-.3015E-02	.2792E-01	.4161E 02	.9750E 01
[illegible]	.1055E-02	-.6854E 01	-.2495E 01	-.2042E-02	.1115E-01	.5199E 02	.1218E 02
[illegible]	.8770E-03	-.7034E 01	-.2640E 01	-.1673E-02	.4217E-02	.6255E 02	.1465E 02
[illegible]	.7310E-03	-.7221E 01	-.2613E 01	-.1707E-02	.5350E-02	.7504E 02	.1758E 02
[illegible]	.6257E-03	-.7377E 01	.2311E 01	-.1078E-02	.2618E-01	.8767E 02	.2054E 02
[illegible]	.7198E-03	-.7237E 01	-.5612E 01	-.2763E-02	-.3825E-01	.7621E 02	.1786E 02
[illegible]	.5223E-03	-.7557E 01	-.1383E 01	-.3707E-03	.2165E-01	.1050E 03	.2461E 02
[illegible]	.4803E-03	-.7621E 01	-.2578E 00	-.7375E-04	.3403E-02	.1120E 03	.2623E 02
[illegible]	.4833E-03	-.7634E 01	.1556E 00	.6222E-04	.1429E-02	.1135E 03	.2658E 02
[illegible]	.4872E-03	-.7627E 01	-.9575E 00	-.2171E-03	-.2971E-02	.1126E 03	.2638E 02
[illegible]	.4682E-03	-.7667E 01	-.7355E 00	-.2185E-03	-.1691E-04	.1172E 03	.2745E 02
[illegible]	.4472E-03	-.7708E 01	-.2365E 00	-.5110E-04	.1919E-02	.1221E 03	.2861E 02
[illegible]	.4447E-03	-.7718E 01	.9218E 00	.1952E-03	.2622E-02	.1233E 03	.2890E 02
[illegible]	.4617E-03	-.7681E 01	.7394E 00	.4071E-04	-.1667E-02	.1188E 03	.2784E 02
[illegible]	.4661E-03	-.7671E 01	.1121E 00	.2274E-04	-.3080E-03	.1177E 03	.2758E 02
[illegible]	.4681E-03	-.7667E 01	.4084E 00	.9811E-04	.8635E-03	.1172E 03	.2746E 02
[illegible]	.4766E-03	-.7649E 01	.3686E 00	.7112E-04	-.3095E-03	.1151E 03	.2697E 02
[illegible]	.4828E-03	-.7636E 01	.3815E 00	.7203E-04	.1061E-04	.1136E 03	.2662E 02
[illegible]	.4891E-03	-.7623E 01	.3945E 00	.7294E-04	.1074E-04	.1122E 03	.2628E 02
[illegible]	.4955E-03	-.7610E 01	.4074E 00	.7331E-04	.1049E-04	.1107E 03	.2594E 02
[illegible]	.5019E-03	-.7597E 01	.4203E 00	.7488E-04	.1102E-04	.1093E 03	.2561E 02
[illegible]	.5085E-03	-.7584E 01	.4333E 00	.7585E-04	.1118E-04	.1079E 03	.2528E 02
[illegible]	.5151E-03	-.7571E 01	.4462E 00	.7684E-04	.1131E-04	.1065E 03	.2495E 02
[illegible]	.5218E-03	-.7558E 01	.4591E 00	.7784E-04	.1146E-04	.1051E 03	.2463E 02
[illegible]	.5286E-03	-.7545E 01	.0000E 00	.0000E 00	.0000E 00	.1038E 03	.2431E 02

SCAT= .5685E-01 30/45= .3392E 01 45/135= .6672E 01 SCAT30-130= .1285E-01

101/92 5 XII 63 CTCCH CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
0	.6819E 00	-.3829E 00	-.2028E 00	-.6779E 01	.0000E 00	.1096E 00	.2487E-01
5	.3085E 00	-.1176E 01	-.1061E 01	-.1841E 01	.2794E 02	.2418E 00	.5485E-01
10	.1679E 00	-.1811E 01	-.1672E 01	-.8441E 00	.1156E 02	.5045E 00	.1144E 00
15	.7508E-01	-.2589E 01	-.2155E 01	-.3976E 00	.5002E 01	.9936E 00	.2254E 00
20	.4039E-01	-.3209E 01	-.2520E 01	-.1991E 00	.2275E 01	.1847E 01	.4190E 00
25	.2301E-01	-.3772E 01	-.2805E 01	-.1056E 00	.1071E 01	.3242E 01	.7353E 00
30	.1380E-01	-.4283E 01	-.3152E 01	-.6048E-01	.5126E 00	.5406E 01	.1226E 01
35	.8489E-02	-.4769E 01	-.2625E 01	-.2876E-01	.3679E 00	.8789E 01	.1993E 01
40	.5979E-02	-.5120E 01	-.2932E 01	-.2001E-01	.1003E 00	.1248E 02	.2830E 01
45	.4233E-02	-.5465E 01	-.2771E 01	-.1213E-01	.9030E-01	.1762E 02	.3998E 01
50	.3175E-02	-.5753E 01	-.3219E 01	-.9611E-02	.2884E-01	.2350E 02	.5330E 01
55	.2336E-02	-.6059E 01	-.2400E 01	-.4458E-02	.5449E-01	.3194E 02	.7244E 01
60	.1912E-02	-.6259E 01	-.3276E 01	-.5055E-02	-.2284E-02	.3902E 02	.8849E 01
65	.1471E-02	-.6522E 01	-.2636E 01	-.2591E-02	.7365E-01	.5071E 02	.1150E 02
70	.1210E-02	-.6717E 01	-.2715E 01	-.2365E-02	.7128E-03	.6165E 02	.1398E 02
75	.1003E-02	-.6904E 01	-.1364E 01	-.9690E-03	.1604E-01	.7435E 02	.1687E 02
80	.9188E-03	-.6992E 01	-.2797E 01	-.1642E-02	-.7715E-02	.8120E 02	.1842E 02
85	.7755E-03	-.7162E 01	-.9902E 00	-.4890E-03	.1322E-01	.9620E 02	.2182E 02
90	.7328E-03	-.7219E 01	-.1316E 01	-.5767E-03	-.1006E-02	.1018E 03	.2309E 02
95	.6825E-03	-.7290E 01	-.1440E 01	-.5569E-03	.2271E-03	.1093E 03	.2479E 02
100	.6339E-03	-.7364E 01	-.6278E 00	-.2192E-03	.3470E-02	.1177E 03	.2670E 02
105	.6148E-03	-.7394E 01	-.4172E 00	-.1418E-03	.8861E-03	.1214E 03	.2753E 02
110	.6024E-03	-.7415E 01	-.8855E 00	-.2666E-03	-.1428E-02	.1238E 03	.2809E 02
115	.5791E-03	-.7454E 01	-.7277E 00	-.2024E-03	.7332E-03	.1288E 03	.2922E 02
120	.5615E-03	-.7485E 01	-.3300E 00	-.8605E-04	.1283E-02	.1328E 03	.3016E 02
125	.5540E-03	-.7498E 01	-.1967E 01	-.4713E-03	-.4414E-02	.1347E 03	.3055E 02
130	.5128E-03	-.7576E 01	-.2659E 01	-.6612E-03	-.1888E-02	.1455E 03	.3300E 02
135	.4604E-03	-.7683E 01	-.5315E 00	-.1010E-03	.5732E-02	.1621E 03	.3676E 02
140	.4516E-03	-.7703E 01	-.1546E 01	-.2767E-03	-.2013E-02	.1652E 03	.3747E 02
145	.4274E-03	-.7758E 01	-.1621E 01	-.2619E-03	.1695E-03	.1745E 03	.3957E 02
150	.4046E-03	-.7813E 01	-.1636E 01	-.2479E-03	.1605E-03	.1844E 03	.4183E 02
155	.3829E-03	-.7868E 01	-.1731E 01	-.2346E-03	.1519E-03	.1948E 03	.4419E 02
160	.3624E-03	-.7923E 01	-.1766E 01	-.2221E-03	.1438E-03	.2058E 03	.4668E 02
165	.3431E-03	-.7978E 01	-.1841E 01	-.2107E-03	.1361E-03	.2175E 03	.4933E 02
170	.3247E-03	-.8033E 01	-.1896E 01	-.1990E-03	.1288E-03	.2297E 03	.5211E 02
175	.3074E-03	-.8088E 01	-.1951E 01	-.1883E-03	.1219E-03	.2427E 03	.5506E 02
180	.2909E-03	-.8142E 01	.0000E 00	.0000E 00	.0000E 00	.2564E 03	.5817E 02

SCAT= .7660E-01 30/45= .3360E 01 45/135= .8185E 01 SCAT30-130= .1693E-01

101/93 5 XII 63 ORCOM CELL=2

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
[illegible]	.3899E 00	-.5278E 00	-.1642E 00	-.3203E 01	.0000E 00	.1413E 00	.4449E-01
5	.3104E 00	-.1170E 01	-.8731E 00	-.1615E 01	.1872E 02	.3103E 00	.8493E-01
10	.1625E 00	-.1775E 01	-.1402E 01	-.9519E 00	.8859E 01	.5686E 00	.1356E 00
[illegible]	.9600E-01	-.2343E 01	-.1947E 01	-.4535E 00	.4451E 01	.1003E 01	.2746E 00
[illegible]	.5643E-01	-.2875E 01	-.2218E 01	-.2523E 00	.2306E 01	.1707E 01	.4672E 00
[illegible]	.3441E-01	-.3369E 01	-.2397E 01	-.1487E 00	.1186E 01	.2799E 01	.7661E 00
[illegible]	.2143E-01	-.3843E 01	-.2655E 01	-.9719E-01	.7053E 00	.4495E 01	.1230E 01
[illegible]	.1392E-01	-.4281E 01	-.2519E 01	-.4524E-01	.4807E 00	.6969E 01	.1907E 01
40	.9875E-02	-.4618E 01	-.3585E 01	-.3497E-01	.2183E-01	.9735E 01	.2670E 01
45	.6474E-02	-.5040E 01	-.2349E 01	-.1741E-01	.2471E 00	.1488E 02	.4072E 01
[illegible]	.4955E-02	-.5307E 01	-.2585E 01	-.1407E-01	.1825E-01	.1945E 02	.5321E 01
[illegible]	.3726E-02	-.5592E 01	-.3063E 01	-.9991E-02	.4677E-01	.2585E 02	.7075E 01
[illegible]	.2456E-02	-.5859E 01	-.2591E 01	-.5598E-02	.4578E-01	.3375E 02	.9235E 01
[illegible]	.2331E-02	-.6061E 01	-.3073E 01	-.5446E-02	.6388E-02	.4133E 02	.1131E 02
70	.1856E-02	-.6289E 01	-.1849E 01	-.2548E-02	.3315E-01	.5190E 02	.1420E 02
75	.1634E-02	-.6417E 01	-.2394E 01	-.3190E-02	-.7359E-02	.5896E 02	.1613E 02
80	.1156E-02	-.6604E 01	-.2664E 01	-.2317E-02	.1601E-01	.7106E 02	.1945E 02
[illegible]	.1153E-02	-.6765E 01	-.1698E 01	-.1772E-02	.1254E-01	.8352E 02	.2286E 02
[illegible]	.1047E-02	-.6862E 01	-.1046E 01	-.6595E-03	.6451E-02	.9203E 02	.2519E 02
[illegible]	.9891E-03	-.6919E 01	-.1495E 01	-.8364E-03	-.2033E-02	.9739E 02	.2665E 02
[illegible]	.9161E-03	-.6995E 01	-.5298E 00	-.2976E-03	.4170E-02	.1052E 03	.2878E 02
[illegible]	.8901E-03	-.7024E 01	-.5202E 00	-.4274E-03	-.3406E-02	.1082E 03	.2962E 02
110	.8528E-03	-.7067E 01	-.6184E 00	-.2650E-03	.1862E-02	.1130E 03	.3091E 02
115	.8297E-03	-.7094E 01	-.1517E 01	-.5949E-03	-.3774E-02	.1161E 03	.3177E 02
120	.7778E-03	-.7159E 01	-.5783E-01	-.1848E-04	.6599E-02	.1230E 03	.3309E 02
125	.7762E-03	-.7161E 01	-.7477E 00	-.2571E-03	-.2734E-02	.1241E 03	.3396E 02
130	.7538E-03	-.7190E 01	-.8511E 00	-.2572E-03	-.1877E-05	.1278E 03	.3497E 02
135	.7313E-03	-.7221E 01	-.7777E 00	-.2337E-03	.2695E-03	.1317E 03	.3605E 02
140	.7109E-03	-.7249E 01	-.8085E 00	-.2275E-03	.6674E-04	.1355E 03	.3708E 02
145	.6910E-03	-.7277E 01	-.8369E 00	-.2215E-03	.7305E-04	.1394E 03	.3815E 02
150	.6717E-03	-.7306E 01	-.8652E 00	-.2153E-03	.7100E-04	.1436E 03	.3925E 02
155	.6529E-03	-.7334E 01	-.8936E 00	-.2093E-03	.6902E-04	.1475E 03	.4037E 02
160	.6347E-03	-.7362E 01	-.9220E 00	-.2034E-03	.6708E-04	.1518E 03	.4156E 02
165	.6169E-03	-.7391E 01	-.9503E 00	-.1977E-03	.6522E-04	.1562E 03	.4273E 02
170	.5997E-03	-.7419E 01	-.9787E 00	-.1922E-03	.6338E-04	.1606E 03	.4396E 02
175	.5829E-03	-.7448E 01	-.1007E 01	-.1868E-03	.6162E-04	.1653E 03	.4523E 02
180	.5666E-03	-.7476E 01	.0000E 00	.0000E 00	.0000E 00	.1700E 03	.4653E 02

SCAT= .5433E-01 30/45= .3311E 01 45/135= .8852E 01 SCAT30-130= .2436E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
[illegible]	.7206E 00	-.3277E 00	-.1129E 00	-.4146E 01	.0000E 00	.1413E 00	.3633E-01
[illegible]	.3593E 00	-.1024E 01	-.9394E 00	-.1570E 01	.2486E 02	.2833E 00	.7286E-01
[illegible]	.1876E 00	-.1675E 01	-.1476E 01	-.9263E 00	.1139E 02	.5431E 00	.1397E 00
[illegible]	.1022E 00	-.2281E 01	-.1752E 01	-.5012E 00	.5421E 01	.9964E 00	.2562E 00
[illegible]	.5826E-01	-.2843E 01	-.2117E 01	-.2695E 00	.2677E 01	.1747E 01	.4493E 00
[illegible]	.3474E-01	-.3360E 01	-.2608E 01	-.1507E 00	.1362E 01	.2930E 01	.7535E 00
[illegible]	.2160E-01	-.3835E 01	-.2398E 01	-.9152E-01	.6769E 00	.4716E 01	.1212E 01
[illegible]	.1360E-01	-.4297E 01	-.2639E 01	-.4630E-01	.5190E 00	.7484E 01	.1924E 01
[illegible]	.9563E-02	-.4650E 01	-.2886E 01	-.3158E-01	.1486E 00	.1065E 02	.2737E 01
[illegible]	.6807E-02	-.4990E 01	-.2968E 01	-.2095E-01	.1219E 00	.1496E 02	.3846E 01
[illegible]	.4979E-02	-.5303E 01	-.3766E 01	-.1526E-01	.6514E-01	.2045E 02	.5258E 01
[illegible]	.3647E-02	-.5614E 01	-.2459E 01	-.8049E-02	.8265E-01	.2791E 02	.7178E 01
[illegible]	.2945E-02	-.5828E 01	-.3268E 01	-.7767E-02	.3226E-02	.3457E 02	.8890E 01
[illegible]	.2267E-02	-.6089E 01	-.2179E 01	-.3873E-02	.4463E-01	.4471E 02	.1155E 02
[illegible]	.1929E-02	-.6251E 01	-.2305E 01	-.4015E-02	-.1624E-02	.5278E 02	.1357E 02
[illegible]	.1579E-02	-.6451E 01	-.2015E 01	-.2206E-02	.2073E-01	.6449E 02	.1658E 02
[illegible]	.1386E-02	-.6581E 01	-.2490E 01	-.2396E-02	-.2116E-02	.7365E 02	.1889E 02
[illegible]	.1177E-02	-.6744E 01	-.2729E 01	-.1948E-02	.5058E-02	.8646E 02	.2223E 02
[illegible]	.1007E-02	-.6900E 01	-.1325E 01	-.7978E-03	.1319E-01	.1011E 03	.2599E 02
[illegible]	.9378E-03	-.6972E 01	-.1213E 01	-.6682E-03	.1715E-02	.1086E 03	.2791E 02
[illegible]	.8812E-03	-.7034E 01	-.1110E 01	-.5324E-03	.1328E-02	.1155E 03	.2973E 02
[illegible]	.8348E-03	-.7088E 01	-.5087E 00	-.2737E-03	.3536E-02	.1219E 03	.3136E 02
110	.8153E-03	-.7112E 01	-.7816E 00	-.3159E-03	-.1001E-02	.1249E 03	.3211E 02
[illegible]	.7874E-03	-.7147E 01	-.8646E 00	-.3260E-03	-.8118E-04	.1293E 03	.3325E 02
[illegible]	.7590E-03	-.7184E 01	-.1213E 01	-.4286E-03	-.3264E-02	.1341E 03	.3449E 02
[illegible]	.7552E-03	-.7188E 01	-.6305E 00	-.2114E-03	-.1593E-02	.1348E 03	.3466E 02
130	.7368E-03	-.7213E 01	-.2619E 01	-.7946E-03	-.4483E-02	.1382E 03	.3553E 02
[illegible]	.6675E-03	-.7312E 01	-.9685E-01	-.2689E-04	.8797E-02	.1525E 03	.3922E 02
[illegible]	.6651E-03	-.7316E 01	-.1627E 01	-.2684E-03	-.2782E-02	.1531E 03	.3936E 02
[illegible]	.6416E-03	-.7352E 01	-.1063E 01	-.2601E-03	.1093E-03	.1587E 03	.4080E 02
[illegible]	.6189E-03	-.7388E 01	-.1099E 01	-.2509E-03	.1055E-03	.1645E 03	.4230E 02
[illegible]	.5970E-03	-.7424E 01	-.1135E 01	-.2420E-03	.1017E-03	.1705E 03	.4385E 02
[illegible]	.5758E-03	-.7460E 01	-.1171E 01	-.2334E-03	.9813E-04	.1768E 03	.4546E 02
[illegible]	.5555E-03	-.7496E 01	-.1207E 01	-.2252E-03	.9467E-04	.1833E 03	.4713E 02
[illegible]	.5358E-03	-.7532E 01	-.1243E 01	-.2173E-03	.9132E-04	.1900E 03	.4886E 02
[illegible]	.5169E-03	-.7568E 01	-.1279E 01	-.2096E-03	.8809E-04	.1970E 03	.5065E 02
[illegible]	.4986E-03	-.7604E 01	.0000E 00	.0000E 00	.0000E 00	.2042E 03	.5251E 02

SCAT= .1018E 00 30/45= .3173E 01 45/135= .1030E 02 SCAT30-130= .2618E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.5640E 00	-.5724E 00	-.1620E 00	-.3209E 01	.0000E 00	.1391E 00	.3634E-01
5	.2771E 00	-.1284E 01	-.9578E 00	-.1540E 01	.2003E 02	.2031E 00	.7397E-01
10	.1426E 00	-.1947E 01	-.1521E 01	-.7529E 00	.9027E 01	.5500E 00	.1437E 00
15	.7697E-01	-.2564E 01	-.1901E 01	-.3832E 00	.4232E 01	.1019E 01	.2663E 00
20	.4393E-01	-.3125E 01	-.2343E 01	-.2031E 00	.2063E 01	.1802E 01	.4700E 00
25	.2581E-01	-.3657E 01	-.2702E 01	-.1150E 00	.1010E 01	.3040E 01	.7942E 00
30	.1577E-01	-.4150E 01	-.2739E 01	-.6216E-01	.6060E 00	.4975E 01	.1300E 01
35	.1034E-01	-.4571E 01	-.2900E 01	-.3891E-01	.2665E 00	.7585E 01	.1981E 01
40	.6940E-02	-.4969E 01	-.2809E 01	-.2243E-01	.1800E 00	.1129E 02	.2950E 01
45	.4991E-02	-.5300E 01	-.2767E 01	-.1444E-01	.9131E-01	.1572E 02	.4107E 01
50	.3729E-02	-.5592E 01	-.2892E 01	-.1029E-01	.4775E-01	.2104E 02	.5497E 01
55	.2830E-02	-.5867E 01	-.2650E 01	-.6670E-02	.4142E-01	.2772E 02	.7241E 01
60	.2240E-02	-.6098E 01	-.3029E 01	-.5545E-02	.1299E-01	.3490E 02	.9118E 01
65	.1764E-02	-.6340E 01	-.2374E 01	-.3263E-02	.2614E-01	.4440E 02	.1162E 02
70	.1479E-02	-.6516E 01	-.1931E 01	-.2113E-02	.1310E-01	.5304E 02	.1386E 02
75	.1295E-02	-.6650E 01	-.2772E 01	-.2430E-02	-.3632E-02	.6060E 02	.1583E 02
80	.1002E-02	-.6829E 01	-.1659E 01	-.1183E-02	.1429E-01	.7247E 02	.1893E 02
85	.9792E-03	-.6929E 01	-.1961E 01	-.9579E-03	.2500E-02	.8011E 02	.2093E 02
90	.8956E-03	-.7018E 01	-.9423E 00	-.5090E-03	.5135E-02	.8759E 02	.2288E 02
95	.8512E-03	-.7069E 01	-.1252E 01	-.6066E-03	-.1110E-02	.9217E 02	.2408E 02
100	.7902E-03	-.7133E 01	-.2060E-01	-.1275E-04	.6805E-02	.9928E 02	.2594E 02
105	.7971E-03	-.7135E 01	-.1009E 01	-.4511E-03	-.5023E-02	.9842E 02	.2571E 02
110	.7577E-03	-.7185E 01	-.1167E 01	-.4391E-03	.1382E-03	.1035E 03	.2705E 02
115	.7194E-03	-.7237E 01	.6291E 00	.2237E-03	.7595E-02	.1090E 03	.2849E 02
120	.7309E-03	-.7210E 01	.9748E 00	.3437E-03	.1375E-02	.1062E 03	.2774E 02
125	.7609E-03	-.7171E 01	-.5029E 00	-.1992E-03	-.6220E-02	.1020E 03	.2665E 02
130	.7519E-03	-.7193E 01	.2884E-02	.9279E-06	.2293E-02	.1044E 03	.2727E 02
135	.7516E-03	-.7193E 01	.6879E 00	.2102E-03	.2490E-02	.1044E 03	.2727E 02
140	.7707E-03	-.7168E 01	.2970E 00	.9277E-04	-.1437E-02	.1018E 03	.2659E 02
145	.7788E-03	-.7158E 01	.3003E 00	.9379E-04	.1116E-04	.1007E 03	.2632E 02
150	.7869E-03	-.7147E 01	.3187E 00	.9473E-04	.1129E-04	.9969E 02	.2604E 02
155	.7952E-03	-.7137E 01	.3292E 00	.9573E-04	.1140E-04	.9865E 02	.2577E 02
160	.8036E-03	-.7126E 01	.3396E 00	.9674E-04	.1154E-04	.9762E 02	.2550E 02
165	.8120E-03	-.7116E 01	.3501E 00	.9775E-04	.1163E-04	.9661E 02	.2524E 02
170	.8205E-03	-.7106E 01	.3605E 00	.9878E-04	.1177E-04	.9561E 02	.2498E 02
175	.8292E-03	-.7095E 01	.3710E 00	.9982E-04	.1190E-04	.9461E 02	.2472E 02
180	.8379E-03	-.7085E 01	.0000E 00	.0000E 00	.0000E 00	.9363E 02	.2446E 02

SCAT= .7045E-01 30/45= .3160E 01 45/135= .6640E 01 SCAT30-130= .2040E-01

CR101/[illegible] 5XII63 [illegible]

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIG
00	.7034E 00	-.3519E 00	-.1060E 00	-.4179E 01	.0000E 00	.1290E 00	.3177E-01
5	.3387E 00	-.1083E 01	-.9825E 00	-.1917E 01	.2592E 02	.2679E 00	.6597E-01
10	.1714E 00	-.1764E 01	-.1557E 01	-.9194E 00	.1163E 02	.5293E 00	.1303E 00
15	.9118E-01	-.2395E 01	-.2021E 01	-.4607E 00	.5256E 01	.9951E 00	.2450E 00
20	.5098E-01	-.2976E 01	-.2303E 01	-.2409E 00	.2519E 01	.1780E 01	.4383E 00
25	.2996E-01	-.3508E 01	-.2699E 01	-.1334E 00	.1232E 01	.3029E 01	.7458E 00
30	.1831E-01	-.4000E 01	-.2909E 01	-.7740E-01	.6409E 00	.4954E 01	.1220E 01
35	.1155E-01	-.4461E 01	-.2620E 01	-.3910E-01	.4369E 00	.7855E 01	.1934E 01
40	.8132E-02	-.4812E 01	-.2976E 01	-.2759E-01	.1332E 00	.1116E 02	.2748E 01
45	.5728E-02	-.5162E 01	-.2733E 01	-.1642E-01	.1275E 00	.1584E 02	.3901E 01
50	.4204E-02	-.5450E 01	-.3173E 01	-.1204E-01	.4104E-01	.2113E 02	.5203E 01
55	.3174E-02	-.5753E 01	-.3061E 01	-.8503E-02	.4072E-01	.2890E 02	.7040E 01
60	.2432E-02	-.6019E 01	-.2803E 01	-.5600E-02	.3327E-01	.3731E 02	.9100E 01
65	.1943E-02	-.6244E 01	-.2439E 01	-.3602E-02	.2190E-01	.4670E 02	.1150E 02
70	.1622E-02	-.6424E 01	-.2820E 01	-.3294E-02	.4443E-02	.5595E 02	.1370E 02
75	.1334E-02	-.6619E 01	-.2356E 01	-.2156E-02	.1304E-01	.6800E 02	.1675E 02
80	.1146E-02	-.6771E 01	-.2344E 01	-.1740E-02	.4776E-02	.7917E 02	.1950E 02
85	.9942E-03	-.6914E 01	-.2079E 01	-.1277E-02	.5304E-02	.9126E 02	.2247E 02
90	.8820E-03	-.7032E 01	-.9469E 00	-.5009E-03	.8845E-02	.1020E 03	.2531E 02
95	.8388E-03	-.7084E 01	-.9865E 00	-.4367E-03	.7019E-03	.1082E 03	.2664E 02
100	.8007E-03	-.7130E 01	-.2119E 01	-.9014E-03	-.5325E-02	.1133E 03	.2791E 02
105	.7220E-03	-.7233E 01	.3956E-01	.1524E-04	.1050E-01	.1257E 03	.3090E 02
110	.7233E-03	-.7232E 01	-.1206E 01	-.4600E-03	-.5450E-02	.1254E 03	.3090E 02
115	.6832E-03	-.7289E 01	.9404E-01	.3170E-04	.5639E-02	.1328E 03	.3271E 02
120	.6859E-03	-.7285E 01	-.1145E 01	-.3500E-03	-.6477E-02	.1323E 03	.3290E 02
125	.6544E-03	-.7332E 01	-.8044E 00	-.2330E-03	.1444E-02	.1386E 03	.3413E 02
130	.6343E-03	-.7363E 01	-.1025E 01	-.2750E-03	-.4980E-03	.1431E 03	.3520E 02
135	.6102E-03	-.7402E 01	-.6807E 00	-.1531E-03	.1406E-02	.1487E 03	.3662E 02
140	.5960E-03	-.7424E 01	-.8666E 00	-.2049E-03	-.5932E-03	.1520E 03	.3744E 02
145	.5790E-03	-.7454E 01	-.8971E 00	-.1987E-03	.7032E-04	.1567E 03	.3890E 02
150	.5616E-03	-.7485E 01	-.9275E 00	-.1920E-03	.6821E-04	.1616E 03	.3970E 02
155	.5448E-03	-.7515E 01	-.9579E 00	-.1870E-03	.6616E-04	.1665E 03	.4101E 02
160	.5285E-03	-.7546E 01	-.9883E 00	-.1814E-03	.6419E-04	.1717E 03	.4228E 02
165	.5126E-03	-.7576E 01	-.1019E 01	-.1760E-03	.6227E-04	.1770E 03	.4359E 02
170	.4973E-03	-.7606E 01	-.1049E 01	-.1707E-03	.6040E-04	.1825E 03	.4493E 02
175	.4824E-03	-.7637E 01	-.1080E 01	-.1656E-03	.5858E-04	.1801E 03	.4632E 02
180	.4679E-03	-.7667E 01	.0000E 00	.0000E 00	.0000E 00	.1939E 03	.4775E 02

SCAT= .9073E-01 30/45= .3197E 01 45/135= .9307E 01 SCAT30-130= .2234E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
165	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
170	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
175	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
180	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SCAT= .5575E-01 30/45= .3146E 01 45/135= .7733E 01 SCAT30-130= .1347E-01

CR101/98 5XII63 1035M STA 1576 400M BOTTLE

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
165	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
170	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
175	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
180	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SCAT= .4305E-01 30/45= .3328E 01 45/135= .5036E 01 SCAT30-130= .9370E-02

CR101/99 5XII63 1040M STA 1576 700M BOTTLE

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
165	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
170	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
175	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
180	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SCAT= .3079E-01 30/45= .3069E 01 45/135= .5201E 01 SCAT30-130= .9094E-02

101/100 5XI163 STA 1576 1000M BOTTLE

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.5818E 00	-.5416E 00	-.2542E 00	-.4200E 01	.0000E 00	.6825E-01	.1187E-01
5	.2153E 00	-.1536E 01	-.1315E 01	-.1476E 01	.3122E 02	.1844E 00	.3209E-01
10	.8652E-01	-.2447E 01	-.2045E 01	-.5588E 00	.1051E 02	.4590E 00	.7984E-01
15	.3776E-01	-.3276E 01	-.2595E 01	-.2276E 00	.3794E 01	.1052E 01	.1829E 00
20	.1790E-01	-.4023E 01	-.2976E 01	-.9953E-01	.1448E 01	.2218E 01	.3859E 00
25	.9215E-02	-.4687E 01	-.3223E 01	-.4692E-01	.6028E 00	.4310E 01	.7497E 00
30	.5120E-02	-.5275E 01	-.3493E 01	-.2443E-01	.2578E 00	.7756E 01	.1349E 01
35	.2969E-02	-.5813E 01	-.2849E 01	-.1084E-01	.1557E 00	.1329E 02	.2311E 01
40	.2043E-02	-.6193E 01	-.2894E 01	-.6761E-02	.4671E-01	.1944E 02	.3382E 01
45	.1453E-02	-.6534E 01	-.2469E 01	-.3943E-02	.3229E-01	.2733E 02	.4755E 01
50	.1109E-02	-.6804E 01	-.2136E 01	-.2340E-02	.1836E-01	.3582E 02	.6230E 01
55	.9045E-03	-.7008E 01	-.2525E 01	-.2044E-02	.3392E-02	.4390E 02	.7637E 01
60	.7261E-03	-.7228E 01	-.2318E 01	-.1409E-02	.7262E-02	.5469E 02	.9513E 01
65	.6032E-03	-.7413E 01	-.1583E 01	-.7649E-03	.7380E-02	.6584E 02	.1145E 02
70	.5364E-03	-.7531E 01	-.2231E 01	-.8770E-03	-.1204E-02	.7403E 02	.1288E 02
75	.4599E-03	-.7685E 01	-.1874E 01	-.6002E-03	.3171E-02	.8639E 02	.1502E 02
80	.4075E-03	-.7805E 01	-.1073E 01	-.2941E-03	.3500E-02	.9745E 02	.1695E 02
85	.3819E-03	-.7870E 01	-.4380E 00	-.1084E-03	.2128E-02	.1040E 03	.1809E 02
90	.3724E-03	-.7896E 01	-.4933E 00	-.1123E-03	-.4503E-04	.1066E 03	.1855E 02
95	.3626E-03	-.7922E 01	.4859E 00	.1049E-03	.2409E-02	.1095E 03	.1905E 02
100	.3717E-03	-.7897E 01	.1941E 00	-.1094E-04	-.7370E-03	.1048E 03	.1850E 02
105	.3753E-03	-.7888E 01	-.5556E 00	-.1097E-03	-.1722E-02	.1050E 03	.1841E 02
110	.3657E-03	-.7914E 01	-.7754E 00	-.1420E-03	-.3696E-03	.1086E 03	.1889E 02
115	.3533E-03	-.7948E 01	-.4512E 00	-.7701E-04	.7445E-03	.1124E 03	.1955E 02
120	.3466E-03	-.7967E 01	.6759E 00	-.1111E-03	-.2156E-02	.1146E 03	.1993E 02
125	.3563E-03	-.7940E 01	-.7605E-01	-.1216E-04	-.1413E-02	.1119E 03	.1939E 02
130	.3552E-03	-.7943E 01	.1283E 01	.2019E-03	.2453E-02	.1118E 03	.1945E 02
135	.3728E-03	-.7894E 01	-.8322E-01	-.1291E-04	-.2462E-02	.1065E 03	.1853E 02
140	.3717E-03	-.7897E 01	.3760E 00	.5669E-04	.7976E-03	.1068E 03	.1858E 02
145	.3767E-03	-.7884E 01	.3900E 00	.5745E-04	.8650E-05	.1054E 03	.1834E 02
150	.3817E-03	-.7871E 01	.4032E 00	.5821E-04	.8756E-05	.1040E 03	.1810E 02
155	.3868E-03	-.7858E 01	.4164E 00	.5899E-04	.8801E-05	.1027E 03	.1786E 02
160	.3919E-03	-.7844E 01	.4297E 00	.5977E-04	.9000E-05	.1013E 03	.1763E 02
165	.3971E-03	-.7831E 01	.4429E 00	.6057E-04	.9114E-05	1.0000E 02	.1739E 02
170	.4024E-03	-.7818E 01	.4561E 00	.6138E-04	.9241E-05	.9868E 02	.1717E 02
175	.4078E-03	-.7805E 01	.4693E 00	.6219E-04	.9357E-05	.9739E 02	.1694E 02
180	.4132E-03	-.7792E 01	.0000E 00	.0000E 00	.0000E 00	.9611E 02	.1672E 02

SCAT= .3971E-01 30/45= .3524E 01 45/135= .3897E 01 SCAT30-130= .6908E-02

CR101/101 5XI163 1125M STA 1576 1500M BOTTLE

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3310E 01	.1197E 01	-.3373E 00	-.2779E 02	.0000E 00	.3280E-01	.2332E-02
5	.8850E 00	-.1221E 00	-.1735E 01	-.7090E 01	.2372E 03	.1227E 00	.8723E-02
10	.2663E 00	-.1323E 01	-.2671E 01	-.2018E 01	.5612E 02	.4076E 00	.2899E-01
15	.9018E-01	-.2406E 01	-.3353E 01	-.6396E 00	.1580E 02	.1204E 01	.8561E-01
20	.3437E-01	-.3371E 01	-.3794E 01	-.2249E 00	.4751E 01	.3159E 01	.2246E 00
25	.1474E-01	-.4217E 01	-.4166E 01	-.8989E-01	.1347E 01	.7364E 01	.5237E 00
30	.6897E-02	-.4977E 01	-.3841E 01	-.3532E-01	.6294E 00	.1574E 02	.1119E 01
35	.3815E-02	-.5569E 01	-.3884E 01	-.1769E-01	.2019E 00	.2846E 02	.2024E 01
40	.2271E-02	-.6088E 01	-.3132E 01	-.8029E-02	.1107E 00	.4780E 02	.3399E 01
45	.1570E-02	-.6456E 01	-.2411E 01	-.4037E-02	.4574E-01	.6913E 02	.4916E 01
50	.1218E-02	-.6710E 01	-.2517E 01	-.2977E-02	.1215E-01	.8912E 02	.6338E 01
55	.9503E-03	-.6958E 01	-.2443E 01	-.2103E-02	.1002E-01	.1133E 03	.8056E 01
60	.7748E-03	-.7163E 01	-.1864E 01	-.1231E-02	.9993E-02	.1401E 03	.9964E 01
65	.6674E-03	-.7312E 01	-.2456E 01	-.1273E-02	-.4793E-03	.1627E 03	.1157E 02
70	.5564E-03	-.7494E 01	-.2135E 01	-.8732E-03	.4577E-02	.1951E 03	.1388E 02
75	.4802E-03	-.7641E 01	-.1773E 01	-.5849E-03	.3189E-02	.2261E 03	.1608E 02
80	.4282E-03	-.7756E 01	-.1070E 01	-.3083E-03	.3204E-02	.2535E 03	.1803E 02
85	.4013E-03	-.7821E 01	-.1121E 01	-.2053E-03	.2627E-02	.2705E 03	.1924E 02
90	.3764E-03	-.7885E 01	-.1528E 00	-.3516E-04	.2863E-02	.2884E 03	.2051E 02
95	.3733E-03	-.7893E 01	-.3630E 00	-.7470E-04	-.4502E-03	.2908E 03	.2068E 02
100	.3668E-03	-.7911E 01	.6360E 00	.1326E-03	.2377E-02	.2959E 03	.2105E 02
105	.3784E-03	-.7880E 01	-.1155E 00	-.2324E-04	-.1786E-02	.2869E 03	.2040E 02
110	.3764E-03	-.7885E 01	-.1439E 01	-.2673E-03	-.2797E-02	.2884E 03	.2051E 02
115	.3530E-03	-.7949E 01	-.2696E 00	-.4614E-04	.2534E-02	.3075E 03	.2187E 02
120	.3490E-03	-.7960E 01	.1459E 01	.2447E-03	.3333E-02	.3110E 03	.2212E 02
125	.3704E-03	-.7901E 01	-.1143E-01	-.1903E-05	-.2782E-02	.2931E 03	.2085E 02
130	.3705E-03	-.7901E 01	-.5302E-01	-.8487E-05	-.1191E-02	.2930E 03	.2084E 02
135	.3698E-03	-.7903E 01	.7449E 00	.1164E-03	.1431E-02	.2936E 03	.2088E 02
140	.3799E-03	-.7875E 01	.4347E 00	.6692E-04	-.5665E-05	.2857E 03	.2032E 02
145	.3850E-03	-.7862E 01	.4498E 00	.6795E-04	-.1170E-04	.2820E 03	.2001E 02
150	.3917E-03	-.7845E 01	.4652E 00	.6899E-04	-.1107E-04	.2771E 03	.1971E 02
155	.3977E-03	-.7830E 01	.4804E 00	.7005E-04	-.1215E-04	.2729E 03	.1941E 02
160	.4039E-03	-.7814E 01	.4957E 00	.7113E-04	-.1233E-04	.2688E 03	.1912E 02
165	.4101E-03	-.7799E 01	.5110E 00	.7222E-04	-.1254E-04	.2647E 03	.1883E 02
170	.4164E-03	-.7784E 01	.5262E 00	.7333E-04	-.1272E-04	.2607E 03	.1854E 02
175	.4220E-03	-.7769E 01	.5415E 00	.7446E-04	-.1291E-04	.2568E 03	.1826E 02
180	.4293E-03	-.7753E 01	.0000E 00	.0000E 00	.0000E 00	.2529E 03	.1799E 02

SCAT= .1086E 00 30/45= .4392E 01 45/135= .4247E 01 SCAT30-130= .7720E-02

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3846E 00	-.9555E 00	-.2544E 00	-.2778E 01	.0000E 00	.7152E-01	.1410E-01
5	.1422E 00	-.1951E 01	-.1310E 01	-.9721E 00	.2069E 02	.1935E 00	.3814E-01
10	.5736E-01	-.2858E 01	-.2024E 01	-.3680E 00	.6923E 01	.4796E 00	.9456E-01
15	.2524E-01	-.3679E 01	-.2550E 01	-.1504E 00	.2494E 01	.1090E 01	.2149E 00
20	.1212E-01	-.4413E 01	-.2807E 01	-.8413E-01	.9652E 00	.2269E 01	.4474E 00
25	.6351E-02	-.5059E 01	-.3129E 01	-.3164E-01	.3952E 00	.4331E 01	.8540E 00
30	.3590E-02	-.5630E 01	-.3482E 01	-.1709E-01	.1668E 00	.7663E 01	.1511E 01
35	.2099E-02	-.6166E 01	-.2382E 01	-.6553E-02	.1207E 00	.1311E 02	.2584E 01
40	.1527E-02	-.6485E 01	-.2686E 01	-.4745E-02	.2072E-01	.1802E 02	.3552E 01
45	.1113E-02	-.6801E 01	-.2214E 01	-.2384E-02	.2397E-01	.2472E 02	.4874E 01
50	.8813E-03	-.7034E 01	-.2825E 01	-.1110E-02	.3078E-02	.3121E 02	.6154E 01
55	.6733E-03	-.7303E 01	-.1780E 01	-.9867E-03	.1460E-01	.4086E 02	.8056E 01
60	.5764E-03	-.7459E 01	-.2021E 01	-.5560E-03	.1415E-02	.4773E 02	.9410E 01
65	.4903E-03	-.7621E 01	-.1406E 01	-.7177E-03	.4936E-02	.5611E 02	.1106E 02
70	.4417E-03	-.7725E 01	-.2214E 01	-.3051E-03	-.3806E-02	.6227E 02	.1228E 02
75	.3792E-03	-.7878E 01	-.1430E 01	-.2735E-03	.1270E-02	.7255E 02	.1430E 02
80	.3456E-03	-.7970E 01	-.1181E 01	-.1840E-03	.1026E-02	.7960E 02	.1569E 02
85	.3217E-03	-.8042E 01	-.8956E 00	.6272E-04	.2027E-02	.8551E 02	.1686E 02
90	.3056E-03	-.8093E 01	.3283E 00	.2331E-04	-.4916E-03	.9000E 02	.1774E 02
95	.3111E-03	-.8075E 01	.1270E 00	-.4912E-04	-.5250E-03	.8842E 02	.1743E 02
100	.3131E-03	-.8069E 01	.5100E 00	.8934E-04	.2317E-03	.8784E 02	.1732E 02
105	.3142E-03	-.8065E 01	-.6622E 00	-.1087E-03	-.2269E-02	.8610E 02	.1699E 02
110	.3270E-03	-.8026E 01	.3452E 00	.5385E-04	-.1863E-02	.8413E 02	.1659E 02
115	.3179E-03	-.8055E 01	-.1268E 00	-.1906E-04	.1260E-02	.8654E 02	.1706E 02
120	.3222E-03	-.8040E 01	.6110E 00	.8917E-04	-.8354E-03	.8538E 02	.1683E 02
125	.3205E-03	-.8046E 01	-.5590E 00	-.8030E-04	-.1016E-02	.8502E 02	.1692E 02
130	.3281E-03	-.8022E 01	.2127E 00	.2983E-04	-.5783E-03	.8379E 02	.1652E 02
135	.3353E-03	-.8000E 01	.3649E 00	.4990E-04	-.2299E-05	.8204E 02	.1617E 02
140	.3379E-03	-.7993E 01	.3777E 00	.5054E-04	-.7374E-05	.8140E 02	.1605E 02
145	.3423E-03	-.7980E 01	.3905E 00	.5120E-04	-.7462E-05	.8037E 02	.1585E 02
150	.3467E-03	-.7967E 01	.4033E 00	.5186E-04	-.7560E-05	.7935E 02	.1564E 02
155	.3511E-03	-.7954E 01	.4161E 00	.5252E-04	-.7661E-05	.7834E 02	.1544E 02
160	.3557E-03	-.7941E 01	.4289E 00	.5320E-04	-.7751E-05	.7734E 02	.1525E 02
165	.3603E-03	-.7929E 01	.4417E 00	.5389E-04	-.7863E-05	.7635E 02	.1505E 02
170	.3649E-03	-.7916E 01	.4545E 00	.5458E-04	-.7954E-05	.7538E 02	.1486E 02
175	.3696E-03	-.7903E 01	[illegible]	[illegible]	[illegible]	.7442E 02	.1467E 02
180	.3744E-03	-.7890E 01	.0000E 00	.0000E 00	.0000E 00	.7348E 02	.1449E 02

SCAT= .2751E-01 30/45= .3226E 01 45/135= .3319E 01 SCAT30-130= .5423E-02

CR101/103 5XI163 1700M STA 1577 PIPE SAMPLE

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
165	.4521E-03	-.7701E 01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
170	.4311E-03	-.7749E 01	-.1648E 01	-.2304E-03	.1292E-03	.3604E 03	.6452E 02
175	.4110E-03	-.7797E 01	-.1696E 01	-.2196E-03	.1231E-03	.3781E 03	.6767E 02
180	.3918E-03	-.7845E 01	.0000E 00	.0000E 00	.0000E 00	.3966E 03	.7099E 02

SCAT= .1554E 00 30/45= .3578E 01 45/135= .1185E 02 SCAT30-130= .2781E-01

CR101/104 5XI163 1745M STA1577 18M BOTTLE

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
165	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
170	.3760E-03	-.7886E 01	-.1019E 01	-.2213E-03	.1373E-03	.2315E 03	.6584E 02
175	.3567E-03	-.7939E 01	-.1072E 01	-.2099E-03	.1302E-03	.2441E 03	.6940E 02
180	.3384E-03	-.7991E 01	.0000E 00	.0000E 00	.0000E 00	.2573E 03	.7316E 02

SCAT= .8706E-01 30/45= .3240E 01 45/135= .1237E 02 SCAT30-130= .2479E-01

CR101/105 5XI163 1805M STA 1577 60M BOTTLE

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
165	.4093E-03	-.7801E 01	-.6801E 00	-.9420E-04	.2216E-04	.1356E 03	.3790E 02
170	.4011E-03	-.7821E 01	-.7004E 00	-.9230E-04	.2172E-04	.1384E 03	.3876E 02
175	.3931E-03	-.7842E 01	-.7207E 00	-.9053E-04	.2128E-04	.1413E 03	.3954E 02
180	.3852E-03	-.7862E 01	.0000E 00	.0000E 00	.0000E 00	.1442E 03	.4037E 02

SCAT= .5552E-01 30/45= .3219E 01 45/135= .8285E 01 SCAT30-130= .1595E-01

CR101/106 5XI163 1825M STA 1577 100M BOTTLE

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.4476E 00	-.8037E 00	-.1819E 00	-.2612E 01	.0000E 00	.1363E 00	.3471E-01
5	.2197E 00	-.1515E 01	-.9600E 00	-.1224E 01	.1591E 02	.2776E 00	.7070E-01
10	.1130E 00	-.2181E 01	-.1527E 01	-.5976E 00	.7174E 01	.5401E 00	.1375E 00
15	.6081E-01	-.2800E 01	-.1992E 01	-.3040E 00	.3364E 01	.1003E 01	.2555E 00
20	.3428E-01	-.3373E 01	-.2362E 01	-.1609E 00	.1639E 01	.1779E 01	.4532E 00
25	.2024E-01	-.3900E 01	-.2705E 01	-.9029E-01	.8093E 00	.3014E 01	.7674E 00
30	.1236E-01	-.4393E 01	-.2967E 01	-.5199E-01	.4309E 00	.4935E 01	.1257E 01
35	.7824E-02	-.4851E 01	-.2767E 01	-.2769E-01	.2784E 00	.7797E 01	.1986E 01
40	.5407E-02	-.5220E 01	-.2969E 01	-.1828E-01	.1078E 00	.1128E 02	.2873E 01
45	.3812E-02	-.5570E 01	-.2911E 01	-.1154E-01	.7732E-01	.1600E 02	.4076E 01
50	.2805E-02	-.5876E 01	-.2544E 01	-.6922E-02	.5288E-01	.2175E 02	.5539E 01
55	.2201E-02	-.6119E 01	-.3178E 01	-.6093E-02	.9493E-02	.2772E 02	.7059E 01
60	.1649E-02	-.6395E 01	-.2530E 01	-.3508E-02	.2945E-01	.3655E 02	.9307E 01
65	.1363E-02	-.6598E 01	-.1880E 01	-.1991E-02	.1736E-01	.4479E 02	.1140E 02
70	.1190E-02	-.6734E 01	-.3473E 01	-.3051E-02	-.1215E-01	.5128E 02	.1306E 02
75	.9232E-03	-.6988E 01	-.2039E 01	-.1304E-02	.2002E-01	.6607E 02	.1683E 02
80	.8094E-03	-.7119E 01	-.1802E 01	-.9599E-03	.3946E-02	.7537E 02	.1919E 02
85	.7257E-03	-.7228E 01	-.1444E 01	-.6597E-03	.3440E-02	.8407E 02	.2141E 02
90	.6681E-03	-.7311E 01	-.1308E 01	-.5227E-03	.1569E-02	.9131E 02	.2325E 02
95	.6225E-03	-.7382E 01	-.3925E 00	-.1422E-03	.4361E-02	.9800E 02	.2496E 02
100	.6101E-03	-.7402E 01	-.6798E 00	-.2281E-03	-.9045E-03	.9999E 02	.2547E 02
105	.5902E-03	-.7435E 01	-.1385E 01	-.4221E-03	-.2223E-02	.1034E 03	.2632E 02
110	.5533E-03	-.7500E 01	-.3981E 00	-.1112E-03	.3562E-02	.1102E 03	.2808E 02
115	.5436E-03	-.7517E 01	.3046E 00	.1028E-03	.2452E-02	.1122E 03	.2858E 02
120	.5526E-03	-.7501E 01	-.8043E 00	-.2245E-03	-.3751E-02	.1104E 03	.2811E 02
125	.5330E-03	-.7537E 01	-.1313E 01	-.3065E-03	-.9397E-03	.1145E 03	.2915E 02
130	.5063E-03	-.7588E 01	-.1988E 00	-.4336E-04	.3016E-02	.1205E 03	.3069E 02
135	.5025E-03	-.7596E 01	-.6628E 00	-.1371E-03	-.1074E-02	.1214E 03	.3092E 02
140	.4905E-03	-.7620E 01	-.6981E 00	-.1360E-03	.1264E-04	.1244E 03	.3167E 02
145	.4786E-03	-.7645E 01	-.7226E 00	-.1327E-03	.3772E-04	.1275E 03	.3246E 02
150	.4670E-03	-.7669E 01	-.7471E 00	-.1295E-03	.3681E-04	.1306E 03	.3326E 02
155	.4557E-03	-.7694E 01	-.7716E 00	-.1264E-03	.3592E-04	.1339E 03	.3409E 02
160	.4447E-03	-.7718E 01	-.7961E 00	-.1233E-03	.3505E-04	.1372E 03	.3493E 02
165	.4340E-03	-.7743E 01	-.8206E 00	-.1203E-03	.3420E-04	.1406E 03	.3580E 02
170	.4235E-03	-.7767E 01	-.8451E 00	-.1174E-03	.3337E-04	.1441E 03	.3669E 02
175	.4132E-03	-.7792E 01	-.8696E 00	-.1146E-03	.3257E-04	.1476E 03	.3760E 02
180	.4032E-03	-.7816E 01	.0000E 00	.0000E 00	.0000E 00	.1513E 03	.3853E 02

SCAT= .6100E-01 30/45= .3243E 01 45/135= .7588E 01 SCAT30-130= .1554E-01

CR101/107 5XI163 1855M STA 1577 140M BOTTLE

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2389E 00	-.1432E 01	-.1675E 00	-.1316E 01	.0000E 00	.1646E 00	.4745E-01
5	.1241E 00	-.2087E 01	-.8874E 00	-.6532E 00	.7597E 01	.3169E 00	.9137E-01
10	.6707E-01	-.2702E 01	-.1418E 01	-.3361E 00	.3634E 01	.5862E 00	.1690E 00
15	.3775E-01	-.3277E 01	-.1859E 01	-.1792E 00	.1798E 01	.1042E 01	.3004E 00
20	.2211E-01	-.3812E 01	-.2216E 01	-.9886E-01	.9200E 00	.1778E 01	.5127E 00
25	.1348E-01	-.4306E 01	-.2624E 01	-.5875E-01	.4597E 00	.2916E 01	.8408E 00
30	.8358E-02	-.4785E 01	-.2667E 01	-.3229E-01	.3032E 00	.4705E 01	.1357E 01
35	.5540E-02	-.5196E 01	-.2879E 01	-.2026E-01	.1378E 00	.7098E 01	.2046E 01
40	.3772E-02	-.5580E 01	-.2845E 01	-.1231E-01	.9116E-01	.1043E 02	.3006E 01
45	.2698E-02	-.5915E 01	-.2811E 01	-.7929E-02	.5019E-01	.1457E 02	.4202E 01
50	.2006E-02	-.6211E 01	-.2726E 01	-.5261E-02	.3054E-01	.1960E 02	.5651E 01
55	.1547E-02	-.6471E 01	-.2955E 01	-.4019E-02	.1422E-01	.2541E 02	.7327E 01
60	.1197E-02	-.6728E 01	-.2512E 01	-.2497E-02	.1744E-01	.3286E 02	.9475E 01
65	.9786E-03	-.6929E 01	-.2098E 01	-.1609E-02	.1018E-01	.4018E 02	.1159E 02
70	.8382E-03	-.7084E 01	-.2688E 01	-.1622E-02	-.1460E-03	.4691E 02	.1353E 02
75	.6967E-03	-.7269E 01	-.2356E 01	-.1126E-02	.5679E-02	.5644E 02	.1627E 02
80	.5984E-03	-.7421E 01	-.1403E 01	-.5598E-03	.6499E-02	.6571E 02	.1895E 02
85	.5496E-03	-.7506E 01	-.1248E 01	-.4336E-03	.1438E-02	.7155E 02	.2063E 02
90	.5118E-03	-.7578E 01	-.6849E-01	-.2168E-04	.4720E-02	.7684E 02	.2215E 02
95	.5099E-03	-.7581E 01	-.2781E 00	-.8275E-04	-.6998E-03	.7712E 02	.2224E 02
100	.5027E-03	-.7596E 01	-.3107E 00	-.8665E-04	-.4469E-04	.7823E 02	.2255E 02
105	.4951E-03	-.7611E 01	-.5130E 00	-.1340E-03	-.5429E-03	.7942E 02	.2290E 02
110	.4834E-03	-.7635E 01	-.4324E 00	-.1059E-03	.3274E-03	.8135E 02	.2345E 02
115	.4742E-03	-.7654E 01	-.1050E 01	-.2395E-03	-.1536E-02	.8292E 02	.2391E 02
120	.4533E-03	-.7699E 01	-.2000E 00	[illegible]	.2259E-02	.8675E 02	.2501E 02
125	.4496E-03	-.7707E 01	-.3780E 00	[illegible]	-.3029E-03	.8746E 02	.2522E 02
130	.4430E-03	-.7722E 01	-.1003E-01	-.1921E-05	.8468E-03	.8877E 02	.2559E 02
135	.4428E-03	-.7722E 01	-.6904E 00	-.1258E-03	-.1420E-02	.8880E 02	.2560E 02
140	.4310E-03	-.7747E 01	-.4559E 00	-.7853E-04	.5419E-03	.9106E 02	.2625E 02
145	.4250E-03	-.7763E 01	-.4719E 00	-.7728E-04	.1428E-04	.9253E 02	.2668E 02
150	.4182E-03	-.7779E 01	-.4879E 00	-.7606E-04	.1409E-04	.9402E 02	.2711E 02
155	.4116E-03	-.7795E 01	-.5039E 00	-.7485E-04	.1383E-04	.9554E 02	.2754E 02
160	.4051E-03	-.7811E 01	-.5199E 00	-.7366E-04	.1361E-04	.9708E 02	.2799E 02
165	.3986E-03	-.7827E 01	-.5358E 00	-.7249E-04	.1340E-04	.9864E 02	.2844E 02
170	.3923E-03	-.7843E 01	-.5518E 00	-.7134E-04	.1318E-04	.1002E 03	.2890E 02
175	.3861E-03	-.7859E 01	-.5678E 00	-.7021E-04	.1298E-04	.1018E 03	.2936E 02
180	.3800E-03	-.7875E 01	.0000E 00	.0000E 00	.0000E 00	.1035E 03	.2984E 02

SCAT= .3032E-01 30/45= .3090E 01 45/135= .6093E 01 SCAT30-130= .1134E-01

CR101/108 5XI163 1915M STA 1577 180M BOTTLE

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3248E 00	-.1125E 01	-.1829E 00	-.1902E 01	.0000E 00	.1407E 00	.3810E-01
5	.1588E 00	-.1840E 01	-.9607E 00	-.8849E 00	.1169E 02	.2876E 00	.7792E-01
10	.8161E-01	-.2506E 01	-.1520E 01	-.4303E 00	.5209E 01	.5598E 00	.1516E 00
15	.4406E-01	-.3122E 01	-.1971E 01	-.2189E 00	.2427E 01	.1037E 01	.2809E 00
20	.2499E-01	-.3689E 01	-.2319E 01	-.1157E 00	.1178E 01	.1828E 01	.4952E 00
25	.1489E-01	-.4207E 01	-.2692E 01	-.6620E-01	.5673E 00	.3067E 01	.8310E 00
30	.9117E-02	-.4698E 01	-.2672E 01	-.3526E-01	.3949E 00	.5011E 01	.1358E 01
35	.6039E-02	-.5109E 01	-.2968E 01	-.2264E-01	.1447E 00	.7565E 01	.2049E 01
40	.4063E-02	-.5506E 01	-.2534E 01	-.1201E-01	.1218E 00	.1124E 02	.3046E 01
45	.3015E-02	-.5804E 01	-.2740E 01	-.8642E-02	.3043E-01	.1515E 02	.4105E 01
50	.2259E-02	-.6093E 01	-.3220E 01	-.6856E-02	.2070E-01	.2022E 02	.5479E 01
55	.1661E-02	-.6401E 01	-.2194E 01	-.3255E-02	.4126E-01	.2751E 02	.7452E 01
60	.1377E-02	-.6588E 01	-.2527E 01	-.2809E-02	.4197E-02	.3319E 02	.8992E 01
65	.1125E-02	-.6790E 01	-.3069E 01	-.2621E-02	.3069E-02	.4063E 02	.1101E 02
70	.8950E-03	-.7018E 01	-.2364E 01	-.1644E-02	.1096E-01	.5108E 02	.1382E 02
75	.7505E-03	-.7195E 01	-.2042E 01	-.1062E-02	.6904E-02	.6087E 02	.1649E 02
80	.6570E-03	-.7327E 01	-.1219E 01	-.5360E-03	.6010E-02	.6949E 02	.1881E 02
85	.6110E-03	-.7400E 01	[illegible]	-.6736E-03	-.1967E-02	.7477E 02	.2026E 02
90	.5522E-03	-.7502E 01	-.2047E 00	-.6964E-04	.6921E-02	.8273E 02	.2241E 02
95	.5461E-03	-.7513E 01	-.1166E 01	-.3633E-03	-.3365E-02	.8365E 02	.2266E 02
100	.5144E-03	-.7572E 01	.1498E 00	.4300E-04	.4656E-02	.8881E 02	.2408E 02
105	.5182E-03	-.7565E 01	-.5691E 00	-.1605E-03	-.2332E-02	.8816E 02	.2388E 02
110	.5042E-03	-.7593E 01	-.1344E 01	-.3390E-03	-.2095E-02	.9061E 02	.2455E 02
115	.4745E-03	-.7653E 01	.8412E 00	.1902E-03	.4169E-02	.9620E 02	.2606E 02
120	.4910E-03	-.7617E 01	-.1564E 00	-.3586E-04	-.2602E-02	.9289E 02	.2516E 02
125	.4887E-03	-.7624E 01	-.2296E 00	-.5020E-04	-.1643E-03	.9349E 02	.2533E 02
130	.4843E-03	-.7633E 01	-.6370E 00	-.1320E-03	-.9372E-03	.9439E 02	.2559E 02
135	.4726E-03	-.7657E 01	.4021E 00	.7981E-04	.2427E-02	.9663E 02	.2618E 02
140	.4797E-03	-.7642E 01	-.6669E-01	-.1246E-04	-.1057E-02	.9523E 02	.2580E 02
145	.4787E-03	-.7645E 01	-.6696E-01	-.1244E-04	.3201E-06	.9544E 02	.2586E 02
150	.4776E-03	-.7647E 01	-.6923E-01	-.1241E-04	.3102E-06	.9566E 02	.2591E 02
155	.4765E-03	-.7649E 01	-.7150E-01	-.1238E-04	.3301E-06	.9588E 02	.2597E 02
160	.4754E-03	-.7651E 01	-.7377E-01	-.1235E-04	.3176E-06	.9610E 02	.2603E 02
165	.4743E-03	-.7654E 01	-.7604E-01	-.1232E-04	.3177E-06	.9631E 02	.2609E 02
170	.4733E-03	-.7656E 01	-.7831E-01	-.1230E-04	.3272E-06	.9653E 02	.2615E 02
175	.4722E-03	-.7658E 01	-.8057E-01	-.1227E-04	.3163E-06	.9675E 02	.2621E 02
180	.4711E-03	-.7660E 01	.0000E 00	.0000E 00	.0000E 00	.9697E 02	.2627E 02

SCAT= .4568E-01 30/45= .3024E 01 45/135= .6377E 01 SCAT30-130= .1230E-01

CR101/109 5XI163 STA 1577 200M BOTTLE SUSPECT 0

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1997E 00	-.1611E 01	-.1456E 00	-.9937E 00	.0000E 00	.2448E 00	.8634E-01
5	.1130E 00	-.2181E 01	-.7731E 00	-.5371E 00	.5232E 01	.4327E 00	.1526E 00
10	.6611E-01	-.2716E 01	-.1239E 01	-.2991E 00	.2227E 01	.7394E 00	.2608E 00
15	.4001E-01	-.3219E 01	-.1629E 01	-.1715E 00	.1462E 01	.1222E 01	.4309E 00
20	.2504E-01	-.3687E 01	-.1949E 01	-.1012E 00	.8057E 00	.1952E 01	.6885E 00
25	.1621E-01	-.4122E 01	-.2277E 01	-.6312E-01	.4363E 00	.3015E 01	.1063E 01
30	.1070E-01	-.4537E 01	-.2493E 01	-.3862E-01	.2808E 00	.4567E 01	.1611E 01
35	.7334E-02	-.4915E 01	-.2756E 01	-.2311E-01	.1777E 00	.6665E 01	.2351E 01
40	.5317E-02	-.5237E 01	-.2756E 01	-.1689E-01	.7127E-01	.9194E 01	.3243E 01
45	.3843E-02	-.5562E 01	-.2469E 01	-.1009E-01	.5770E-01	.1272E 02	.4487E 01
50	.2963E-02	-.5822E 01	-.2377E 01	-.6882E-02	.3673E-01	.1650E 02	.5820E 01
55	.2362E-02	-.6048E 01	-.2427E 01	-.5153E-02	.1982E-01	.2069E 02	.7299E 01
60	.1912E-02	-.6259E 01	-.2634E 01	-.4144E-02	.1131E-01	.2556E 02	.9015E 01
65	.1549E-02	-.6470E 01	-.2346E 01	-.2832E-02	.1528E-01	.3156E 02	.1113E 02
70	.1302E-02	-.6644E 01	-.2123E 01	-.2032E-02	.9167E-02	.3755E 02	.1325E 02
75	.1124E-02	-.6791E 01	-.1328E 01	-.1058E-02	.1116E-01	.4348E 02	.1533E 02
80	.1032E-02	-.6876E 01	-.1841E 01	-.1249E-02	-.2187E-02	.4737E 02	.1671E 02
85	.9230E-03	-.6988E 01	-.1008E 01	-.5921E-03	.7527E-02	.5296E 02	.1868E 02
90	.8714E-03	-.7045E 01	-.1840E 00	-.9866E-04	.5652E-02	.5610E 02	.1979E 02
95	.8627E-03	-.7055E 01	-.2724E 00	-.1372E-03	-.4388E-03	.5666E 02	.1998E 02
100	.8508E-03	-.7069E 01	.5917E 00	.2856E-03	.4844E-02	.5746E 02	.2027E 02
105	.8757E-03	-.7041E 01	-.2558E-01	-.1195E-04	-.1335E-02	.5582E 02	.1969E 02
110	.8767E-03	-.7039E 01	-.4630E 00	-.2047E-03	-.2482E-02	.5576E 02	.1967E 02
115	.8589E-03	-.7060E 01	.1424E 01	.6148E-03	.9390E-02	.5691E 02	.2007E 02
120	.9125E-03	-.6999E 01	.1702E 01	.7524E-03	-.1577E-02	.5357E 02	.1889E 02
125	.9782E-03	-.6930E 01	.2870E 01	.1335E-02	.6681E-02	.4997E 02	.1763E 02
130	.1095E-02	-.6817E 01	.3448E 01	.1743E-02	.2882E-02	.4465E 02	.1575E 02
135	.1247E-02	-.6687E 01	.1867E 01	.1004E-02	-.8471E-02	.3920E 02	.1383E 02
140	.1334E-02	-.6619E 01	.2463E 01	.1484E-02	.5825E-02	.3663E 02	.1292E 02
145	.1464E-02	-.6527E 01	.2736E 01	.1630E-02	.1656E-02	.3339E 02	.1178E 02
150	.1606E-02	-.6434E 01	.2828E 01	.1769E-02	.1015E-02	.3044E 02	.1074E 02
155	.1762E-02	-.6341E 01	.1902E 01	.1963E-02	.1992E-02	.2773E 02	.9782E 01
160	.1934E-02	-.6248E 01	.3014E 01	.2153E-02	.2185E-02	.2528E 02	.8915E 01
165	.2122E-02	-.6156E 01	.3107E 01	.2363E-02	.2390E-02	.2303E 02	.8126E 01
170	.2328E-02	-.6063E 01	.3199E 01	.2592E-02	.2631E-02	.2100E 02	.7407E 01
175	.2554E-02	-.5970E 01	.3292E 01	.2844E-02	.2886E-02	.1914E 02	.6751E 01
180	.2802E-02	-.5877E 01	.0000E 00	.0000E 00	.0000E 00	.1744E 02	.6153E 01

SCAT= .4888E-01 30/45= .2785E 01 45/135= .3082E 01 SCAT30-130= .1724E-01

CR101/110 5XI163 STA 1578 PIPE SAMPLE

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.8201E 01	.2104E 01	-.1819E 00	-.4784E 02	.0000E 00	.1326E 00	.3226E-01
5	.4026E 01	.1393E 01	-.9604E 00	-.2242E 02	.2913E 03	.2702E 00	.6576E-01
10	.2069E 01	.7270E 00	-.1529E 01	-.1095E 02	.1314E 03	.5257E 00	.1280E 00
15	.1113E 01	.1072E 00	-.1995E 01	-.5570E 01	.6166E 02	.9770E 00	.2378E 00
20	.6271E 00	-.4666E 00	-.2366E 01	-.2948E 01	.3005E 02	.1734E 01	.4221E 00
25	.3699E 00	-.9946E 00	-.2495E 01	-.1655E 01	.1492E 02	.2941E 01	.7157E 00
30	.2263E 00	-.1486E 01	-.2847E 01	-.9212E 00	.8298E 01	.4806E 01	.1170E 01
35	.1459E 00	-.1925E 01	-.3011E 01	-.5530E 00	.4214E 01	.7455E 01	.1814E 01
40	.9760E-01	-.2327E 01	-.2756E 01	-.3101E 00	.2789E 01	.1114E 02	.2712E 01
45	.7054E-01	-.2652E 01	-.3014E 01	-.2199E 00	.1035E 01	.1542E 02	.3753E 01
50	.5135E-01	-.2969E 01	-.2692E 01	-.1331E 00	.9947E 00	.2118E 02	.5155E 01
55	.3973E-01	-.3226E 01	-.3390E 01	-.1163E 00	.1929E 00	.2738E 02	.6663E 01
60	.2958E-01	-.3521E 01	-.2772E 01	-.6745E-01	.3599E 00	.3677E 02	.8949E 01
65	.2369E-01	-.3743E 01	-.3141E 01	-.5639E-01	.1267E 00	.4590E 02	.1117E 02
70	.1877E-01	-.3975E 01	-.2946E 01	-.3838E-01	.2063E 00	.5792E 02	.1410E 02
75	.1542E-01	-.4172E 01	-.2591E 01	-.2722E-01	.1279E 00	.7051E 02	.1716E 02
80	.1305E-01	-.4339E 01	-.3057E 01	-.2530E-01	.2207E-01	.8335E 02	.2029E 02
85	.1084E-01	-.4525E 01	-.2233E 01	-.1469E-01	.1193E 00	.1003E 03	.2442E 02
90	.9542E-02	-.4652E 01	-.2172E 01	-.1212E-01	.3173E-01	.1140E 03	.2774E 02
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	.3872E-02	-.5554E 01	-.1775E 01	-.2359E-02	.1518E-02	.2809E 03	.6837E 02
165	.3646E-02	-.5609E 01	-.1830E 01	-.2233E-02	.1437E-02	.2967E 03	.7221E 02
170	.3471E-02	-.5663E 01	-.1889E 01	-.2115E-02	.1360E-02	.3133E 03	.7626E 02
175	.3287E-02	-.5718E 01	-.1939E 01	-.2002E-02	.1288E-02	.3309E 03	.8054E 02
180	.3112E-02	-.5773E 01	.0000E 00	.0000E 00	.0000E 00	.3495E 03	.8507E 02

SCAT= .1088E 01 30/45= .3208E 01 45/135= .1403E 02 SCAT30-130= .2647E 00

CR101/111 5XI163 STA 1578 7M BOTTLE

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.6795E 01	.1916E 01	-.1885E 00	-.4062E 02	.0000E 00	.1245E 00	.2940E-01
5	.3251E 01	.1179E 01	-.9912E 00	-.1851E 02	.2933E 03	.2603E 00	.6163E-01
10	.1635E 01	.4918E 00	-.1570E 01	-.8826E 01	.1110E 03	.5174E 00	.1225E 00
15	.8651E 00	-.1450E 00	-.2038E 01	-.4398E 01	.5073E 02	.9781E 00	.2316E 00
20	.4812E 00	-.7314E 00	-.2402E 01	-.2288E 01	.2418E 02	.1758E 01	.4163E 00
25	.2815E 00	-.1267E 01	-.2685E 01	-.1249E 01	.1191E 02	.3005E 01	.7115E 00
30	.1726E 00	-.1757E 01	-.2849E 01	-.7068E 00	.6211E 01	.4903E 01	.1161E 01
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
165	.2712E-02	-.5910E 01	-.1764E 01	-.1596E-02	.9905E-03	.3120E 03	.7387E 02
170	.2573E-02	-.5963E 01	-.1819E 01	-.1514E-02	.9397E-03	.3289E 03	.7787E 02
175	.2441E-02	-.6016E 01	-.1872E 01	-.1437E-02	.8914E-03	.3467E 03	.8208E 02
180	.2315E-02	-.6060E 01	.0000E 00	.0000E 00	.0000E 00	.3654E 03	.8653E 02

SCAT= .8461E 00 30/45= .3172E 01 45/135= .1446E 02 SCAT30-130= .2003E 00

CR101/112 5XI163 2300H STA 1578 17M BOTTLE

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.6442E 01	.1863E 01	-.1819E 00	-.3758E 02	.0000E 00	.1328E 00	.3233E-01
5	.3162E 01	.1151E 01	-.9598E 00	-.1760E 02	.2289E 03	.2706E 00	.6587E-01
10	.1626E 01	.4858E 00	-.1527E 01	-.8597E 01	.1032E 03	.5263E 00	.1281E 00
15	.8753E 00	-.1331E 00	-.1991E 01	-.4373E 01	.4840E 02	.9773E 00	.2379E 00
20	.4937E 00	-.7058E 00	-.2359E 01	-.2315E 01	.2358E 02	.1733E 01	.4218E 00
25	.2917E 00	-.1232E 01	-.2655E 01	-.1283E 01	.1183E 02	.2933E 01	.7141E 00
30	.1797E 00	-.1716E 01	-.2901E 01	-.7426E 00	.6188E 01	.4760E 01	.1159E 01
35	.1149E 00	-.2163E 01	-.2874E 01	-.4198E 00	.3700E 01	.7444E 01	.1812E 01
40	.7830E-01	-.2547E 01	-.2809E 01	-.2527E 00	.1914E 01	.1093E 02	.2660E 01
45	.5624E-01	-.2878E 01	-.2962E 01	-.1728E 00	.9160E 00	.1521E 02	.3703E 01
50	.4116E-01	-.3190E 01	-.3064E 01	-.1195E 00	.6110E 00	.2078E 02	.5060E 01
55	.3074E-01	-.3482E 01	-.3185E 01	-.8526E-01	.3919E 00	.2783E 02	.6776E 01
60	.2330E-01	-.3759E 01	-.2971E 01	-.5651E-01	.3295E 00	.3672E 02	.8939E 01
65	.1837E-01	-.3997E 01	-.2917E 01	-.4092E-01	.1787E 00	.4658E 02	.1134E 02
70	.1480E-01	-.4213E 01	-.3204E 01	-.3363E-01	.8340E-01	.5782E 02	.1408E 02
75	.1186E-01	-.4434E 01	-.2549E 01	-.2062E-01	.1491E 00	.7212E 02	.1756E 02
80	.1006E-01	-.4599E 01	-.2947E 01	-.1887E-01	.2008E-01	.8502E 02	.2070E 02
85	.8416E-02	-.4778E 01	-.2212E 01	-.1145E-01	.8493E-01	.1017E 03	.2475E 02
90	.7416E-02	-.4904E 01	-.1997E 01	-.8698E-02	.3159E-01	.1154E 03	.2808E 02
95	.6657E-02	-.5012E 01	-.2262E 01	-.8356E-02	.3911E-02	.1285E 03	.3128E 02
100	.5928E-02	-.5128E 01	-.1654E 01	-.5268E-02	.3539E-01	.1443E 03	.3513E 02
105	.5468E-02	-.5209E 01	-.1385E 01	-.3911E-02	.1555E-01	.1564E 03	.3809E 02
110	.5127E-02	-.5273E 01	-.1190E 01	-.3028E-02	.1012E-01	.1669E 03	.4062E 02
115	.4863E-02	-.5326E 01	-.1038E 01	-.2409E-02	.7094E-02	.1759E 03	.4283E 02
120	.4653E-02	-.5370E 01	-.1430E 01	-.3023E-02	-.7041E-02	.1839E 03	.4476E 02
125	.4389E-02	-.5429E 01	-.9902E 00	-.1916E-02	.1269E-01	.1949E 03	.4746E 02
130	.4222E-02	-.5468E 01	-.1947E 01	-.3428E-02	-.1733E-01	.2026E 03	.4933E 02
135	.3922E-02	-.5541E 01	-.1176E 01	-.1882E-02	.1771E-01	.2181E 03	.5310E 02
140	.3758E-02	-.5584E 01	-.1501E 01	-.2210E-02	-.3757E-02	.2276E 03	.5542E 02
145	.3565E-02	-.5637E 01	-.1554E 01	-.2097E-02	.1300E-02	.2400E 03	.5842E 02
150	.3382E-02	-.5689E 01	-.1607E 01	-.1989E-02	.1233E-02	.2529E 03	.6158E 02
155	.3209E-02	-.5742E 01	-.1660E 01	-.1887E-02	.1170E-02	.2666E 03	.6491E 02
160	.3044E-02	-.5795E 01	-.1712E 01	-.1790E-02	.1110E-02	.2810E 03	.6842E 02
165	.2888E-02	-.5847E 01	-.1765E 01	-.1698E-02	.1053E-02	.2962E 03	.7212E 02
170	.2740E-02	-.5900E 01	-.1818E 01	-.1611E-02	.9989E-03	.3123E 03	.7602E 02
175	.2599E-02	-.5953E 01	-.1870E 01	-.1529E-02	.9476E-03	.3292E 03	.8014E 02
180	.2466E-02	-.6005E 01	.0000E 00	.0000E 00	.0000E 00	.3470E 03	.8447E 02

SCAT= .8555E 00 30/45= .3196E 01 45/135= .1434E 02 SCAT30-130= .2083E 00

CR101/113 5XI163 STA 1578 27M BOTTLE

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.5338E 01	.1675E 01	-.1726E 00	-.3002E 02	.0000E 00	.1485E 00	.3093E-01
5	.2718E 01	.9998E 00	-.9129E 00	-.1460E 02	.1767E 03	.2916E 00	.7647E-01
10	.1443E 01	.3670E 00	-.1456E 01	-.7376E 01	.8280E 02	.5490E 00	.1440E 00
15	.7997E 00	-.2235E 00	-.1906E 01	-.3868E 01	.4021E 02	.9910E 00	.2599E 00
20	.4622E 00	-.7718E 00	-.2268E 01	-.2103E 01	.2022E 02	.1715E 01	.4496E 00
25	.2786E 00	-.1278E 01	-.2560E 01	-.1191E 01	.1044E 02	.2844E 01	.7458E 00
30	.1747E 00	-.1745E 01	-.2744E 01	-.6906E 00	.5731E 01	.4536E 01	.1189E 01
35	.1149E 00	-.2168E 01	-.2891E 01	-.4200E 00	.3101E 01	.6924E 01	.1816E 01
40	.7781E-01	-.2554E 01	-.2786E 01	-.2494E 00	.1955E 01	.1019E 02	.2671E 01
45	.5604E-01	-.2882E 01	-.2892E 01	-.1687E 00	.9250E 00	.1414E 02	.3708E 01
50	.4132E-01	-.3186E 01	-.3025E 01	-.1186E 00	.5736E 00	.1918E 02	.5029E 01
55	.3097E-01	-.3475E 01	-.3115E 01	-.8427E-01	.3936E 00	.2559E 02	.6710E 01
60	.2362E-01	-.3746E 01	-.2891E 01	-.5591E-01	.3250E 00	.3356E 02	.8799E 01
65	.1874E-01	-.3977E 01	-.3044E 01	-.4337E-01	.1437E 00	.4229E 02	.1109E 02
70	.1495E-01	-.4203E 01	-.3131E 01	-.3329E-01	.1155E 00	.5300E 02	.1390E 02
75	.1205E-01	-.4419E 01	-.2780E 01	-.2268E-01	.1216E 00	.6577E 02	.1725E 02
80	.1007E-01	-.4598E 01	-.2795E 01	-.1799E-01	.5376E-01	.7870E 02	.2064E 02
85	.8500E-02	-.4768E 01	-.2784E 01	-.1433E-01	.4189E-01	.9323E 02	.2445E 02
90	.7249E-02	-.4927E 01	-.1903E 01	-.8124E-02	.7114E-01	.1093E 03	.2867E 02
95	.6541E-02	-.5030E 01	-.2270E 01	-.8237E-02	-.1296E-02	.1212E 03	.3177E 02
100	.5822E-02	-.5146E 01	-.1727E 01	-.5390E-02	.3262E-01	.1361E 03	.3570E 02
105	.5351E-02	-.5230E 01	-.1136E 01	-.3159E-02	.2561E-01	.1481E 03	.3883E 02
110	.5076E-02	-.5283E 01	-.1559E 01	-.3894E-02	-.8461E-02	.1561E 03	.4094E 02
115	.4736E-02	-.5353E 01	-.1037E 01	-.2344E-02	.1776E-01	.1673E 03	.4388E 02
120	.4532E-02	-.5397E 01	-.3501E 00	-.7369E-03	.1842E-01	.1749E 03	.4586E 02
125	.4467E-02	-.5411E 01	-.1796E 01	-.3482E-02	-.3145E-01	.1774E 03	.4652E 02
130	.4163E-02	-.5481E 01	-.1573E 01	-.2790E-02	.8385E-02	.1903E 03	.4991E 02
135	.3923E-02	-.5541E 01	-.9096E 00	-.1463E-02	.1475E-01	.2020E 03	.5297E 02
140	.3796E-02	-.5574E 01	-.1314E 01	-.1960E-02	-.5700E-02	.2088E 03	.5475E 02
145	.3625E-02	-.5620E 01	-.1360E 01	-.1872E-02	.1012E-02	.2186E 03	.5733E 02
150	.3461E-02	-.5666E 01	-.1406E 01	-.1788E-02	.9668E-03	.2290E 03	.6004E 02
155	.3305E-02	-.5712E 01	-.1453E 01	-.1707E-02	.9232E-03	.2398E 03	.6287E 02
160	.3156E-02	-.5758E 01	-.1499E 01	-.1630E-02	.8816E-03	.2511E 03	.6584E 02
165	.3014E-02	-.5804E 01	-.1545E 01	-.1557E-02	.8418E-03	.2629E 03	.6895E 02
170	.2878E-02	-.5851E 01	-.1591E 01	-.1486E-02	.8039E-03	.2753E 03	.7220E 02
175	.2749E-02	-.5897E 01	-.1637E 01	-.1419E-02	.7677E-03	.2883E 03	.7561E 02
180	.2625E-02	-.5943E 01	.0000E 00	.0000E 00	.0000E 00	.3019E 03	.7918E 02

SCAT= .7925E 00 30/45= .3118E 01 45/135= .1428E 02 SCAT30-130= .2078E 00

CR101/114 5XI163 STA 1578 37M BOTTLE

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.7022E 01	.1949E 01	-.1987E 00	-.4347E 02	.0000E 00	.1122E 00	.2516E-01
5	.3228E 01	.1172E 01	-.1041E 01	-.1902E 02	.2802E 03	.2441E 00	.5473E-01
10	.1568E 01	.4500E 00	-.1644E 01	-.8745E 01	.1177E 03	.5025E 00	.1127E 00
15	.8051E 00	-.2167E 00	-.2126E 01	-.4221E 01	.5184E 02	.9787E 00	.2194E 00
20	.4368E 00	-.8282E 00	-.2493E 01	-.2136E 01	.2389E 02	.1804E 01	.4045E 00
25	.2504E 00	-.1385E 01	-.2747E 01	-.1131E 01	.1152E 02	.3147E 01	.7055E 00
30	.1518E 00	-.1885E 01	-.2993E 01	-.6427E 00	.5592E 01	.5192E 01	.1164E 01
35	.9568E-01	-.2347E 01	-.2841E 01	-.3462E 00	.3398E 01	.8236E 01	.1846E 01
40	.6548E-01	-.2726E 01	-.2796E 01	-.2105E 00	.1554E 01	.1204E 02	.2698E 01
45	.4710E-01	-.3055E 01	-.2781E 01	-.1371E 00	.8415E 00	.1673E 02	.3751E 01
50	.3514E-01	-.3348E 01	-.3004E 01	-.1002E 00	.4224E 00	.2243E 02	.5028E 01
55	.2639E-01	-.3635E 01	-.2959E 01	-.6855E-01	.3632E 00	.2986E 02	.6695E 01
60	.2041E-01	-.3892E 01	-.2949E 01	-.4918E-01	.2221E 00	.3861E 02	.8657E 01
65	.1612E-01	-.4128E 01	-.3156E 01	-.3851E-01	.1222E 00	.4890E 02	.1096E 02
70	.1276E-01	-.4362E 01	-.3143E 01	-.2849E-01	.1148E 00	.6178E 02	.1385E 02
75	.1027E-01	-.4579E 01	-.2920E 01	-.2021E-01	.9487E-01	.7674E 02	.1720E 02
80	.8506E-02	-.4767E 01	-.2288E 01	-.1263E-01	.8694E-01	.9265E 02	.2077E 02
85	.7404E-02	-.4906E 01	-.2529E 01	-.1142E-01	.1383E-01	.1064E 03	.2386E 02
90	.6407E-02	-.5050E 01	-.2724E 01	-.1006E-01	.1561E-01	.1230E 03	.2757E 02
95	.5530E-02	-.5198E 01	-.1503E 01	-.4702E-02	.6135E-01	.1425E 03	.3195E 02
100	.5119E-02	-.5275E 01	-.2097E 01	-.5706E-02	-.1150E-01	.1539E 03	.3451E 02
105	.4622E-02	-.5377E 01	-.1028E 01	-.2473E-02	.3705E-01	.1705E 03	.3823E 02
110	.4406E-02	-.5425E 01	-.1121E 01	-.2454E-02	.2142E-03	.1789E 03	.4010E 02
115	.4192E-02	-.5475E 01	-.1349E 01	-.2680E-02	-.2590E-02	.1880E 03	.4215E 02
120	.3958E-02	-.5532E 01	-.4179E 00	-.7663E-03	.2193E-01	.1991E 03	.4464E 02
125	.3891E-02	-.5549E 01	-.1771E 01	-.2992E-02	-.2550E-01	.2025E 03	.4541E 02
130	.3630E-02	-.5619E 01	-.7618E 00	-.1179E-02	.2077E-01	.2171E 03	.4868E 02
135	.3527E-02	-.5647E 01	-.1292E 01	-.1799E-02	-.7113E-02	.2234E 03	.5010E 02
140	.3370E-02	-.5693E 01	-.1230E 01	-.1632E-02	.1922E-02	.2339E 03	.5243E 02
145	.3227E-02	-.5736E 01	-.1274E 01	-.1563E-02	.7901E-03	.2442E 03	.5474E 02
150	.3091E-02	-.5779E 01	-.1317E 01	-.1497E-02	.7567E-03	.2549E 03	.5716E 02
155	.2960E-02	-.5822E 01	-.1360E 01	-.1434E-02	.7248E-03	.2662E 03	.5968E 02
160	.2839E-02	-.5866E 01	-.1403E 01	-.1373E-02	.6941E-03	.2779E 03	.6231E 02
165	.2715E-02	-.5909E 01	-.1446E 01	-.1315E-02	.6648E-03	.2902E 03	.6506E 02
170	.2601E-02	-.5952E 01	-.1489E 01	-.1259E-02	.6367E-03	.3030E 03	.6793E 02
175	.2491E-02	-.5995E 01	-.1533E 01	-.1206E-02	.6098E-03	.3164E 03	.7093E 02
180	.2386E-02	-.6038E 01	.0000E 00	.0000E 00	.0000E 00	.3303E 03	.7406E 02

SCAT= .7880E 00 30/45= .3222E 01 45/135= .1336E 02 SCAT30-130= .1767E 00

CR101/115 5XI163 2340H STA 1578 47M BOTTLE

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.6033E 01	.1797E 01	-.1791E 00	-.3482E 02	.0000E 00	.1366E 00	.3367E-01
5	.2994E 01	.1097E 01	-.9465E 00	-.1651E 02	.2099E 03	.2753E 00	.6784E-01
10	.1554E 01	.4406E 00	-.1508E 01	-.8143E 01	.9582E 02	.5306E 00	.1307E 00
15	.8429E 00	-.1709E 00	-.1970E 01	-.4179E 01	.4542E 02	.9779E 00	.2409E 00
20	.4782E 00	-.7377E 00	-.2340E 01	-.2229E 01	.2235E 02	.1724E 01	.4247E 00
25	.2837E 00	-.1260E 01	-.2658E 01	-.1248E 01	.1124E 02	.2906E 01	.7160E 00
30	.1747E 00	-.1745E 01	-.2843E 01	-.7106E 00	.6161E 01	.4718E 01	.1162E 01
35	.1127E 00	-.2183E 01	-.2928E 01	-.4179E 00	.3353E 01	.7313E 01	.1802E 01
40	.7625E-01	-.2574E 01	-.2848E 01	-.2490E 00	.1936E 01	.1081E 02	.2664E 01
45	.5452E-01	-.2909E 01	-.2947E 01	-.1668E 00	.9420E 00	.1512E 02	.3725E 01
50	.3997E-01	-.3220E 01	-.3040E 01	-.1152E 00	.5908E 00	.2062E 02	.5081E 01
55	.2992E-01	-.3509E 01	-.2961E 01	-.7785E-01	.4279E 00	.2755E 02	.6789E 01
60	.2312E-01	-.3767E 01	-.3089E 01	-.5804E-01	.2270E 00	.3565E 02	.8784E 01
65	.1806E-01	-.4014E 01	-.3223E 01	-.4397E-01	.1613E 00	.4565E 02	.1125E 02
70	.1422E-01	-.4253E 01	-.2705E 01	-.2774E-01	.1859E 00	.5797E 02	.1428E 02
75	.1180E-01	-.4440E 01	-.2787E 01	-.2226E-01	.6285E-01	.6986E 02	.1721E 02
80	.9856E-02	-.4620E 01	-.2693E 01	-.1701E-01	.6012E-01	.8363E 02	.2061E 02
85	.8372E-02	-.4783E 01	-.2644E 01	[illegible]	.4079E-01	.9846E 02	.2426E 02
90	.7198E-02	-.4934E 01	-.2673E 01	[illegible]	.2701E-01	.1145E 03	.2822E 02
95	.6229E-02	-.5079E 01	-.2048E 01	-.7118E-02	.4561E-01	.1323E 03	.3261E 02
100	.5608E-02	-.5184E 01	-.1516E 01	-.4581E-02	.2906E-01	.1470E 03	.3622E 02
105	.5208E-02	-.5258E 01	-.1080E 01	-.2924E-02	.1900E-01	.1583E 03	.3900E 02
110	.4953E-02	-.5308E 01	-.1281E 01	-.3143E-02	-.2508E-02	.1664E 03	.4101E 02
115	.4679E-02	-.5365E 01	-.1065E 01	-.2376E-02	.8789E-02	.1762E 03	.4341E 02
120	.4471E-02	-.5410E 01	-.8019E 00	-.1650E-02	.8312E-02	.1843E 03	.4542E 02
125	.4327E-02	-.5443E 01	-.1030E 01	-.1978E-02	-.3762E-02	.1905E 03	.4693E 02
130	.4155E-02	-.5483E 01	-.1172E 01	-.2060E-02	-.9371E-03	.1984E 03	.4888E 02
135	.3975E-02	-.5528E 01	-.1014E 01	-.1649E-02	.4710E-02	.2074E 03	.5109E 02
140	.3831E-02	-.5565E 01	-.1130E 01	-.1719E-02	-.7983E-03	.2152E 03	.5301E 02
145	.3681E-02	-.5605E 01	-.1170E 01	-.1652E-02	.7712E-03	.2239E 03	.5517E 02
150	.3537E-02	-.5644E 01	-.1210E 01	-.1587E-02	.7409E-03	.2331E 03	.5742E 02
155	.3398E-02	-.5684E 01	-.1250E 01	-.1525E-02	.7119E-03	.2426E 03	.5976E 02
160	.3265E-02	-.5724E 01	-.1290E 01	-.1465E-02	.6841E-03	.2524E 03	.6220E 02
165	.3138E-02	-.5764E 01	-.1330E 01	-.1408E-02	.6572E-03	.2627E 03	.6473E 02
170	.3015E-02	-.5804E 01	-.1370E 01	-.1353E-02	.6316E-03	.2734E 03	.6737E 02
175	.2897E-02	-.5844E 01	-.1410E 01	-.1300E-02	.6068E-03	.2846E 03	.7011E 02
180	.2783E-02	-.5884E 01	.0000E 00	.0000E 00	.0000E 00	.2962E 03	.7297E 02

SCAT= .8243E 00 30/45= .3205E 01 45/135= .1372E 02 SCAT30-130= .2031E 00

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.5828E 01	.1763E 01	-.1879E 00	-.3476E 02	.0000E 00	.1251E 00	.2974E-01
5	.2795E 01	.1028E 01	-.9892E 00	-.1589E 02	.2163E 03	.2609E 00	.6203E-01
10	.1408E 01	.3420E 00	-.1569E 01	-.7594E 01	.9508E 02	.5179E 00	.1231E 00
15	.7450E 00	-.2943E 00	-.2040E 01	-.3791E 01	.4359E 02	.9786E 00	.2327E 00
20	.4142E 00	-.8813E 00	-.2409E 01	-.1974E 01	.2082E 02	.1760E 01	.4185E 00
25	.2420E 00	-.1419E 01	-.2671E 01	-.1069E 01	.1037E 02	.3013E 01	.7164E 00
30	.1487E 00	-.1906E 01	-.2902E 01	-.6146E 00	.5205E 01	.4903E 01	.1166E 01
35	.9506E-01	-.2353E 01	-.2908E 01	-.3505E 00	.3026E 01	.7670E 01	.1824E 01
40	.6447E-01	-.2742E 01	-.2791E 01	-.2070E 00	.1645E 01	.1131E 02	.2689E 01
45	.4641E-01	-.3070E 01	-.2893E 01	-.1397E 00	.7706E 00	.1571E 02	.3735E 01
50	.3422E-01	-.3375E 01	-.2995E 01	-.9735E-01	.4855E 00	.2131E 02	.5066E 01
55	.2572E-01	-.3660E 01	-.2709E 01	-.6188E-01	.4065E 00	.2835E 02	.6740E 01
60	.2032E-01	-.3896E 01	-.3199E 01	-.5260E-01	.1064E 00	.3588E 02	.8531E 01
65	.1573E-01	-.4152E 01	-.3295E 01	-.3905E-01	.1552E 00	.4635E 02	.1102E 02
70	.1232E-01	-.4396E 01	-.2509E 01	-.2241E-01	.1907E 00	.5917E 02	.1407E 02
75	.1037E-01	-.4569E 01	-.3367E 01	-.2320E-01	-.9067E-02	.7033E 02	.1672E 02
80	.8342E-02	-.4786E 01	-.2691E 01	-.1439E-01	.1010E 00	.8740E 02	.2078E 02
85	.7087E-02	-.4950E 01	-.2524E 01	-.1091E-01	.3987E-01	.1029E 03	.2446E 02
90	.6134E-02	-.5094E 01	-.2321E 01	-.8289E-02	.3004E-01	.1189E 03	.2826E 02
95	.5411E-02	-.5219E 01	-.2107E 01	-.6353E-02	.2219E-01	.1347E 03	.3204E 02
100	.4857E-02	-.5327E 01	-.1612E 01	-.4210E-02	.2456E-01	.1501E 03	.3569E 02
105	.4489E-02	-.5406E 01	-.1611E 01	-.3714E-02	.5685E-02	.1624E 03	.3861E 02
110	.4165E-02	-.5481E 01	-.1194E 01	-.2467E-02	.1428E-01	.1751E 03	.4162E 02
115	.3950E-02	-.5534E 01	-.1916E 01	-.3545E-02	-.1235E-01	.1846E 03	.4389E 02
120	.3641E-02	-.5616E 01	.2473E 00	.4233E-03	.4547E-01	.2003E 03	.4762E 02
125	.3678E-02	-.5606E 01	-.1709E 01	-.2731E-02	-.3615E-01	.1983E 03	.4714E 02
130	.3439E-02	-.5673E 01	-.1843E 01	-.2648E-02	.9591E-03	.2120E 03	.5041E 02
135	.3208E-02	-.5742E 01	-.8998E 00	-.1184E-02	.1678E-01	.2273E 03	.5404E 02
140	.3105E-02	-.5775E 01	-.1348E 01	-.1643E-02	-.5268E-02	.2348E 03	.5583E 02
145	.2961E-02	-.5822E 01	-.1395E 01	-.1567E-02	.8697E-03	.2462E 03	.5854E 02
150	.2825E-02	-.5869E 01	-.1442E 01	-.1495E-02	.8295E-03	.2581E 03	.6137E 02
155	.2694E-02	-.5917E 01	-.1489E 01	-.1426E-02	.7912E-03	.2706E 03	.6434E 02
160	.2570E-02	-.5964E 01	-.1537E 01	-.1360E-02	.7547E-03	.2837E 03	.6746E 02
165	.2451E-02	-.6011E 01	-.1584E 01	-.1297E-02	.7198E-03	.2975E 03	.7073E 02
170	.2338E-02	-.6059E 01	-.1631E 01	-.1237E-02	.6866E-03	.3119E 03	.7415E 02
175	.2230E-02	-.6106E 01	-.1679E 01	-.1180E-02	.6549E-03	.3270E 03	.7774E 02
180	.2127E-02	-.6153E 01	.0000E 00	.0000E 00	.0000E 00	.3428E 03	.8151E 02

SCAT= .7291E 00 30/45= .3204E 01 45/135= .1447E 02 SCAT30-130= .1734E 00

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIG
00	.6033E 01	.1797E 01	-.1598E 00	-.3213E 02	.0000E 00	.1707E 00	.4728E-01
5	.3229E 01	.1172E 01	-.8493E 00	-.1646E 02	.1795E 03	.3189E 00	.8833E-01
10	.1792E 01	.5835E 00	-.1362E 01	-.8717E 01	.8870E 02	.5745E 00	.1591E 00
15	.1032E 01	.3110E-01	-.1794E 01	-.4766E 01	.4528E 02	.9982E 00	.2765E 00
20	.6157E 00	-.4850E 00	-.2150E 01	-.2689E 01	.2380E 02	.1672E 01	.4633E 00
25	.3810E 00	-.9648E 00	-.2446E 01	-.1571E 01	.1281E 02	.2702E 01	.7486E 00
30	.2440E 00	-.1411E 01	-.2740E 01	-.9633E 00	.6961E 01	.4221E 01	.1169E 01
35	.1599E 00	-.1833E 01	-.2697E 01	-.5541E 00	.4689E 01	.6439E 01	.1784E 01
40	.1116E 00	-.2193E 01	-.2810E 01	-.3602E 00	.2222E 01	.9230E 01	.2557E 01
45	.8012E-01	-.2524E 01	-.2944E 01	-.2448E 00	.1322E 01	.1285E 02	.3560E 01
50	.5876E-01	-.2834E 01	-.1073E 02	-.4311E 00	-.2134E 01	.1752E 02	.4855E 01
55	.2114E-01	-.3857E 01	.5816E 01	.1596E 00	.6768E 01	.4871E 02	.1349E 02
60	.3506E-01	-.3351E 01	-.3065E 01	-.8741E-01	-.2830E 01	.2937E 02	.8135E 01
65	.2744E-01	-.3596E 01	-.2985E 01	-.6240E-01	.2866E 00	.3753E 02	.1040E 02
70	.2199E-01	-.3817E 01	-.3185E 01	-.4971E-01	.1454E 00	.4682E 02	.1297E 02
75	.1765E-01	-.4037E 01	-.2885E 01	-.3436E-01	.1759E 00	.5833E 02	.1616E 02
80	.1465E-01	-.4223E 01	-.2483E 01	-.2347E-01	.1248E 00	.7027E 02	.1946E 02
85	.1261E-01	-.4374E 01	-.2493E 01	-.1918E-01	.4910E-01	.8168E 02	.2263E 02
90	.1093E-01	-.4516E 01	-.2283E 01	-.1455E-01	.5314E-01	.9419E 02	.2609E 02
95	.9663E-02	-.4639E 01	-.2282E 01	-.1223E-01	.2656E-01	.1066E 03	.2952E 02
100	.8596E-02	-.4757E 01	-.1519E 01	-.7035E-02	.5952E-01	.1198E 03	.3318E 02
105	.7982E-02	-.4831E 01	-.1300E 01	-.5367E-02	.1912E-01	.1290E 03	.3574E 02
110	.7513E-02	-.4891E 01	-.1396E 01	-.5179E-02	.2150E-02	.1371E 03	.3796E 02
115	.7061E-02	-.4953E 01	-.1068E 01	-.3596E-02	.1813E-01	.1458E 03	.4039E 02
120	.6748E-02	-.4999E 01	.5199E 01	.1828E-01	.2507E 00	.1526E 03	.4227E 02
125	.8343E-02	-.4786E 01	-.7402E 01	-.2409E-01	-.4855E 00	.1234E 03	.3419E 02
130	.6241E-02	-.5077E 01	[illegible]	-.6992E-02	.1959E 00	.1650E 03	.4571E 02
135	.5631E-02	-.5180E 01	.6149E 00	.1459E-02	.9685E-01	.1829E 03	.5066E 02
140	.5758E-02	-.5157E 01	-.1913E 01	-.3411E-02	-.5581E-01	.1788E 03	.4954E 02
145	.5460E-02	-.5210E 01	-.1566E 01	-.3235E-02	.2021E-02	.1886E 03	.5224E 02
150	.5178E-02	-.5263E 01	-.1619E 01	-.3067E-02	.1916E-02	.1989E 03	.5509E 02
155	.4910E-02	-.5316E 01	-.1672E 01	-.2909E-02	.1817E-02	.2097E 03	.5809E 02
160	.4657E-02	-.5369E 01	-.1725E 01	-.2758E-02	.1723E-02	.2211E 03	.6126E 02
165	.4416E-02	-.5423E 01	-.1778E 01	-.2616E-02	.1634E-02	.2332E 03	.6460E 02
170	.4188E-02	-.5476E 01	-.1831E 01	-.2481E-02	.1550E-02	.2459E 03	.6812E 02
175	.3971E-02	-.5529E 01	-.1884E 01	-.2352E-02	.1469E-02	.2593E 03	.7183E 02
180	.3766E-02	-.5582E 01	.0000E 00	.0000E 00	.0000E 00	.2734E 03	.7575E 02

SCAT= .1030E 01 30/45= .3045E 01 45/135= .1423E 02 SCAT30-130= .2852E 00

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1278E 02	.2548E 01	-.1783E 00	-.7350E 02	.0000E 00	.1304E 00	.3474E-01
5	.6361E 01	.1850E 01	-.9419E 00	-.3495E 02	.4418E 03	.2780E 00	.6977E-01
10	.3311E 01	.1197E 01	-.1500E 01	-.1729E 02	.2023E 03	.5341E 00	.1340E 00
15	.1802E 01	.5889E 00	-.1960E 01	-.8901E 01	.9618E 02	.9813E 00	.2463E 00
20	.1025E 01	.2501E-01	-.2328E 01	-.4760E 01	.4745E 02	.1725E 01	.4328E 00
25	.6099E 00	-.4944E 00	-.2641E 01	-.2671E 01	.2395E 02	.2899E 01	.7276E 00
30	.3769E 00	-.9759E 00	-.2735E 01	-.1486E 01	.1358E 02	.4692E 01	.1178E 01
35	.2472E 00	-.1398E 01	-.2981E 01	-.9303E 00	.6365E 01	.7154E 01	.1795E 01
40	.1660E 00	-.1796E 01	-.2907E 01	-.5515E 00	.4340E 01	.1065E 02	.2673E 01
45	.1179E 00	-.2138E 01	-.2795E 01	-.3446E 00	.2370E 01	.1500E 02	.3764E 01
50	.8782E-01	-.2433E 01	-.2965E 01	-.2477E 00	.1110E 01	.2014E 02	.5054E 01
55	.6620E-01	-.2715E 01	-.2815E 01	-.1648E 00	.9505E 00	.2671E 02	.6704E 01
60	.5182E-01	-.2960E 01	-.3069E 01	-.1293E 00	.4064E 00	.3413E 02	.8565E 01
65	.4053E-01	-.3206E 01	-.2937E 01	-.9084E-01	.4410E 00	.4363E 02	.1095E 02
70	.3260E-01	-.3423E 01	-.3597E 01	-.8211E-01	.1000E 00	.5424E 02	.1361E 02
75	.2544E-01	-.3672E 01	-.2410E 01	-.4199E-01	.4598E 00	.6952E 02	.1745E 02
80	.2177E-01	-.3827E 01	-.2986E 01	-.4131E-01	.7793E-02	.8122E 02	.2038E 02
85	.1817E-01	-.4008E 01	-.2779E 01	-.3057E-01	.1230E 00	.9734E 02	.2443E 02
90	.1550E-01	-.4167E 01	-.2251E 01	-.2035E-01	.1172E 00	.1141E 03	.2863E 02
95	.1372E-01	-.4289E 01	-.2540E 01	-.1921E-01	.1304E-01	.1289E 03	.3234E 02
100	.1205E-01	-.4419E 01	-.1679E 01	-.1086E-01	.9570E-01	.1468E 03	.3684E 02
105	.1110E-01	-.4501E 01	-.1193E 01	-.6865E-02	.4576E-01	.1593E 03	.3998E 02
110	.1050E-01	-.4556E 01	-.1385E 01	-.7184E-02	-.3649E-02	.1684E 03	.4226E 02
115	.9874E-02	-.4618E 01	-.1213E 01	-.5693E-02	.1709E-01	.1791E 03	.4495E 02
120	.9377E-02	-.4669E 01	-.1294E 01	-.5528E-02	.1881E-02	.1886E 03	.4733E 02
125	.8895E-02	-.4722E 01	-.1384E 01	-.5383E-02	.1664E-02	.1988E 03	.4989E 02
130	.8425E-02	-.4777E 01	-.2202E 01	-.7700E-02	-.2655E-01	.2099E 03	.5268E 02
135	.7753E-02	-.4860E 01	-.1260E 01	-.3978E-02	.4265E-01	.2281E 03	.5724E 02
140	.7406E-02	-.4906E 01	-.1683E 01	-.4867E-02	-.1018E-01	.2388E 03	.5993E 02
145	.6981E-02	-.4965E 01	-.1742E 01	-.4588E-02	.3199E-02	.2533E 03	.6357E 02
150	.6581E-02	-.5024E 01	-.1801E 01	-.4325E-02	.3015E-02	.2687E 03	.6744E 02
155	.6203E-02	-.5083E 01	-.1860E 01	-.4077E-02	.2842E-02	.2851E 03	.7154E 02
160	.5847E-02	-.5142E 01	-.1919E 01	-.3843E-02	.2679E-02	.3024E 03	.7590E 02
165	.5512E-02	-.5201E 01	-.1978E 01	-.3623E-02	.2526E-02	.3208E 03	.8051E 02
170	.5196E-02	-.5260E 01	-.2038E 01	-.3415E-02	.2381E-02	.3403E 03	.8541E 02
175	.4898E-02	-.5319E 01	-.2097E 01	-.3219E-02	.2244E-02	.3611E 03	.9061E 02
180	.4617E-02	-.5378E 01	.0000E 00	.0000E 00	.0000E 00	.3830E 03	.9612E 02

SCAT= .1768E 01 30/45= .3197E 01 45/135= .152'E 02 SCAT30-130= .4438E 00

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.7855E 01	.2061E 01	-.1792E 00	-.4534E 02	.0000E 00	.1374E 00	.3410E-01
5	.3898E 01	.1360E 01	-.9446E 00	-.2146E 02	.2737E 03	.2769E 00	.6888E-01
10	.2025E 01	.7056E 00	-.1501E 01	-.1058E 02	.1246E 03	.5330E 00	.1326E 00
15	.1102E 01	.9683E-01	-.1956E 01	-.5433E 01	.5899E 02	.9798E 00	.2437E 00
20	.6275E 00	-.4660E 00	-.2316E 01	-.2902E 01	.2900E 02	.1720E 01	.4278E 00
25	.3743E 00	-.9828E 00	-.2616E 01	-.1627E 01	.1462E 02	.2884E 01	.7173E 00
30	.2323E 00	-.1460E 01	-.2830E 01	-.9411E 00	.7856E 01	.4646E 01	.1156E 01
35	.1502E 00	-.1896E 01	-.2857E 01	-.5458E 00	.4529E 01	.7187E 01	.1787E 01
40	.1026E 00	-.2277E 01	-.2642E 01	-.3142E 00	.2654E 01	.1052E 02	.2618E 01
45	.7514E-01	-.2588E 01	-.2950E 01	-.2300E 00	.9650E 00	.1437E 02	.3573E 01
50	.5506E-01	-.2899E 01	-.3064E 01	-.1598E 00	.8045E 00	.1960E 02	.4876E 01
55	.4112E-01	-.3191E 01	-.3153E 01	-.1130E 00	.5360E 00	.2625E 02	.6529E 01
60	.3125E-01	-.3466E 01	-.2773E 01	-.7128E-01	.4786E 00	.3454E 02	.8590E 01
65	.2503E-01	-.3688E 01	-.3840E 01	-.7104E-01	.2701E-02	.4312E 02	.1072E 02
70	.1883E-01	-.3972E 01	-.3075E 01	-.4125E-01	.3414E 00	.5732E 02	.1426E 02
75	.1523E-01	-.4184E 01	-.3561E 01	-.3584E-01	.6207E-01	.7086E 02	.1762E 02
80	.1211E-01	-.4414E 01	-.3568E 01	-.2698E-01	.1015E 00	.8917E 02	.2218E 02
85	.9751E-02	-.4630E 01	-.3164E 01	-.1848E-01	.9739E-01	.1107E 03	.2753E 02
90	.8138E-02	-.4811E 01	-.2692E 01	-.1263E-01	.6709E-01	.1326E 03	.3299E 02
95	.7035E-02	-.4957E 01	-.1706E 01	-.6753E-02	.6737E-01	.1534E 03	.3816E 02
100	.6446E-02	-.5044E 01	-.1394E 01	-.4856E-02	.2174E-01	.1675E 03	.4165E 02
105	.6022E-02	-.5112E 01	-.8952E 00	-.2815E-02	.2339E-01	.1792E 03	.4458E 02
110	.5777E-02	-.5154E 01	-.1284E 01	-.3671E-02	-.9812E-02	.1869E 03	.4647E 02
115	.5456E-02	-.5211E 01	-.4246E 00	-.1120E-02	.2924E-01	.1978E 03	.4920E 02
120	.5399E-02	-.5229E 01	-.7005E 00	-.1731E-02	-.7006E-02	.2014E 03	.5010E 02
125	.5207E-02	-.5258E 01	-.1600E 01	-.3630E-02	-.2176E-01	.2073E 03	.5155E 02
130	.4891E-02	-.5320E 01	-.2163E 01	-.4394E-02	-.8753E-02	.2207E 03	.5489E 02
135	.4507E-02	-.5402E 01	-.6338E 00	-.1177E-02	.3686E-01	.2395E 03	.5956E 02
140	.4405E-02	-.5425E 01	-.1349E 01	-.2334E-02	-.1326E-01	.2451E 03	.6095E 02
145	.4201E-02	-.5472E 01	-.1398E 01	-.2226E-02	.1237E-02	.2569E 03	.6391E 02
150	.4007E-02	-.5520E 01	-.1444E 01	-.2123E-02	.1179E-02	.2694E 03	.6701E 02
155	.3821E-02	-.5567E 01	-.1491E 01	-.2025E-02	.1125E-02	.2825E 03	.7025E 02
160	.3645E-02	-.5614E 01	-.1538E 01	-.1931E-02	.1073E-02	.2962E 03	.7366E 02
165	.3476E-02	-.5662E 01	-.1586E 01	-.1842E-02	.1023E-02	.3105E 03	.7723E 02
170	.3315E-02	-.5709E 01	-.1633E 01	-.1757E-02	.9759E-03	.3256E 03	.8097E 02
175	.3162E-02	-.5757E 01	-.1680E 01	-.1675E-02	.9308E-03	.3414E 03	.8490E 02
180	.3016E-02	-.5804E 01	.0000E 00	.0000E 00	.0000E 00	.3579E 03	.8902E 02

SCAT= .1079E 01 30/45= .3092E 01 45/135= .1667E 02 SCAT30-130= .2685E 00

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/S
00	.3374E 01	.1216E 01	-.1548E 00	-.1756E 02	.0000E 00	.1849E 00	.5506E-01
5	.1842E 01	.6106E 00	-.8231E 00	-.9174E 01	.9604E 02	.3388E 00	.1009E 00
10	.1041E 01	.4009E-01	-.1321E 01	-.4947E 01	.4845E 02	.5994E 00	.1784E 00
15	.6092E 00	-.4956E 00	-.1741E 01	-.2750E 01	.2517E 02	.1024E 01	.3049E 00
20	.3692E 00	-.9963E 00	-.2088E 01	-.1576E 01	.1346E 02	.1690E 01	.5030E 00
25	.2317E 00	-.1462E 01	-.2417E 01	-.9465E 00	.7212E 01	.2693E 01	.8016E 00
30	.1491E 00	-.1903E 01	-.2567E 01	-.5585E 00	.4446E 01	.4184E 01	.1246E 01
35	.1004E 00	-.2299E 01	-.2808E 01	-.3596E 00	.2279E 01	.6215E 01	.1850E 01
40	.6900E-01	-.2674E 01	-.2585E 01	-.2075E 00	.1743E 01	.9042E 01	.2692E 01
45	.5089E-01	-.2978E 01	-.2935E 01	-.1551E 00	.6003E 00	.1226E 02	.3650E 01
50	.3735E-01	-.3287E 01	-.3152E 01	-.1111E 00	.5050E 00	.1670E 02	.4973E 01
55	.2766E-01	-.3588E 01	-.2674E 01	-.6580E-01	.5188E 00	.2256E 02	.6715E 01
60	.2192E-01	-.3820E 01	-.3083E 01	-.5493E-01	.1246E 00	.2847E 02	.8474E 01
65	.1712E-01	-.4067E 01	-.3326E 01	-.4287E-01	.1302E 00	.3644E 02	.1085E 02
70	.1338E-01	-.4314E 01	-.2698E 01	-.2605E-01	.1927E 00	.4662E 02	.1388E 02
75	.1111E-01	-.4500E 01	-.2973E 01	-.2223E-01	.4384E-01	.5614E 02	.1672E 02
80	.9171E-02	-.4692E 01	-.3192E 01	-.1849E-01	.4281E-01	.6804E 02	.2025E 02
85	.7557E-02	-.4885E 01	-.2201E 01	-.1024E-01	.9457E-01	.8256E 02	.2458E 02
90	.6664E-02	-.5011E 01	-.2470E 01	-.9548E-02	.7088E-02	.9363E 02	.2787E 02
95	.5831E-02	-.5145E 01	-.1372E 01	-.4540E-02	.5738E-01	.1070E 03	.3186E 02
100	.5435E-02	-.5215E 01	-.2094E 01	-.6049E-02	-.1729E-01	.1148E 03	.3418E 02
105	.4907E-02	-.5317E 01	-.1202E 01	-.3057E-02	.3429E-01	.1272E 03	.3786E 02
110	.4640E-02	-.5373E 01	-.1529E 01	-.3493E-02	-.4993E-02	.1345E 03	.4003E 02
115	.4335E-02	-.5441E 01	-.1162E 01	-.2397E-02	.1256E-01	.1439E 03	.4285E 02
120	.4126E-02	-.5491E 01	-.1576E 01	-.2946E-02	-.6291E-02	.1512E 03	.4502E 02
125	.3869E-02	-.5555E 01	-.1363E 01	-.2308E-02	.7313E-02	.1613E 03	.4801E 02
130	.3667E-02	-.5608E 01	.9331E 00	.1506E-02	.4371E-01	.1701E 03	.5065E 02
135	.3799E-02	-.5573E 01	-.2035E 01	-.3106E-02	-.5285E-01	.1643E 03	.4890E 02
140	.3528E-02	-.5647E 01	-.1088E 01	-.1515E-02	.1823E-01	.1769E 03	.5265E 02
145	.3395E-02	-.5685E 01	-.1126E 01	-.1458E-02	.6502E-03	.1838E 03	.5470E 02
150	.3268E-02	-.5723E 01	-.1165E 01	-.1403E-02	.6259E-03	.1909E 03	.5683E 02
155	.3146E-02	-.5762E 01	-.1203E 01	-.1351E-02	.6024E-03	.1983E 03	.5904E 02
160	.3028E-02	-.5800E 01	-.1241E 01	-.1300E-02	.5798E-03	.2061E 03	.6134E 02
165	.2915E-02	-.5838E 01	-.1279E 01	-.1251E-02	.5581E-03	.2141E 03	.6373E 02
170	.2805E-02	-.5876E 01	-.1317E 01	-.1204E-02	.5372E-03	.2224E 03	.6621E 02
175	.2700E-02	-.5914E 01	-.1356E 01	-.1159E-02	.5171E-03	.2311E 03	.6879E 02
180	.2599E-02	-.5953E 01	.0000E 00	.0000E 00	.0000E 00	.2401E 03	.7146E 02

SCAT= .6239E 00 30/45= .2930E 01 45/135= .1340E 02 SCAT30-130= .1857E 00

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2964E 01	.1087E 01	-.1681E 00	-.1636E 02	.0000E 00	.1591E 00	.4392E-01
5	.1536E 01	.4293E 00	-.8892E 00	-.8099E 01	.9471E 02	.3071E 00	.8475E-01
10	.8294E 00	-.1870E 00	-.1419E 01	-.4158E 01	.4516E 02	.5688E 00	.1570E 00
15	.4666E 00	-.7624E 00	-.1858E 01	-.2213E 01	.2229E 02	.1011E 01	.2791E 00
20	.2734E 00	-.1297E 01	-.2211E 01	-.1220E 01	.1138E 02	.1725E 01	.4762E 00
25	.1669E 00	-.1790E 01	-.2493E 01	-.6987E 00	.5976E 01	.2826E 01	.7799E 00
30	.1060E 00	-.2245E 01	-.2814E 01	-.4273E 00	.3110E 01	.4452E 01	.1229E 01
35	.6867E-01	-.2678E 01	-.2561E 01	-.2279E 00	.2285E 01	.6870E 01	.1896E 01
40	.4878E-01	-.3021E 01	-.2954E 01	-.1642E 00	.7297E 00	.9672E 01	.2669E 01
45	.3444E-01	-.3368E 01	-.2731E 01	-.9869E-01	.7511E 00	.1370E 02	.3780E 01
50	.2583E-01	-.3656E 01	-.2900E 01	-.7148E-01	.3117E 00	.1826E 02	.5040E 01
55	.1959E-01	-.3933E 01	-.2759E 01	-.4792E-01	.2700E 00	.2408E 02	.6645E 01
60	.1541E-01	-.4173E 01	-.3200E 01	-.3990E-01	.9188E-01	.3061E 02	.8448E 01
65	.1193E-01	-.4429E 01	-.3143E 01	-.2841E-01	.1318E 00	.3954E 02	.1091E 02
70	.9450E-02	-.4662E 01	-.2768E 01	-.1882E-01	.1098E 00	.4992E 02	.1378E 02
75	.7808E-02	-.4853E 01	-.2900E 01	-.1527E-01	.4071E-01	.6042E 02	.1668E 02
80	.6475E-02	-.5040E 01	-.2017E 01	-.1165E-01	.4154E-01	.7286E 02	.2011E 02
85	.5458E-02	-.5211E 01	-.2440E 01	-.8143E-02	.4016E-01	.8643E 02	.2385E 02
90	.4748E-02	-.5350E 01	-.1920E 01	-.5365E-02	.3184E-01	.9936E 02	.2742E 02
95	.4280E-02	-.5454E 01	-.1885E 01	-.4519E-02	.9688E-02	.1102E 03	.3042E 02
100	.3885E-02	-.5551E 01	-.1566E 01	-.3275E-02	.1426E-01	.1214E 03	.3351E 02
105	.3599E-02	-.5627E 01	-.1124E 01	-.2102E-02	.1344E-01	.1311E 03	.3617E 02
110	.3416E-02	-.5679E 01	-.7084E 00	-.1213E-02	.1018E-01	.1381E 03	.3811E 02
115	.3310E-02	-.5711E 01	-.1093E 01	-.1724E-02	-.5849E-02	.1425E 03	.3933E 02
120	.3160E-02	-.5757E 01	-.2239E 00	-.3294E-03	.1598E-01	.1493E 03	.4121E 02
125	.3131E-02	-.5766E 01	.1100E 00	.1552E-03	.5553E-02	.1507E 03	.4158E 02
130	.3145E-02	-.5762E 01	.1141E 00	.1559E-03	.3474E-05	.1500E 03	.4141E 02
135	.3158E-02	-.5758E 01	-.5963E 00	-.7766E-03	-.1068E-01	.1494E 03	.4123E 02
140	.3090E-02	-.5779E 01	-.2817E 00	-.3484E-03	.4907E-02	.1527E 03	.4213E 02
145	.3060E-02	-.5789E 01	-.2916E 00	-.3450E-03	.3927E-04	.1542E 03	.4255E 02
150	.3030E-02	-.5799E 01	-.3015E 00	-.3416E-03	.3892E-04	.1557E 03	.4297E 02
155	.3000E-02	-.5809E 01	-.3114E 00	-.3382E-03	.3848E-04	.1572E 03	.4340E 02
160	.2970E-02	-.5819E 01	-.3213E 00	-.3349E-03	.3810E-04	.1588E 03	.4383E 02
165	.2941E-02	-.5829E 01	-.3312E 00	-.3316E-03	.3780E-04	.1604E 03	.4427E 02
170	.2912E-02	-.5839E 01	-.3411E 00	-.3283E-03	.3735E-04	.1620E 03	.4471E 02
175	.2884E-02	-.5849E 01	-.3510E 00	-.3251E-03	.3702E-04	.1636E 03	.4515E 02
180	.2855E-02	-.5859E 01	.0000E 00	.0000E 00	.0000E 00	.1652E 03	.4560E 02

SCAT= .4717E 00 30/45= .3076E 01 45/135= .1091E 02 SCAT30-130= .1302E 00

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.8102E 00	-.2104E 00	-.1308E 00	-.3719E 01	.0000E 00	.2444E 00	.8047E-01
5	.4857E 00	-.7221E 00	-.7069E 00	-.2156E 01	.1791E 02	.4078E 00	.1342E 00
10	.2976E 00	-.1212E 01	-.1155E 01	-.1275E 01	.1010E 02	.6656E 00	.2191E 00
15	.1863E 00	-.1680E 01	-.1552E 01	-.7689E 00	.5799E 01	.1063E 01	.3499E 00
20	.1192E 00	-.2127E 01	-.1904E 01	-.4728E 00	.3393E 01	.1661E 01	.5469E 00
25	.7796E-01	-.2552E 01	-.2308E 01	-.3069E 00	.1901E 01	.2541E 01	.8363E 00
30	.5118E-01	-.2972E 01	-.2491E 01	-.1870E 00	.1373E 01	.3870E 01	.1274E 01
35	.3486E-01	-.3356E 01	-.2665E 01	-.1196E 00	.7727E 00	.5682E 01	.1870E 01
40	.2442E-01	-.3712E 01	-.2981E 01	-.8286E-01	.4210E 00	.8110E 01	.2670E 01
45	.1719E-01	-.4063E 01	-.2950E 01	-.5263E-01	.3464E 00	.1152E 02	.3793E 01
50	.1260E-01	-.4374E 01	-.2996E 01	-.3585E-01	.1922E 00	.1572E 02	.5175E 01
55	.9469E-02	-.4660E 01	-.2848E 01	-.2381E-01	.1380E 00	.2092E 02	.6886E 01
60	.7390E-02	-.4908E 01	-.2888E 01	-.1748E-01	.7258E-01	.2680E 02	.8822E 01
65	.5865E-02	-.5139E 01	-.3316E 01	-.1664E-01	.3252E-01	.3377E 02	.1112E 02
70	.4587E-02	-.5384E 01	-.2581E 01	-.8574E-02	.6953E-01	.4318E 02	.1421E 02
75	.3839E-02	-.5563E 01	-.2485E 01	-.6518E-02	.2356E-01	.5159E 02	.1698E 02
80	.3270E-02	-.5723E 01	-.2181E 01	-.4641E-02	.2151E-01	.6057E 02	.1994E 02
85	.2865E-02	-.5855E 01	-.2413E 01	-.4230E-02	.4706E-02	.6913E 02	.2276E 02
90	.2496E-02	-.5993E 01	-.2697E 01	-.3881E-02	.3997E-02	.7935E 02	.2612E 02
95	.2157E-02	-.6139E 01	-.8432E 00	-.1046E-02	.3249E-01	.9181E 02	.3022E 02
100	.2066E-02	-.6182E 01	-.1930E 01	-.2128E-02	-.1239E-01	.9587E 02	.3156E 02
105	.1880E-02	-.6276E 01	.1110E 00	.1115E-03	.2564E-01	.1053E 03	.3467E 02
110	.1890E-02	-.6271E 01	-.1443E 01	-.1346E-02	-.1670E-01	.1048E 03	.3450E 02
115	.1773E-02	-.6335E 01	-.1698E 00	-.1463E-03	.1374E-01	.1117E 03	.3678E 02
120	.1760E-02	-.6343E 01	-.1553E 00	-.1275E-03	.2158E-03	.1125E 03	.3705E 02
125	.1749E-02	-.6349E 01	-.6183E 00	-.4801E-03	-.4040E-02	.1133E 03	.3728E 02
130	.1707E-02	-.6373E 01	.1230E 01	.9291E-03	.1615E-01	.1160E 03	.3820E 02
135	.1788E-02	-.6327E 01	-.5906E 00	-.4354E-03	-.1564E-01	.1108E 03	.3647E 02
140	.1750E-02	-.6348E 01	-.3819E-01	-.2686E-04	.4681E-02	.1132E 03	.3726E 02
145	.1748E-02	-.6350E 01	-.3953E-01	-.2682E-04	.4376E-06	.1133E 03	.3731E 02
150	.1745E-02	-.6351E 01	-.4087E-01	-.2678E-04	.3861E-06	.1135E 03	.3736E 02
155	.1743E-02	-.6352E 01	-.4221E-01	-.2675E-04	.4089E-06	.1136E 03	.3741E 02
160	.1741E-02	-.6354E 01	-.4355E-01	-.2671E-04	.4126E-06	.1138E 03	.3746E 02
165	.1738E-02	-.6355E 01	-.4489E-01	-.2667E-04	.4357E-06	.1139E 03	.3751E 02
170	.1736E-02	-.6356E 01	-.4623E-01	-.2664E-04	.3822E-06	.1141E 03	.3756E 02
175	.1734E-02	-.6358E 01	-.4757E-01	-.2660E-04	.4091E-06	.1143E 03	.3761E 02
180	.1731E-02	-.6359E 01	.0000E 00	.0000E 00	.0000E 00	.1144E 03	.3766E 02

SCAT= .1981E 00 30/45= .2977E 01 45/135= .9615E 01 SCAT30-130= .6520E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2067E 01	.7261E 00	-.1627E 00	-.1115E 02	.0000E 00	.1732E 00	.5119E-01
5	.1094E 01	.8970E-01	-.8611E 00	-.5634E 01	.4324E 02	.3273E 00	.9667E-01
10	.6022E 00	-.5072E 00	-.1374E 01	-.2948E 01	.3077E 02	.5944E 00	.1756E 00
15	.3449E 00	-.1064E 01	-.1800E 01	-.1597E 01	.1548E 02	.1038E 01	.3066E 00
20	.2055E 00	-.1582E 01	-.2143E 01	-.8951E 00	.8046E 01	.1742E 01	.5144E 00
25	.1274E 00	-.2060E 01	-.2389E 01	-.5155E 00	.4350E 01	.2809E 01	.8298E 00
30	.8244E-01	-.2496E 01	-.2729E 01	-.3244E 00	.2190E 01	.4342E 01	.1283E 01
35	.5413E-01	-.2916E 01	-.2559E 01	-.1795E 00	.1660E 01	.6613E 01	.1953E 01
40	.3847E-01	-.3258E 01	-.2658E 01	-.1185E 00	.6995E 00	.9306E 01	.2749E 01
45	.2813E-01	-.3571E 01	-.2815E 01	-.8272E-01	.4099E 00	.1273E 02	.3759E 01
50	.2091E-01	-.3868E 01	-.2961E 01	-.5891E-01	.2729E 00	.1712E 02	.5058E 01
55	.1577E-01	-.4150E 01	-.2814E 01	-.3923E-01	.2254E 00	.2270E 02	.6706E 01
60	.1234E-01	-.4395E 01	-.2819E 01	-.2857E-01	.1222E 00	.2900E 02	.8567E 01
65	.9850E-02	-.4620E 01	-.3039E 01	-.2274E-01	.6684E-01	.3634E 02	.1074E 02
70	.7866E-02	-.4845E 01	-.3130E 01	-.1750E-01	.5995E-01	.4551E 02	.1344E 02
75	.6338E-02	-.5061E 01	-.2163E 01	-.9463E-02	.9214E-01	.5648E 02	.1668E 02
80	.5512E-02	-.5201E 01	-.2999E 01	-.9207E-02	.2936E-02	.6494E 02	.1918E 02
85	.4709E-02	-.5358E 01	-.2455E 01	-.7063E-02	.2457E-01	.7602E 02	.2246E 02
90	.4092E-02	-.5499E 01	-.1893E 01	-.4562E-02	.2866E-01	.8747E 02	.2584E 02
95	.3694E-02	-.5601E 01	-.1692E 01	-.3519E-02	.1196E-01	.9690E 02	.2862E 02
100	.3387E-02	-.5688E 01	-.1464E 01	-.2675E-02	.9667E-02	.1057E 03	.3122E 02
105	.3154E-02	-.5759E 01	-.1057E 01	-.1734E-02	.1078E-01	.1135E 03	.3353E 02
110	.3002E-02	-.5808E 01	-.9630E 00	-.1442E-02	.3355E-02	.1192E 03	.3522E 02
115	.2877E-02	-.5851E 01	-.9759E 00	-.1341E-02	.1155E-02	.1244E 03	.3676E 02
120	.2760E-02	-.5893E 01	-.1588E 00	-.2043E-03	.1303E-01	.1297E 03	.3832E 02
125	.2742E-02	-.5899E 01	.2393E 00	.2963E-03	.5736E-02	.1306E 03	.3857E 02
130	.2768E-02	-.5890E 01	.2374E 00	.2854E-03	-.1241E-03	.1293E 03	.3821E 02
135	.2792E-02	-.5881E 01	-.4885E 00	-.5635E-03	-.9728E-02	.1282E 03	.3787E 02
140	.2743E-02	-.5899E 01	-.1608E 00	-.1769E-03	.4430E-02	.1305E 03	.3854E 02
145	.2728E-02	-.5904E 01	-.1664E 00	-.1759E-03	.1136E-04	.1312E 03	.3876E 02
150	.2713E-02	-.5910E 01	-.1721E 00	-.1749E-03	.1136E-04	.1320E 03	.3898E 02
155	.2697E-02	-.5916E 01	-.1777E 00	-.1739E-03	.1127E-04	.1327E 03	.3920E 02
160	.2682E-02	-.5921E 01	-.1834E 00	-.1729E-03	.1124E-04	.1335E 03	.3942E 02
165	.2667E-02	-.5927E 01	-.1890E 00	-.1720E-03	.1112E-04	.1342E 03	.3965E 02
170	.2652E-02	-.5932E 01	-.1946E 00	-.1710E-03	.1109E-04	.1350E 03	.3987E 02
175	.2637E-02	-.5938E 01	-.2003E 00	-.1700E-03	.1102E-04	.1357E 03	.4010E 02
180	.2622E-02	-.5944E 01	.0000E 00	.0000E 00	.0000E 00	.1365E 03	.4032E 02

SCAT= .3580E 00 30/45= .2931E 01 45/135= .1007E 02 SCAT30-130= .1057E 00

CH42/5 2100H 15164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1903E 01	.6433E 00	-.1947E 00	-.1162E 02	.0000E 00	.1206E 00	.2929E-01
5	.8887E 00	-.1180E 00	-.1019E 01	-.5159E 01	.7405E 02	.2583E 00	.6272E-01
10	.4385E 00	-.8243E 00	-.1606E 01	-.2405E 01	.3155E 02	.5234E 00	.1271E 00
15	.2286E 00	-.1476E 01	-.2073E 01	-.1177E 01	.1408E 02	.1004E 01	.2438E 00
20	.1259E 00	-.2072E 01	-.2426E 01	-.6033E 00	.6572E 01	.1823E 01	.4426E 00
25	.7329E-01	-.2613E 01	-.2724E 01	-.3287E 00	.3146E 01	.3132E 01	.7609E 00
30	.4460E-01	-.3110E 01	-.2767E 01	-.1775E 00	.1733E 01	.5146E 01	.1250E 01
35	.2911E-01	-.3537E 01	-.2891E 01	-.1068E 00	.8095E 00	.7884E 01	.1914E 01
40	.1979E-01	-.3923E 01	-.2686E 01	-.6151E-01	.5194E 00	.1160E 02	.2816E 01
45	.1442E-01	-.4239E 01	-.2553E 01	-.3898E-01	.2582E 00	.1591E 02	.3865E 01
50	.1102E-01	-.4508E 01	-.3146E 01	-.3272E-01	.7181E-01	.2083E 02	.5058E 01
55	.8166E-02	-.4808E 01	-.2603E 01	-.1897E-01	.1576E 00	.2811E 02	.6826E 01
60	.6511E-02	-.5034E 01	-.3193E 01	-.1683E-01	.2453E-01	.3526E 02	.8561E 01
65	.5042E-02	-.5290E 01	-.2798E 01	-.1002E-01	.6882E-01	.4552E 02	.1105E 02
70	.4098E-02	-.5497E 01	-.2989E 01	-.8751E-02	.2372E-01	.5601E 02	.1360E 02
75	.3334E-02	-.5704E 01	-.2177E 01	-.5009E-02	.4288E-01	.6884E 02	.1672E 02
80	.2897E-02	-.5844E 01	-.2562E 01	-.4776E-02	.2663E-02	.7923E 02	.1924E 02
85	.2480E-02	-.5999E 01	-.1877E 01	-.2892E-02	.2160E-01	.9254E 02	.2247E 02
90	.2228E-02	-.6107E 01	-.1525E 01	-.2020E-02	.9986E-02	.1030E 03	.2502E 02
95	.2052E-02	-.6189E 01	-.2404E 01	-.2727E-02	-.8099E-02	.1119E 03	.2717E 02
100	.1814E-02	-.6312E 01	-.1607E 01	-.1567E-02	.1329E-01	.1266E 03	.3073E 02
105	.1677E-02	-.6391E 01	-.1474E 01	-.1273E-02	.3371E-02	.1369E 03	.3324E 02
110	.1566E-02	-.6459E 01	-.4863E 00	-.3837E-03	.1019E-01	.1466E 03	.3560E 02
115	.1532E-02	-.6481E 01	-.1615E 00	-.1203E-03	.3018E-02	.1498E 03	.3638E 02
120	.1522E-02	-.6488E 01	-.2946E 00	-.2084E-03	-.1010E-02	.1508E 03	.3663E 02
125	.1504E-02	-.6500E 01	-.2253E 00	-.1516E-03	.6515E-03	.1527E 03	.3707E 02
130	.1490E-02	-.6509E 01	.7311E 00	.4777E-03	.7211E-02	.1540E 03	.3740E 02
135	.1532E-02	-.6481E 01	-.4330E 00	-.2743E-03	-.8618E-02	.1498E 03	.3638E 02
140	.1508E-02	-.6497E 01	-.6024E-01	-.3649E-04	.2725E-02	.1522E 03	.3696E 02
145	.1505E-02	-.6499E 01	-.6235E-01	-.3641E-04	.8847E-06	.1525E 03	.3704E 02
150	.1502E-02	-.6501E 01	-.6446E-01	-.3633E-04	.8810E-06	.1528E 03	.3712E 02
155	.1499E-02	-.6503E 01	-.6658E-01	-.3626E-04	.8771E-06	.1532E 03	.3720E 02
160	.1495E-02	-.6505E 01	-.6869E-01	-.3618E-04	.8655E-06	.1535E 03	.3727E 02
165	.1492E-02	-.6507E 01	-.7080E-01	-.3611E-04	.8885E-06	.1538E 03	.3735E 02
170	.1489E-02	-.6510E 01	-.7292E-01	-.3603E-04	.8733E-06	.1541E 03	.3743E 02
175	.1486E-02	-.6512E 01	-.7503E-01	-.3595E-04	.8735E-06	.1545E 03	.3751E 02
180	.1483E-02	-.6514E 01	.0000E 00	.0000E 00	.0000E 00	.1548E 03	.3759E 02

SCAT= .2295E 00 30/45= .3093E 01 45/135= .9414E 01 SCAT30-130= .5574E-01

CH42/6 2200H 15164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.4602E 00	-.7762E 00	-.1653E 00	-.2511E 01	.0000E 00	.1632E 00	.4409E-01
5	.2410E 00	-.1423E 01	-.8783E 00	-.1259E 01	.1434E 02	.3115E 00	.8571E-01
10	.1311E 00	-.2032E 01	-.1400E 01	-.6536E 00	.6943E 01	.5726E 00	.1576E 00
15	.7408E-01	-.2603E 01	-.1853E 01	-.3507E 00	.3470E 01	.1014E 01	.2789E 00
20	.4347E-01	-.3136E 01	-.2219E 01	-.1945E 00	.1790E 01	.1727E 01	.4752E 00
25	.2650E-01	-.3631E 01	-.2574E 01	-.1137E 00	.9259E 00	.2834E 01	.7796E 00
30	.1657E-01	-.4100E 01	-.2722E 01	-.6507E-01	.5576E 00	.4531E 01	.1247E 01
35	.1089E-01	-.4520E 01	-.2841E 01	-.3941E-01	.2941E 00	.6893E 01	.1896E 01
40	.7454E-02	-.4899E 01	-.3008E 01	-.2548E-01	.1596E 00	.1007E 02	.2771E 01
45	.5230E-02	-.5253E 01	-.2846E 01	-.1553E-01	.1141E 00	.1435E 02	.3949E 01
50	.3875E-02	-.5553E 01	-.2863E 01	-.1060E-01	.5643E-01	.1937E 02	.5331E 01
55	.2950E-02	-.5826E 01	-.3299E 01	-.8435E-02	.2487E-01	.2545E 02	.7003E 01
60	.2214E-02	-.6113E 01	-.2643E 01	-.4837E-02	.4122E-01	.3392E 02	.9331E 01
65	.1792E-02	-.6325E 01	-.3004E 01	-.4097E-02	.8480E-02	.4191E 02	.1153E 02
70	.1434E-02	-.6547E 01	-.2191E 01	-.2306E-02	.2053E-01	.5235E 02	.1440E 02
75	.1233E-02	-.6698E 01	-.3177E 01	-.2619E-02	-.3590E-02	.6090E 02	.1675E 02
80	.1004E-02	-.6903E 01	-.1403E 01	-.9893E-03	.1868E-01	.7476E 02	.2057E 02
85	.9180E-03	-.6993E 01	-.1784E 01	-.1020E-02	-.3495E-03	.8179E 02	.2250E 02
90	.8290E-03	-.7095E 01	-.1739E 01	-.8524E-03	.1919E-02	.9057E 02	.2492E 02
95	.7546E-03	-.7189E 01	-.4150E 00	-.1821E-03	.7681E-02	.9949E 02	.2737E 02
100	.7388E-03	-.7211E 01	-.9408E 00	-.3790E-03	-.2265E-02	.1016E 03	.2796E 02
105	.7056E-03	-.7256E 01	-.6760E 00	-.2503E-03	.1484E-02	.1064E 03	.2928E 02
110	.6838E-03	-.7288E 01	-.1391E 01	-.4697E-03	-.2514E-02	.1098E 03	.3021E 02
115	.6428E-03	-.7350E 01	.1179E 00	.3706E-04	.5807E-02	.1168E 03	.3214E 02
120	.6460E-03	-.7345E 01	-.4012E-01	-.1211E-04	-.5635E-03	.1162E 03	.3198E 02
125	.6450E-03	-.7346E 01	.5993E 00	.1758E-03	.2153E-02	.1164E 03	.3203E 02
130	.6603E-03	-.7323E 01	.1585E 00	.4541E-04	-.1494E-02	.1137E 03	.3129E 02
135	.6643E-03	-.7317E 01	.2302E 00	.6390E-04	.2128E-03	.1130E 03	.3110E 02
140	.6698E-03	-.7308E 01	.2496E 00	.6753E-04	.4071E-04	.1121E 03	.3084E 02
145	.6757E-03	-.7300E 01	.2584E 00	.6812E-04	.6806E-05	.1111E 03	.3057E 02
150	.6817E-03	-.7291E 01	.2671E 00	.6872E-04	.6863E-05	.1101E 03	.3030E 02
155	.6877E-03	-.7282E 01	.2759E 00	.6933E-04	.6934E-05	.1092E 03	.3004E 02
160	.6937E-03	-.7273E 01	.2847E 00	.6994E-04	.6989E-05	.1082E 03	.2978E 02
165	.6998E-03	-.7265E 01	.2934E 00	.7055E-04	.7056E-05	.1073E 03	.2952E 02
170	.7060E-03	-.7256E 01	.3022E 00	.7117E-04	.7104E-05	.1064E 03	.2926E 02
175	.7122E-03	-.7247E 01	.3109E 00	.7180E-04	.7179E-05	.1054E 03	.2901E 02
180	.7185E-03	-.7238E 01	.0000E 00	.0000E 00	.0000E 00	.1045E 03	.2875E 02

SCAT= .7508E-01 30/45= .3168E 01 45/135= .7874E 01 SCAT30-130= .2066E-01

CH42/7 2300H 15164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.6255E 00	-.4691E 00	-.1857E 00	-.3701E 01	.0000E 00	.1319E 00	.3283E-01
5	.3026E 00	-.1195E 01	-.9771E 00	-.1706E 01	.2286E 02	.2728E 00	.6787E-01
10	.1537E 00	-.1873E 01	-.1550E 01	-.8216E 00	.1013E 02	.5369E 00	.1336E 00
15	.8200E-01	-.2501E 01	-.2014E 01	-.4132E 00	.4681E 01	.1006E 01	.2504E 00
20	.4595E-01	-.3080E 01	-.2376E 01	-.2167E 00	.2252E 01	.1796E 01	.4469E 00
25	.2704E-01	-.3611E 01	-.2721E 01	-.1212E 00	.1094E 01	.3052E 01	.7595E 00
30	.1646E-01	-.4107E 01	-.2902E 01	-.6805E-01	.6087E 00	.5013E 01	.1247E 01
35	.1053E-01	-.4554E 01	-.2751E 01	-.3708E-01	.3548E 00	.7841E 01	.1951E 01
40	.7289E-02	-.4921E 01	-.2981E 01	-.2473E-01	.1415E 00	.1132E 02	.2817E 01
45	.5131E-02	-.5272E 01	-.2706E 01	-.1459E-01	.1162E 00	.1608E 02	.4002E 01
50	.3850E-02	-.5558E 01	-.2724E 01	-.1011E-01	.5130E-01	.2139E 02	.5322E 01
55	.2976E-02	-.5817E 01	-.3077E 01	-.8011E-02	.2405E-01	.2773E 02	.6900E 01
60	.2277E-02	-.6085E 01	-.2677E 01	-.5033E-02	.3413E-01	.3625E 02	.9019E 01
65	.1838E-02	-.6299E 01	-.3682E 01	-.5029E-02	.4116E-04	.4491E 02	.1117E 02
70	.1399E-02	-.6572E 01	-.1922E 01	-.1991E-02	.3481E-01	.5900E 02	.1468E 02
75	.1225E-02	-.6705E 01	-.2830E 01	-.2343E-02	-.4037E-02	.6736E 02	.1676E 02
80	.1021E-02	-.6887E 01	-.1619E 01	-.1094E-02	.1432E-01	.8086E 02	.2012E 02
85	.9252E-03	-.6986E 01	-.1775E 01	-.1023E-02	.8087E-03	.8920E 02	.2220E 02
90	.8359E-03	-.7087E 01	-.1544E 01	-.7672E-03	.2932E-02	.9873E 02	.2457E 02
95	.7689E-03	-.7171E 01	-.4335E 00	-.1930E-03	.6571E-02	.1073E 03	.2671E 02
100	.7520E-03	-.7193E 01	-.8825E 00	-.3632E-03	-.1941E-02	.1097E 03	.2731E 02
105	.7203E-03	-.7236E 01	-.6088E 00	-.2305E-03	.1520E-02	.1146E 03	.2851E 02
110	.7002E-03	-.7264E 01	-.1336E 01	-.4627E-03	-.2660E-02	.1179E 03	.2933E 02
115	.6598E-03	-.7324E 01	.2999E 00	.9711E-04	.6419E-02	.1251E 03	.3112E 02
120	.6683E-03	-.7311E 01	.2779E 00	.8736E-04	-.1118E-03	.1235E 03	.3073E 02
125	.6759E-03	-.7299E 01	.1105E 01	.3432E-03	.2932E-02	.1221E 03	.3038E 02
130	.7059E-03	-.7256E 01	.1188E 01	.3710E-03	.3184E-03	.1169E 03	.2909E 02
135	.7383E-03	-.7211E 01	.4424E 00	.1372E-03	-.2679E-02	.1118E 03	.2782E 02
140	.7502E-03	-.7195E 01	.7950E 00	.2434E-03	.1217E-02	.1100E 03	.2737E 02
145	.7715E-03	-.7167E 01	.8237E 00	.2503E-03	.7901E-04	.1070E 03	.2662E 02
150	.7933E-03	-.7139E 01	.8516E 00	.2574E-03	.8122E-04	.1040E 03	.2588E 02
155	.8158E-03	-.7111E 01	.8795E 00	.2647E-03	.8354E-04	.1012E 03	.2517E 02
160	.8389E-03	-.7083E 01	.9075E 00	.2722E-03	.8592E-04	.9838E 02	.2448E 02
165	.8626E-03	-.7056E 01	.9354E 00	.2799E-03	.8832E-04	.9567E 02	.2380E 02
170	.8871E-03	-.7028E 01	.9633E 00	.2879E-03	.9085E-04	.9303E 02	.2315E 02
175	.9122E-03	-.7000E 01	.9913E 00	.2960E-03	.9339E-04	.9047E 02	.2251E 02
180	.9380E-03	-.6972E 01	.0000E 00	.0000E 00	.0000E 00	.8798E 02	.2189E 02

SCAT= .8253E-01 30/45= .3208E 01 45/135= .6950E 01 SCAT30-130= .2053E-01

CH42/8 0800M 16164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.4747E 00	-.7451E 00	-.1753E 00	-.2699E 01	.0000E 00	.1524E 00	.4222E-01
5	.2391E 00	-.1431E 01	-.9228E 00	-.1295E 01	.1609E 02	.3024E 00	.8379E-01
10	.1261E 00	-.2070E 01	-.1466E 01	-.6472E 00	.7422E 01	.5734E 00	.1589E 00
15	.6966E-01	-.2664E 01	-.1904E 01	-.3367E 00	.3558E 01	.1038E 01	.2877E 00
20	.4028E-01	-.3212E 01	-.2250E 01	-.1822E 00	.1771E 01	.1796E 01	.4975E 00
25	.2438E-01	-.3714E 01	-.2569E 01	-.1045E 00	.8901E 00	.2966E 01	.8219E 00
30	.1526E-01	-.4182E 01	-.2688E 01	-.5933E-01	.5174E 00	.4738E 01	.1313E 01
35	.1009E-01	-.4597E 01	-.2753E 01	-.3556E-01	.2724E 00	.7171E 01	.1987E 01
40	.6984E-02	-.4964E 01	-.2687E 01	-.2171E-01	.1586E 00	.1036E 02	.2869E 01
45	.5089E-02	-.5281E 01	-.2655E 01	-.1423E-01	.8575E-01	.1421E 02	.3938E 01
50	.3847E-02	-.5560E 01	-.2587E 01	-.9635E-02	.5266E-01	.1880E 02	.5209E 01
55	.3006E-02	-.5807E 01	-.3297E 01	-.8592E-02	.1195E-01	.2406E 02	.6666E 01
60	.2257E-02	-.6094E 01	-.2855E 01	-.5203E-02	.3791E-01	.3205E 02	.8880E 01
65	.1796E-02	-.6322E 01	-.2767E 01	-.3814E-02	.1683E-01	.4028E 02	.1116E 02
70	.1463E-02	-.6527E 01	-.2580E 01	-.2733E-02	.1239E-01	.4945E 02	.1370E 02
75	.1224E-02	-.6706E 01	-.2633E 01	-.2192E-02	.6197E-02	.5908E 02	.1637E 02
80	.1033E-02	-.6875E 01	-.2512E 01	-.1672E-02	.5967E-02	.7003E 02	.1960E 02
85	.8870E-03	-.7028E 01	-.1709E 01	-.9457E-03	.8320E-02	.8155E 02	.2250E 02
90	.8044E-03	-.7125E 01	-.1817E 01	-.8623E-03	.9553E-03	.8991E 02	.2491E 02
95	.7292E-03	-.7224E 01	-.3395E 00	-.1426E-03	.8240E-02	.9919E 02	.2748E 02
100	.7167E-03	-.7241E 01	-.6471E 00	-.2553E-03	-.1292E-02	.1009E 03	.2796E 02
105	.6945E-03	-.7272E 01	-.7739E 00	-.2814E-03	-.2993E-03	.1042E 03	.2886E 02
110	.6699E-03	-.7308E 01	-.8157E 00	-.2734E-03	.9188E-04	.1080E 03	.2991E 02
115	.6460E-03	-.7345E 01	.5378E 00	.1714E-03	.5097E-02	.1120E 03	.3102E 02
120	.6610E-03	-.7322E 01	.9047E 00	.2890E-03	.1301E-02	.1094E 03	.3032E 02
125	.6859E-03	-.7285E 01	.9742E 00	.3061E-03	.2420E-03	.1055E 03	.2922E 02
130	.7126E-03	-.7247E 01	.1278E 01	.4035E-03	.1116E-02	.1015E 03	.2812E 02
135	.7478E-03	-.7198E 01	.8455E 00	.2678E-03	-.1558E-02	.9672E 02	.2680E 02
140	.7712E-03	-.7168E 01	.1048E 01	.3309E-03	.7254E-03	.9379E 02	.2599E 02
145	.8000E-03	-.7131E 01	.1084E 01	.3433E-03	.1420E-03	.9041E 02	.2505E 02
150	.8300E-03	-.7094E 01	.1121E 01	.3561E-03	.1473E-03	.8714E 02	.2414E 02
155	.8611E-03	-.7057E 01	.1158E 01	.3695E-03	.1528E-03	.8400E 02	.2327E 02
160	.8933E-03	-.7021E 01	.1195E 01	.3833E-03	.1585E-03	.8097E 02	.2243E 02
165	.9267E-03	-.6984E 01	.1231E 01	.3976E-03	.1644E-03	.7805E 02	.2162E 02
170	.9614E-03	-.6947E 01	.1268E 01	.4125E-03	.1706E-03	.7523E 02	.2084E 02
175	.9974E-03	-.6910E 01	.1305E 01	.4280E-03	.1770E-03	.7251E 02	.2009E 02
180	.1035E-02	-.6874E 01	.0000E 00	.0000E 00	.0000E 00	.6990E 02	.1937E 02

SCAT= .7233E-01 30/45= .3000E 01 45/135= .6805E 01 SCAT30-130= .2004E-01

CH42/9 1330M 16164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00–180	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SCAT= .7176E-01 30/45= .3434E 01 45/135= .6310E 01 SCAT30-130= .1578E-01

CH42/10 1000M 16164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00–180	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SCAT= .4600E-01 30/45= .3112E 01 45/135= .4497E 01 SCAT30-130= .1219E-01

CH42/11 1100M 16164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00–150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	.6618E-03	-.7321E 01	.1354E 01	.3332E-03	.1607E-03	.7737E 02	.1838E 02
160	.6908E-03	-.7278E 01	.1397E 01	.3478E-03	.1678E-03	.7412E 02	.1760E 02
165	.7212E-03	-.7235E 01	.1440E 01	.3631E-03	.1751E-03	.7100E 02	.1686E 02
170	.7529E-03	-.7192E 01	.1483E 01	.3791E-03	.1828E-03	.6801E 02	.1615E 02
175	.7859E-03	-.7149E 01	.1526E 01	.3957E-03	.1909E-03	.6515E 02	.1547E 02
180	.8205E-03	-.7106E 01	.0000E 00	.0000E 00	.0000E 00	.6240E 02	.1482E 02

SCAT= .5120E-01 30/45= .3125E 01 45/135= .5116E 01 SCAT30-130= .1216E-01

CH42/12 1200M 16164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00–145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	.6124E-03	-.7398E 01	.4524E 00	.1049E-03	.1770E-04	.1253E 03	.2713E 02
155	.6216E-03	-.7383E 01	.4672E 00	.1064E-03	.1795E-04	.1235E 03	.2673E 02
160	.6309E-03	-.7368E 01	.4820E 00	.1080E-03	.1823E-04	.1217E 03	.2634E 02
165	.6403E-03	-.7354E 01	.4969E 00	.1096E-03	.1849E-04	.1199E 03	.2595E 02
170	.6498E-03	-.7339E 01	.5117E 00	.1113E-03	.1878E-04	.1181E 03	.2557E 02
175	.6596E-03	-.7324E 01	.5265E 00	.1129E-03	.1905E-04	.1164E 03	.2519E 02
180	.6694E-03	-.7309E 01	.0000E 00	.0000E 00	.0000E 00	.1146E 03	.2482E 02

SCAT= .7675E-01 30/45= .3370E 01 45/135= .6791E 01 SCAT30-130= .1661E-01

CH42/13 1300M 16164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1176E 01	.1621E 00	-.2148E 00	-.7660E 01	.0000E 00	.9404E-01	.1072E-01
5	.5076E 00	-.6781E 00	-.1124E 01	-.3148E 01	.5170E 02	.2197E 00	.4337E-01
10	.2329E 00	-.1457E 01	-.1771E 01	-.1367E 01	.2041E 02	.4790E 00	.9454E-01
15	.1136E 00	-.2175E 01	-.2284E 01	-.6268E 00	.8484E 01	.9821E 00	.1939E 00
20	.5887E-01	-.2832E 01	-.2671E 01	-.3029E 00	.3711E 01	.1895E 01	.3740E 00
25	.3244E-01	-.3428E 01	-.3005E 01	-.1568E 00	.1674E 01	.3438E 01	.6787E 00
30	.1876E-01	-.3976E 01	-.3051E 01	-.8064E-01	.8726E 00	.5940E 01	.1179E 01
35	.1172E-01	-.4446E 01	-.3093E 01	-.4545E-01	.4832E 00	.9516E 01	.1878E 01
40	.7755E-02	-.4859E 01	-.3151E 01	-.2755E-01	.2051E 00	.1438E 02	.2838E 01
45	.5351E-02	-.5231E 01	-.2642E 01	-.1490E-01	.1458E 00	.2085E 02	.4113E 01
50	.4051E-02	-.5509E 01	-.2997E 01	-.1153E-01	.3854E-01	.2754E 02	.5435E 01
55	.3044E-02	-.5795E 01	-.2716E 01	-.7342E-02	.4803E-01	.3664E 02	.7232E 01
60	.2403E-02	-.6031E 01	-.2858E 01	-.5617E-02	.1976E-01	.4641E 02	.9160E 01
65	.1913E-02	-.6259E 01	-.2518E 01	-.3732E-02	.2161E-01	.5830E 02	.1151E 02
70	.1588E-02	-.6446E 01	-.2541E 01	-.2925E-02	.9241E-02	.7029E 02	.1387E 02
75	.1332E-02	-.6621E 01	-.2452E 01	-.2235E-02	.7914E-02	.8371E 02	.1652E 02
80	.1137E-02	-.6779E 01	-.2075E 01	-.1540E-02	.7956E-02	.9807E 02	.1936E 02
85	.1003E-02	-.6905E 01	-.1886E 01	-.1174E-02	.4193E-02	.1112E 03	.2195E 02
90	.9005E-03	-.7013E 01	-.1703E 01	-.9076E-03	.3056E-02	.1239E 03	.2445E 02
95	.8213E-03	-.7105E 01	-.9143E 00	-.4312E-03	.5460E-02	.1358E 03	.2681E 02
100	.7836E-03	-.7152E 01	-.8543E 00	-.3466E-03	.7399E-03	.1423E 03	.2810E 02
105	.7516E-03	-.7193E 01	-.7915E 00	-.3114E-03	.6329E-03	.1484E 03	.2929E 02
110	.7245E-03	-.7230E 01	-.1281E 01	-.4590E-03	-.1696E-02	.1540E 03	.3039E 02
115	.6844E-03	-.7287E 01	-.5648E 00	-.1068E-03	.3135E-02	.1630E 03	.3217E 02
120	.6681E-03	-.7311E 01	.5579E 00	.1764E-03	.4153E-02	.1669E 03	.3295E 02
125	.6835E-03	-.7288E 01	.2040E 00	.6293E-04	-.1308E-02	.1632E 03	.3221E 02
130	.6898E-03	-.7280E 01	.1867E 01	.5764E-03	.9894E-02	.1619E 03	.3195E 02
135	.7393E-03	-.7210E 01	-.2365E 00	-.7255E-04	-.7436E-02	.1509E 03	.2978E 02
140	.7330E-03	-.7218E 01	.5278E 00	.1570E-03	.2631E-02	.1522E 03	.3004E 02
145	.7467E-03	-.7200E 01	.5463E 00	.1599E-03	.3362E-04	.1494E 03	.2949E 02
150	.7607E-03	-.7181E 01	.5648E 00	.1629E-03	.3426E-04	.1466E 03	.2894E 02
155	.7749E-03	-.7163E 01	.5833E 00	.1660E-03	.3489E-04	.1439E 03	.2841E 02
160	.7894E-03	-.7144E 01	.6018E 00	.1691E-03	.3556E-04	.1413E 03	.2789E 02
165	.8041E-03	-.7126E 01	.6204E 00	.1722E-03	.3622E-04	.1387E 03	.2738E 02
170	.8191E-03	-.7107E 01	.6389E 00	.1755E-03	.3689E-04	.1362E 03	.2688E 02
175	.8345E-03	-.7089E 01	.6574E 00	.1787E-03	.3759E-04	.1337E 03	.2638E 02
180	.8501E-03	-.7070E 01	.0000E 00	.0000E 00	.0000E 00	.1312E 03	.2590E 02

SCAT= .1115E 00 30/45= .3506E 01 45/135= .7237E 01 SCAT30-130= .2202E-01

CH42/14 1530M 16164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.4207E 00	-.8658E 00	-.2180E 00	-.2766E 01	.0000E 00	.9723E-01	.2115E-01
5	.1794E 00	-.1718E 01	-.1135E 01	-.1119E 01	.1887E 02	.2281E 00	.4961E-01
10	.8170E-01	-.2505E 01	-.1776E 01	-.4806E 00	.7317E 01	.5007E 00	.1089E 00
15	.3975E-01	-.3225E 01	-.2274E 01	-.2187E 00	.3001E 01	.1029E 01	.2238E 00
20	.2067E-01	-.3879E 01	-.2635E 01	-.1053E 00	.1300E 01	.1979E 01	.4305E 00
25	.1148E-01	-.4467E 01	-.2934E 01	-.5450E-01	.5821E 00	.3564E 01	.7752E 00
30	.6723E-02	-.5002E 01	-.3128E 01	-.2947E-01	.2868E 00	.6085E 01	.1324E 01
35	.4151E-02	-.5484E 01	-.2781E 01	-.1476E-01	.1686E 00	.9855E 01	.2144E 01
40	.2863E-02	-.5856E 01	-.2695E 01	-.8924E-02	.6684E-01	.1429E 02	.3108E 01
45	.2084E-02	-.6173E 01	-.2636E 01	-.5792E-02	.3588E-01	.1962E 02	.4269E 01
50	.1579E-02	-.6451E 01	-.2738E 01	-.4155E-02	.1876E-01	.2591E 02	.5638E 01
55	.1216E-02	-.6712E 01	-.2638E 01	-.2859E-02	.1485E-01	.3363E 02	.7316E 01
60	.9668E-03	-.6942E 01	-.2485E 01	-.1998E-02	.9866E-02	.4231E 02	.9204E 01
65	.7924E-03	-.7140E 01	-.2261E 01	-.1401E-02	.6841E-02	.5162E 02	.1123E 02
70	.6702E-03	-.7308E 01	-.2418E 01	-.1180E-02	.2531E-02	.6104E 02	.1328E 02
75	.5672E-03	-.7475E 01	-.2077E 01	-.8153E-03	.4181E-02	.7212E 02	.1569E 02
80	.4960E-03	-.7609E 01	-.1838E 01	-.5995E-03	.2473E-02	.8247E 02	.1794E 02
85	.4437E-03	-.7720E 01	-.1473E 01	-.4106E-03	.2165E-02	.9219E 02	.2005E 02
90	.4079E-03	-.7805E 01	-.8031E 00	-.1986E-03	.2429E-02	.1003E 03	.2181E 02
95	.3906E-03	-.7848E 01	.2391E 00	.5522E-04	.2909E-02	.1047E 03	.2278E 02
100	.3954E-03	-.7836E 01	.1516E 00	.3364E-04	-.2473E-03	.1035E 03	.2251E 02
105	.3983E-03	-.7828E 01	-.1980E 00	-.4185E-04	-.8651E-03	.1027E 03	.2234E 02
110	.3947E-03	-.7837E 01	-.1469E 01	-.2859E-03	-.2797E-02	.1036E 03	.2255E 02
115	.3697E-03	-.7903E 01	.7431E 00	.1361E-03	.4836E-02	.1106E 03	.2407E 02
120	.3816E-03	-.7871E 01	.3280E 00	.5894E-04	-.8844E-03	.1072E 03	.2332E 02
125	.3867E-03	-.7858E 01	.1494E 01	.2674E-03	.2389E-02	.1058E 03	.2301E 02
130	.4101E-03	-.7799E 01	.1945E 01	.3578E-03	.1036E-02	.9975E 02	.2170E 02
135	.4413E-03	-.7726E 01	.6499E 00	.1209E-03	-.2715E-02	.9270E 02	.2016E 02
140	.4518E-03	-.7702E 01	.1214E 01	.2253E-03	.1196E-02	.9053E 02	.1969E 02
145	.4715E-03	-.7660E 01	.1256E 01	.2351E-03	.1123E-03	.8676E 02	.1887E 02
150	.4920E-03	-.7617E 01	.1299E 01	.2453E-03	.1172E-03	.8314E 02	.1808E 02
155	.5134E-03	-.7574E 01	.1341E 01	.2560E-03	.1223E-03	.7967E 02	.1733E 02
160	.5358E-03	-.7532E 01	.1384E 01	.2671E-03	.1276E-03	.7635E 02	.1661E 02
165	.5591E-03	-.7489E 01	.1427E 01	.2787E-03	.1332E-03	.7317E 02	.1592E 02
170	.5834E-03	-.7447E 01	.1469E 01	.2909E-03	.1390E-03	.7012E 02	.1525E 02
175	.6088E-03	-.7404E 01	.1512E 01	.3035E-03	.1450E-03	.6719E 02	.1462E 02
180	.6353E-03	-.7361E 01	.0000E 00	.0000E 00	.0000E 00	.6439E 02	.1401E 02

SCAT= .4091E-01 30/45= .3225E 01 45/135= .4723E 01 SCAT30-130= .8898E-02

CH42/15 1600M 16164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.8243E 00	-.1932E 00	-.1768E 00	-.4719E 01	.0000E 00	.1475E 00	.4050E-01
5	.4129E 00	-.8845E 00	-.9324E 00	-.2252E 01	.2822E 02	.2946E 00	.8085E-01
10	.2163E 00	-.1531E 01	-.1483E 01	-.1120E 01	.1297E 02	.5621E 00	.1543E 00
15	.1186E 00	-.2132E 01	-.1933E 01	-.5797E 00	.6194E 01	.1026E 01	.2815E 00
20	.6800E-01	-.2688E 01	-.2291E 01	-.3118E 00	.3070E 01	.1789E 01	.4910E 00
25	.4078E-01	-.3199E 01	-.2547E 01	-.1736E 00	.1584E 01	.2982E 01	.8186E 00
30	.2563E-01	-.3664E 01	-.2802E 01	-.1030E 00	.8087E 00	.4745E 01	.1302E 01
35	.1664E-01	-.4096E 01	-.2950E 01	-.6209E-01	.4692E 00	.7308E 01	.2006E 01
40	.1122E-01	-.4490E 01	-.2378E 01	-.3142E-01	.3514E 00	.1084E 02	.2974E 01
45	.8482E-02	-.4770E 01	-.3148E 01	-.2743E-01	.4569E-01	.1434E 02	.3936E 01
50	.6086E-02	-.5101E 01	-.2529E 01	-.1495E-01	.1431E 00	.1998E 02	.5484E 01
55	.4784E-02	-.5342E 01	-.2488E 01	-.1067E-01	.4898E-01	.2542E 02	.6979E 01
60	.3853E-02	-.5559E 01	-.2783E 01	-.8817E-02	.2124E-01	.3157E 02	.8665E 01
65	.3083E-02	-.5782E 01	-.2785E 01	-.6588E-02	.2594E-01	.3945E 02	.1083E 02
70	.2508E-02	-.5988E 01	-.2556E 01	-.4647E-02	.2229E-01	.4849E 02	.1331E 02
75	.2103E-02	-.6164E 01	-.2277E 01	-.3293E-02	.1551E-01	.5784E 02	.1588E 02
80	.1815E-02	-.6311E 01	-.2322E 01	-.2731E-02	.6437E-02	.6699E 02	.1839E 02
85	.1577E-02	-.6452E 01	-.1394E 01	-.1384E-02	.1543E-01	.7712E 02	.2117E 02
90	.1456E-02	-.6532E 01	-.1535E 01	-.1329E-02	.6370E-03	.8352E 02	.2293E 02
95	.1340E-02	-.6615E 01	-.1278E 01	-.9744E-03	.4061E-02	.9074E 02	.2491E 02
100	.1258E-02	-.6680E 01	-.8069E 00	-.5553E-03	.4803E-02	.9689E 02	.2660E 02
105	.1207E-02	-.6720E 01	-.1400E 01	-.8720E-03	-.3629E-02	.1008E 03	.2768E 02
110	.1131E-02	-.6785E 01	-.7456E 00	-.4224E-03	.5152E-02	.1076E 03	.2953E 02
115	.1094E-02	-.6818E 01	-.1032E 01	-.5385E-03	-.1330E-02	.1112E 03	.3052E 02
120	.1047E-02	-.6862E 01	-.3706E 00	-.1801E-03	.4106E-02	.1162E 03	.3189E 02
125	.1031E-02	-.6877E 01	-.1006E 00	-.4654E-04	.1551E-02	.1179E 03	.3238E 02
130	.1027E-02	-.6881E 01	-.9579E-01	-.4247E-04	.4666E-04	.1184E 03	.3251E 02
135	.1023E-02	-.6885E 01	-.6700E 00	-.2823E-03	-.2748E-02	.1188E 03	.3262E 02
140	.9987E-03	-.6909E 01	-.4339E 00	-.1729E-03	.1253E-02	.1218E 03	.3343E 02
145	.9836E-03	-.6924E 01	-.4491E 00	-.1703E-03	.2993E-04	.1236E 03	.3394E 02
150	.9688E-03	-.6939E 01	-.4643E 00	-.1677E-03	.2950E-04	.1255E 03	.3446E 02
155	.9541E-03	-.6955E 01	-.4796E 00	-.1652E-03	.2903E-04	.1275E 03	.3499E 02
160	.9397E-03	-.6970E 01	-.4948E 00	-.1627E-03	.2861E-04	.1294E 03	.3553E 02
165	.9255E-03	-.6985E 01	-.5100E 00	-.1603E-03	.2818E-04	.1314E 03	.3607E 02
170	.9115E-03	-.7000E 01	-.5252E 00	-.1578E-03	.2774E-04	.1334E 03	.3663E 02
175	.8978E-03	-.7016E 01	-.5405E 00	-.1554E-03	.2734E-04	.1355E 03	.3719E 02
180	.8842E-03	-.7031E 01	.0000E 00	.0000E 00	.0000E 00	.1376E 03	.3776E 02

SCAT= .1216E 00 30/45= .3022E 01 45/135= .8289E 01 SCAT30-130= .3330E-01

CH42/16 1620M 16164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1896E 00	-.1663E 01	-.1707E 00	-.1058E 01	.0000E 00	.1653E 00	.4907E-01
5	.9728E-01	-.2330E 01	-.8990E 00	-.5173E 00	.6199E 01	.3221E 00	.9569E-01
10	.5214E-01	-.2954E 01	-.1430E 01	-.2629E 00	.2915E 01	.6010E 00	.1785E 00
15	.2920E-01	-.3534E 01	-.1864E 01	-.1308E 00	.1422E 01	.1073E 01	.3187E 00
20	.1708E-01	-.4070E 01	-.2208E 01	-.7609E-01	.7189E 00	.1835E 01	.5448E 00
25	.1044E-01	-.4562E 01	-.2553E 01	-.4452E-01	.3610E 00	.3002E 01	.8913E 00
30	.6554E-02	-.5028E 01	-.2771E 01	-.2611E-01	.2118E 00	.4781E 01	.1420E 01
35	.4276E-02	-.5455E 01	-.2643E 01	-.1457E-01	.1322E 00	.7329E 01	.2176E 01
40	.3004E-02	-.5808E 01	-.2536E 01	-.8891E-02	.6507E-01	.1043E 02	.3097E 01
45	.2229E-02	-.6106E 01	-.2866E 01	-.6656E-02	.2562E-01	.1406E 02	.4175E 01
50	.1648E-02	-.6408E 01	-.2877E 01	-.4529E-02	.2437E-01	.1902E 02	.5647E 01
55	.1253E-02	-.6683E 01	-.2218E 01	-.2511E-02	.2313E-01	.2502E 02	.7429E 01
60	.1033E-02	-.6875E 01	-.2433E 01	-.2096E-02	.4758E-02	.3032E 02	.9004E 01
65	.8506E-03	-.7070E 01	-.2796E 01	-.1824E-02	.3118E-02	.3686E 02	.1094E 02
70	.6914E-03	-.7277E 01	-.1569E 01	-.8032E-03	.1178E-01	.4533E 02	.1346E 02
75	.6213E-03	-.7384E 01	-.2872E 01	-.1205E-02	-.4601E-02	.5044E 02	.1498E 02
80	.5162E-03	-.7569E 01	-.2075E 01	-.6991E-03	.5793E-02	.6071E 02	.1803E 02
85	.4551E-03	-.7695E 01	-.7869E 00	-.2294E-03	.5383E-02	.6885E 02	.2044E 02
90	[illegible]	-.7740E 01	-.1243E 01	-.3240E-03	-.1005E-02	.7202E 02	.2138E 02
95	.4068E-03	-.7807E 01	.3496E 00	.8436E-04	.4600E-02	.7702E 02	.2287E 02
100	.4142E-03	-.7789E 01	-.1650E 00	-.3005E-04	-.1403E-02	.7565E 02	.2246E 02
105	.4109E-03	-.7797E 01	.8979E-01	.1971E-04	.6619E-03	.7627E 02	.2265E 02
110	.4126E-03	-.7793E 01	.3847E 00	.8194E-04	.7085E-03	.7595E 02	.2255E 02
115	.4197E-03	-.7776E 01	-.5778E 00	-.1160E-03	-.2273E-02	.7466E 02	.2217E 02
120	.4095E-03	-.7800E 01	-.6093E-01	-.1159E-04	.1208E-02	.7652E 02	.2272E 02
125	.4085E-03	-.7803E 01	.5601E 00	.1057E-03	.1344E-02	.7671E 02	.2278E 02
130	.4177E-03	-.7781E 01	.1762E 01	.3202E-03	.2561E-02	.7502E 02	.2227E 02
135	.4465E-03	-.7714E 01	-.4477E 00	-.8263E-04	-.4719E-02	.7019E 02	.2084E 02
140	.4393E-03	-.7730E 01	.4085E 00	.7267E-04	.1780E-02	.7134E 02	.2118E 02
145	.4456E-03	-.7716E 01	.4228E 00	.7372E-04	.1202E-04	.7033E 02	.2088E 02
150	.4520E-03	-.7702E 01	.4372E 00	.7479E-04	.1220E-04	.6932E 02	.2058E 02
155	.4586E-03	-.7687E 01	.4515E 00	.7587E-04	.1237E-04	.6834E 02	.2029E 02
160	.4652E-03	-.7673E 01	.4659E 00	.7696E-04	.1254E-04	.6737E 02	.2000E 02
165	.4719E-03	-.7659E 01	.4802E 00	.7807E-04	.1273E-04	.6641E 02	.1972E 02
170	.4787E-03	-.7644E 01	.4945E 00	.7920E-04	.1292E-04	.6546E 02	.1944E 02
175	.4856E-03	-.7630E 01	.5089E 00	.8035E-04	.1311E-04	.6453E 02	.1916E 02
180	.4926E-03	-.7616E 01	.0000E 00	.0000E 00	.0000E 00	.6361E 02	.1889E 02

SCAT= .3134E-01 30/45= .2941E 01 45/135= .4992E 01 SCAT30-130= .9305E-02

CH42/17 1637H 16164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3741E 00	-.9831E 00	-.1513E 00	-.1915E 01	.0000E 00	.2008E 00	.6706E-01
5	.2070E 00	-.1575E 01	-.8027E 00	-.1012E 01	.1034E 02	.3629E 00	.1212E 00
10	.1187E 00	-.2131E 01	-.1285E 01	-.5524E 00	.5272E 01	.6330E 00	.2114E 00
15	.7049E-01	-.2652E 01	-.1689E 01	-.3108E 00	.2768E 01	.1066E 01	.3560E 00
20	.4336E-01	-.3138E 01	-.2019E 01	-.1802E 00	.1496E 01	.1733E 01	.5786E 00
25	.2763E-01	-.3589E 01	-.2375E 01	-.1113E 00	.7898E 00	.2719E 01	.9079E 00
30	.1792E-01	-.4022E 01	-.2548E 01	-.6671E-01	.5111E 00	.4193E 01	.1400E 01
35	.1210E-01	-.4415E 01	-.2598E 01	-.4064E-01	.2987E 00	.6210E 01	.2074E 01
40	.8553E-02	-.4762E 01	-.2455E 01	-.2461E-01	.1830E 00	.8785E 01	.2934E 01
45	.6405E-02	-.5051E 01	-.2837E 01	-.1896E-01	.6465E-01	.1173E 02	.3917E 01
50	.4750E-02	-.5350E 01	-.2883E 01	-.1308E-01	.6742E-01	.1582E 02	.5282E 01
55	.3609E-02	-.5624E 01	-.2263E 01	-.7390E-02	.6521E-01	.2082E 02	.6952E 01
60	.2964E-02	-.5821E 01	-.2387E 01	-.5908E-02	.1699E-01	.2535E 02	.8465E 01
65	.2449E-02	-.6012E 01	-.2796E 01	-.5252E-02	.7517E-02	.3069E 02	.1025E 02
70	.1990E-02	-.6220E 01	-.2551E 01	-.3681E-02	.1800E-01	.3775E 02	.1261E 02
75	.1669E-02	-.6396E 01	-.2818E 01	-.3180E-02	.5740E-02	.4502E 02	.1503E 02
80	.1391E-02	-.6577E 01	-.1885E 01	-.1722E-02	.1671E-01	.5400E 02	.1803E 02
85	.1241E-02	-.6692E 01	-.2630E 01	-.1985E-02	-.3012E-02	.6053E 02	.2021E 02
90	.1068E-02	-.6842E 01	-.1612E 01	-.1022E-02	.1104E-01	.7035E 02	.2349E 02
95	.9788E-03	-.6929E 01	-.9372E 00	-.5264E-03	.5676E-02	.7676E 02	.2563E 02
100	.9329E-03	-.6977E 01	-.1047E 01	-.5323E-03	-.6782E-04	.8054E 02	.2689E 02
105	.8864E-03	-.7028E 01	-.1188E 01	-.5460E-03	-.1574E-03	.8476E 02	.2830E 02
110	.8388E-03	-.7084E 01	-.1310E 01	-.5438E-03	.2577E-04	.8958E 02	.2991E 02
115	.7913E-03	-.7142E 01	-.2739E 00	-.1051E-03	.5027E-02	.9495E 02	.3171E 02
120	.7822E-03	-.7153E 01	.2443E 00	.8983E-04	.2233E-02	.9606E 02	.3208E 02
125	.7900E-03	-.7143E 01	-.4249E 00	-.1496E-03	-.2744E-02	.9511E 02	.3176E 02
130	.7770E-03	-.7160E 01	-.4754E 02	-.7423E-02	-.8335E-01	.9670E 02	.3229E 02
135	.1292E-03	-.8954E 01	.9781E 01	.6324E-03	.9231E-01	.5816E 03	.1942E 03
140	.1844E-03	-.8599E 01	-.1035E 02	-.6433E-03	-.1462E-01	.4075E 03	.1361E 03
145	.1282E-03	-.8962E 01	-.1071E 02	-.4474E-03	.2249E-02	.5859E 03	.1957E 03
150	.8919E-04	-.9325E 01	-.1107E 02	-.3112E-03	.1561E-02	.8425E 03	.2813E 03
155	.6203E-04	-.9688E 01	-.1144E 02	-.2164E-03	.1086E-02	.1211E 04	.4045E 03
160	.4314E-04	-.1005E 02	-.1180E 02	-.1505E-03	.7552E-03	.1742E 04	.5816E 03
165	.3001E-04	-.1041E 02	-.1216E 02	-.1047E-03	.5252E-03	.2504E 04	.8362E 03
170	.2087E-04	-.1078E 02	-.1253E 02	-.7282E-04	.3653E-03	.3600E 04	.1202E 04
175	.1452E-04	-.1114E 02	-.1289E 02	-.5065E-04	.2541E-03	.5176E 04	.1729E 04
180	.1010E-04	-.1150E 02	.0000E 00	.0000E 00	.0000E 00	.7443E 04	.2485E 04

SCAT= .7514E-01 30/45= .2798E 01 45/135= .4958E 02 SCAT30-130= .2509E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
165	.5465E-03	-.7512E 01	.7966E 00	.1507E-03	.4059E-04	.5233E 02	.1919E 02
170	.5596E-03	-.7488E 01	.8204E 00	.1543E-03	.4154E-04	.5110E 02	.1874E 02
175	.5731E-03	-.7464E 01	.8442E 00	.1580E-03	.4257E-04	.4998E 02	.1830E 02
180	.5869E-03	-.7441E 01	.0000E 00	.0000E 00	.0000E 00	.4873E 02	.1787E 02

SCAT= .2860E-01 30/45= .2716E 01 45/135= .5164E 01 SCAT30-130= .1049E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
165	.4905E-03	-.7620E 01	.4942E 00	.8394E-04	.1402E-04	.6804E 02	.2062E 02
170	.4978E-03	-.7605E 01	.5090E 00	.8478E-04	.1423E-04	.6704E 02	.2032E 02
175	.5052E-03	-.7591E 01	.5237E 00	.8604E-04	.1443E-04	.6606E 02	.2002E 02
180	.5127E-03	-.7576E 01	.0000E 00	.0000E 00	.0000E 00	.6509E 02	.1973E 02

SCAT= .3338E-01 30/45= .2952E 01 45/135= .5005E 01 SCAT30-130= .1011E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1558E 00	-.1859E 01	-.1758E 00	-.8877E 00	.0000E 00	.1637E 00	.4990E-01
5	.7831E-01	-.2547E 01	-.9252E 00	-.4248E 00	.5304E 01	.3256E 00	.9926E-01
10	.4124E-01	-.3188E 01	-.1467E 01	-.2119E 00	.2440E 01	.6184E 00	.1885E 00
15	.2275E-01	-.3783E 01	-.1907E 01	-.1101E 00	.1167E 01	.1121E 01	.3417E 00
20	.1314E-01	-.4332E 01	-.2250E 01	-.5946E-01	.5798E 00	.1940E 01	.5914E 00
25	.7955E-02	-.4834E 01	-.2544E 01	-.3303E-01	.2937E 00	.3206E 01	.9771E 00
30	.5003E-02	-.5298E 01	-.2958E 01	-.2100E-01	.1470E 00	.5097E 01	.1554E 01
35	.3171E-02	-.5754E 01	-.2241E 01	-.9398E-02	.1329E 00	.8042E 01	.2451E 01
40	.2351E-02	-.6053E 01	-.3158E 01	-.8367E-02	.1182E-01	.1085E 02	.3307E 01
45	.1621E-02	-.6425E 01	-.2459E 01	-.4239E-02	.4730E-01	.1574E 02	.4796E 01
50	.1251E-02	-.6684E 01	-.2249E 01	-.2765E-02	.1688E-01	.2039E 02	.6215E 01
55	.1009E-02	-.6898E 01	-.2200E 01	-.2015E-02	.8596E-02	.2526E 02	.7701E 01
60	.8336E-03	-.7090E 01	-.2361E 01	-.1645E-02	.4244E-02	.3059E 02	.9325E 01
65	.6900E-03	-.7279E 01	-.1878E 01	-.1027E-02	.7077E-02	.3696E 02	.1127E 02
70	.6004E-03	-.7418E 01	-.1737E 01	-.7770E-03	.2867E-02	.4248E 02	.1295E 02
75	.5324E-03	-.7538E 01	-.1276E 01	-.4023E-03	.3377E-02	.4788E 02	.1460E 02
80	.4905E-03	-.7620E 01	-.1005E 01	-.3323E-03	.1719E-02	.5199E 02	.1585E 02
85	.4615E-03	-.7681E 01	-.7555E 00	-.2235E-03	.1246E-02	.5526E 02	.1684E 02
90	.4420E-03	-.7724E 01	-.4967E 00	-.1342E-03	.1023E-02	.5770E 02	.1759E 02
95	.4303E-03	-.7751E 01	.5869E-01	.1486E-04	.1706E-02	.5927E 02	.1807E 02
100	.4316E-03	-.7748E 01	-.5824E 00	-.1386E-03	-.1750E-02	.5909E 02	.1801E 02
105	.4195E-03	-.7777E 01	-.5008E-01	-.1136E-04	.1457E-02	.6080E 02	.1853E 02
110	.4185E-03	-.7779E 01	.3954E-01	.8436E-05	.2269E-03	.6094E 02	.1857E 02
115	.4192E-03	-.7777E 01	.3520E 00	.7251E-04	.7342E-03	.6083E 02	.1854E 02
120	.4255E-03	-.7762E 01	.1253E 01	.2560E-03	.2102E-02	.5993E 02	.1827E 02
125	.4479E-03	-.7711E 01	.7743E 00	.1582E-03	-.1120E-02	.5694E 02	.1736E 02
130	.4617E-03	-.7681E 01	.2134E 01	.4437E-03	.3272E-02	.5524E 02	.1684E 02
135	.5004E-03	-.7600E 01	.7139E 00	.1507E-03	-.3358E-02	.5096E 02	.1553E 02
140	.5136E-03	-.7574E 01	.1241E 01	.2620E-03	.1275E-02	.4966E 02	.1514E 02
145	.5364E-03	-.7531E 01	.1285E 01	.2737E-03	.1337E-03	.4754E 02	.1449E 02
150	.5603E-03	-.7487E 01	.1328E 01	.2858E-03	.1396E-03	.4551E 02	.1387E 02
155	.5853E-03	-.7443E 01	.1372E 01	.2986E-03	.1458E-03	.4357E 02	.1328E 02
160	.6113E-03	-.7400E 01	.1415E 01	.3119E-03	.1523E-03	.4172E 02	.1272E 02
165	.6385E-03	-.7356E 01	.1459E 01	.3257E-03	.1591E-03	.3994E 02	.1217E 02
170	.6670E-03	-.7313E 01	.1503E 01	.3402E-03	.1662E-03	.3824E 02	.1165E 02
175	.6966E-03	-.7269E 01	.1546E 01	.3554E-03	.1736E-03	.3661E 02	.1116E 02
180	.7277E-03	-.7226E 01	.0000E 00	.0000E 00	.0000E 00	.3505E 02	.1068E 02

SCAT= .2550E-01 30/45= .3087E 01 45/135= .3239E 01 SCAT30-130= .7773E-02

CH42/21 1833H 16164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1211E 01	.1915E 00	-.1729E 00	-.6810E 01	.0000E 00	.1560E 00	.4456E-01
5	.6168E 00	-.4833E 00	-.9094E 00	-.3305E 01	.4016E 02	.3062E 00	.8749E-01
10	.3284E 00	-.1114E 01	-.1445E 01	-.1669E 01	.1875E 02	.5752E 00	.1643E 00
15	.1828E 00	-.1700E 01	-.1883E 01	-.8758E 00	.9085E 01	.1033E 01	.2952E 00
20	.1063E 00	-.2241E 01	-.2228E 01	-.4774E 00	.4569E 01	.1776E 01	.5075E 00
25	.6468E-01	-.2738E 01	-.2565E 01	-.2768E 00	.2298E 01	.2920E 01	.8343E 00
30	.4052E-01	-.3206E 01	-.2675E 01	-.1569E 00	.1374E 01	.4661E 01	.1332E 01
35	.2683E-01	-.3618E 01	-.2851E 01	-.9733E-01	.6826E 00	.7040E 01	.2011E 01
40	.1833E-01	-.3999E 01	-.2468E 01	-.5289E-01	.5097E 00	.1030E 02	.2943E 01
45	.1372E-01	-.4289E 01	-.2877E 01	-.4112E-01	.1344E 00	.1376E 02	.3932E 01
50	.1013E-01	-.4592E 01	-.2434E 01	-.2404E-01	.1957E 00	.1864E 02	.5325E 01
55	.8036E-02	-.4824E 01	-.2789E 01	-.1984E-01	.4812E-01	.2350E 02	.6715E 01
60	.6304E-02	-.5067E 01	-.2533E 01	-.1326E-01	.7545E-01	.2996E 02	.8559E 01
65	.5147E-02	-.5269E 01	-.2409E 01	-.9645E-02	.4141E-01	.3669E 02	.1048E 02
70	.4304E-02	-.5448E 01	-.2702E 01	-.8390E-02	.1438E-01	.4387E 02	.1253E 02
75	.3573E-02	-.5634E 01	-.2557E 01	-.6230E-02	.2475E-01	.5285E 02	.1510E 02
80	.3030E-02	-.5799E 01	-.2164E 01	-.4268E-02	.2248E-01	.6234E 02	.1781E 02
85	.2657E-02	-.5930E 01	-.2131E 01	-.3492E-02	.8895E-02	.7108E 02	.2031E 02
90	.2353E-02	-.6052E 01	-.2872E 01	-.3877E-02	-.4414E-02	.8029E 02	.2294E 02
95	.2014E-02	-.6208E 01	-.1266E 01	-.1452E-02	.2780E-01	.9377E 02	.2679E 02
100	.1887E-02	-.6273E 01	-.9379E 00	-.9675E-03	.5547E-02	.1001E 03	.2859E 02
105	.1803E-02	-.6318E 01	-.1848E 01	-.1702E-02	-.8413E-02	.1048E 03	.2993E 02
110	.1655E-02	-.6404E 01	-.1473E 01	-.1202E-02	.5728E-02	.1142E 03	.3261E 02
115	.1550E-02	-.6470E 01	.1261E 00	.9558E-04	.1487E-01	.1219E 03	.3482E 02
120	.1558E-02	-.6464E 01	-.1379E 01	-.9773E-03	-.1229E-01	.1212E 03	.3463E 02
125	.1473E-02	-.6521E 01	-.4562E 00	-.2993E-03	.7778E-02	.1282E 03	.3664E 02
130	.1447E-02	-.6539E 01	-.1725E 00	-.1076E-03	.2187E-02	.1306E 03	.3730E 02
135	[illegible]	-.6545E 01	-.7942E 00	-.4689E-03	-.4141E-02	.1314E 03	.3754E 02
140	[illegible]	-.6574E 01	-.6406E 00	-.3557E-03	.1297E-02	.1353E 03	.3864E 02
145	[illegible]	-.6596E 01	-.6631E 00	-.3478E-03	.9060E-04	.1383E 03	.3952E 02
150	.1339E-02	-.6619E 01	-.6856E 00	-.3400E-03	.8859E-04	.1415E 03	.4042E 02
155	.1309E-02	-.6641E 01	-.7081E 00	-.3329E-03	.8662E-04	.1447E 03	.4134E 02
160	.1276E-02	-.6664E 01	-.7306E 00	-.3251E-03	.8470E-04	.1480E 03	.4228E 02
165	.1248E-02	-.6686E 01	-.7530E 00	-.3179E-03	.8281E-04	.1514E 03	.4324E 02
170	.1220E-02	-.6709E 01	-.7755E 00	-.3108E-03	.8097E-04	.1548E 03	.4422E 02
175	.1193E-02	-.6731E 01	-.7980E 00	-.3039E-03	.7916E-04	.1583E 03	.4523E 02
180	.1166E-02	-.6754E 01	.0000E 00	.0000E 00	.0000E 00	.1619E 03	.4626E 02

SCAT= .1889E 00 30/45= .2953E 01 45/135= .9548E 01 SCAT30-130= .5396E-01

CH42/22 1858H 16164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2482E 00	-.1394E 01	-.1995E 00	-.1541E 01	.0000E 00	.1289E 00	.3531E-01
5	.1137E 00	-.2174E 01	-.1041E 01	-.6700E 00	.9976E 01	.2814E 00	.7704E-01
10	.5527E-01	-.2896E 01	-.1635E 01	-.3070E 00	.4159E 01	.5790E 00	.1585E 00
15	.2848E-01	-.3559E 01	-.2101E 01	-.1480E 00	.1821E 01	.1124E 01	.3077E 00
20	.1556E-01	-.4163E 01	-.2446E 01	-.7500E-01	.8369E 00	.2056E 01	.5631E 00
25	.9016E-02	-.4709E 01	-.2786E 01	-.4114E-01	.3880E 00	.3549E 01	.9719E 00
30	.5426E-02	-.5217E 01	-.2719E 01	-.2129E-01	.2275E 00	.5898E 01	.1615E 01
35	.3568E-02	-.5636E 01	-.2909E 01	-.1316E-01	.9312E-01	.8969E 01	.2456E 01
40	.2419E-02	-.6024E 01	-.2536E 01	-.7159E-02	.6879E-01	.1323E 02	.3622E 01
45	.1795E-02	-.6323E 01	-.2465E 01	-.4703E-02	.2814E-01	.1783E 02	.4883E 01
50	.1384E-02	-.6583E 01	-.2275E 01	-.3092E-02	.1846E-01	.2312E 02	.6330E 01
55	.1114E-02	[illegible]	-.1731E 01	-.1786E-02	.1497E-01	.2872E 02	.7863E 01
60	.9585E-03	[illegible]	-.1999E 01	-.1624E-02	.1853E-02	.3339E 02	.9142E 01
65	.8168E-03	-.7110E 01	-.2304E 01	-.1469E-02	.1770E-02	.3918E 02	.1073E 02
70	.6886E-03	-.7281E 01	-.1847E 01	-.9442E-03	.6019E-02	.4647E 02	.1273E 02
75	.6062E-03	-.7408E 01	-.1534E 01	-.6557E-03	.3306E-02	.5279E 02	.1446E 02
80	.5489E-03	-.7508E 01	-.5807E 00	-.2176E-03	.5020E-02	.5829E 02	.1596E 02
85	.5300E-03	-.7543E 01	-.7411E 00	-.2519E-03	-.3926E-03	.6038E 02	.1653E 02
90	.5080E-03	-.7585E 01	-.1467E 01	-.4437E-03	-.2199E-02	.6300E 02	.1725E 02
95	.4692E-03	-.7664E 01	.4148E 00	.1156E-03	.6410E-02	.6820E 02	.1867E 02
100	.4793E-03	-.7643E 01	.1117E 00	.3002E-04	-.9810E-03	.6676E 02	.1828E 02
105	.4820E-03	-.7638E 01	.1841E 00	.4750E-04	.2003E-03	.6640E 02	.1818E 02
110	.4861E-03	-.7629E 01	-.6149E 00	-.1501E-03	-.2264E-02	.6583E 02	.1803E 02
115	.4730E-03	-.7656E 01	.3009E 01	.7404E-03	.1020E-01	.6765E 02	.1853E 02
120	.5376E-03	-.7528E 01	.1394E 01	.3609E-03	-.4349E-02	.5952E 02	.1630E 02
125	.5691E-03	-.7471E 01	.1308E 01	.3432E-03	-.2019E-03	.5623E 02	.1540E 02
130	.5991E-03	-.7420E 01	.2828E 01	.7732E-03	.4927E-02	.5342E 02	.1463E 02
135	.6665E-03	-.7313E 01	.2064E 01	.9953E-03	-.2039E-02	.4801E 02	.1315E 02
140	.7185E-03	-.7238E 01	.2263E 01	.6804E-03	.9756E-03	.4454E 02	.1220E 02
145	.7779E-03	-.7159E 01	.2342E 01	.7366E-03	.6444E-03	.4114E 02	.1126E 02
150	.8421E-03	-.7080E 01	.2422E 01	.7975E-03	.6976E-03	.3800E 02	.1040E 02
155	.9117E-03	-.7000E 01	.2501E 01	.8634E-03	.7553E-03	.3510E 02	.9611E 01
160	.9871E-03	-.6921E 01	.2580E 01	.9348E-03	.8177E-03	.3242E 02	.8877E 01
165	.1069E-02	-.6841E 01	.2660E 01	.1012E-02	.8853E-03	.2994E 02	.8199E 01
170	.1157E-02	-.6762E 01	.2739E 01	.1096E-02	.9584E-03	.2766E 02	.7573E 01
175	.1253E-02	-.6683E 01	.2819E 01	.1186E-02	.1038E-02	.2555E 02	.6995E 01
180	.1356E-02	-.6603E 01	.0000E 00	.0000E 00	.0000E 00	.2360E 02	.6461E 01

SCAT= .3200E-01 30/45= .3023E 01 45/135= .2692E 01 SCAT30-130= .8762E-02

CH42/23 1920H 16164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.4476E 00	-.8037E 00	-.2234E 00	-.2988E 01	.0000E 00	.9544E-01	.2194E-01
5	.1869E 00	-.1677E 01	-.1157E 01	-.1181E 01	.2071E 02	.2286E 00	.5256E-01
10	.8379E-01	-.2479E 01	-.1802E 01	-.4978E 00	.7832E 01	.5099E 00	.1172E 00
15	.4035E-01	-.3210E 01	-.2292E 01	-.2232E 00	.3146E 01	.1059E 01	.2435E 00
20	.2087E-01	-.3870E 01	-.2639E 01	-.1063E 00	.1340E 01	.2047E 01	.4707E 00
25	.1159E-01	-.4457E 01	-.2927E 01	-.5494E-01	.5885E 00	.3686E 01	.8474E 00
30	.6798E-02	-.4991E 01	-.2829E 01	-.2753E-01	.3140E 00	.6285E 01	.1445E 01
35	.4395E-02	-.5427E 01	-.2990E 01	-.1658E-01	.1255E 00	.9721E 01	.2235E 01
40	.2948E-02	-.5827E 01	-.2345E 01	-.8151E-02	.9657E-01	.1449E 02	.3332E 01
45	.2237E-02	-.6103E 01	-.2354E 01	-.5631E-02	.2888E-01	.1910E 02	.4392E 01
50	.1745E-02	-.6351E 01	-.2870E 01	-.4787E-02	.9672E-02	.2448E 02	.5628E 01
55	.1328E-02	-.6624E 01	-.2606E 01	-.3086E-02	.1949E-01	.3218E 02	.7399E 01
60	.1058E-02	-.6851E 01	-.2076E 01	-.1856E-02	.1409E-01	.4037E 02	.9282E 01
65	.8963E-03	-.7017E 01	-.2003E 01	-.1417E-02	.5037E-02	.4767E 02	.1096E 02
70	.7726E-03	-.7166E 01	-.2112E 01	-.1201E-02	.2476E-02	.5530E 02	.1271E 02
75	.6678E-03	-.7311E 01	-.1347E 01	-.6373E-03	.6456E-02	.6397E 02	.1471E 02
80	.6122E-03	-.7398E 01	-.2565E 01	-.1010E-02	-.4276E-02	.6978E 02	.1604E 02
85	.5241E-03	-.7554E 01	-.1018E 01	-.3395E-03	.7680E-02	.8152E 02	.1874E 02
90	.4944E-03	-.7612E 01	-.1158E 01	-.3437E-03	-.4809E-04	.8641E 02	.1987E 02
95	.4644E-03	-.7675E 01	.2006E 00	.5504E-04	.4569E-02	.9199E 02	.2115E 02
100	.4692E-03	-.7664E 01	-.2451E 00	-.6391E-04	-.1363E-02	.9105E 02	.2093E 02
105	.4637E-03	-.7676E 01	-.2550E 00	-.6200E-04	.1202E-04	.9214E 02	.2119E 02
110	.4582E-03	-.7688E 01	-.9973E 00	-.2277E-03	-.1889E-02	.9324E 02	.2144E 02
115	.4383E-03	-.7733E 01	.9532E 00	.2079E-03	.4992E-02	.9747E 02	.2241E 02
120	.4565E-03	-.7692E 01	.2173E-01	.4643E-05	-.2330E-02	.9360E 02	.2152E 02
125	.4569E-03	-.7691E 01	.2982E 00	.6159E-04	.6526E-03	.9351E 02	.2150E 02
130	.4622E-03	-.7679E 01	.2206E 01	.4599E-03	.4504E-02	.9243E 02	.2125E 02
135	.5024E-03	-.7596E 01	.1350E 00	.2833E-04	-.4965E-02	.8504E 02	.1955E 02
140	.5048E-03	-.7591E 01	.8132E 00	.1679E-03	.1594E-02	.8463E 02	.1946E 02
145	.5195E-03	-.7563E 01	.8417E 00	.1723E-03	.5555E-04	.8224E 02	.1891E 02
150	.5345E-03	-.7534E 01	.8703E 00	.1773E-03	.5716E-04	.7993E 02	.1838E 02
155	.5500E-03	-.7506E 01	.8988E 00	.1824E-03	.5881E-04	.7768E 02	.1786E 02
160	.5659E-03	-.7477E 01	.9273E 00	.1877E-03	.6051E-04	.7550E 02	.1736E 02
165	.5823E-03	-.7449E 01	.9559E 00	.1931E-03	.6227E-04	.7337E 02	.1687E 02
170	.5991E-03	-.7420E 01	.9844E 00	.1987E-03	.6406E-04	.7131E 02	.1640E 02
175	.6165E-03	-.7392E 01	.1013E 01	.2045E-03	.6592E-04	.6930E 02	.1593E 02
180	.6343E-03	-.7363E 01	.0000E 00	.0000E 00	.0000E 00	.6735E 02	.1549E 02

SCAT= .4272E-01 30/45= .3039E 01 45/135= .4452E 01 SCAT30-130= .9823E-02

CH42/24 1940H 16164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.4078E 00	-.8969E 00	-.2411E 00	-.2853E 01	.0000E 00	.8012E-01	.1631E-01
5	.1589E 00	-.1840E 01	-.1247E 01	-.1053E 01	.2062E 02	.2057E 00	.4187E-01
10	.6693E-01	-.2704E 01	-.1939E 01	-.4175E 00	.7288E 01	.4882E 00	.9940E-01
15	.3049E-01	-.3490E 01	-.2460E 01	-.1772E 00	.2753E 01	.1072E 01	.2181E 00
20	.1503E-01	-.4198E 01	-.2820E 01	-.8042E-01	.1109E 01	.2174E 01	.4426E 00
25	.8010E-02	-.4827E 01	-.3052E 01	-.3917E-01	.4727E 00	.4079E 01	.8305E 00
30	.4592E-02	-.5383E 01	-.3268E 01	-.2002E-01	.2102E 00	.7116E 01	.1449E 01
35	.2774E-02	-.5887E 01	-.2612E 01	-.9360E-02	.1314E 00	.1178E 02	.2398E 01
40	.1958E-02	-.6236E 01	-.3041E 01	-.6754E-02	.2987E-01	.1669E 02	.3398E 01
45	.1368E-02	-.6594E 01	-.2146E 01	-.3172E-02	.4104E-01	.2388E 02	.4862E 01
50	.1091E-02	-.6820E 01	-.2588E 01	-.2732E-02	.5049E-02	.2994E 02	.6095E 01
55	.8530E-03	-.7067E 01	-.2413E 01	-.1851E-02	.1009E-01	.3831E 02	.7798E 01
60	.6915E-03	-.7277E 01	-.1811E 01	-.1069E-02	.8957E-02	.4725E 02	.9620E 01
65	.5982E-03	-.7422E 01	-.2309E 01	-.1070E-02	-.1004E-03	.5462E 02	.1112E 02
70	.5041E-03	-.7593E 01	-.1946E 01	-.5846E-03	.5659E-02	.6482E 02	.1320E 02
75	.4531E-03	-.7699E 01	-.1984E 01	-.6240E-03	-.4513E-03	.7212E 02	.1468E 02
80	.3986E-03	-.7827E 01	-.4845E 00	-.1322E-03	.5635E-02	.8197E 02	.1669E 02
85	.3871E-03	-.7857E 01	-.8925E 00	-.2206E-03	-.1013E-02	.8441E 02	.1718E 02
90	.3678E-03	-.7908E 01	-.5821E 00	-.1306E-03	.1032E-02	.8883E 02	.1808E 02
95	.3564E-03	-.7939E 01	.6591E 00	.1404E-03	.3106E-02	.9167E 02	.1866E 02
100	.3687E-03	-.7906E 01	.2961E 00	.6149E-04	-.9048E-03	.8862E 02	.1804E 02
105	.3741E-03	-.7891E 01	-.8717E 00	-.1704E-03	-.2657E-02	.8735E 02	.1778E 02
110	.3592E-03	-.7932E 01	-.8450E 00	-.1517E-03	.2133E-03	.9097E 02	.1852E 02
115	.3460E-03	-.7969E 01	.9184E 00	.1581E-03	.3550E-02	.9445E 02	.1923E 02
120	.3598E-03	-.7930E 01	.1538E 01	.2665E-03	.1243E-02	.9083E 02	.1849E 02
125	.3830E-03	-.7867E 01	.1323E 01	.2337E-03	-.3759E-03	.8531E 02	.1737E 02
130	.4034E-03	-.7816E 01	.1052E 01	.1872E-03	-.5327E-03	.8100E 02	.1649E 02
135	.4197E-03	-.7776E 01	.1539E 01	.2770E-03	.1029E-02	.7785E 02	.1585E 02
140	.4439E-03	-.7720E 01	.1428E 01	.2614E-03	-.1787E-03	.7361E 02	.1499E 02
145	.4667E-03	-.7670E 01	.1478E 01	.2748E-03	.1539E-03	.7001E 02	.1425E 02
150	.4907E-03	-.7620E 01	.1528E 01	.2889E-03	.1618E-03	.6659E 02	.1356E 02
155	.5159E-03	-.7570E 01	.1578E 01	.3038E-03	.1701E-03	.6333E 02	.1289E 02
160	.5424E-03	-.7519E 01	.1628E 01	.3194E-03	.1788E-03	.6024E 02	.1226E 02
165	.5703E-03	-.7469E 01	.1678E 01	.3358E-03	.1881E-03	.5729E 02	.1166E 02
170	.5996E-03	-.7419E 01	.1729E 01	.3531E-03	.1977E-03	.5449E 02	.1109E 02
175	.6304E-03	-.7369E 01	.1779E 01	.3712E-03	.2079E-03	.5183E 02	.1055E 02
180	.6628E-03	-.7319E 01	.0000E 00	.0000E 00	.0000E 00	.4930E 02	.1004E 02

SCAT= .3268E-01 30/45= .3356E 01 45/135= .3260E 01 SCAT30-130= .6652E-02

CH42/25 1955H 16164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.6453E 00	-.4381E 00	-.2652E 00	-.4774E 01	.0000E 00	.6432E-01	.1169E-01
5	.2287E 00	-.1475E 01	-.1362E 01	-.1601E 01	.3635E 02	.1815E 00	.3297E-01
10	.8897E-01	-.2419E 01	-.2098E 01	-.5841E 00	.1169E 02	.4665E 00	.8475E-01
15	.3799E-01	-.3270E 01	-.2634E 01	-.2313E 00	.4043E 01	.1092E 01	.1985E 00
20	.1781E-01	-.4028E 01	-.2977E 01	-.9907E-01	.1515E 01	.2330E 01	.4233E 00
25	.9165E-02	-.4692E 01	-.3199E 01	-.4641E-01	.6034E 00	.4528E 01	.8227E 00
30	.5115E-02	-.5276E 01	-.3272E 01	-.2322E-01	.2650E 00	.8114E 01	.1474E 01
35	.3089E-02	-.5780E 01	-.2661E 01	-.1059E-01	.1447E 00	.1344E 02	.2441E 01
40	.2165E-02	-.6135E 01	-.2669E 01	-.6691E-02	.4463E-01	.1917E 02	.3483E 01
45	.1581E-02	-.6450E 01	-.1894E 01	-.3278E-02	.3911E-01	.2625E 02	.4769E 01
50	.1295E-02	-.6649E 01	-.2239E 01	-.2852E-02	.4886E-02	.3205E 02	.5822E 01
55	.1046E-02	-.6863E 01	-.2708E 01	-.2503E-02	.3881E-02	.3967E 02	.7207E 01
60	.8209E-03	-.7105E 01	-.2526E 01	-.1722E-02	.9862E-02	.5056E 02	.9186E 01
65	.6706E-03	-.7307E 01	-.1209E 01	-.6503E-03	.1219E-01	.6189E 02	.1124E 02
70	.6131E-03	-.7397E 01	-.1903E 01	-.8643E-03	-.2361E-02	.6769E 02	.1230E 02
75	.5377E-03	-.7528E 01	-.1721E 01	-.6477E-03	.2482E-02	.7719E 02	.1402E 02
80	.4812E-03	-.7639E 01	-.9793E 00	-.3178E-03	.3780E-02	.8625E 02	.1567E 02
85	.4534E-03	-.7699E 01	-.2230E 01	-.6219E-03	-.3484E-02	.9153E 02	.1663E 02
90	.3992E-03	-.7826E 01	-.6535E 00	-.1588E-03	.5306E-02	.1040E 03	.1889E 02
95	.3853E-03	-.7861E 01	.5444E 00	.1250E-03	.3253E-02	.1077E 03	.1957E 02
100	.3962E-03	-.7834E 01	.6812E 00	.1534E-03	.3256E-03	.1047E 03	.1903E 02
105	.4096E-03	-.7800E 01	-.4911E 00	-.1060E-03	-.2973E-02	.1013E 03	.1841E 02
110	.4004E-03	-.7823E 01	-.1142E 01	-.2271E-03	-.1387E-02	.1037E 03	.1883E 02
115	.3806E-03	-.7874E 01	.1887E-01	.3503E-05	.2647E-02	.1091E 03	.1981E 02
120	.3809E-03	-.7873E 01	.1637E 00	.2926E-04	.2952E-03	.1090E 03	.1980E 02
125	.3834E-03	-.7866E 01	.1240E 01	.2190E-03	.2174E-02	.1082E 03	.1967E 02
130	.4025E-03	-.7818E 01	.9757E 00	.1730E-03	-.5265E-03	.1031E 03	.1873E 02
135	.4176E-03	-.7781E 01	.3376E 00	.5912E-04	-.1305E-02	.9938E 02	.1805E 02
140	.4228E-03	-.7769E 01	.6872E 00	.1183E-03	.6776E-03	.9817E 02	.1783E 02
145	.4331E-03	-.7745E 01	.7114E 00	.1211E-03	.3308E-04	.9583E 02	.1741E 02
150	.4437E-03	-.7720E 01	.7355E 00	.1241E-03	.3388E-04	.9354E 02	.1699E 02
155	.4545E-03	-.7696E 01	.7596E 00	.1271E-03	.3471E-04	.9132E 02	.1659E 02
160	.4656E-03	-.7672E 01	.7837E 00	.1302E-03	.3556E-04	.8914E 02	.1619E 02
165	.4770E-03	-.7648E 01	.8078E 00	.1334E-03	.3642E-04	.8702E 02	.1581E 02
170	.4886E-03	-.7624E 01	.8320E 00	.1367E-03	.3732E-04	.8494E 02	.1543E 02
175	.5005E-03	-.7600E 01	.8561E 00	.1400E-03	.3822E-04	.8292E 02	.1506E 02
180	.5127E-03	-.7576E 01	.0000E 00	.0000E 00	.0000E 00	.8094E 02	.1471E 02

SCAT= .4150E-01 30/45= .3239E 01 45/135= .3786E 01 SCAT30-130= .7940E-02

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2261E 00	-.1487E 01	-.1816E 00	-.1317E 01	.0000E 00	.1491E 00	.4337E-01
5	.1111E 00	-.2197E 01	-.9524E 00	-.6154E 00	.8043E 01	.3034E 00	.8823E-01
10	.5744E-01	-.2857E 01	-.1505E 01	-.3006E 00	.3608E 01	.5870E 00	.1707E 00
15	.3120E-01	-.3467E 01	-.1947E 01	-.1533E 00	.1687E 01	.1081E 01	.3143E 00
20	.1782E-01	-.4027E 01	-.2206E 01	-.8160E-01	.8221E 00	.1892E 01	.5502E 00
25	.1070E-01	-.4537E 01	-.2539E 01	-.4544E-01	.4143E 00	.3151E 01	.9164E 00
30	.6735E-02	-.5000E 01	-.2853E 01	-.2747E-01	.2060E 00	.5006E 01	.1456E 01
35	.4339E-02	-.5440E 01	-.2446E 01	-.1385E-01	.1560E 00	.7771E 01	.2260E 01
40	.3130E-02	-.5767E 01	-.2791E 01	-.1005E-01	.4357E-01	.1077E 02	.3133E 01
45	.2253E-02	-.6096E 01	-.2511E 01	-.6000E-02	.4640E-01	.1497E 02	.4353E 01
50	.1729E-02	-.6360E 01	-.2347E 01	-.3971E-02	.2325E-01	.1950E 02	.5671E 01
55	.1383E-02	-.6584E 01	-.2493E 01	-.3090E-02	.1010E-01	.2439E 02	.7093E 01
60	.1113E-02	-.6801E 01	-.2495E 01	-.2309E-02	.8947E-02	.3029E 02	.8811E 01
65	.9115E-03	-.7000E 01	-.2408E 01	-.1707E-02	.6891E-02	.3699E 02	.1076E 02
70	.7625E-03	-.7179E 01	-.1976E 01	-.1114E-02	.6802E-02	.4422E 02	.1286E 02
75	.6653E-03	-.7315E 01	-.2299E 01	-.1651E-02	.7154E-03	.5068E 02	.1474E 02
80	.5736E-03	-.7464E 01	-.1387E 01	-.5300E-03	.5974E-02	.5878E 02	.1710E 02
85	.5273E-03	-.7548E 01	-.1600E 01	-.5201E-03	.2207E-04	.6394E 02	.1860E 02
90	.4812E-03	-.7639E 01	-.5395E 00	-.1585E-03	.4235E-02	.7006E 02	.2038E 02
95	.4674E-03	-.7668E 01	-.3864E 00	-.1051E-03	.6122E-03	.7213E 02	.2098E 02
100	.4582E-03	-.7688E 01	-.7532E 00	-.1895E-03	-.9665E-03	.7358E 02	.2140E 02
105	.4417E-03	-.7725E 01	-.2036E 00	-.4772E-04	.1624E-02	.7633E 02	.2220E 02
110	.4375E-03	-.7734E 01	-.1106E 01	-.2606E-03	-.2210E-02	.7706E 02	.2241E 02
115	.4165E-03	-.7784E 01	.4881E 00	.1002E-03	.3905E-02	.8094E 02	.2354E 02
120	.4253E-03	-.7763E 01	-.2911E 00	-.5757E-04	-.1808E-02	.7928E 02	.2306E 02
125	.4203E-03	-.7775E 01	.1590E 01	.3098E-03	.4210E-02	.8023E 02	.2333E 02
130	.4473E-03	-.7712E 01	.8623E 00	.1696E-03	-.1607E-02	.7538E 02	.2192E 02
135	.4621E-03	-.7680E 01	.4380E 00	.8502E-04	-.9687E-03	.7296E 02	.2122E 02
140	.4695E-03	-.7664E 01	.7351E 00	.1406E-03	.6368E-03	.7181E 02	.2089E 02
145	.4818E-03	-.7638E 01	.7609E 00	.1443E-03	.4210E-04	.6998E 02	.2035E 02
150	.4944E-03	-.7612E 01	.7867E 00	.1480E-03	.4321E-04	.6820E 02	.1984E 02
155	.5073E-03	-.7586E 01	.8125E 00	.1519E-03	.4433E-04	.6646E 02	.1933E 02
160	.5206E-03	-.7561E 01	.8383E 00	.1559E-03	.4549E-04	.6477E 02	.1884E 02
165	.5342E-03	-.7535E 01	.8641E 00	.1600E-03	.4667E-04	.6312E 02	.1836E 02
170	.5481E-03	-.7509E 01	.8899E 00	.1641E-03	.4790E-04	.6151E 02	.1789E 02
175	.5624E-03	-.7483E 01	.9157E 00	.1684E-03	.4914E-04	.5995E 02	.1744E 02
180	.5771E-03	-.7457E 01	.0000E 00	.0000E 00	.0000E 00	.5842E 02	.1699E 02

SCAT= .3372E-01 30/45= .2990E 01 45/135= .4875E 01 SCAT30-130= .9806E-02

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00–160	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
165	.1298E-02	-.6647E 01	.6736E 00	.3022E-03	.6095E-04	.7990E 02	.2533E 02
170	.1325E-02	-.6626E 01	.6937E 00	.3084E-03	.7036E-04	.7839E 02	.2483E 02
175	.1352E-02	-.6606E 01	.7138E 00	.3146E-03	.7177E-04	.7683E 02	.2433E 02
180	.1379E-02	-.6586E 01	.0000E 00	.0000E 00	.0000E 00	.7530E 02	.2309E 02

SCAT= .1039E 00 30/45= .2843E 01 45/135= .6694E 01 SCAT30-130= .3209E-01

CH42/28 2110H 16164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00–160	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
165	.8159E-03	-.7111E 01	-.1419E 00	-.3953E-04	.1929E-05	.1120E 03	.3110E 02
170	.8125E-03	-.7115E 01	-.1461E 00	-.3936E-04	.1909E-05	.1125E 03	.3131E 02
175	.8091E-03	-.7120E 01	-.1504E 00	-.3919E-04	.1906E-05	.1130E 03	.3149E 02
180	.8056E-03	-.7124E 01	.0000E 00	.0000E 00	.0000E 00	.1134E 03	.3150E 02

SCAT= .9140E-01 30/45= .3041E 01 45/135= .7562E 01 SCAT30-130= .2544E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.4009E 00	-.9141E 00	-.2160E 00	-.2626E 01	.0000E 00	.1003E 00	.2304E-01
5	.1717E 00	-.1762E 01	-.1125E 01	-.1066E 01	.1788E 02	.2342E 00	.5379E-01
10	.7872E-01	-.2542E 01	-.1756E 01	-.4594E 00	.6945E 01	.5108E 00	.1173E 00
15	.3863E-01	-.3254E 01	-.2238E 01	-.2102E 00	.2856E 01	.1041E 01	.2391E 00
20	.2029E-01	-.3898E 01	-.2581E 01	-.1018E 00	.1242E 01	.1982E 01	.4552E 00
25	.1141E-01	-.4474E 01	-.2890E 01	-.5353E-01	.5532E 00	.3526E 01	.8098E 00
30	.6735E-02	-.5000E 01	-.2926E 01	-.2802E-01	.2923E 00	.5971E 01	.1371E 01
35	.4290E-02	-.5451E 01	-.2794E 01	-.1531E-01	.1457E 00	.9374E 01	.2153E 01
40	.2954E-02	-.5825E 01	-.2466E 01	-.8532E-02	.7765E-01	.1361E 02	.3127E 01
45	.2210E-02	-.6115E 01	-.2423E 01	-.5704E-02	.3240E-01	.1820E 02	.4180E 01
50	.1712E-02	-.6370E 01	-.3009E 01	-.4891E-02	.9322E-02	.2349E 02	.5396E 01
55	.1285E-02	-.6657E 01	-.2398E 01	-.2773E-02	.2426E-01	.3130E 02	.7188E 01
60	.1043E-02	-.6866E 01	-.2790E 01	-.2392E-02	.4375E-02	.3856E 02	.8856E 01
65	.8342E-03	-.7089E 01	-.2801E 01	-.1792E-02	.6870E-02	.4821E 02	.1107E 02
70	.6778E-03	-.7297E 01	-.2243E 01	-.1114E-02	.7776E-02	.5933E 02	.1363E 02
75	.5807E-03	-.7451E 01	-.2341E 01	-.9329E-03	.2070E-02	.6926E 02	.1591E 02
80	.4993E-03	-.7602E 01	-.1090E 01	-.6192E-03	.3594E-02	.8055E 02	.1850E 02
85	.4452E-03	-.7717E 01	-.7629E 00	-.2233E-03	.4538E-02	.9033E 02	.2075E 02
90	.4257E-03	-.7762E 01	-.8033E 00	-.2275E-03	-.4857E-04	.9446E 02	.2170E 02
95	.4059E-03	-.7809E 01	-.1170E-01	-.2790E-05	.2575E-02	.9908E 02	.2276E 02
100	.4056E-03	-.7810E 01	.1201E 00	.2732E-04	.3490E-03	.9908E 02	.2276E 02
105	.4080E-03	-.7804E 01	-.1616E 00	-.3503E-04	-.7144E-03	.9914E 02	.2277E 02
110	.4050E-03	-.7812E 01	-.1142E 01	-.2297E-03	-.2231E-02	.9856E 02	.2264E 02
115	.3849E-03	-.7862E 01	-.3415E 00	-.6365E-04	.1903E-02	.9930E 02	.2281E 02
120	.3794E-03	-.7877E 01	.1323E 01	.2413E-03	.3496E-02	.1045E 03	.2400E 02
125	.4004E-03	-.7823E 01	.1169E 00	.2108E-04	-.2524E-02	.1060E 03	.2435E 02
130	.4022E-03	-.7818E 01	.1644E 01	.2959E-03	.3145E-02	.1004E 03	.2307E 02
135	.4280E-03	-.7756E 01	.3163E 00	.5675E-04	-.2739E-02	.9997E 02	.2296E 02
140	.4330E-03	-.7745E 01	.7719E 00	.1362E-03	.9109E-03	.9395E 02	.2158E 02
145	.4449E-03	-.7718E 01	.7990E 00	.1400E-03	.4207E-04	.9288E 02	.2133E 02
150	.4571E-03	-.7691E 01	.8261E 00	.1438E-03	.4404E-04	.9040E 02	.2076E 02
155	.4696E-03	-.7664E 01	.8532E 00	.1478E-03	.4525E-04	.8798E 02	.2021E 02
160	.4825E-03	-.7636E 01	.8803E 00	.1518E-03	.4650E-04	.8563E 02	.1967E 02
165	.4958E-03	-.7609E 01	.9074E 00	.1560E-03	.4777E-04	.8334E 02	.1914E 02
170	.5094E-03	-.7582E 01	.9345E 00	.1603E-03	.4900E-04	.8111E 02	.1863E 02
175	.5234E-03	-.7555E 01	.9616E 00	.1647E-03	.5043E-04	.7895E 02	.1813E 02
180	.5378E-03	-.7520E 01	.0000E 00	.0000E 00	.0000E 00	.7684E 02	.1765E 02

SCAT= .4021E-01 30/45= .3048E 01 45/135= .5162E 01 SCAT30-130= .9237E-02

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3492E 00	-.1052E 01	-.1999E 00	-.2168E 01	.0000E 00	.1210E 00	.3134E-01
5	.1600E 00	-.1833E 01	-.1040E 01	-.9421E 00	.1409E 02	.2642E 00	.6840E-01
10	.7779E-01	-.2554E 01	-.1632E 01	-.4315E 00	.5050E 01	.5433E 00	.1407E 00
15	.4013E-01	-.3216E 01	-.2095E 01	-.2081E 00	.2560E 01	.1053E 01	.2727E 00
20	.2197E-01	-.3818E 01	-.2439E 01	-.1059E 00	.1176E 01	.1924E 01	.4982E 00
25	.1276E-01	-.4362E 01	-.2707E 01	-.5695E-01	.5564E 00	.3313E 01	.8578E 00
30	.7788E-02	-.4855E 01	-.2971E 01	-.3280E-01	.2768E 00	.5427E 01	.1405E 01
35	.4926E-02	-.5313E 01	-.2416E 01	-.1557E-01	.1974E 00	.8580E 01	.2222E 01
40	.3568E-02	-.5636E 01	-.2882E 01	-.1177E-01	.4357E-01	.1185E 02	.3068E 01
45	.2541E-02	-.5975E 01	-.2304E 01	-.6276E-02	.6292E-01	.1663E 02	.4307E 01
50	.1993E-02	-.6218E 01	-.2470E 01	-.4790E-02	.1703E-01	.2121E 02	.5491E 01
55	.1575E-02	-.6453E 01	-.2695E 01	-.3773E-02	.1166E-01	.2683E 02	.6948E 01
60	.1246E-02	-.6688E 01	-.3020E 01	-.3066E-02	.8107E-02	.3393E 02	.8785E 01
65	.9782E-03	-.6930E 01	-.2107E 01	-.1620E-02	.1656E-01	.4321E 02	.1119E 02
70	.8368E-03	-.7086E 01	-.2530E 01	-.1536E-02	.9654E-03	.5051E 02	.1308E 02
75	.7028E-03	-.7260E 01	-.1870E 01	-.9154E-03	.7112E-02	.6014E 02	.1557E 02
80	.6229E-03	-.7381E 01	-.1448E 01	-.5998E-03	.3617E-02	.6785E 02	.1757E 02
85	.5706E-03	-.7469E 01	-.1463E 01	-.5245E-03	.8636E-03	.7408E 02	.1918E 02
90	.5248E-03	-.7553E 01	-.8034E 00	-.2556E-03	.3080E-02	.8054E 02	.2085E 02
95	.5025E-03	-.7596E 01	-.4449E-01	-.1982E-04	.2712E-02	.8411E 02	.2178E 02
100	.5008E-03	-.7599E 01	-.6876E 00	-.1893E-03	-.1952E-02	.8439E 02	.2185E 02
105	.4843E-03	-.7633E 01	-.3895E 00	-.9966E-04	.1028E-02	.8727E 02	.2260E 02
110	.4756E-03	-.7651E 01	-.6919E 00	-.1651E-03	-.7498E-03	.8887E 02	.2301E 02
115	.4612E-03	-.7682E 01	.1115E-01	.2510E-05	.1920E-02	.9164E 02	.2373E 02
120	.4614E-03	-.7681E 01	-.3343E 00	-.7167E-04	-.8501E-03	.9160E 02	.2372E 02
125	.4552E-03	-.7695E 01	.8798E 00	.1831E-03	.2920E-02	.9286E 02	.2404E 02
130	.4711E-03	-.7660E 01	.1701E 01	.3580E-03	.2804E-02	.8971E 02	.2323E 02
135	.5024E-03	-.7596E 01	-.2129E 00	-.4441E-04	-.4612E-02	.8413E 02	.2178E 02
140	.4985E-03	-.7604E 01	.5469E 00	.1107E-03	.1777E-02	.8478E 02	.2195E 02
145	.5082E-03	-.7585E 01	.5661E 00	.1128E-03	.2457E-04	.8317E 02	.2154E 02
150	.5180E-03	-.7565E 01	.5853E 00	.1150E-03	.2506E-04	.8159E 02	.2113E 02
155	.5281E-03	-.7546E 01	.6045E 00	.1172E-03	.2553E-04	.8004E 02	.2073E 02
160	.5383E-03	-.7527E 01	.6237E 00	.1195E-03	.2604E-04	.7852E 02	.2033E 02
165	.5487E-03	-.7508E 01	.6420E 00	.1218E-03	.2653E-04	.7703E 02	.1994E 02
170	.5594E-03	-.7489E 01	.6620E 00	.1242E-03	.2706E-04	.7556E 02	.1957E 02
175	.5702E-03	-.7470E 01	.6812E 00	.1266E-03	.2757E-04	.7413E 02	.1919E 02
180	.5812E-03	-.7450E 01	.0000E 00	.0000E 00	.0000E 00	.7272E 02	.1883E 02

SCAT= .4227E-01 30/45= .3065E 01 45/135= .5057E 01 SCAT30-130= .1094E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2859E 00	-.1252E 01	-.1804E 00	-.1650E 01	.0000E 00	.1496E 00	.4200E-01
5	.1412E 00	-.1958E 01	-.9470E 00	-.7785E 00	.1008E 02	.3029E 00	.8649E-01
10	.7322E-01	-.2614E 01	-.1497E 01	-.3818E 00	.4946E 01	.5840E 00	.1671E 00
15	.3990E-01	-.3222E 01	-.1939E 01	-.1955E 00	.2135E 01	.1072E 01	.3067E 00
20	.2284E-01	-.3779E 01	-.2279E 01	-.1043E 00	.1044E 01	.1872E 01	.5350E 00
25	.1373E-01	-.4288E 01	-.2602E 01	-.5944E-01	.5144E 00	.3114E 01	.8911E 00
30	.8545E-02	-.4762E 01	-.2633E 01	-.3264E-01	.3060E 00	.5004E 01	.1432E 01
35	.5694E-02	-.5168E 01	-.2866E 01	-.2075E-01	.1345E 00	.7509E 01	.2149E 01
40	.3884E-02	-.5551E 01	-.2493E 01	-.1133E-01	.1088E 00	.1101E 02	.3151E 01
45	.2895E-02	-.5845E 01	-.2644E 01	-.8873E-02	.3728E-01	.1477E 02	.4226E 01
50	.2191E-02	-.6123E 01	-.2619E 01	-.5544E-02	.2896E-01	.1952E 02	.5585E 01
55	.1707E-02	-.6373E 01	-.2473E 01	-.3787E-02	.2016E-01	.2505E 02	.7169E 01
60	.1376E-02	-.6588E 01	-.2114E 01	-.2455E-02	.1526E-01	.3106E 02	.8890E 01
65	.1162E-02	-.6757E 01	-.2023E 01	-.2514E-02	-.6711E-03	.3679E 02	.1053E 02
70	.9428E-03	-.6967E 01	-.2359E 01	-.1623E-02	.1021E-01	.4535E 02	.1298E 02
75	.8012E-03	-.7129E 01	-.2553E 01	-.1395E-02	.2611E-02	.5337E 02	.1527E 02
80	.6795E-03	-.7294E 01	-.1358E 01	-.7019E-03	.7942E-02	.6293E 02	.1801E 02
85	.6182E-03	-.7389E 01	-.1637E 01	-.6330E-03	.7893E-03	.6916E 02	.1979E 02
90	.5630E-03	-.7482E 01	-.7875E 00	-.2608E-03	.4172E-02	.7595E 02	.2173E 02
95	.5395E-03	-.7525E 01	-.1019E 00	-.3223E-04	.2712E-02	.7925E 02	.2268E 02
100	.5367E-03	-.7530E 01	-.4732E 00	-.1404E-03	-.1239E-02	.7967E 02	.2280E 02
105	.5245E-03	-.7553E 01	-.4346E 00	-.1203E-03	.2304E-03	.8153E 02	.2333E 02
110	.5140E-03	-.7573E 01	-.9854E 00	-.2524E-03	-.1514E-02	.8319E 02	.2381E 02
115	.4919E-03	-.7617E 01	.1177E 01	.2897E-03	.6212E-02	.8692E 02	.2487E 02
120	.5172E-03	-.7567E 01	.2227E 00	.5413E-04	-.2699E-02	.8267E 02	.2366E 02
125	.5219E-03	-.7558E 01	.9565E 00	.2206E-03	.2000E-02	.8192E 02	.2344E 02
130	.5419E-03	-.7520E 01	.1802E 01	.4370E-03	.2307E-02	.7891E 02	.2258E 02
135	.5800E-03	-.7452E 01	.6477E 00	.1584E-03	-.3192E-02	.7372E 02	.2110E 02
140	.5930E-03	-.7429E 01	.1071E 01	.2607E-03	.1172E-02	.7200E 02	.2061E 02
145	.6166E-03	-.7391E 01	.1109E 01	.2707E-03	.1149E-03	.6935E 02	.1985E 02
150	.6402E-03	-.7354E 01	.1147E 01	.2811E-03	.1188E-03	.6679E 02	.1911E 02
155	.6647E-03	-.7316E 01	.1184E 01	.2918E-03	.1234E-03	.6432E 02	.1841E 02
160	.6902E-03	-.7279E 01	.1222E 01	.3030E-03	.1201E-03	.6195E 02	.1773E 02
165	.7167E-03	-.7241E 01	.1259E 01	.3146E-03	.1330E-03	.5966E 02	.1707E 02
170	.7441E-03	-.7203E 01	.1297E 01	.3267E-03	.1381E-03	.5746E 02	.1644E 02
175	.7726E-03	-.7166E 01	.1335E 01	.3392E-03	.1434E-03	.5534E 02	.1584E 02
180	.8022E-03	-.7128E 01	.0000E 00	.0000E 00	.0000E 00	.5330E 02	.1525E 02

SCAT= .4276E-01 30/45= .2951E 01 45/135= .4992E 01 SCAT30-130= .1224E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2889E 00	-.1242E 01	-.1730E 00	-.1628E 01	.0000E 00	.1589E 00	.4595E-01
5	.1468E 00	-.1919E 01	-.9120E 00	-.7882E 00	.9619E 01	.3118E 00	.9041E-01
10	.7803E-01	-.2551E 01	-.1449E 01	-.3972E 00	.4481E 01	.5867E 00	.1701E 00
15	.4336E-01	-.3138E 01	-.1887E 01	-.2081E 00	.2167E 01	.1056E 01	.3061E 00
20	.2520E-01	-.3681E 01	-.2233E 01	-.1133E 00	.1087E 01	.1817E 01	.5268E 00
25	.1531E-01	-.4179E 01	-.2586E 01	-.6594E-01	.5426E 00	.2990E 01	.8670E 00
30	.9595E-02	-.4651E 01	-.2687E 01	-.3714E-01	.3301E 00	.4791E 01	.1389E 01
35	.6314E-02	-.5065E 01	-.2815E 01	-.2267E-01	.1658E 00	.7250E 01	.2102E 01
40	.4336E-02	-.5441E 01	-.2586E 01	-.1304E-01	.1103E 00	.1056E 02	.3061E 01
45	.3197E-02	-.5745E 01	-.2800E 01	-.9361E-02	.4220E-01	.1432E 02	.4151E 01
50	.2381E-02	-.6040E 01	-.2643E 01	-.6075E-02	.3765E-01	.1923E 02	.5576E 01
55	.1850E-02	-.6292E 01	-.2661E 01	-.4382E-02	.1940E-01	.2474E 02	.7173E 01
60	.1468E-02	-.6524E 01	-.2859E 01	-.3441E-02	.1079E-01	.3119E 02	.9042E 01
65	.1168E-02	-.6753E 01	-.1684E 01	-.1570E-02	.2143E-01	.3920E 02	.1137E 02
70	.1031E-02	-.6878E 01	-.2529E 01	-.1891E-02	-.3672E-02	.4442E 02	.1288E 02
75	.8656E-03	-.7052E 01	-.2167E 01	-.1295E-02	.6827E-02	.5288E 02	.1533E 02
80	.7526E-03	-.7192E 01	-.1139E 01	-.5752E-03	.8247E-02	.6082E 02	.1764E 02
85	.7024E-03	-.7261E 01	-.2910E 01	-.1234E-02	-.7544E-02	.6517E 02	.1890E 02
90	.5948E-03	-.7427E 01	-.8785E 00	-.3162E-03	.1051E-01	.7696E 02	.2232E 02
95	.5672E-03	-.7475E 01	.5011E 00	.1692E-03	.5562E-02	.8071E 02	.2340E 02
100	.5820E-03	-.7449E 01	-.1057E 01	-.3353E-03	-.5781E-02	.7866E 02	.2281E 02
105	.5527E-03	-.7501E 01	-.8458E 00	-.2444E-03	.1042E-02	.8282E 02	.2401E 02
110	.5314E-03	-.7540E 01	-.7082E 00	-.1887E-03	.6376E-03	.8615E 02	.2498E 02
115	.5149E-03	-.7571E 01	-.2271E 00	-.5679E-04	.1512E-02	.8890E 02	.2578E 02
120	.5100E-03	-.7581E 01	.7070E 00	.1713E-03	.2614E-02	.8977E 02	.2603E 02
125	.5249E-03	-.7552E 01	-.2179E 00	-.5119E-04	-.2550E-02	.8721E 02	.2529E 02
130	.5205E-03	-.7561E 01	.2737E 00	.6192E-04	.1296E-02	.8796E 02	.2550E 02
135	.5259E-03	-.7550E 01	.2008E 00	.4417E-04	-.2034E-03	.8705E 02	.2524E 02
140	.5297E-03	-.7543E 01	.1777E 00	.3797E-04	-.7104E-04	.8642E 02	.2506E 02
145	.5330E-03	-.7537E 01	.1839E 00	.3820E-04	.2723E-05	.8588E 02	.2490E 02
150	.5364E-03	-.7531E 01	.1902E 00	.3844E-04	.2737E-05	.8535E 02	.2475E 02
155	.5397E-03	-.7524E 01	.1964E 00	.3868E-04	.2756E-05	.8482E 02	.2459E 02
160	.5431E-03	-.7518E 01	.2026E 00	.3893E-04	.2768E-05	.8429E 02	.2444E 02
165	.5465E-03	-.7512E 01	.2089E 00	.3917E-04	.2798E-05	.8377E 02	.2429E 02
170	.5499E-03	-.7506E 01	.2151E 00	.3941E-04	.2803E-05	.8325E 02	.2414E 02
175	.5533E-03	-.7500E 01	.2213E 00	.3966E-04	.2821E-05	.8273E 02	.2399E 02
180	.5568E-03	-.7493E 01	.0000E 00	.0000E 00	.0000E 00	.8222E 02	.2384E 02

SCAT= .4578E-01 30/45= .2988E 01 45/135= .6080E 01 SCAT30-130= .1327E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1395E 00	-.1970E 01	-.1767E 00	-.7976E 00	.0000E 00	.1653E 00	.5262E-01
5	.6989E-01	-.2661E 01	-.9259E 00	-.3793E 00	.4793E 01	.3300E 00	.1050E 00
10	.3679E-01	-.3303E 01	-.1461E 01	-.1884E 00	.7167E 01	.6269E 00	.1995E 00
15	.2034E-01	-.3895E 01	-.1888E 01	-.9769E-01	.1040E 01	.1134E 01	.3608E 00
20	.1182E-01	-.4438E 01	-.2212E 01	-.5277E-01	[illegible]	.1951E 01	.6210E 00
25	.7214E-02	-.4932E 01	-.2465E 01	-.2992E-01	.2618E 00	.3197E 01	.1017E 01
30	.4603E-02	-.5381E 01	-.2601E 01	-.1742E-01	.1433E 00	.5010E 01	.1595E 01
35	.3083E-02	-.5782E 01	-.2748E 01	-.1089E-01	.7528E-01	.7481E 01	.2381E 01
40	.2136E-02	-.6149E 01	-.2126E 01	-.5421E-02	.6222E-01	.1080E 02	.3437E 01
45	.1663E-02	-.6399E 01	-.2723E 01	-.4792E-02	.7664E-02	.1387E 02	.4415E 01
50	.1248E-02	-.6686E 01	-.2433E 01	-.2960E-02	.2093E-01	.1848E 02	.5882E 01
55	.9896E-03	-.6918E 01	-.2020E 01	-.1827E-02	.1298E-01	.2330E 02	.7417E 01
60	.8301E-03	-.7094E 01	-.2187E 01	-.1528E-02	.3437E-02	.2778E 02	.8842E 01
65	.6968E-03	-.7269E 01	-.2783E 01	-.1488E-02	.4532E-03	.3309E 02	.1053E 02
70	.5670E-03	-.7475E 01	-.1844E 01	-.7761E-03	.8157E-02	.4067E 02	.1295E 02
75	.4993E-03	-.7602E 01	-.1616E 01	-.5667E-03	.2399E-02	.4619E 02	.1470E 02
80	.4498E-03	-.7707E 01	-.1796E 01	-.5316E-03	.4019E-03	.5127E 02	.1632E 02
85	.4034E-03	-.7816E 01	-.8200E 00	-.2117E-03	.3666E-02	.5717E 02	.1819E 02
90	.3849E-03	-.7862E 01	-.1345E 00	-.3196E-04	.2059E-02	.5991E 02	.1907E 02
95	.3822E-03	-.7870E 01	.1112E-01	.2498E-05	.3948E-03	.6035E 02	.1921E 02
100	.3824E-03	-.7869E 01	.8319E-01	.1782E-04	.1756E-03	.6031E 02	.1920E 02
105	.3839E-03	-.7865E 01	-.3003E 00	-.6104E-04	-.9037E-03	.6007E 02	.1912E 02
110	.3786E-03	-.7879E 01	-.1047E 01	-.1973E-03	-.1561E-02	.6091E 02	.1939E 02
115	.3614E-03	-.7926E 01	.7702E-01	.1360E-04	.2417E-02	.6381E 02	.2031E 02
120	.3626E-03	-.7922E 01	.4727E 00	.8095E-04	.7718E-03	.6360E 02	.2024E 02
125	.3696E-03	-.7903E 01	.7273E 00	.1226E-03	.4768E-03	.6239E 02	.1986E 02
130	.3803E-03	-.7874E 01	.1146E 01	.1926E-03	.8026E-03	.6063E 02	.1930E 02
135	.3971E-03	-.7831E 01	.3372E 00	.5614E-04	-.1564E-02	.5807E 02	.1848E 02
140	.4020E-03	-.7819E 01	.6738E 00	.1102E-03	.6197E-03	.5736E 02	.1826E 02
145	.4117E-03	-.7795E 01	.6974E 00	.1129E-03	.3023E-04	.5602E 02	.1783E 02
150	.4215E-03	-.7772E 01	.7211E 00	.1156E-03	.3094E-04	.5471E 02	.1741E 02
155	.4316E-03	-.7748E 01	.7447E 00	.1183E-03	.3168E-04	.5343E 02	.1701E 02
160	.4419E-03	-.7724E 01	.7684E 00	.1212E-03	.3244E-04	.5218E 02	.1661E 02
165	.4525E-03	-.7701E 01	.7920E 00	.1241E-03	.3322E-04	.5097E 02	.1622E 02
170	.4633E-03	-.7677E 01	.8157E 00	.1270E-03	.3401E-04	.4977E 02	.1584E 02
175	.4744E-03	-.7653E 01	.8393E 00	.1301E-03	.3483E-04	.4861E 02	.1547E 02
180	.4858E-03	-.7630E 01	.0000E 00	.0000E 00	.0000E 00	.4748E 02	.1511E 02

SCAT= .2306E-01 30/45= .2768E 01 45/135= .4186E 01 SCAT30-130= .7340E-02

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1044E 00	-.2259E 01	-.1634E 00	-.5654E 00	.0000E 00	.1898E 00	.6117E-01
5	.5507E-01	-.2899E 01	-.8652E 00	-.2846E 00	.3217E 01	.3598E 00	.1160E 00
10	.3023E-01	-.3499E 01	-.1380E 01	-.1489E 00	.1560E 01	.6554E 00	.2113E 00
15	.1727E-01	-.4059E 01	-.1807E 01	-.8022E-01	.7822E 00	.1147E 01	.3698E 00
20	.1027E-01	-.4578E 01	-.2150E 01	-.4485E-01	.4053E 00	.1929E 01	.6218E 00
25	.6358E-02	-.5058E 01	-.2526E 01	-.2689E-01	.2059E 00	.3116E 01	.1005E 01
30	.4012E-02	-.5519E 01	-.2591E 01	-.1513E-01	.1347E 00	.4939E 01	.1592E 01
35	.2691E-02	-.5918E 01	-.2448E 01	-.8597E-02	.7491E-01	.7369E 01	.2374E 01
40	.1940E-02	-.6245E 01	-.3371E 01	-.7287E-02	.1501E-01	.1021E 02	.3291E 01
45	.1305E-02	-.6642E 01	-.2130E 01	-.3006E-02	.4907E-01	.1519E 02	.4896E 01
50	.1042E-02	-.6866E 01	-.2754E 01	-.2757E-02	.2842E-02	.1901E 02	.6128E 01
55	.8016E-03	-.7129E 01	-.2095E 01	-.1531E-02	.1406E-01	.2472E 02	.7967E 01
60	.6680E-03	-.7311E 01	-.2208E 01	-.1240E-02	.3329E-02	.2966E 02	.9561E 01
65	.5598E-03	-.7488E 01	-.2260E 01	-.9890E-03	.2880E-02	.3539E 02	.1141E 02
70	.4735E-03	-.7655E 01	-.1470E 01	-.5232E-03	.5339E-02	.4184E 02	.1349E 02
75	.4278E-03	-.7757E 01	-.1939E 01	-.5766E-03	-.6129E-03	.4631E 02	.1493E 02
80	.3775E-03	-.7882E 01	-.5238E 00	-.1352E-03	.5058E-02	.5248E 02	.1692E 02
85	.3657E-03	-.7914E 01	-.9077E 00	-.2119E-03	-.8784E-03	.5418E 02	.1746E 02
90	.3472E-03	-.7966E 01	-.1421E 00	-.3045E-04	.2079E-02	.5706E 02	.1839E 02
95	.3446E-03	-.7973E 01	.6670E 00	.1374E-03	.1924E-02	.5750E 02	.1854E 02
100	.3566E-03	-.7939E 01	.7869E 00	.1599E-03	.2576E-03	.5557E 02	.1791E 02
105	.3705E-03	-.7901E 01	-.3684E 00	-.7215E-04	-.2659E-02	.5347E 02	.1724E 02
110	.3642E-03	-.7918E 01	-.8189E 00	-.1492E-03	-.8828E-03	.5440E 02	.1754E 02
115	.3512E-03	-.7954E 01	.1733E 01	.3081E-03	.5240E-02	.5642E 02	.1819E 02
120	.3781E-03	-.7880E 01	.5892E 00	.1055E-03	-.2322E-02	.5240E 02	.1689E 02
125	.3873E-03	-.7856E 01	.3665E 00	.6425E-04	-.4725E-03	.5116E 02	.1649E 02
130	.3929E-03	-.7842E 01	.3051E 01	.5495E-03	.5560E-02	.5043E 02	.1626E 02
135	.4408E-03	-.7727E 01	.6657E 00	.1230E-03	-.4870E-02	.4494E 02	.1449E 02
140	.4516E-03	-.7703E 01	.1405E 01	.2616E-03	.1579E-02	.4387E 02	.1414E 02
145	.4745E-03	-.7653E 01	.1454E 01	.2748E-03	.1515E-03	.4176E 02	.1346E 02
150	.4985E-03	-.7604E 01	.1504E 01	.2887E-03	.1591E-03	.3975E 02	.1281E 02
155	.5236E-03	-.7555E 01	.1553E 01	.3033E-03	.1672E-03	.3784E 02	.1220E 02
160	.5501E-03	-.7505E 01	.1602E 01	.3186E-03	.1756E-03	.3602E 02	.1161E 02
165	.5779E-03	-.7456E 01	.1651E 01	.3347E-03	.1845E-03	.3428E 02	.1105E 02
170	.6071E-03	-.7407E 01	.1701E 01	.3516E-03	.1938E-03	.3263E 02	.1052E 02
175	.6378E-03	-.7357E 01	.1750E 01	.3694E-03	.2036E-03	.3106E 02	.1001E 02
180	.6700E-03	-.7308E 01	.0000E 00	.0000E 00	.0000E 00	.2957E 02	.9532E 01

SCAT= .1981E-01 30/45= .3075E 01 45/135= .2959E 01 SCAT30-130= .6307E-02

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2939E 00	-.1225E 01	-.1885E 00	-.1756E 01	.0000E 00	.1378E 00	.3043E-01
5	.1406E 00	-.1962E 01	-.9849E 00	-.7972E 00	.1099E 02	.2081E 00	.8031E-01
10	.7105E-01	-.2644E 01	-.1550E 01	-.3798E 00	.4783E 01	.5701E 00	.1589E 00
15	.3791E-01	-.3273E 01	-.1995E 01	-.1897E 00	.2179E 01	.1069E 01	.2979E 00
20	.2135E-01	-.3847E 01	-.2328E 01	-.9914E-01	.1037E 01	.1897E 01	.5289E 00
25	.1270E-01	-.4366E 01	-.2673E 01	-.5614E-01	.4928E 00	.3109E 01	.8891E 00
30	.7803E-02	-.4853E 01	-.2695E 01	-.3040E-01	.2950E 00	.5191E 01	.1447E 01
35	.5150E-02	-.5269E 01	-.2513E 01	-.1682E-01	.1556E 00	.7865E 01	.2193E 01
40	.3682E-02	-.5604E 01	-.2995E 01	-.1254E-01	.4909E-01	.1100E 02	.3067E 01
45	.2588E-02	-.5957E 01	-.2060E 01	-.5787E-02	.7740E-01	.1565E 02	.4364E 01
50	.2083E-02	-.6174E 01	-.2656E 01	-.5337E-02	.5151E-02	.1945E 02	.5422E 01
55	.1617E-02	-.6427E 01	-.2528E 01	-.3659E-02	.1923E-01	.2505E 02	.6983E 01
60	.1298E-02	-.6647E 01	-.2555E 01	-.2750E-02	.1041E-01	.3121E 02	.8702E 01
65	.1058E-02	-.6852E 01	-.2557E 01	-.2093E-02	.7533E-02	.3829E 02	.1068E 02
70	.8752E-03	-.7041E 01	-.2142E 01	-.1378E-02	.8191E-02	.4628E 02	.1290E 02
75	.7549E-03	-.7189E 01	-.2731E 01	-.1398E-02	-.2290E-03	.5366E 02	.1496E 02
80	.6329E-03	-.7365E 01	-.1286E 01	-.5439E-03	.9787E-02	.6400E 02	.1784E 02
85	.5855E-03	-.7443E 01	-.1966E 01	-.7132E-03	-.1940E-02	.6919E 02	.1929E 02
90	.5232E-03	-.7555E 01	.6221E-01	.2020E-04	.8404E-02	.7741E 02	.2158E 02
95	.5250E-03	-.7552E 01	-.1385E 01	-.4125E-03	-.4958E-02	.7715E 02	.2151E 02
100	.4890E-03	-.7623E 01	.2161E 00	.5940E-04	.5408E-02	.8283E 02	.2309E 02
105	.4942E-03	-.7613E 01	-.1093E 01	-.2808E-03	-.3098E-02	.8197E 02	.2285E 02
110	.4697E-03	-.7663E 01	-.4779E 00	-.1130E-03	.1923E-02	.8624E 02	.2404E 02
115	.4598E-03	-.7685E 01	-.2747E 00	-.6124E-04	.5930E-03	.8809E 02	.2456E 02
120	.4545E-03	-.7696E 01	.2477E 00	.5292E-04	.1308E-02	.8913E 02	.2485E 02
125	.4581E-03	-.7688E 01	.1576E 01	.3355E-03	.3238E-02	.8823E 02	.2460E 02
130	.4884E-03	-.7624E 01	.1422E 01	.3086E-03	-.3082E-03	.8294E 02	.2312E 02
135	.5153E-03	-.7571E 01	.2621E 00	.5655E-04	-.2888E-02	.7861E 02	.2192E 02
140	.5202E-03	-.7561E 01	.8540E 00	.1814E-03	.1430E-02	.7786E 02	.2171E 02
145	.5361E-03	-.7531E 01	.8840E 00	.1869E-03	.6322E-04	.7556E 02	.2107E 02
150	.5524E-03	-.7501E 01	.9139E 00	.1926E-03	.6515E-04	.7333E 02	.2044E 02
155	.5692E-03	-.7471E 01	.9439E 00	.1984E-03	.6712E-04	.7117E 02	.1984E 02
160	.5865E-03	-.7441E 01	.9739E 00	.2044E-03	.6917E-04	.6907E 02	.1926E 02
165	.6043E-03	-.7411E 01	.1004E 01	.2107E-03	.7127E-04	.6703E 02	.1869E 02
170	.6227E-03	-.7381E 01	.1034E 01	.2171E-03	.7343E-04	.6505E 02	.1814E 02
175	.6417E-03	-.7351E 01	.1064E 01	.2237E-03	.7567E-04	.6313E 02	.1760E 02
180	.6612E-03	-.7321E 01	.0000E 00	.0000E 00	.0000E 00	.6126E 02	.1708E 02

SCAT= .4051E-01 30/45= .3019E 01 45/135= .5022E 01 SCAT30-130= .1129E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1077E 00	-.2228E 01	-.1799E 00	-.6234E 00	.0000E 00	.1669E 00	.5407E-01
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	.5056E-03	-.7590E 01	.1275E 01	.2318E-03	.1022E-03	.3555E 02	.1152E 02
165	.5258E-03	-.7551E 01	.1314E 01	.2411E-03	.1062E-03	.3418E 02	.1108E 02
170	.5469E-03	-.7511E 01	.1353E 01	.2507E-03	.1105E-03	.3287E 02	.1065E 02
175	.5687E-03	-.7472E 01	.1392E 01	.2607E-03	.1149E-03	.3160E 02	.1024E 02
180	.5915E-03	-.7433E 01	.0000E 00	.0000E 00	.0000E 00	.3039E 02	.9846E 01

SCAT= .1797E-01 30/45= .2842E 01 45/135= .2787E 01 SCAT30-130= .5824E-02

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2762E 00	-.1287E 01	-.1898E 00	-.1658E 01	.0000E 00	.1339E 00	.3599E-01
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	.6068E-03	-.7407E 01	.1120E 01	.2457E-03	.9600E-04	.6094E 02	.1638E 02
165	.6282E-03	-.7373E 01	.1163E 01	.2544E-03	.9948E-04	.5886E 02	.1582E 02
170	.6504E-03	-.7338E 01	.1198E 01	.2634E-03	.1030E-03	.5685E 02	.1528E 02
175	.6734E-03	-.7303E 01	.1233E 01	.2727E-03	.1066E-03	.5491E 02	.1476E 02
180	.6972E-03	-.7268E 01	.0000E 00	.0000E 00	.0000E 00	.5304E 02	.1426E 02

SCAT= .3698E-01 30/45= .3072E 01 45/135= .4374E 01 SCAT30-130= .9941E-02

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2614E 00	-.1342E 01	-.1967E 00	-.1607E 01	.0000E 00	.1232E 00	.3133E-01
5	.1211E 00	-.2111E 01	-.1029E 01	-.7070E 00	.1031E 02	.2659E 00	.6761E-01
10	.5934E-01	-.2825E 01	-.1622E 01	-.3277E 00	.4396E 01	.5426E 00	.1380E 00
15	.3074E-01	-.3482E 01	-.2092E 01	-.1593E 00	.1929E 01	.1047E 01	.2663E 00
20	.1684E-01	-.4084E 01	-.2446E 01	-.8119E-01	.8948E 00	.1912E 01	.4861E 00
25	.9757E-02	-.4630E 01	-.2732E 01	-.4386E-01	.4270E 00	.3300E 01	.8391E 00
30	.5929E-02	-.5128E 01	-.3076E 01	-.2566E-01	.2086E 00	.5430E 01	.1381E 01
35	.3690E-02	-.5602E 01	-.2596E 01	-.1239E-01	.1527E 00	.8724E 01	.2218E 01
40	.2609E-02	-.5949E 01	-.2673E 01	-.8076E-02	.4941E-01	.1234E 02	.3137E 01
45	.1905E-02	-.6263E 01	-.2796E 01	-.5569E-02	.2872E-01	.1690E 02	.4298E 01
50	.1419E-02	-.6558E 01	-.2891E 01	-.3916E-02	.1895E-01	.2269E 02	.5771E 01
55	.1077E-02	-.6834E 01	-.2208E 01	-.2157E-02	.2019E-01	.2990E 02	.7602E 01
60	.8887E-03	-.7026E 01	-.2438E 01	-.1805E-02	.4030E-02	.3623E 02	.9212E 01
65	.7311E-03	-.7221E 01	-.2296E 01	-.1311E-02	.5666E-02	.4404E 02	.1120E 02
70	.6167E-03	-.7391E 01	-.2371E 01	-.1066E-02	.2804E-02	.5220E 02	.1328E 02
75	.5237E-03	-.7555E 01	-.1847E 01	-.6743E-03	.4492E-02	.6148E 02	.1563E 02
80	.4648E-03	-.7674E 01	-.1373E 01	-.4255E-03	.2851E-02	.6926E 02	.1761E 02
85	.4277E-03	-.7757E 01	-.1231E 01	-.3331E-03	.1059E-02	.7528E 02	.1914E 02
90	.3984E-03	-.7827E 01	-.1011E 01	-.2430E-03	.1032E-02	.8077E 02	.2054E 02
95	.3774E-03	-.7882E 01	.7512E 00	.1699E-03	.4732E-02	.8531E 02	.2169E 02
100	.3922E-03	-.7844E 01	-.5084E-01	-.1113E-04	-.2075E-02	.8208E 02	.2087E 02
105	.3913E-03	-.7846E 01	-.1390E 00	-.2891E-04	-.2036E-03	.8228E 02	.2092E 02
110	.3887E-03	-.7853E 01	-.9751E 00	-.1890E-03	-.1834E-02	.8282E 02	.2106E 02
115	.3723E-03	-.7896E 01	-.6161E-01	-.1117E-04	.2037E-02	.8649E 02	.2199E 02
120	.3713E-03	-.7899E 01	.7646E 00	.1349E-03	.1674E-02	.8671E 02	.2205E 02
125	.3831E-03	-.7867E 01	.1109E 01	.1952E-03	.6907E-03	.8405E 02	.2137E 02
130	.4001E-03	-.7824E 01	.1426E 01	.2535E-03	.6608E-03	.8047E 02	.2046E 02
135	.4222E-03	-.7770E 01	.5012E 00	.8899E-04	-.1885E-02	.7625E 02	.1939E 02
140	.4300E-03	-.7752E 01	.9304E 00	.1635E-03	.8540E-03	.7488E 02	.1904E 02
145	.4442E-03	-.7719E 01	.9630E 00	.1689E-03	.6219E-04	.7247E 02	.1843E 02
150	.4590E-03	-.7686E 01	.9957E 00	.1746E-03	.6425E-04	.7014E 02	.1784E 02
155	.4742E-03	-.7654E 01	.1028E 01	.1803E-03	.6639E-04	.6789E 02	.1726E 02
160	.4900E-03	-.7621E 01	.1061E 01	.1863E-03	.6858E-04	.6571E 02	.1671E 02
165	.5062E-03	-.7589E 01	.1094E 01	.1925E-03	.7086E-04	.6360E 02	.1617E 02
170	.5230E-03	-.7556E 01	.1126E 01	.1989E-03	.7321E-04	.6156E 02	.1565E 02
175	.5404E-03	-.7523E 01	.1159E 01	.2055E-03	.7564E-04	.5958E 02	.1515E 02
180	.5583E-03	-.7491E 01	.0000E 00	.0000E 00	.0000E 00	.5767E 02	.1466E 02

SCAT= .3220E-01 30/45= .3113E 01 45/135= .4511E 01 SCAT30-130= .8187E-02

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.5034E 00	-.6865E 00	-.2306E 00	-.3427E 01	.0000E 00	.8814E-01	.1907E-01
5	.2043E 00	-.1588E 01	-.1192E 01	-.1316E 01	.2419E 02	.2172E 00	.4699E-01
10	.8940E-01	-.2415E 01	-.1852E 01	-.5410E 00	.8884E 01	.4963E 00	.1074E 00
15	.4219E-01	-.3166E 01	-.2349E 01	-.2374E 00	.3479E 01	.1052E 01	.2276E 00
20	.2146E-01	-.3841E 01	-.2690E 01	-.1110E 00	.1449E 01	.2067E 01	.4472E 00
25	.1178E-01	-.4442E 01	-.3064E 01	-.5776E-01	.6102E 00	.3767E 01	.8151E 00
30	.6736E-02	-.5000E 01	-.2736E 01	-.2656E-01	.3576E 00	.6586E 01	.1425E 01
35	.4418E-02	-.5422E 01	-.2694E 01	-.1530E-01	.1291E 00	.1004E 02	.2173E 01
40	.3083E-02	-.5782E 01	-.3415E 01	-.1170E-01	.4122E-01	.1439E 02	.3113E 01
45	.2062E-02	-.6184E 01	-.1311E 01	-.3048E-02	.9915E-01	.2151E 02	.4655E 01
50	.1796E-02	-.6322E 01	-.2923E 01	-.5804E-02	-.2242E-01	.2470E 02	.5344E 01
55	.1359E-02	-.6601E 01	-.2572E 01	-.3123E-02	.2156E-01	.3263E 02	.7061E 01
60	.1087E-02	-.6824E 01	-.2604E 01	-.2345E-02	.8921E-02	.4082E 02	.8832E 01
65	.8823E-03	-.7033E 01	-.2695E 01	-.1830E-02	.5895E-02	.5028E 02	.1088E 02
70	.7226E-03	-.7233E 01	-.1554E 01	-.8419E-03	.1133E-01	.6140E 02	.1328E 02
75	.6491E-03	-.7340E 01	-.1873E 01	-.8470E-03	-.5793E-04	.6835E 02	.1479E 02
80	.5752E-03	-.7461E 01	-.1940E 01	-.7315E-03	.1323E-02	.7713E 02	.1669E 02
85	.5114E-03	-.7578E 01	-.2030E 01	-.6421E-03	.1024E-02	.8676E 02	.1877E 02
90	.4553E-03	-.7694E 01	-.9904E 00	-.2721E-03	.4240E-02	.9743E 02	.2108E 02
95	.4316E-03	-.7748E 01	-.9090E-01	-.2301E-04	.2854E-02	.1028E 03	.2224E 02
100	.4296E-03	-.7753E 01	.8507E-01	.2048E-04	.4983E-03	.1033E 03	.2235E 02
105	.4314E-03	-.7749E 01	-.1320E 00	-.3027E-04	-.5814E-03	.1028E 03	.2225E 02
110	.4287E-03	-.7755E 01	-.1184E 01	-.2519E-03	-.2539E-02	.1035E 03	.2239E 02
115	.4068E-03	-.7807E 01	.4637E 00	.9290E-04	.3951E-02	.1091E 03	.2360E 02
120	.4149E-03	-.7788E 01	.9419E-01	.1831E-04	-.8947E-03	.1069E 03	.2314E 02
125	.4169E-03	-.7784E 01	.3341E 00	.6295E-04	.5115E-03	.1069E 03	.2309E 02
130	.4220E-03	-.7771E 01	.2996E 01	.5788E-03	.5911E-02	.1051E 03	.2275E 02
135	.4725E-03	-.7658E 01	-.2051E 00	-.4024E-04	-.7094E-02	.9390E 02	.2032E 02
140	.4690E-03	-.7665E 01	.9017E 00	.1727E-03	.2441E-02	.9461E 02	.2047E 02
145	.4840E-03	-.7633E 01	.9333E 00	.1783E-03	.6363E-04	.9166E 02	.1983E 02
150	.4996E-03	-.7602E 01	.9649E 00	.1840E-03	.6568E-04	.8880E 02	.1921E 02
155	.5156E-03	-.7570E 01	.9966E 00	.1899E-03	.6779E-04	.8604E 02	.1862E 02
160	.5322E-03	-.7538E 01	.1028E 01	.1961E-03	.6997E-04	.8336E 02	.1804E 02
165	.5493E-03	-.7507E 01	.1060E 01	.2024E-03	.7222E-04	.8076E 02	.1747E 02
170	.5670E-03	-.7475E 01	.1092E 01	.2089E-03	.7454E-04	.7825E 02	.1693E 02
175	.5852E-03	-.7444E 01	.1123E 01	.2156E-03	.7693E-04	.7581E 02	.1640E 02
180	.6040E-03	-.7412E 01	.0000E 00	.0000E 00	.0000E 00	.7345E 02	.1589E 02

SCAT= .4437E-01 30/45= .3266E 01 45/135= .4365E 01 SCAT30-130= .9599E-02

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.7420E-01	-.2601E 01	-.1604E 00	-.3962E 00	.0000E 00	.2094E 00	.7385E-01
5	.3962E-01	-.3228E 01	-.8459E 00	-.2014E 00	.2232E 01	.3920E 00	.1383E 00
10	.2204E-01	-.3815E 01	-.1345E 01	-.1062E 00	.1091E 01	.7047E 00	.2486E 00
15	.1278E-01	-.4360E 01	-.1753E 01	-.5800E-01	.5522E 00	.1216E 01	.4289E 00
20	.7717E-02	-.4864E 01	-.2076E 01	-.3279E-01	.2889E 00	.2013E 01	.7101E 00
25	.4855E-02	-.5328E 01	-.2369E 01	-.1951E-01	.1521E 00	.3199E 01	.1129E 01
30	.3153E-02	-.5760E 01	-.2534E 01	-.1168E-01	.8977E-01	.4928E 01	.1738E 01
35	.2133E-02	-.6150E 01	-.2256E 01	-.6359E-02	.6098E-01	.7282E 01	.2569E 01
40	.1578E-02	-.6451E 01	-.3088E 01	-.5503E-02	.9811E-02	.9842E 01	.3472E 01
45	.1098E-02	-.6814E 01	-.2055E 01	-.2450E-02	.3498E-01	.1415E 02	.4991E 01
50	.8843E-03	-.7031E 01	-.2334E 01	-.2021E-02	.4914E-02	.1757E 02	.6197E 01
55	.7079E-03	-.7253E 01	-.2567E 01	-.1624E-02	.4554E-02	.2194E 02	.7741E 01
60	.5662E-03	-.7477E 01	-.1813E 01	-.8765E-03	.8565E-02	.2744E 02	.9679E 01
65	.4897E-03	-.7622E 01	-.1924E 01	-.7455E-03	.1500E-02	.3172E 02	.1119E 02
70	.4246E-03	-.7764E 01	-.2219E 01	-.6908E-03	.4274E-03	.3658E 02	.1291E 02
75	.3643E-03	-.7917E 01	-.1020E 01	-.2660E-03	.4868E-02	.4264E 02	.1504E 02
80	.3411E-03	-.7983E 01	-.5529E 00	-.1209E-03	.1571E-02	.4554E 02	.1606E 02
85	.3299E-03	-.8017E 01	-.7377E 00	-.1561E-03	-.3120E-03	.4709E 02	.1661E 02
90	.3163E-03	-.8059E 01	-.3371E 00	-.6545E-04	.1039E-02	.4912E 02	.1733E 02
95	.3105E-03	-.8077E 01	.1703E 01	.3247E-03	.4471E-02	.5002E 02	.1765E 02
100	.3389E-03	-.7990E 01	.4935E 00	.9464E-04	-.2637E-02	.4584E 02	.1617E 02
105	.3471E-03	-.7966E 01	-.6213E 00	-.1133E-03	-.2303E-02	.4475E 02	.1579E 02
110	.3373E-03	-.7995E 01	-.4711E 00	-.8808E-04	.3808E-03	.4606E 02	.1625E 02
115	.3303E-03	-.8016E 01	.5032E 00	.9511E-04	.2008E-02	.4704E 02	.1659E 02
120	.3386E-03	-.7991E 01	.8339E 00	.1343E-03	.4495E-03	.4588E 02	.1619E 02
125	.3503E-03	-.7957E 01	.5343E 00	.8501E-04	-.5653E-03	.4435E 02	.1564E 02
130	.3577E-03	-.7936E 01	.2250E 01	.3646E-03	.3204E-02	.4343E 02	.1532E 02
135	.3895E-03	-.7851E 01	.4834E 00	.7914E-04	-.3271E-02	.3988E 02	.1407E 02
140	.3964E-03	-.7833E 01	.1097E 01	.1703E-03	.1136E-02	.3918E 02	.1382E 02
145	.4120E-03	-.7795E 01	.1136E 01	.1853E-03	.8020E-04	.3770E 02	.1330E 02
150	.4282E-03	-.7756E 01	.1174E 01	.1926E-03	.8335E-04	.3628E 02	.1280E 02
155	.4450E-03	-.7718E 01	.1213E 01	.2001E-03	.8661E-04	.3491E 02	.1232E 02
160	.4624E-03	-.7679E 01	.1251E 01	.2080E-03	.9003E-04	.3359E 02	.1185E 02
165	.4806E-03	-.7641E 01	.1290E 01	.2162E-03	.9359E-04	.3232E 02	.1140E 02
170	.4994E-03	-.7602E 01	.1328E 01	.2246E-03	.9722E-04	.3110E 02	.1097E 02
175	.5191E-03	-.7564E 01	.1367E 01	.2335E-03	.1010E-03	.2993E 02	.1056E 02
180	.5394E-03	-.7525E 01	.0000E 00	.0000E 00	.0000E 00	.2880E 02	.1016E 02

SCAT= .1553E-01 30/45= .2071E 01 45/135= .2819E 01 SCAT30-130= .5480E-02

CH42/41 1430H 17164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2879E 00	-.1245E 01	-.1940E 00	-.1754E 01	.0000E 00	.1307E 00	.3586E-01
5	.1348E 00	-.2004E 01	-.1011E 01	-.7784E 00	.1118E 02	.2791E 00	.7657E-01
10	.6687E-01	-.2705E 01	-.1587E 01	-.3636E 00	.4754E 01	.5627E 00	.1544E 00
15	.3514E-01	-.3348E 01	-.2036E 01	-.1785E 00	.2121E 01	.1071E 01	.2937E 00
20	.1956E-01	-.3934E 01	-.2367E 01	-.9197E-01	.9918E 00	.1924E 01	.5277E 00
25	.1153E-01	-.4463E 01	-.2721E 01	-.5168E-01	.4617E 00	.3263E 01	.8950E 00
30	.7023E-02	-.4959E 01	-.2711E 01	-.2749E-01	.2772E 00	.5358E 01	.1470E 01
35	.4624E-02	-.5377E 01	-.2573E 01	-.1540E-01	.1385E 00	.8138E 01	.2232E 01
40	.3280E-02	-.5720E 01	-.2856E 01	-.1073E-01	.5352E-01	.1147E 02	.3147E 01
45	.2343E-02	-.6056E 01	-.2105E 01	-.5340E-02	.6181E-01	.1606E 02	.4406E 01
50	.1877E-02	-.6278E 01	-.2868E 01	-.5144E-02	.2240E-02	.2005E 02	.5499E 01
55	.1428E-02	-.6552E 01	-.2206E 01	-.2858E-02	.2620E-01	.2635E 02	.7228E 01
60	.1179E-02	-.6743E 01	-.2692E 01	-.2618E-02	.2750E-02	.3193E 02	.8758E 01
65	.9501E-03	-.6959E 01	-.2226E 01	-.1656E-02	.1103E-01	.3961E 02	.1086E 02
70	.8056E-03	-.7124E 01	-.2180E 01	-.1289E-02	.4200E-02	.4671E 02	.1281E 02
75	.6931E-03	-.7274E 01	-.2153E 01	-.1030E-02	.2965E-02	.5429E 02	.1489E 02
80	.6032E-03	-.7413E 01	-.1791E 01	-.7112E-03	.3650E-02	.6238E 02	.1711E 02
85	.5411E-03	-.7522E 01	-.6894E 00	-.2396E-03	.5405E-02	.6954E 02	.1908E 02
90	.5202E-03	-.7561E 01	-.1263E 01	-.3936E-03	-.1765E-02	.7234E 02	.1984E 02
95	.4858E-03	-.7630E 01	.3724E-02	.1064E-05	.4522E-02	.7745E 02	.2124E 02
100	.4859E-03	-.7629E 01	-.5656E 00	-.1516E-03	-.1749E-02	.7743E 02	.2124E 02
105	.4727E-03	-.7657E 01	-.6556E 00	-.1627E-03	-.1276E-03	.7960E 02	.2183E 02
110	.4585E-03	-.7688E 01	-.2574E 00	-.5978E-04	.1179E-02	.8207E 02	.2251E 02
115	.4533E-03	-.7699E 01	-.1249E 00	-.2755E-04	.3693E-03	.8301E 02	.2277E 02
120	.4509E-03	-.7704E 01	-.2589E 00	-.5433E-04	-.3069E-03	.8345E 02	.2289E 02
125	.4461E-03	-.7715E 01	.9904E 00	.2025E-03	.2043E-02	.8434E 02	.2313E 02
130	.4638E-03	-.7676E 01	.1672E 01	.3462E-03	.1647E-02	.8113E 02	.2225E 02
135	.4940E-03	-.7613E 01	-.1928E 00	-.3956E-04	-.4421E-02	.7617E 02	.2089E 02
140	.4906E-03	-.7620E 01	.5710E 00	.1138E-03	.1757E-02	.7670E 02	.2104E 02
145	.5005E-03	-.7600E 01	.5910E 00	.1161E-03	.2630E-04	.7518E 02	.2062E 02
150	.5106E-03	-.7580E 01	.6111E 00	.1184E-03	.2693E-04	.7369E 02	.2021E 02
155	.5210E-03	-.7560E 01	.6311E 00	.1208E-03	.2746E-04	.7223E 02	.1981E 02
160	.5315E-03	-.7540E 01	.6511E 00	.1233E-03	.2802E-04	.7079E 02	.1942E 02
165	.5423E-03	-.7520E 01	.6712E 00	.1258E-03	.2859E-04	.6939E 02	.1903E 02
170	.5532E-03	-.7500E 01	.6912E 00	.1283E-03	.2917E-04	.6801E 02	.1866E 02
175	.5644E-03	-.7480E 01	.7112E 00	.1309E-03	.2975E-04	.6666E 02	.1829E 02
180	.5759E-03	-.7460E 01	.0000E 00	.0000E 00	.0000E 00	.6534E 02	.1792E 02

SCAT= .3763E-01 30/45= .2998E 01 45/135= .4742E 01 SCAT30-130= .1032E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.6914E 00	-.3691E 00	-.2262E 00	-.4652E 01	.0000E 00	.8918E-01	.1848E-01
5	.2894E 00	-.1240E 01	-.1174E 01	-.1821E 01	.3243E 02	.2160E 00	.4477E-01
10	.1265E 00	-.2068E 01	-.1833E 01	-.7600E 00	.1216E 02	.4875E 00	.1010E 00
15	.6015E-01	-.2811E 01	-.2338E 01	-.3374E 00	.4842E 01	.1025E 01	.2124E 00
20	.3070E-01	-.3483E 01	-.2697E 01	-.1591E 00	.2044E 01	.2008E 01	.4162E 00
25	.1682E-01	-.4085E 01	-.3027E 01	-.8174E-01	.8861E 00	.3665E 01	.7596E 00
30	.9687E-02	-.4637E 01	-.2981E 01	-.4100E-01	.4469E 00	.6364E 01	.1319E 01
35	.6109E-02	-.5098E 01	-.3104E 01	-.2376E-01	.1976E 00	.1009E 02	.2091E 01
40	.4036E-02	-.5512E 01	-.2380E 01	-.1131E-01	.1427E 00	.1528E 02	.3166E 01
45	.3049E-02	-.5793E 01	-.2646E 01	-.8556E-02	.3153E-01	.2022E 02	.4190E 01
50	.2303E-02	-.6074E 01	-.2710E 01	-.6006E-02	.2922E-01	.2678E 02	.5549E 01
55	.1778E-02	-.6332E 01	-.2672E 01	-.4228E-02	.2038E-01	.3467E 02	.7184E 01
60	.1410E-02	-.6565E 01	-.2650E 01	-.3096E-02	.1298E-01	.4374E 02	.9065E 01
65	.1139E-02	-.6777E 01	-.1684E 01	-.1531E-02	.1798E-01	.5411E 02	.1121E 02
70	.1006E-02	-.6902E 01	-.2720E 01	-.1972E-02	-.5049E-02	.6130E 02	.1270E 02
75	.8336E-03	-.7090E 01	-.2316E 01	-.1326E-02	.7402E-02	.7396E 02	.1533E 02
80	.7179E-03	-.7239E 01	-.2196E 01	-.1025E-02	.3448E-02	.8588E 02	.1780E 02
85	.6284E-03	-.7372E 01	-.1488E 01	-.5872E-03	.5028E-02	.9811E 02	.2033E 02
90	.5772E-03	-.7457E 01	-.6707E 00	-.2355E-03	.4030E-02	.1068E 03	.2214E 02
95	.5566E-03	-.7494E 01	-.1987E 00	-.6668E-04	.1958E-02	.1108E 03	.2295E 02
100	.5510E-03	-.7504E 01	-.4727E 00	-.1439E-03	-.9093E-03	.1119E 03	.2319E 02
105	.5384E-03	-.7527E 01	-.1591E 01	-.4403E-03	-.3396E-02	.1145E 03	.2373E 02
110	.5000E-03	-.7601E 01	-.3375E 00	-.8532E-04	.4068E-02	.1233E 03	.2555E 02
115	.4926E-03	-.7616E 01	.2846E 00	.6877E-04	.1766E-02	.1252E 03	.2594E 02
120	.4986E-03	-.7604E 01	.4803E 00	.1131E-03	.5003E-03	.1237E 03	.2563E 02
125	.5084E-03	-.7584E 01	.9434E 00	.1255E-03	.1410E-03	.1213E 03	.2513E 02
130	.5194E-03	-.7563E 01	.1532E 01	.3471E-03	.2539E-02	.1187E 03	.2460E 02
135	.5497E-03	-.7506E 01	.3042E 00	.7006E-04	-.3175E-02	.1122E 03	.2325E 02
140	.5558E-03	-.7495E 01	.7418E 00	.1600E-03	.1122E-02	.1109E 03	.2298E 02
145	.5704E-03	-.7469E 01	.7670E 00	.1724E-03	.5076E-04	.1081E 03	.2240E 02
150	.5855E-03	-.7443E 01	.7930E 00	.1769E-03	.5210E-04	.1053E 03	.2182E 02
155	.6009E-03	-.7417E 01	.8190E 00	.1816E-03	.5346E-04	.1026E 03	.2126E 02
160	.6168E-03	-.7391E 01	.8459E 00	.1864E-03	.5480E-04	.9996E 02	.2072E 02
165	.6330E-03	-.7365E 01	.8719E 00	.1913E-03	.5635E-04	.9739E 02	.2018E 02
170	.6497E-03	-.7339E 01	.8980E 00	.1963E-03	.5780E-04	.9489E 02	.1967E 02
175	.6669E-03	-.7313E 01	.9240E 00	.2015E-03	.5934E-04	.9245E 02	.1916E 02
180	.6845E-03	-.7287E 01	.0000E 00	.0000E 00	.0000E 00	.9008E 02	.1867E 02

SCAT= .6165E-01 30/45= .3177E 01 45/135= .5548E 01 SCAT30-130= .1278E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.4554E 00	-.7865E 00	-.2196E 00	-.3008E 01	.0000E 00	.9467E-01	.1986E-01
5	.1929E 00	-.1646E 01	-.1144E 01	-.1210E 01	.2060E 02	.2235E 00	.4688E-01
10	.8729E-01	-.2439E 01	-.1793E 01	-.5168E 00	.7948E 01	.4939E 00	.1036E 00
15	.4219E-01	-.3165E 01	-.2297E 01	-.2338E 00	.3242E 01	.1022E 01	.2143E 00
20	.2179E-01	-.3826E 01	-.2666E 01	-.1119E 00	.1397E 01	.1979E 01	.4151E 00
25	.1202E-01	-.4421E 01	-.3048E 01	-.5872E-01	.6099E 00	.3588E 01	.7524E 00
30	.6894E-02	-.4977E 01	-.2885E 01	-.2836E-01	.3479E 00	.6254E 01	.1312E 01
35	.4419E-02	-.5422E 01	-.3181E 01	-.1752E-01	.1242E 00	.9758E 01	.2046E 01
40	.2889E-02	-.5847E 01	-.2815E 01	-.9344E-02	.9373E-01	.1492E 02	.3130E 01
45	.2074E-02	-.6178E 01	-.2487E 01	-.5479E-02	.4429E-01	.2079E 02	.4360E 01
50	.1596E-02	-.6440E 01	-.2827E 01	-.4319E-02	.1330E-01	.2702E 02	.5666E 01
55	.1219E-02	-.6710E 01	-.2294E 01	-.2528E-02	.2053E-01	.3537E 02	.7419E 01
60	.9983E-03	-.6909E 01	-.3051E 01	-.2479E-02	.5593E-03	.4319E 02	.9058E 01
65	.7820E-03	-.7154E 01	-.2021E 01	-.1247E-02	.1412E-01	.5514E 02	.1156E 02
70	.6732E-03	-.7303E 01	-.2664E 01	-.1295E-02	-.5586E-03	.6405E 02	.1343E 02
75	.5602E-03	-.7487E 01	-.2041E 01	-.7923E-03	.5763E-02	.7697E 02	.1614E 02
80	.4910E-03	-.7619E 01	-.1381E 01	-.4519E-03	.3901E-02	.8781E 02	.1842E 02
85	.4516E-03	-.7703E 01	-.1590E 01	-.4494E-03	.2885E-04	.9548E 02	.2002E 02
90	.4124E-03	-.7794E 01	-.1045E 01	-.2596E-03	.2176E-02	.1046E 03	.2193E 02
95	.3897E-03	-.7850E 01	.4823E-01	.1106E-04	.3101E-02	.1106E 03	.2320E 02
100	.3907E-03	-.7848E 01	.2027E 00	.4450E-04	.3832E-03	.1104E 03	.2315E 02
105	.3946E-03	-.7838E 01	-.2010E 00	-.4209E-04	-.9922E-03	.1093E 03	.2292E 02
110	.3909E-03	-.7847E 01	-.9411E 00	-.1839E-03	-.1621E-02	.1103E 03	.2313E 02
115	.3749E-03	-.7889E 01	.6747E 00	.1251E-03	.3537E-02	.1150E 03	.2412E 02
120	.3858E-03	-.7860E 01	.6110E 00	.1117E-03	-.1546E-03	.1118E 03	.2344E 02
125	.3955E-03	-.7835E 01	.1396E 01	.2551E-03	.1643E-02	.1090E 03	.2286E 02
130	.4178E-03	-.7781E 01	.2592E 01	.4921E-03	.2716E-02	.1032E 03	.2164E 02
135	.4607E-03	-.7683E 01	.6108E 00	.1184E-03	-.4282E-02	.9358E 02	.1963E 02
140	.4711E-03	-.7660E 01	.1402E 01	.2723E-03	.1763E-02	.9153E 02	.1920E 02
145	.4948E-03	-.7611E 01	.1452E 01	.2880E-03	.1574E-03	.8713E 02	.1827E 02
150	.5198E-03	-.7562E 01	.1501E 01	.3004E-03	.1653E-03	.8295E 02	.1740E 02
155	.5460E-03	-.7513E 01	.1550E 01	.3156E-03	.1737E-03	.7896E 02	.1656E 02
160	.5736E-03	-.7464E 01	.1599E 01	.3315E-03	.1824E-03	.7517E 02	.1577E 02
165	.6025E-03	-.7414E 01	.1648E 01	.3482E-03	.1916E-03	.7156E 02	.1501E 02
170	.6329E-03	-.7365E 01	.1698E 01	.3658E-03	.2013E-03	.6813E 02	.1429E 02
175	.6648E-03	-.7316E 01	.1747E 01	.3842E-03	.2114E-03	.6486E 02	.1360E 02
180	.6983E-03	-.7267E 01	.0000E 00	.0000E 00	.0000E 00	.6174E 02	.1295E 02

SCAT= .4312E-01 30/45= .3324E 01 45/135= .4502E 01 SCAT30-130= .9043E-02

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.6255E 00	-.4691E 00	-.1948E 00	-.3822E 01	.0000E 00	.1186E 00	.2771E-01
5	.2920E 00	-.1231E 01	-.1023E 01	-.1700E 01	.2432E 02	.2541E 00	.5938E-01
10	.1436E 00	-.1940E 01	-.1620E 01	-.7924E 00	.1040E 02	.5164E 00	.1207E 00
15	.7449E-01	-.2597E 01	-.2100E 01	-.3870E 00	.4646E 01	.9959E 00	.2327E 00
20	.4071E-01	-.3201E 01	-.2471E 01	-.1978E 00	.2169E 01	.1822E 01	.4258E 00
25	.2346E-01	-.3753E 01	-.2708E 01	-.1071E 00	.1039E 01	.3162E 01	.7391E 00
30	.1411E-01	-.4261E 01	-.2994E 01	-.5978E-01	.5423E 00	.5257E 01	.1229E 01
35	.8894E-02	-.4722E 01	-.2941E 01	-.3310E-01	.3057E 00	.8341E 01	.1949E 01
40	.6005E-02	-.5115E 01	-.2766E 01	-.1913E-01	.1601E 00	.1235E 02	.2887E 01
45	.4335E-02	-.5441E 01	-.2958E 01	-.1330E-01	.6682E-01	.1711E 02	.3999E 01
50	.3175E-02	-.5753E 01	-.2996E 01	-.9037E-02	.4888E-01	.2337E 02	.5461E 01
55	.2388E-02	-.6038E 01	-.2608E 01	-.5551E-02	.3995E-01	.3109E 02	.7266E 01
60	.1902E-02	-.6265E 01	-.2902E 01	-.4517E-02	.1185E-01	.3901E 02	.9117E 01
65	.1507E-02	-.6497E 01	-.1572E 01	-.1900E-02	.2990E-01	.4921E 02	.1150E 02
70	.1342E-02	-.6614E 01	-.3135E 01	-.2990E-02	-.1249E-01	.5529E 02	.1292E 02
75	.1081E-02	-.6830E 01	-.2903E 01	-.2116E-02	.1001E-01	.6864E 02	.1604E 02
80	.8960E-03	-.7018E 01	-.2296E 01	-.1334E-02	.8950E-02	.8279E 02	.1935E 02
85	.7796E-03	-.7157E 01	-.1571E 01	-.7671E-03	.6496E-02	.9515E 02	.2224E 02
90	.7127E-03	-.7246E 01	-.6869E 00	-.2977E-03	.5379E-02	.1041E 03	.2433E 02
95	.6867E-03	-.7284E 01	-.5177E 00	-.2062E-03	.1049E-02	.1080E 03	.2525E 02
100	.6687E-03	-.7310E 01	-.9051E 00	-.3310E-03	-.1430E-02	.1109E 03	.2593E 02
105	.6398E-03	-.7354E 01	-.1398E 01	-.4616E-03	-.1497E-02	.1159E 03	.2710E 02
110	.5995E-03	-.7419E 01	-.1808E 01	-.5307E-03	-.7916E-03	.1237E 03	.2892E 02
115	.5532E-03	-.7500E 01	.4119E-01	.1111E-04	.6209E-02	.1341E 03	.3134E 02
120	.5542E-03	-.7498E 01	-.1343E 00	-.3471E-04	-.5251E-03	.1339E 03	.3128E 02
125	.5511E-03	-.7504E 01	.6103E 00	.1530E-03	.2151E-02	.1346E 03	.3145E 02
130	.5645E-03	-.7480E 01	.7804E 00	.1934E-03	.4623E-03	.1314E 03	.3071E 02
135	.5814E-03	-.7450E 01	.1611E-01	.3903E-05	-.2171E-02	.1276E 03	.2982E 02
140	.5817E-03	-.7450E 01	.3356E 00	.7895E-04	.8600E-03	.1275E 03	.2980E 02
145	.5886E-03	-.7438E 01	.3473E 00	.7969E-04	.1072E-04	.1260E 03	.2945E 02
150	.5956E-03	-.7426E 01	.3591E 00	.8084E-04	.1084E-04	.1246E 03	.2911E 02
155	.6026E-03	-.7414E 01	.3709E 00	.8179E-04	.1097E-04	.1231E 03	.2877E 02
160	.6098E-03	-.7402E 01	.3827E 00	.8276E-04	.1110E-04	.1217E 03	.2843E 02
165	.6170E-03	-.7391E 01	.3944E 00	.8374E-04	.1124E-04	.1202E 03	.2810E 02
170	.6243E-03	-.7379E 01	.4062E 00	.8473E-04	.1136E-04	.1188E 03	.2777E 02
175	.6317E-03	-.7367E 01	.4180E 00	.8574E-04	.1150E-04	.1174E 03	.2744E 02
180	.6392E-03	-.7355E 01	.0000E 00	.0000E 00	.0000E 00	.1161E 03	.2712E 02

SCAT= .7418E-01 30/45= .3255E 01 45/135= .7457E 01 SCAT30-130= .1734E-01

CH42/45 2340H 17164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	.8498E-03	-.7071E 01	-.8314E 00	-.2460E-03	.7304E-04	.1592E 03	.4233E 02
165	.8283E-03	-.7096E 01	-.8570E 00	-.2398E-03	.7119E-04	.1634E 03	.4343E 02
170	.8074E-03	-.7122E 01	-.8829E 00	-.2337E-03	.6940E-04	.1676E 03	.4455E 02
175	.7870E-03	-.7147E 01	-.9081E 00	-.2270E-03	.6763E-04	.1719E 03	.4571E 02
180	.7671E-03	-.7173E 01	.0000E 00	.0000E 00	.0000E 00	.1764E 03	.4689E 02

SCAT= .1353E 00 30/45= .3023E 01 45/135= .9013E 01 SCAT30-130= .3597E-01

CH42/46 2355H 17164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
165	.7234E-03	-.7232E 01	.4172E 00	.1039E-03	.1474E-04	.9834E 02	.2800E 02
170	.7324E-03	-.7219E 01	.4297E 00	.1052E-03	.1492E-04	.9715E 02	.2765E 02
175	.7416E-03	-.7207E 01	.4421E 00	.1065E-03	.1511E-04	.9594E 02	.2731E 02
180	.7509E-03	-.7194E 01	.0000E 00	.0000E 00	.0000E 00	.9476E 02	.2697E 02

SCAT= .7115E-01 30/45= .3006E 01 45/135= .7495E 01 SCAT30-130= .2025E-01

CH42/47 0015H 18164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	.7795E-03	-.7157E 01	.5520E 00	.1530E-03	.2953E-04	.9484E 02	.2501E 02
165	.7929E-03	-.7140E 01	.5690E 00	.1556E-03	.3003E-04	.9324E 02	.2458E 02
170	.8065E-03	-.7123E 01	.5859E 00	.1583E-03	.3056E-04	.9167E 02	.2417E 02
175	.8203E-03	-.7106E 01	.6029E 00	.1610E-03	.3107E-04	.9012E 02	.2376E 02
180	.8343E-03	-.7089E 01	.0000E 00	.0000E 00	.0000E 00	.8861E 02	.2336E 02

SCAT= .7393E-01 30/45= .3093E 01 45/135= .6476E 01 SCAT30-130= .1949E-01

CH42/48 0030H 18164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1710E 00	-.1766E 01	-.1582E 00	-.9040E 00	.0000E 00	.1939E 00	.6217E-01
5	.9209E-01	-.2385E 01	-.8367E 00	-.4644E 00	.5037E 01	.3593E 00	.1154E 00
10	.5157E-01	-.2965E 01	-.1335E 01	-.2469E 00	.2492E 01	.6417E 00	.2061E 00
15	.3002E-01	-.3506E 01	-.1746E 01	-.1358E 00	.1273E 01	.1102E 01	.3541E 00
20	.1816E-01	-.4008E 01	-.2077E 01	-.7720E-01	.6717E 00	.1822E 01	.5852E 00
25	.1143E-01	-.4472E 01	-.2460E 01	-.4733E-01	.3423E 00	.2896E 01	.9302E 00
30	.7297E-02	-.4920E 01	-.2548E 01	-.2717E-01	.2311E 00	.4534E 01	.1457E 01
35	.4927E-02	-.5313E 01	-.2580E 01	-.1649E-01	.1227E 00	.6716E 01	.2158E 01
40	.3491E-02	-.5658E 01	-.2745E 01	-.1105E-01	.6194E-01	.9479E 01	.3045E 01
45	.2527E-02	-.5981E 01	-.2553E 01	-.6820E-02	.4837E-01	.1310E 02	.4207E 01
50	.1931E-02	-.6250E 01	-.2551E 01	-.4774E-02	.2593E-01	.1714E 02	.5506E 01
55	.1514E-02	-.6493E 01	-.2698E 01	-.3630E-02	.1311E-01	.2185E 02	.7021E 01
60	.1197E-02	-.6728E 01	-.2517E 01	-.2503E-02	.1291E-01	.2764E 02	.8879E 01
65	.9788E-03	-.6929E 01	-.2511E 01	-.1904E-02	.6067E-02	.3381E 02	.1086E 02
70	.8126E-03	-.7115E 01	-.2404E 01	-.1423E-02	.5513E-02	.4072E 02	.1308E 02
75	.6884E-03	-.7281E 01	-.2005E 01	-.9576E-03	.5334E-02	.4806E 02	.1544E 02
80	.6049E-03	-.7411E 01	-.1849E 01	-.7351E-03	.2568E-02	.5471E 02	.1757E 02
85	.5407E-03	-.7523E 01	-.1635E 01	-.5528E-03	.2089E-02	.6120E 02	.1966E 02
90	.4925E-03	-.7616E 01	-.1239E 01	-.3657E-03	.2144E-02	.6719E 02	.2158E 02
95	.4606E-03	-.7683E 01	-.5742E-01	-.1552E-04	.4013E-02	.7185E 02	.2308E 02
100	.4592E-03	-.7686E 01	-.3140E 00	-.8000E-04	-.7389E-03	.7206E 02	.2315E 02
105	.4522E-03	-.7701E 01	-.2824E 00	-.6764E-04	.1417E-03	.7317E 02	.2351E 02
110	.4463E-03	-.7714E 01	-.7226E 00	-.1617E-03	-.1078E-02	.7414E 02	.2382E 02
115	.4322E-03	-.7747E 01	.4301E 00	.9150E-04	.2901E-02	.7656E 02	.2459E 02
120	.4402E-03	-.7728E 01	-.5395E-01	-.1110E-04	-.1176E-02	.7517E 02	.2415E 02
125	.4392E-03	-.7730E 01	.8835E 00	.1775E-03	.2161E-02	.7533E 02	.2420E 02
130	.4547E-03	-.7696E 01	.1683E 01	.3416E-03	.1881E-02	.7277E 02	.2338E 02
135	.4845E-03	-.7632E 01	.1450E 00	.2936E-04	-.3578E-02	.6829E 02	.2194E 02
140	.4871E-03	-.7627E 01	.7435E 00	.1475E-03	.1394E-02	.6793E 02	.2182E 02
145	.5000E-03	-.7601E 01	.7696E 00	.1514E-03	.4469E-04	.6618E 02	.2126E 02
150	.5132E-03	-.7575E 01	.7957E 00	.1554E-03	.4588E-04	.6448E 02	.2071E 02
155	.5267E-03	-.7549E 01	.8218E 00	.1596E-03	.4709E-04	.6282E 02	.2018E 02
160	.5407E-03	-.7523E 01	.8479E 00	.1630E-03	.4833E-04	.6120E 02	.1966E 02
165	.5550E-03	-.7497E 01	.8740E 00	.1681E-03	.4960E-04	.5962E 02	.1915E 02
170	.5696E-03	-.7471E 01	.9001E 00	.1725E-03	.5093E-04	.5809E 02	.1866E 02
175	.5847E-03	-.7444E 01	.9262E 00	.1771E-03	.5226E-04	.5659E 02	.1818E 02
180	.6001E-03	-.7418E 01	.0000E 00	.0000E 00	.0000E 00	.5513E 02	.1771E 02

SCAT= .3309E-01 30/45= .2888E 01 45/135= .5214E 01 SCAT30-130= .1063E-01

CH42/49 0050H 18164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3703E 00	-.9935E 00	-.1701E 00	-.2062E 01	.0000E 00	.1644E 00	.4860E-01
5	.1903E 00	-.1659E 01	-.8958E 00	-.1009E 01	.1207E 02	.3198E 00	.9455E-01
10	.1023E 00	-.2280E 01	-.1422E 01	-.5135E 00	.5676E 01	.5950E 00	.1759E 00
15	.5748E-01	-.2856E 01	-.1849E 01	-.2717E 00	.2771E 01	.1059E 01	.3131E 00
20	.3377E-01	-.3388E 01	-.2184E 01	-.1493E 00	.1403E 01	.1802E 01	.5329E 00
25	.2075E-01	-.3875E 01	-.2481E 01	-.8650E-01	.7193E 00	.2934E 01	.8674E 00
30	.1320E-01	-.4328E 01	-.2726E 01	-.5188E-01	.3967E 00	.4612E 01	.1364E 01
35	.8670E-02	-.4748E 01	-.2496E 01	-.2816E-01	.2719E 00	.7020E 01	.2076E 01
40	.6213E-02	-.5081E 01	-.2701E 01	-.1940E-01	.1004E 00	.9797E 01	.2897E 01
45	.4520E-02	-.5399E 01	-.2591E 01	-.1237E-01	.8052E-01	.1347E 02	.3982E 01
50	.3440E-02	-.5672E 01	-.2815E 01	-.9275E-02	.3550E-01	.1769E 02	.5231E 01
55	.2631E-02	-.5941E 01	-.2506E 01	-.5906E-02	.3861E-01	.2314E 02	.6841E 01
60	.2115E-02	-.6159E 01	-.2976E 01	-.5130E-02	.8801E-02	.2877E 02	.8500E 01
65	.1667E-02	-.6397E 01	-.2474E 01	-.3200E-02	.2221E-01	.3651E 02	.1080E 02
70	.1388E-02	-.6580E 01	-.2655E 01	-.2662E-02	.6168E-02	.4386E 02	.1297E 02
75	.1155E-02	-.6763E 01	-.2392E 01	-.1894E-02	.8796E-02	.5268E 02	.1558E 02
80	.9901E-03	-.6918E 01	-.2190E 01	-.1411E-02	.5538E-02	.6147E 02	.1818E 02
85	.8670E-03	-.7050E 01	-.2065E 01	-.1106E-02	.3492E-02	.7020E 02	.2076E 02
90	.7705E-03	-.7168E 01	-.1597E 01	-.7303E-03	.4304E-02	.7900E 02	.2338E 02
95	.7067E-03	-.7255E 01	-.2693E 00	-.1111E-03	.7096E-02	.8612E 02	.2546E 02
100	.6970E-03	-.7269E 01	-.1098E 01	-.4168E-03	-.3503E-02	.8732E 02	.2582E 02
105	.6607E-03	-.7322E 01	-.1290E 01	-.4409E-03	-.2764E-03	.9212E 02	.2724E 02
110	.6222E-03	-.7382E 01	-.1168E 01	-.3608E-03	.9177E-03	.9782E 02	.2892E 02
115	.5907E-03	-.7434E 01	.1076E 00	.3107E-04	.4491E-02	.1030E 03	.3047E 02
120	.5934E-03	-.7430E 01	-.3303E 00	-.9108E-04	-.1400E-02	.1026E 03	.3033E 02
125	.5855E-03	-.7443E 01	.9685E 00	.2597E-03	.4020E-02	.1040E 03	.3076E 02
130	.6081E-03	-.7405E 01	.1351E 01	.3649E-03	.1201E-02	.1001E 03	.2959E 02
135	.6400E-03	-.7354E 01	-.6539E-01	-.1742E-04	-.4377E-02	.9511E 02	.2812E 02
140	.6384E-03	-.7356E 01	.5261E 00	.1363E-03	.1762E-02	.9533E 02	.2819E 02
145	.6503E-03	-.7338E 01	.5445E 00	.1388E-03	.2910E-04	.9359E 02	.2767E 02
150	.6624E-03	-.7320E 01	.5630E 00	.1414E-03	.2964E-04	.9188E 02	.2717E 02
155	.6748E-03	-.7301E 01	.5814E 00	.1441E-03	.3020E-04	.9020E 02	.2667E 02
160	.6874E-03	-.7283E 01	.5999E 00	.1468E-03	.3076E-04	.8855E 02	.2618E 02
165	.7002E-03	-.7264E 01	.6184E 00	.1495E-03	.3133E-04	.8693E 02	.2570E 02
170	.7132E-03	-.7246E 01	.6368E 00	.1523E-03	.3191E-04	.8534E 02	.2523E 02
175	.7265E-03	-.7227E 01	.6553E 00	.1551E-03	.3251E-04	.8378E 02	.2477E 02
180	.7400E-03	-.7209E 01	.0000E 00	.0000E 00	.0000E 00	.8225E 02	.2432E 02

SCAT= .6086E-01 30/45= .2920E 01 45/135= .7063E 01 SCAT30-130= .1000E-01

CH42/50 0105H 18164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3237E 00	-.1128E 01	-.2148E 00	-.2108E 01	.0000E 00	.1031E 00	.2339E-01
5	.1397E 00	-.1968E 01	-.1119E 01	-.8637E 00	.1426E 02	.2390E 00	.5419E-01
10	.6432E-01	-.2744E 01	-.1753E 01	-.3750E 00	.5600E 01	.5190E 00	.1177E 00
15	.3199E-01	-.3455E 01	-.2246E 01	-.1723E 00	.2323E 01	.1057E 01	.2396E 00
20	.1655E-01	-.4101E 01	-.2608E 01	-.8365E-01	.1016E 01	.2017E 01	.4573E 00
25	.9254E-02	-.4683E 01	-.2975E 01	-.4440E-01	.4498E 00	.3607E 01	.8181E 00
30	.5380E-02	-.5225E 01	-.3043E 01	-.2308E-01	.2443E 00	.6205E 01	.1407E 01
35	.3365E-02	-.5694E 01	-.2908E 01	-.1241E-01	.1223E 00	.9919E 01	.2250E 01
40	.2282E-02	-.6083E 01	-.2601E 01	-.6901E-02	.6312E-01	.1463E 02	.3317E 01
45	.1680E-02	-.6389E 01	-.2705E 01	-.4775E-02	.2437E-01	.1987E 02	.4506E 01
50	.1264E-02	-.6674E 01	-.2901E 01	-.3498E-02	.1463E-01	.2642E 02	.5992E 01
55	.9503E-03	-.6950E 01	-.2456E 01	-.2113E-02	.1587E-01	.3484E 02	.7908E 01
60	.7739E-03	-.7164E 01	-.2030E 01	-.1330E-02	.8965E-02	.4314E 02	.9782E 01
65	.6578E-03	-.7327E 01	-.2288E 01	-.1179E-02	.1774E-02	.5075E 02	.1151E 02
70	.5552E-03	-.7496E 01	-.1741E 01	-.7203E-03	.5216E-02	.6012E 02	.1363E 02
75	.4924E-03	-.7616E 01	-.2334E 01	-.7891E-03	-.7879E-03	.6780E 02	.1538E 02
80	.4239E-03	-.7767E 01	-.8348E 00	-.2395E-03	.4297E-02	.7882E 02	.1787E 02
85	.4026E-03	-.7817E 01	-.5110E 00	-.1320E-03	.1223E-02	.8291E 02	.1880E 02
90	.3918E-03	-.7847E 01	-.9822E 00	-.2318E-03	-.1134E-02	.8537E 02	.1936E 02
95	.3708E-03	-.7900E 01	.5908E 00	.1308E-03	.4152E-02	.9003E 02	.2042E 02
100	.3822E-03	-.7870E 01	.6664E 00	.1448E-03	.1625E-03	.8734E 02	.1981E 02
105	.3948E-03	-.7837E 01	-.4547E 00	-.9470E-04	-.2744E-02	.8455E 02	.1917E 02
110	.3866E-03	-.7858E 01	-.4124E 00	-.8047E-04	.1630E-03	.8639E 02	.1958E 02
115	.3796E-03	-.7877E 01	.1565E 01	.2996E-03	.4355E-02	.8795E 02	.1995E 02
120	.4057E-03	-.7810E 01	.1131E 01	.2197E-03	-.9159E-03	.8229E 02	.1868E 02
125	.4249E-03	-.7764E 01	.1915E 01	.3798E-03	.1835E-02	.7857E 02	.1782E 02
130	.4580E-03	-.7689E 01	.3477E 01	.7358E-03	.4081E-02	.7289E 02	.1653E 02
135	.5222E-03	-.7557E 01	.1383E 01	.2903E-03	-.5106E-02	.6392E 02	.1450E 02
140	.5476E-03	-.7510E 01	.2164E 01	.4958E-03	.2346E-02	.6097E 02	.1383E 02
145	.5908E-03	-.7434E 01	.2240E 01	.5341E-03	.4475E-03	.5651E 02	.1281E 02
150	.6374E-03	-.7358E 01	.2316E 01	.5762E-03	.4828E-03	.5238E 02	.1188E 02
155	.6877E-03	-.7282E 01	.2392E 01	.6217E-03	.5209E-03	.4855E 02	.1101E 02
160	.7419E-03	-.7206E 01	.2468E 01	.6707E-03	.5620E-03	.4500E 02	.1020E 02
165	.8004E-03	-.7130E 01	.2544E 01	.7236E-03	.6064E-03	.4171E 02	.9458E 01
170	.8636E-03	-.7054E 01	.2620E 01	.7807E-03	.6542E-03	.3866E 02	.8766E 01
175	.9317E-03	-.6978E 01	.2696E 01	.8423E-03	.7058E-03	.3583E 02	.8129E 01
180	.1005E-02	-.6903E 01	.0000E 00	.0000E 00	.0000E 00	.3321E 02	.7531E 01

SCAT= .3338E-01 30/45= .3202E 01 45/135= .3217E 01 SCAT30-130= .7571E-02

CH42/51 0125H 18164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2762E 00	-.1287E 01	-.1964E 00	-.1697E 01	.0000E 00	.1264E 00	.3296E-01
5	.1281E 00	-.2055E 01	-.1026E 01	-.7472E 00	.1088E 02	.2725E 00	.7105E-01
10	.6291E-01	-.2766E 01	-.1614E 01	-.3462E 00	.4595E 01	.5550E 00	.1447E 00
15	.3270E-01	-.3420E 01	-.2077E 01	-.1685E 00	.2036E 01	.1068E 01	.2784E 00
20	.1799E-01	-.4018E 01	-.2422E 01	-.8608E-01	.9447E 00	.1940E 01	.5059E 00
25	.1048E-01	-.4558E 01	-.2709E 01	-.4682E-01	.4500E 00	.3331E 01	.8685E 00
30	.6395E-02	-.5052E 01	-.2941E 01	-.2671E-01	.2304E 00	.5459E 01	.1423E 01
35	.4064E-02	-.5506E 01	-.2663E 01	-.1394E-01	.1464E 00	.8590E 01	.2240E 01
40	.2848E-02	-.5861E 01	-.2570E 01	-.8525E-02	.6201E-01	.1226E 02	.3196E 01
45	.2104E-02	-.6164E 01	-.2671E 01	-.5914E-02	.2991E-01	.1659E 02	.4326E 01
50	.1588E-02	-.6445E 01	-.2474E 01	-.3822E-02	.2398E-01	.2199E 02	.5732E 01
55	.1254E-02	-.6681E 01	-.3062E 01	-.3363E-02	.5264E-02	.2783E 02	.7256E 01
60	.9610E-03	-.6948E 01	-.2216E 01	-.1790E-02	.1802E-01	.3633E 02	.9472E 01
65	.8048E-03	-.7125E 01	-.2375E 01	-.1489E-02	.3456E-02	.4338E 02	.1131E 02
70	.6749E-03	-.7301E 01	-.1932E 01	-.9650E-03	.5999E-02	.5173E 02	.1349E 02
75	.5907E-03	-.7434E 01	-.1883E 01	-.7746E-03	.2182E-02	.5911E 02	.1541E 02
80	.5231E-03	-.7556E 01	-.1246E 01	-.4362E-03	.3878E-02	.6674E 02	.1740E 02
85	.4850E-03	-.7631E 01	-.1548E 01	-.4708E-03	-.3967E-03	.7198E 02	.1877E 02
90	.4439E-03	-.7720E 01	-.4199E 00	-.1142E-03	.4086E-02	.7864E 02	.2050E 02
95	.4340E-03	-.7743E 01	.2726E-01	.6960E-05	.1388E-02	.8045E 02	.2097E 02
100	.4346E-03	-.7741E 01	-.2643E 00	-.6381E-04	-.8109E-03	.8034E 02	.2095E 02
105	.4290E-03	-.7754E 01	-.1243E 00	-.2834E-04	.4064E-03	.8138E 02	.2122E 02
110	.4269E-03	-.7760E 01	-.5729E 00	-.1229E-03	-.1083E-02	.8185E 02	.2134E 02
115	.4150E-03	-.7785E 01	.3098E 00	.6324E-04	.2133E-02	.8396E 02	.2189E 02
120	.4213E-03	-.7772E 01	.9432E 00	.1895E-03	.1447E-02	.8286E 02	.2160E 02
125	.4379E-03	-.7734E 01	.1994E 01	.4081E-03	.2505E-02	.7973E 02	.2079E 02
130	.4739E-03	-.7655E 01	.3156E 01	.6864E-03	.3188E-02	.7374E 02	.1922E 02
135	.5334E-03	-.7536E 01	.7012E 00	.1579E-03	-.6096E-02	.6546E 02	.1707E 02
140	.5672E-03	-.7511E 01	.1791E 01	.3974E-03	.2745E-02	.6381E 02	.1664E 02
145	.5819E-03	-.7449E 01	.1813E 01	.4226E-03	.2887E-03	.6000E 02	.1564E 02
150	.6187E-03	-.7388E 01	.1874E 01	.4494E-03	.3070E-03	.5643E 02	.1471E 02
155	.6580E-03	-.7326E 01	.1936E 01	.4779E-03	.3264E-03	.5306E 02	.1383E 02
160	.6997E-03	-.7265E 01	.1997E 01	.5082E-03	.3471E-03	.4990E 02	.1301E 02
165	.7440E-03	-.7203E 01	.2059E 01	.5404E-03	.3691E-03	.4693E 02	.1223E 02
170	.7912E-03	-.7142E 01	.2120E 01	.5747E-03	.3925E-03	.4413E 02	.1151E 02
175	.8413E-03	-.7081E 01	.2182E 01	.6111E-03	.4174E-03	.4150E 02	.1082E 02
180	.8946E-03	-.7019E 01	.0000E 00	.0000E 00	.0000E 00	.3903E 02	.1017E 02

SCAT= .3491E-01 30/45= .3039E 01 45/135= .3945E 01 SCAT30-130= .9103E-02

CH42/52 0145H 18164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.4064E 00	-.9003E 00	-.2453E 00	-.2073E 01	.0000E 00	.7812E-01	.1570E-01
5	.1557E 00	-.1860E 01	-.1267E 01	-.1043E 01	.2090E 02	.2039E 00	.4120E-01
10	.6470E-01	-.2738E 01	-.1965E 01	-.4071E 00	.7202E 01	.4907E 00	.9915E-01
15	.2917E-01	-.3535E 01	-.2486E 01	-.1708E 00	.2708E 01	.1088E 01	.2199E 00
20	.1427E-01	-.4250E 01	-.2839E 01	-.7673E-01	.1077E 01	.2225E 01	.4495E 00
25	.7573E-02	-.4883E 01	-.3140E 01	-.3782E-01	.4459E 00	.4192E 01	.8471E 00
30	.4272E-02	-.5456E 01	-.3127E 01	-.1872E-01	.2188E 00	.7431E 01	.1501E 01
35	.2639E-02	-.5938E 01	-.2889E 01	-.9676E-02	.1037E 00	.1203E 02	.2431E 01
40	.1794E-02	-.6323E 01	-.2590E 01	-.5405E-02	.4894E-01	.1770E 02	.3575E 01
45	.1322E-02	-.6628E 01	-.2258E 01	-.3209E-02	.2517E-01	.2401E 02	.4851E 01
50	.1042E-02	-.6866E 01	-.2581E 01	-.2605E-02	.6916E-02	.3046E 02	.6154E 01
55	.8151E-03	-.7112E 01	-.2145E 01	-.1590E-02	.1163E-01	.3895E 02	.7870E 01
60	.6763E-03	-.7299E 01	-.1963E 01	-.1127E-02	.5313E-02	.4695E 02	.9485E 01
65	.5779E-03	-.7456E 01	-.2018E 01	-.9198E-03	.2372E-02	.5493E 02	.1110E 02
70	.4977E-03	-.7606E 01	-.1707E 01	-.6335E-03	.3281E-02	.6379E 02	.1289E 02
75	.4424E-03	-.7723E 01	-.1276E 01	-.4008E-03	.2666E-02	.7177E 02	.1450E 02
80	.4074E-03	-.7806E 01	.1676E 01	-.4510E-03	-.5753E-03	.7793E 02	.1574E 02
85	.3681E-03	-.7907E 01	-.9420E 00	-.2211E-03	.2639E-02	.8626E 02	.1743E 02
90	.3488E-03	-.7961E 01	-.1592E 00	-.3426E-04	.2141E-02	.9103E 02	.1839E 02
95	.3458E-03	-.7970E 01	.5581E 00	.1151E-03	.1711E-02	.9182E 02	.1855E 02
100	.3558E-03	-.7941E 01	.3923E 00	.7880E-04	-.4155E-03	.8923E 02	.1803E 02
105	.3627E-03	-.7922E 01	.8666E-01	.1679E-04	-.7106E-03	.8754E 02	.1769E 02
110	.3642E-03	-.7918E 01	-.2864E 00	-.5279E-04	-.7973E-03	.8718E 02	.1762E 02
115	.3596E-03	-.7931E 01	.3275E 00	.5784E-04	.1268E-02	.8830E 02	.1784E 02
120	.3646E-03	-.7917E 01	.1149E 01	.2087E-03	.1637E-02	.8708E 02	.1759E 02
125	.3821E-03	-.7870E 01	.2241E 01	.4023E-03	.2310E-02	.8309E 02	.1679E 02
130	.4172E-03	-.7782E 01	.3519E 01	.6780E-03	.3171E-02	.7610E 02	.1537E 02
135	.4765E-03	-.7649E 01	.8306E 00	.1674E-03	-.5862E-02	.6663E 02	.1346E 02
140	.4911E-03	-.7619E 01	.1989E 01	.4067E-03	.2742E-02	.6465E 02	.1306E 02
145	.5266E-03	-.7549E 01	.2050E 01	.4361E-03	.3360E-03	.6029E 02	.1218E 02
150	.5646E-03	-.7479E 01	.2120E 01	.4676E-03	.3612E-03	.5623E 02	.1136E 02
155	.6054E-03	-.7410E 01	.2190E 01	.5014E-03	.3873E-03	.5244E 02	.1059E 02
160	.6492E-03	-.7340E 01	.2268E 01	.5377E-03	.4153E-03	.4890E 02	.9881E 01
165	.6961E-03	-.7270E 01	.2330E 01	.5765E-03	.4453E-03	.4561E 02	.9215E 01
170	.7464E-03	-.7200E 01	.2407E 01	.6182E-03	.4775E-03	.4253E 02	.8594E 01
175	.8004E-03	-.7130E 01	.2477E 01	.6629E-03	.5120E-03	.3967E 02	.8015E 01
180	.8582E-03	-.7061E 01	.0000E 00	.0000E 00	.0000E 00	.3699E 02	.7474E 01

SCAT= .3175E-01 30/45= .3231E 01 45/135= .2775E 01 SCAT30-130= .6419E-02

CH42/53 0200H 18164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2820E 00	-.1266E 01	-.2000E 00	-.1753E 01	.0000E 00	.1207E 00	.3016E-01
5	.1290E 00	-.2048E 01	-.1046E 01	-.7621E 00	.1135E 02	.2638E 00	.6592E-01
10	.6248E-01	-.2773E 01	-.1647E 01	-.3487E 00	.4737E 01	.5446E 00	.1361E 00
15	.3205E-01	-.3441E 01	-.2122E 01	-.1678E 00	.2074E 01	.1062E 01	.2653E 00
20	.1740E-01	-.4051E 01	-.2480E 01	-.8475E-01	.9516E 00	.1955E 01	.4886E 00
25	.1001E-01	-.4604E 01	-.2869E 01	-.4671E-01	.4358E 00	.3400E 01	.8496E 00
30	.5931E-02	-.5128E 01	-.2928E 01	-.2469E-01	.2524E 00	.5738E 01	.1434E 01
35	.3777E-02	-.5579E 01	-.2851E 01	-.1370E-01	.1259E 00	.9010E 01	.2251E 01
40	.2581E-02	-.5960E 01	-.2717E 01	-.8100E-02	.4421E-01	.1319E 02	.3295E 01
45	.1874E-02	-.6280E 01	-.2678E 01	-.5279E-02	.3232E-01	.1816E 02	.4537E 01
50	.1413E-02	-.6562E 01	-.2573E 01	-.3522E-02	.2014E-01	.2408E 02	.6016E 01
55	.1106E-02	-.6807E 01	-.2096E 01	-.2113E-02	.1615E-01	.3077E 02	.7688E 01
60	.9216E-03	-.6989E 01	-.2654E 01	-.2021E-02	.1048E-02	.3692E 02	.9226E 01
65	.7452E-03	-.7202E 01	-.1945E 01	-.1146E-02	.1003E-01	.4566E 02	.1141E 02
70	.6451E-03	-.7346E 01	-.1449E 01	-.7031E-03	.5079E-02	.5274E 02	.1318E 02
75	.5838E-03	-.7446E 01	-.2178E 01	-.8773E-03	-.1996E-02	.5829E 02	.1456E 02
80	.5072E-03	-.7587E 01	-.1640E 01	-.5502E-03	.3748E-02	.6709E 02	.1676E 02
85	.4592E-03	-.7686E 01	-.1490E 01	-.4297E-03	.1382E-02	.7410E 02	.1852E 02
90	.4217E-03	-.7771E 01	-.1818E 00	-.4727E-04	.4382E-02	.8069E 02	.2016E 02
95	.4176E-03	-.7781E 01	.1665E-01	.4088E-05	.5885E-03	.8149E 02	.2036E 02
100	.4179E-03	-.7780E 01	.5798E 00	.1374E-03	.1528E-02	.8142E 02	.2034E 02
105	.4299E-03	-.7752E 01	-.8860E 00	-.1989E-03	-.3854E-02	.7915E 02	.1978E 02
110	.4126E-03	-.7793E 01	-.4051E 00	-.8437E-04	.1313E-02	.8248E 02	.2061E 02
115	.4052E-03	-.7811E 01	.1208E 01	.2449E-03	.3774E-02	.8398E 02	.2098E 02
120	.4266E-03	-.7760E 01	.1471E 01	.3025E-03	.6600E-03	.7977E 02	.1993E 02
125	.4530E-03	-.7700E 01	.1772E 01	.3736E-03	.8143E-03	.7512E 02	.1877E 02
130	.4856E-03	-.7630E 01	.2827E 01	.4265E-03	.2898E-02	.7008E 02	.1751E 02
135	.5403E-03	-.7523E 01	.1415E 01	.3268E-03	-.3434E-02	.6298E 02	.1574E 02
140	.5688E-03	-.7472E 01	.2008E 01	.4759E-03	.1708E-02	.5983E 02	.1495E 02
145	.6103E-03	-.7402E 01	.2079E 01	.5106E-03	.3982E-03	.5575E 02	.1393E 02
150	.6549E-03	-.7331E 01	.2149E 01	.5479E-03	.4272E-03	.5196E 02	.1298E 02
155	.7027E-03	-.7261E 01	.2220E 01	.5879E-03	.4584E-03	.4843E 02	.1210E 02
160	.7540E-03	-.7190E 01	.2290E 01	.6309E-03	.4919E-03	.4513E 02	.1128E 02
165	.8091E-03	-.7120E 01	.2361E 01	.6769E-03	.5278E-03	.4206E 02	.1051E 02
170	.8681E-03	-.7049E 01	.2431E 01	.7263E-03	.5664E-03	.3920E 02	.9794E 01
175	.9315E-03	-.6979E 01	.2502E 01	.7794E-03	.6077E-03	.3653E 02	.9128E 01
180	.9995E-03	-.6908E 01	.0000E 00	.0000E 00	.0000E 00	.3404E 02	.8507E 01

SCAT= .3403E-01 30/45= .3165E 01 45/135= .3469E 01 SCAT30-130= .8503E-02

CH42/54 18164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
165	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
170	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
175	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
180	.1066E-02	-.6844E 01	.0000E 00	.0000E 00	.0000E 00	.7784E 02	.2377E 02

SCAT= .8298E-01 30/45= .2884E 01 45/135= .6244E 01 SCAT30-130= .2535E-01

CH42/55 2235H 18164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
165	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
170	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
175	.8826E-03	-.7033E 01	.1031E 00	.2942E-04	.9839E-06	.1199E 03	.3164E 02
180	.8852E-03	-.7030E 01	.0000E 00	.0000E 00	.0000E 00	.1196E 03	.3135E 02

SCAT= .1058E 00 30/45= .3176E 01 45/135= .7944E 01 SCAT30-130= .2779E-01

CH42/56 2300H 18164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
165	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
170	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
175	.8499E-03	-.7070E 01	.1120E 01	.3122E-03	.1111E-03	.8399E 02	.2151E 02
180	.8772E-03	-.7039E 01	.0000E 00	.0000E 00	.0000E 00	.8138E 02	.2085E 02

SCAT= .7138E-01 30/45= .3214E 01 45/135= .4620E 01 SCAT30-130= .1829E-01

CH42/57 2320H 18164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3282E 00	-.1114E 01	-.1740E 00	-.1857E 01	.0000E 00	.1597E 00	.4704E-01
5	.1662E 00	-.1795E 01	-.9146E 00	-.8940E 00	.1103E 02	.3155E 00	.9292E-01
10	.8815E-01	-.2429E 01	-.1448E 01	-.4486E 00	.5103E 01	.5946E 00	.1751E 00
15	.4900E-01	-.3016E 01	-.1879E 01	-.2345E 00	.2454E 01	.1070E 01	.3151E 00
20	.2853E-01	-.3557E 01	-.2214E 01	-.1275E 00	.1226E 01	.1837E 01	.5411E 00
25	.1741E-01	-.4051E 01	-.2347E 01	-.7410E-01	.6114E 00	.3010E 01	.8867E 00
30	.1094E-01	-.4515E 01	-.2609E 01	-.4251E-01	.3621E 00	.4789E 01	.1411E 01
35	.7235E-02	-.4929E 01	-.2603E 01	-.2434E-01	.2082E 00	.7245E 01	.2134E 01
40	.5111E-02	-.5276E 01	-.2644E 01	-.1567E-01	.9932E-01	.1026E 02	.3021E 01
45	.3744E-02	-.5588E 01	-.2561E 01	-.1014E-01	.6334E-01	.1400E 02	.4124E 01
50	.2858E-02	-.5858E 01	-.2282E 01	-.6403E-02	.4287E-01	.1834E 02	.5401E 01
55	.2300E-02	-.6075E 01	-.3220E 01	-.6440E-02	-.4170E-03	.2279E 02	.6714E 01
60	.1738E-02	-.6355E 01	-.2286E 01	-.3329E-02	.3564E-01	.3017E 02	.8885E 01
65	.1447E-02	-.6530E 01	-.2458E 01	-.2762E-02	.6504E-02	.3622E 02	.1067E 02
70	.1206E-02	-.6720E 01	-.2688E 01	-.2339E-02	.4842E-02	.4346E 02	.1280E 02
75	.1002E-02	-.6906E 01	-.1953E 01	-.1360E-02	.1122E-01	.5232E 02	.1541E 02
80	.8832E-03	-.7032E 01	-.2066E 01	-.1191E-02	.1930E-02	.5935E 02	.1748E 02
85	.7793E-03	-.7157E 01	-.2210E 01	-.1060E-02	.1912E-02	.6726E 02	.1981E 02
90	.6868E-03	-.7283E 01	-.1234E 01	-.5081E-03	.6318E-02	.7632E 02	.2248E 02
95	.6425E-03	-.7350E 01	-.4946E 00	-.1844E-03	.3709E-02	.8159E 02	.2403E 02
100	.6264E-03	-.7376E 01	-.4670E 00	-.1617E-03	.2608E-03	.8368E 02	.2465E 02
105	.6123E-03	-.7398E 01	-.9467E 00	-.3023E-03	-.1611E-02	.8561E 02	.2522E 02
110	.5859E-03	-.7442E 01	-.7471E 00	-.2193E-03	.9507E-03	.8947E 02	.2635E 02
115	.5667E-03	-.7476E 01	-.3105E 00	-.8525E-04	.1536E-02	.9249E 02	.2724E 02
120	.5593E-03	-.7489E 01	.5041E 00	.1332E-03	.2504E-02	.9372E 02	.2760E 02
125	.5709E-03	-.7468E 01	.8443E 00	.2468E-03	.1302E-02	.9181E 02	.2704E 02
130	.5925E-03	-.7431E 01	.2291E 01	.6132E-03	.4198E-02	.8847E 02	.2606E 02
135	.6460E-03	-.7345E 01	.3827E-02	.1030E-05	-.7019E-02	.8114E 02	.2390E 02
140	.6461E-03	-.7345E 01	.8099E 00	.2402E-03	.2741E-02	.8113E 02	.2390E 02
145	.6670E-03	-.7313E 01	.9419E 00	.2488E-03	.8930E-04	.7858E 02	.2315E 02
150	.6887E-03	-.7281E 01	.9738E 00	.2560E-03	.9221E-04	.7611E 02	.2242E 02
155	.7110E-03	-.7249E 01	.1006E 01	.2644E-03	.9519E-04	.7372E 02	.2171E 02
160	.7341E-03	-.7217E 01	.1038E 01	.2729E-03	.9830E-04	.7140E 02	.2103E 02
165	.7579E-03	-.7185E 01	.1070E 01	.2818E-03	.1015E-03	.6916E 02	.2037E 02
170	.7825E-03	-.7153E 01	.1102E 01	.2909E-03	.1048E-03	.6699E 02	.1973E 02
175	.8079E-03	-.7121E 01	.1133E 01	.3004E-03	.1082E-03	.6488E 02	.1911E 02
180	.8341E-03	-.7089E 01	.0000E 00	.0000E 00	.0000E 00	.6284E 02	.1851E 02

SCAT= .5242E-01 30/45= .2924E 01 45/135= .5795E 01 SCAT30-130= .1544E-01

CH42/58 2340H 18164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3677E 00	-.1000E 01	-.1723E 00	-.2066E 01	.0000E 00	.1709E 00	.5418E-01
5	.1875E 00	-.1674E 01	-.9034E 00	-.9998E 00	.1221E 02	.3352E 00	.1063E 00
10	.1002E 00	-.2300E 01	-.1427E 01	-.5046E 00	.5674E 01	.6271E 00	.1988E 00
15	.5619E-01	-.2879E 01	-.1847E 01	-.2654E 00	.2742E 01	.1119E 01	.3546E 00
20	.3303E-01	-.3410E 01	-.2168E 01	-.1452E 00	.1377E 01	.1903E 01	.6031E 00
25	.2037E-01	-.3894E 01	-.2460E 01	-.8433E-01	.6972E 00	.3086E 01	.9783E 00
30	.1301E-01	-.4342E 01	-.2539E 01	-.4827E-01	.4132E 00	.4833E 01	.1532E 01
35	.8793E-02	-.4734E 01	-.2609E 01	-.2964E-01	.2136E 00	.7148E 01	.2266E 01
40	.6207E-02	-.5082E 01	-.2460E 01	-.1789E-01	.1346E 00	.1013E 02	.3210E 01
45	.4645E-02	-.5372E 01	-.2426E 01	-.1201E-01	.6744E-01	.1353E 02	.4289E 01
50	.3598E-02	-.5628E 01	-.2676E 01	-.9279E-02	.3124E-01	.1747E 02	.5538E 01
55	.2788E-02	-.5883E 01	-.2260E 01	-.5702E-02	.4099E-01	.2295E 02	.7147E 01
60	.2290E-02	-.6079E 01	-.2610E 01	-.4948E-02	.8646E-02	.2744E 02	.8700E 01
65	.1858E-02	-.6288E 01	-.2282E 01	-.3313E-02	.1874E-01	.3382E 02	.1072E 02
70	.1569E-02	-.6457E 01	-.1927E 01	-.2238E-02	.1231E-01	.4005E 02	.1270E 02
75	.1374E-02	-.6590E 01	-.2314E 01	-.2184E-02	.6201E-03	.4575E 02	.1450E 02
80	.1183E-02	-.6739E 01	-.1004E 01	-.8007E-03	.1585E-01	.5311E 02	.1684E 02
85	.1113E-02	-.6800E 01	-.2151E 01	-.1476E-02	-.7741E-02	.5645E 02	.1789E 02
90	.9847E-03	-.6923E 01	-.5920E 00	-.3554E-03	.1284E-01	.6383E 02	.2023E 02
95	.9537E-03	-.6955E 01	-.1283E 01	-.6961E-03	-.3904E-02	.6591E 02	.2089E 02
100	.8929E-03	-.7021E 01	.1510E-01	.7540E-05	.8063E-02	.7039E 02	.2231E 02
105	.8936E-03	-.7020E 01	-.4185E 00	-.1974E-03	-.2349E-02	.7034E 02	.2230E 02
110	.8763E-03	-.7040E 01	-.6685E 00	-.2940E-03	-.1107E-02	.7172E 02	.2273E 02
115	.8507E-03	-.7069E 01	.3953E 00	.1654E-03	.5264E-02	.7388E 02	.2342E 02
120	.8651E-03	-.7053E 01	-.4316E 00	-.1731E-03	-.3879E-02	.7265E 02	.2303E 02
125	.8500E-03	-.7070E 01	.2065E 01	.8219E-03	.1140E-01	.7394E 02	.2344E 02
130	.9217E-03	-.6989E 01	.1325E 01	.5414E-03	-.3214E-02	.6819E 02	.2162E 02
135	.9690E-03	-.6939E 01	.3699E 00	.1504E-03	-.4481E-02	.6486E 02	.2056E 02
140	.9821E-03	-.6926E 01	.9226E 00	.3703E-03	.2520E-02	.6400E 02	.2029E 02
145	.1014E-02	-.6893E 01	.9550E 00	.3825E-03	.1396E-03	.6196E 02	.1964E 02
150	.1048E-02	-.6861E 01	.9873E 00	.3951E-03	.1442E-03	.5999E 02	.1901E 02
155	.1082E-02	-.6829E 01	.1020E 01	.4081E-03	.1490E-03	.5807E 02	.1841E 02
160	.1118E-02	-.6796E 01	.1052E 01	.4215E-03	.1539E-03	.5622E 02	.1782E 02
165	.1155E-02	-.6764E 01	.1084E 01	.4354E-03	.1589E-03	.5443E 02	.1725E 02
170	.1193E-02	-.6732E 01	.1117E 01	.4497E-03	.1642E-03	.5270E 02	.1670E 02
175	.1232E-02	-.6699E 01	.1149E 01	.4645E-03	.1695E-03	.5102E 02	.1617E 02
180	.1272E-02	-.6667E 01	.0000E 00	.0000E 00	.0000E 00	.4940E 02	.1566E 02

SCAT= .6285E-01 30/45= .2800E 01 45/135= .4794E 01 SCAT30-130= .1992E-01

CH42/59 0005H 19164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.4265E 00	-.8520E 00	-.1864E 00	-.2530E 01	.0000E 00	.1454E 00	.4319E-01
5	.2057E 00	-.1581E 01	-.9731E 00	-.1157E 01	.1574E 02	.3015E 00	.8947E-01
10	.1048E 00	-.2256E 01	-.1529E 01	-.5548E 00	.6896E 01	.5918E 00	.1756E 00
15	.5630E-01	-.2876E 01	-.1965E 01	-.2790E 00	.3161E 01	.1100E 01	.3264E 00
20	.3204E-01	-.3441E 01	-.2288E 01	-.1468E 00	.1514E 01	.1936E 01	.5744E 00
25	.1923E-01	-.3951E 01	-.2576E 01	-.8259E-01	.7358E 00	.3225E 01	.9571E 00
30	.1202E-01	-.4421E 01	-.2591E 01	-.4537E-01	.4266E 00	.5159E 01	.1531E 01
35	.8065E-02	-.4820E 01	-.2774E 01	-.2861E-01	.1920E 00	.7691E 01	.2282E 01
40	.5568E-02	-.5191E 01	-.2288E 01	-.1503E-01	.1556E 00	.1114E 02	.3306E 01
45	.4257E-02	-.5459E 01	-.2476E 01	-.1119E-01	.4398E-01	.1457E 02	.4324E 01
50	.3288E-02	-.5720E 01	-.2605E 01	-.8262E-02	.3356E-01	.1891E 02	.5612E 01
55	.2559E-02	-.5968E 01	-.1878E 01	-.4421E-02	.4402E-01	.2424E 02	.7193E 01
60	.2173E-02	-.6132E 01	-.2922E 01	-.5193E-02	-.8846E-02	.2854E 02	.8470E 01
65	.1720E-02	-.6365E 01	-.1740E 01	-.2304E-02	.3219E-01	.3606E 02	.1070E 02
70	.1512E-02	-.6494E 01	-.2533E 01	-.2778E-02	-.4519E-02	.4102E 02	.1217E 02
75	.1269E-02	-.6669E 01	-.2009E 01	-.1835E-02	.1082E-01	.4886E 02	.1450E 02
80	.1109E-02	-.6804E 01	-.9421E 00	-.7057E-03	.1294E-01	.5591E 02	.1659E 02
85	.1048E-02	-.6861E 01	-.1977E 01	-.1283E-02	-.6617E-02	.5920E 02	.1757E 02
90	.9358E-03	-.6974E 01	-.7806E 00	-.4432E-03	.9625E-02	.6628E 02	.1967E 02
95	.8971E-03	-.7016E 01	-.1141E 01	-.5843E-03	-.1617E-02	.6914E 02	.2052E 02
100	.8461E-03	-.7075E 01	-.5379E 00	-.2511E-03	.3818E-02	.7330E 02	.2175E 02
105	.8242E-03	-.7101E 01	-.7270E 00	-.3141E-03	-.7212E-03	.7525E 02	.2233E 02
110	.7968E-03	-.7135E 01	-.7094E 00	-.2834E-03	.3512E-03	.7784E 02	.2310E 02
115	.7721E-03	-.7166E 01	.1387E 01	.5379E-03	.9411E-02	.8033E 02	.2384E 02
120	.8190E-03	-.7107E 01	.9954E-01	.3821E-04	-.5726E-02	.7573E 02	.2247E 02
125	.8223E-03	-.7103E 01	.6091E 00	.2270E-03	.2173E-02	.7542E 02	.2238E 02
130	.8422E-03	-.7079E 01	.8400E 00	.3109E-03	.9517E-03	.7364E 02	.2185E 02
135	.8694E-03	-.7048E 01	.7630E 00	.2803E-03	-.3503E-03	.7134E 02	.2117E 02
140	.8938E-03	-.7020E 01	.7559E 00	.2753E-03	-.5701E-04	.6939E 02	.2059E 02
145	.9178E-03	-.6993E 01	.7824E 00	.2827E-03	.8481E-04	.6758E 02	.2005E 02
150	.9425E-03	-.6967E 01	.8090E 00	.2903E-03	.8787E-04	.6581E 02	.1953E 02
155	.9679E-03	-.6940E 01	.8355E 00	.2981E-03	.8946E-04	.6408E 02	.1902E 02
160	.9939E-03	-.6914E 01	.8620E 00	.3061E-03	.9183E-04	.6241E 02	.1852E 02
165	.1021E-02	-.6887E 01	.8886E 00	.3144E-03	.9430E-04	.6077E 02	.1803E 02
170	.1048E-02	-.6861E 01	.9151E 00	.3228E-03	.9682E-04	.5918E 02	.1756E 02
175	.1076E-02	-.6834E 01	.9416E 00	.3315E-03	.9945E-04	.5763E 02	.1710E 02
180	.1105E-02	-.6808E 01	.0000E 00	.0000E 00	.0000E 00	.5612E 02	.1664E 02

SCAT= .6202E-01 30/45= .2825E 01 45/135= .4896E 01 SCAT30-130= .1841E-01

CH42/60 0025H 19164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3095E 00	-.1173E 01	-.1606E 00	-.1654E 01	.0000E 00	.1942E 00	.6477E-01
5	.1652E 00	-.1801E 01	-.8464E 00	-.8399E 00	.9327E 01	.3640E 00	.1214E 00
10	.9186E-01	-.2388E 01	-.1345E 01	-.4424E 00	.4559E 01	.6544E 00	.2182E 00
15	.5325E-01	-.2933E 01	-.1752E 01	-.2415E 00	.2302E 01	.1129E 01	.3764E 00
20	.3217E-01	-.3437E 01	-.2073E 01	-.1365E 00	.1203E 01	.1869E 01	.6231E 00
25	.2025E-01	-.3899E 01	-.2365E 01	-.8131E-01	.6327E 00	.2968E 01	.9896E 00
30	.1316E-01	-.4331E 01	-.2617E 01	-.5006E-01	.3581E 00	.4568E 01	.1523E 01
35	.8791E-02	-.4734E 01	-.2442E 01	-.2803E-01	.2523E 00	.6838E 01	.2280E 01
40	.6345E-02	-.5060E 01	-.2483E 01	-.1844E-01	.1100E 00	.9475E 01	.3159E 01
45	.4736E-02	-.5353E 01	-.2628E 01	-.1313E-01	.6087E-01	.1269E 02	.4233E 01
50	.3590E-02	-.5630E 01	-.2261E 01	-.7975E-02	.5902E-01	.1674E 02	.5583E 01
55	.2894E-02	-.5845E 01	-.2582E 01	-.6675E-02	.1489E-01	.2077E 02	.6925E 01
60	.2312E-02	-.6070E 01	-.2462E 01	-.4738E-02	.2220E-01	.2600E 02	.8670E 01
65	.1898E-02	-.6267E 01	-.2349E 01	-.3470E-02	.1453E-01	.3167E 02	.1056E 02
70	.1596E-02	-.6440E 01	-.2075E 01	-.2439E-02	.1181E-01	.3767E 02	.1256E 02
75	.1383E-02	-.6584E 01	-.2316E 01	-.2200E-02	.2739E-02	.4347E 02	.1450E 02
80	.1191E-02	-.6733E 01	-.1623E 01	-.1279E-02	.1056E-01	.5048E 02	.1683E 02
85	.1079E-02	-.6832E 01	-.1763E 01	-.1185E-02	.1070E-02	.5570E 02	.1857E 02
90	.9757E-03	-.6932E 01	-.9149E 00	-.5396E-03	.7401E-02	.6161E 02	.2054E 02
95	.9286E-03	-.6982E 01	-.6288E 00	-.3378E-03	.2313E-02	.6476E 02	.2159E 02
100	.8992E-03	-.7014E 01	-.6027E 00	-.2986E-03	.4488E-03	.6686E 02	.2229E 02
105	.8731E-03	-.7043E 01	-.6827E 00	-.3128E-03	-.1624E-03	.6885E 02	.2296E 02
110	.8458E-03	-.7075E 01	-.2943E 00	-.1260E-03	-.2140E-02	.7107E 02	.2370E 02
115	.8348E-03	-.7088E 01	.4035E 00	.1657E-03	.3343E-02	.7201E 02	.2401E 02
120	.8493E-03	-.7071E 01	.3704E 00	.1483E-03	-.1995E-03	.7078E 02	.2360E 02
125	.8622E-03	-.7056E 01	.2529E 00	.9834E-04	-.5724E-03	.6972E 02	.2325E 02
130	.8708E-03	-.7046E 01	.9687E 00	.3716E-03	.3131E-02	.6903E 02	.2302E 02
135	.9032E-03	-.7010E 01	.3122E 00	.1182E-03	-.2903E-02	.6656E 02	.2219E 02
140	.9135E-03	-.6998E 01	.5201E 00	.1928E-03	.8551E-03	.6580E 02	.2194E 02
145	.9304E-03	-.6980E 01	.5384E 00	.1964E-03	.4069E-04	.6461E 02	.2155E 02
150	.9475E-03	-.6962E 01	.5566E 00	.2000E-03	.4145E-04	.6345E 02	.2116E 02
155	.9649E-03	-.6943E 01	.5749E 00	.2037E-03	.4220E-04	.6230E 02	.2077E 02
160	.9827E-03	-.6925E 01	.5931E 00	.2074E-03	.4300E-04	.6117E 02	.2040E 02
165	.1001E-02	-.6907E 01	.6114E 00	.2112E-03	.4377E-04	.6007E 02	.2003E 02
170	.1019E-02	-.6889E 01	.6296E 00	.2151E-03	.4460E-04	.5898E 02	.1967E 02
175	.1038E-02	-.6870E 01	.6479E 00	.2191E-03	.4542E-04	.5791E 02	.1931E 02
180	.1057E-02	-.6852E 01	.0000E 00	.0000E 00	.0000E 00	.5686E 02	.1896E 02

SCAT= .6012E-01 30/45= .2779E 01 45/135= .5243E 01 SCAT30-130= .2004E-01

CH42/61 0035H 19164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.8102E 00	-.2104E 00	-.2140E 00	-.5264E 01	.0000E 00	.9987E-01	.2129E-01
5	.3500E 00	-.1047E 01	-.1117E 01	-.2167E 01	.3549E 02	.2306E 00	.4917E-01
10	.1617E 00	-.1822E 01	-.1755E 01	-.9437E 00	.1402E 02	.5003E 00	.1067E 00
15	.7939E-01	-.2533E 01	-.2256E 01	-.4343E 00	.5837E 01	.1019E 01	.2173E 00
20	.4148E-01	-.3182E 01	-.2628E 01	-.2109E 00	.2560E 01	.1951E 01	.4159E 00
25	.2308E-01	-.3769E 01	-.2912E 01	-.1090E 00	.1168E 01	.3506E 01	.7475E 00
30	.1357E-01	-.4300E 01	-.3209E 01	-.6069E-01	.5531E 00	.5962E 01	.1271E 01
35	.8275E-02	-.4795E 01	-.2862E 01	-.3012E-01	.3503E 00	.9779E 01	.2085E 01
40	.5646E-02	-.5177E 01	-.2661E 01	-.1741E-01	.1457E 00	.1433E 02	.3055E 01
45	.4127E-02	-.5490E 01	-.2948E 01	-.1263E-01	.5479E-01	.1961E 02	.4180E 01
50	.3025E-02	-.5801E 01	-.2410E 01	-.7115E-02	.6317E-01	.2675E 02	.5703E 01
55	.2404E-02	-.6030E 01	-.2716E 01	-.5799E-02	.1508E-01	.3366E 02	.7175E 01
60	.1898E-02	-.6267E 01	-.2575E 01	-.4052E-02	.2002E-01	.4263E 02	.9088E 01
65	.1545E-02	-.6473E 01	-.2468E 01	-.2959E-02	.1252E-01	.5239E 02	.1117E 02
70	.1286E-02	-.6656E 01	-.2670E 01	-.2480E-02	.5485E-02	.6290E 02	.1341E 02
75	.1070E-02	-.6840E 01	-.1719E 01	-.1287E-02	.1367E-01	.7562E 02	.1612E 02
80	.9577E-03	-.6951E 01	-.2285E 01	-.1420E-02	-.1515E-02	.8449E 02	.1801E 02
85	.8338E-03	-.7089E 01	-.1497E 01	-.7836E-03	.7288E-02	.9705E 02	.2069E 02
90	.7654E-03	-.7175E 01	-.1308E 01	-.5990E-03	.2115E-02	.1057E 03	.2254E 02
95	.7132E-03	-.7246E 01	-.4997E 00	-.2068E-03	.4494E-02	.1135E 03	.2419E 02
100	.6951E-03	-.7271E 01	-.6903E 00	-.2638E-03	-.6531E-03	.1164E 03	.2482E 02
105	.6721E-03	-.7305E 01	-.9284E 00	-.3256E-03	-.7077E-03	.1204E 03	.2567E 02
110	.6437E-03	-.7348E 01	.1208E 01	.4070E-03	.8394E-02	.1257E 03	.2680E 02
115	.6792E-03	-.7295E 01	.1561E 01	.5345E-03	.1462E-02	.1191E 03	.2540E 02
120	.7258E-03	-.7228E 01	.1295E 01	.4516E-03	-.9506E-03	.1115E 03	.2377E 02
125	.7653E-03	-.7175E 01	.1812E 01	.6458E-03	.2225E-02	.1057E 03	.2254E 02
130	.8216E-03	-.7104E 01	.2349E 01	.8726E-03	.2599E-02	.9849E 02	.2100E 02
135	.8978E-03	-.7016E 01	.1591E 01	.6128E-03	-.2977E-02	.9014E 02	.1922E 02
140	.9512E-03	-.6958E 01	.1943E 01	.7691E-03	.1791E-02	.8507E 02	.1814E 02
145	.1018E-02	-.6890E 01	.2011E 01	.8233E-03	.6218E-03	.7946E 02	.1694E 02
150	.1090E-02	-.6821E 01	.2079E 01	.8814E-03	.6657E-03	.7422E 02	.1582E 02
155	.1167E-02	-.6753E 01	.2147E 01	.9436E-03	.7126E-03	.6933E 02	.1478E 02
160	.1249E-02	-.6685E 01	.2216E 01	.1010E-02	.7629E-03	.6476E 02	.1381E 02
165	.1338E-02	-.6617E 01	.2284E 01	.1081E-02	.8168E-03	.6049E 02	.1290E 02
170	.1432E-02	-.6549E 01	.2352E 01	.1158E-02	.8744E-03	.5651E 02	.1205E 02
175	.1533E-02	-.6481E 01	.2420E 01	.1239E-02	.9361E-03	.5278E 02	.1125E 02
180	.1641E-02	-.6412E 01	.0000E 00	.0000E 00	.0000E 00	.4931E 02	.1051E 02

SCAT= .8092E-01 30/45= .3288E 01 45/135= .4597E 01 SCAT30-130= .1729E-01

CH42/53 0200H 18164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2820E 00	-.1266E 01	-.2000E 00	-.1753E 01	.0000E 00	.1207E 00	.3016E-01
5	.1290E 00	-.2048E 01	-.1044E 01	-.7621E 00	.1135E 02	.2638E 00	.4592E-01
10	.6248E-01	-.2773E 01	-.1647E 01	-.3487E 00	.4737E 01	.5446E 00	.1361E 00
15	.3205E-01	-.3441E 01	-.2122E 01	-.1678E 00	.2074E 01	.1062E 01	.2653E 00
20	.1740E-01	-.4051E 01	-.2480E 01	-.8475E-01	.9516E 00	.1955E 01	.4886E 00
25	.1001E-01	-.4604E 01	-.2869E 01	-.4671E-01	.4358E 00	.3400E 01	.8496E 00
30	.5931E-02	-.5128E 01	-.2928E 01	-.2469E-01	.2524E 00	.5738E 01	.1434E 01
35	.3777E-02	-.5579E 01	-.2851E 01	-.1370E-01	.1259E 00	.9010E 01	.2251E 01
40	.2581E-02	-.5960E 01	-.2717E 01	-.8100E-02	.6421E-01	.1319E 02	.3295E 01
45	.1874E-02	-.6280E 01	-.2678E 01	-.5279E-02	.3232E-01	.1816E 02	.4537E 01
50	.1413E-02	-.6562E 01	-.2573E 01	-.3522E-02	.2014E-01	.2408E 02	.6016E 01
55	.1106E-02	-.6807E 01	-.2096E 01	-.2113E-02	.1615E-01	.3077E 02	.7688E 01
60	.9216E-03	-.6989E 01	-.2654E 01	-.2021E-02	.1048E-02	.3692E 02	.9226E 01
65	.7452E-03	-.7202E 01	-.1945E 01	-.1146E-02	.1003E-01	.4566E 02	.1141E 02
70	.6451E-03	-.7346E 01	-.1449E 01	-.7031E-03	.5079E-02	.5274E 02	.1318E 02
75	.5838E-03	-.7446E 01	-.2178E 01	-.8773E-03	-.1096E-02	.5829E 02	.1456E 02
80	.5072E-03	-.7587E 01	-.1640E 01	-.5502E-03	.3748E-02	.6709E 02	.1676E 02
85	.4592E-03	-.7686E 01	-.1490E 01	-.4297E-03	.1382E-02	.7410E 02	.1852E 02
90	.4217E-03	-.7771E 01	-.1818E 00	-.4727E-04	.4382E-02	.8069E 02	.2016E 02
95	.4176E-03	-.7781E 01	.1665E-01	.4088E-05	.5885E-03	.8149E 02	.2036E 02
100	.4179E-03	-.7780E 01	.5798E 00	.1374E-03	.1528E-02	.8142E 02	.2034E 02
105	.4299E-03	-.7752E 01	-.8860E 00	-.1989E-03	-.3854E-02	.7915E 02	.1978E 02
110	.4126E-03	-.7793E 01	-.4051E 00	-.8437E-04	.1313E-02	.8248E 02	.2061E 02
115	.4052E-03	-.7811E 01	.1208E 01	.2449E-03	.3774E-02	.8398E 02	.2098E 02
120	.4266E-03	-.7760E 01	.1471E 01	.3025E-03	.6600E-03	.7977E 02	.1993E 02
125	.4530E-03	-.7700E 01	.1772E 01	.3736E-03	.8143E-03	.7512E 02	.1877E 02
130	.4856E-03	-.7630E 01	.2827E 01	.6265E-03	.2898E-02	.7008E 02	.1751E 02
135	.5403E-03	-.7523E 01	.1415E 01	.3268E-03	-.3434E-02	.6298E 02	.1574E 02
140	.5688E-03	-.7472E 01	.2008E 01	.4759E-03	.1708E-02	.5983E 02	.1495E 02
145	.6103E-03	-.7402E 01	.2079E 01	.5106E-03	.3982E-03	.5575E 02	.1393E 02
150	.6549E-03	-.7331E 01	.2149E 01	.5479E-03	.4272E-03	.5196E 02	.1298E 02
155	.7027E-03	-.7261E 01	.2220E 01	.5879E-03	.4584E-03	.4843E 02	.1210E 02
160	.7540E-03	-.7190E 01	.2290E 01	.6309E-03	.4919E-03	.4513E 02	.1128E 02
165	.8091E-03	-.7120E 01	.2361E 01	.6769E-03	.5278E-03	.4206E 02	.1051E 02
170	.8681E-03	-.7049E 01	.2431E 01	.7263E-03	.5644E-03	.3920E 02	.9794E 01
175	.9315E-03	-.6979E 01	.2502E 01	.7794E-03	.6077E-03	.3653E 02	.9128E 01
180	.9995E-03	-.6908E 01	.0000E 00	.0000E 00	.0000E 00	.3404E 02	.8507E 01

SCAT= .3403E-01 30/45= .3165E 01 45/135= .3469E 01 SCAT30-130= .8503E-02

CH42/54 18164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00 … 155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	.1005E-02	-.6903E 01	.4777E 00	.1706E-03	.2852E-04	.8256E 02	.2521E 02
165	.1020E-02	-.6888E 01	.4924E 00	.1731E-03	.2894E-04	.8139E 02	.2489E 02
170	.1035E-02	-.6873E 01	.5070E 00	.1756E-03	.2937E-04	.8016E 02	.2448E 02
175	.1051E-02	-.6858E 01	.5218E 00	.1782E-03	.2981E-04	.7899E 02	.2413E 02
180	.1066E-02	-.6844E 01	.0000E 00	.0000E 00	.0000E 00	.7784E 02	.2377E 02

SCAT= .8298E-01 30/45= .2884E 01 45/135= .6244E 01 SCAT30-130= .2535E-01

CH42/55 2235H 18164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00 … 150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	.8724E-03	-.7044E 01	.9147E-01	.2907E-04	.9535E-06	.1213E 03	.3181E 02
160	.8750E-03	-.7041E 01	.9438E-01	.2916E-04	.9823E-06	.1210E 03	.3172E 02
165	.8775E-03	-.7038E 01	.9728E-01	.2925E-04	.9726E-06	.1206E 03	.3163E 02
170	.8801E-03	-.7036E 01	.1002E 00	.2933E-04	.9669E-06	.1203E 03	.3154E 02
175	.8826E-03	-.7033E 01	.1031E 00	.2942E-04	.9839E-06	.1199E 03	.3144E 02
180	.8852E-03	-.7030E 01	.0000E 00	.0000E 00	.0000E 00	.1196E 03	.3135E 02

SCAT= .1058E 00 30/45= .3176E 01 45/135= .7944E 01 SCAT30-130= .2775E-01

CH42/56 2300H 18164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.5228E 00	-.6485E 00	-.1830E 00	-.3063E 01	.0000E 00	.1365E 00	.3498E-01
5	.2556E 00	-.1364E 01	-.9643E 00	-.1428E 01	.1874E 02	.2793E 00	.7159E-01
10	.1310E 00	-.2033E 01	-.1531E 01	-.6943E 00	.8402E 01	.5450E 00	.1396E 00
15	.7039E-01	-.2654E 01	-.1994E 01	-.3521E 00	.3921E 01	.1014E 01	.2598E 00
20	.3967E-01	-.3227E 01	-.2358E 01	-.1860E 00	.1904E 01	.1800E 01	.4610E 00
25	.2344E-01	-.3753E 01	-.2724E 01	-.1051E 00	.9261E 00	.3045E 01	.7801E 00
30	.1426E-01	-.4250E 01	-.2818E 01	-.5760E-01	.5449E 00	.5005E 01	.1282E 01
35	.9237E-02	-.4685E 01	-.2824E 01	-.3326E-01	.2789E 00	.7728E 01	.1980E 01
40	.6335E-02	-.5062E 01	-.3021E 01	-.2173E-01	.1320E 00	.1127E 02	.2887E 01
45	.4439E-02	-.5417E 01	-.2653E 01	-.1240E-01	.1069E 00	.1608E 02	.4120E 01
50	.3356E-02	-.5697E 01	-.2631E 01	-.8530E-02	.4439E-01	.2127E 02	.5449E 01
55	.2612E-02	-.5948E 01	-.2975E 01	-.6825E-02	.1954E-01	.2733E 02	.7002E 01
60	.2016E-02	-.6207E 01	-.2038E 01	-.3478E-02	.3835E-01	.3541E 02	.9070E 01
65	.1713E-02	-.6370E 01	-.2919E 01	-.3818E-02	-.3902E-02	.4168E 02	.1068E 02
70	.1379E-02	-.6586E 01	-.2510E 01	-.2513E-02	.1496E-01	.5175E 02	.1326E 02
75	.1160E-02	-.6759E 01	-.2235E 01	-.1786E-02	.8332E-02	.6153E 02	.1576E 02
80	.1004E-02	-.6903E 01	-.2432E 01	-.1578E-02	.2389E-02	.7108E 02	.1821E 02
85	.8466E-03	-.7051E 01	-.2178E 01	-.1163E-02	.4758E-02	.8237E 02	.2110E 02
90	.7651E-03	-.7175E 01	-.1562E 01	-.7101E-03	.5104E-02	.9330E 02	.2390E 02
95	.7032E-03	-.7260E 01	-.1285E 01	-.5141E-03	.2246E-02	.1015E 03	.2601E 02
100	.6583E-03	-.7326E 01	-.3011E 00	-.1100E-03	.4631E-02	.1084E 03	.2778E 02
105	.6487E-03	-.7341E 01	-.1586E 00	-.5463E-04	.6349E-03	.1100E 03	.2819E 02
110	.6439E-03	-.7348E 01	-.1914E 01	-.6017E-03	-.6269E-02	.1109E 03	.2840E 02
115	.5914E-03	-.7433E 01	.1509E 00	.4367E-04	.7395E-02	.1207E 03	.3092E 02
120	.5952E-03	-.7427E 01	.4762E 00	.1339E-03	.1034E-02	.1199E 03	.3072E 02
125	.6069E-03	-.7407E 01	.1151E 01	.3212E-03	.2147E-02	.1176E 03	.3013E 02
130	.6350E-03	-.7362E 01	.1443E 01	.4074E-03	.9870E-03	.1124E 03	.2880E 02
135	.6705E-03	-.7307E 01	.4472E 00	.1260E-03	-.3224E-02	.1065E 03	.2727E 02
140	.6815E-03	-.7291E 01	.8992E 00	.2503E-03	.1425E-02	.1047E 03	.2683E 02
145	.7033E-03	-.7260E 01	.9307E 00	.2584E-03	.9196E-04	.1015E 03	.2600E 02
150	.7259E-03	-.7228E 01	.9623E 00	.2666E-03	.9409E-04	.9834E 02	.2519E 02
155	.7492E-03	-.7197E 01	.9938E 00	.2752E-03	.9795E-04	.9529E 02	.2441E 02
160	.7732E-03	-.7165E 01	.1025E 01	.2840E-03	.1011E-03	.9233E 02	.2365E 02
165	.7980E-03	-.7133E 01	.1057E 01	.2931E-03	.1043E-03	.8946E 02	.2292E 02
170	.8235E-03	-.7102E 01	.1088E 01	.3025E-03	.1077E-03	.8668E 02	.2220E 02
175	.8499E-03	-.7070E 01	.1120E 01	.3122E-03	.1111E-03	.8399E 02	.2151E 02
180	.8772E-03	-.7039E 01	.0000E 00	.0000E 00	.0000E 00	.8138E 02	.2085E 02

SCAT= .7138E-01 30/45= .3214E 01 45/135= .6620E 01 SCAT30-130= .1829E-01

CH42/57 2320H 18164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3282E 00	-.1114E 01	-.1740E 00	-.1857E 01	.0000E 00	.1597E 00	.4704E-01
5	.1662E 00	-.1795E 01	-.9144E 00	-.8940E 00	.1103E 02	.3155E 00	.9292E-01
10	.8815E-01	-.2429E 01	-.1448E 01	-.4486E 00	.5103E 01	.5946E 00	.1751E 00
15	.4900E-01	-.3016E 01	-.1879E 01	-.2345E 00	.2454E 01	.1070E 01	.3151E 00
20	.2853E-01	-.3557E 01	-.2214E 01	-.1275E 00	.1226E 01	.1837E 01	.5411E 00
25	.1741E-01	-.4051E 01	-.2547E 01	-.7410E-01	.6114E 00	.3010E 01	.8867E 00
30	.1094E-01	-.4515E 01	-.2685E 01	-.4251E-01	.3621E 00	.4789E 01	.1411E 01
35	.7235E-02	-.4929E 01	-.2603E 01	-.2434E-01	.2082E 00	.7245E 01	.2134E 01
40	.5111E-02	-.5276E 01	-.2644E 01	-.1567E-01	.9932E-01	.1026E 02	.3021E 01
45	.3744E-02	-.5588E 01	-.2561E 01	-.1014E-01	.6334E-01	.1400E 02	.4124E 01
50	.2858E-02	-.5858E 01	-.2282E 01	-.6403E-02	.4287E-01	.1834E 02	.5401E 01
55	.2300E-02	-.6075E 01	-.3220E 01	-.6440E-02	-.4170E-03	.2279E 02	.6714E 01
60	.1738E-02	-.6355E 01	-.2284E 01	-.3329E-02	.3564E-01	.3017E 02	.8885E 01
65	.1447E-02	-.6538E 01	-.2458E 01	-.2762E-02	.6504E-02	.3622E 02	.1067E 02
70	.1206E-02	-.6720E 01	-.2688E 01	-.2339E-02	.4842E-02	.4346E 02	.1280E 02
75	.1002E-02	-.6906E 01	-.1953E 01	-.1360E-02	.1122E-01	.5232E 02	.1541E 02
80	.8832E-03	-.7032E 01	-.2066E 01	-.1191E-02	.1930E-02	.5935E 02	.1748E 02
85	.7793E-03	-.7157E 01	-.2210E 01	-.1060E-02	.1512E-02	.6726E 02	.1981E 02
90	.6868E-03	-.7283E 01	-.1234E 01	-.5001E-03	.6318E-02	.7632E 02	.2248E 02
95	.6425E-03	-.7350E 01	-.4946E 00	-.1844E-03	.3709E-02	.8159E 02	.2403E 02
100	.6244E-03	-.7376E 01	-.4670E 00	-.1617E-03	.2600E-03	.8368E 02	.2465E 02
105	.6123E-03	-.7398E 01	-.9467E 00	-.3023E-03	-.1611E-02	.8561E 02	.2522E 02
110	.5859E-03	-.7442E 01	-.7471E 00	-.2193E-03	.9507E-03	.8947E 02	.2635E 02
115	.5667E-03	-.7476E 01	-.3105E 00	-.8525E-04	.1536E-02	.9249E 02	.2724E 02
120	.5593E-03	-.7489E 01	.5041E 00	.1332E-03	.2504E-02	.9372E 02	.2760E 02
125	.5709E-03	-.7468E 01	.9443E 00	.2468E-03	.1302E-02	.9181E 02	.2704E 02
130	.5925E-03	-.7431E 01	.2291E 01	.6132E-03	.4190E-02	.8847E 02	.2606E 02
135	.6460E-03	-.7345E 01	.3827E-02	.1030E-05	-.7015E-02	.8114E 02	.2390E 02
140	.6461E-03	-.7345E 01	.9099E 00	.2402E-03	.2741E-02	.8113E 02	.2390E 02
145	.6670E-03	-.7313E 01	.9419E 00	.2488E-03	.8930E-04	.7890E 02	.2315E 02
150	.6887E-03	-.7281E 01	.9730E 00	.2568E-03	.9221E-04	.7611E 02	.2242E 02
155	.7110E-03	-.7249E 01	.1006E 01	.2644E-03	.9519E-04	.7372E 02	.2171E 02
160	.7341E-03	-.7217E 01	.1030E 01	.2729E-03	.9830E-04	.7140E 02	.2103E 02
165	.7579E-03	-.7185E 01	.1070E 01	.2818E-03	.1015E-03	.6916E 02	.2037E 02
170	.7825E-03	-.7153E 01	.1102E 01	.2909E-03	.1048E-03	.6699E 02	.1973E 02
175	.8079E-03	-.7121E 01	.1133E 01	.3004E-03	.1082E-03	.6488E 02	.1911E 02
180	.8341E-03	-.7089E 01	.0000E 00	.0000E 00	.0000E 00	.6284E 02	.1851E 02

SCAT= .5242E-01 30/45= .2924E 01 45/135= .5795E 01 SCAT30-130= .1544E-01

CH42/58 2340H 18164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3677E 00	-.1000E 01	-.1723E 00	-.2066E 01	.0000E 00	.1709E 00	.5418E-01
5	.1875E 00	-.1674E 01	-.9034E 00	-.9998E 00	.1221E 02	.3352E 00	.1063E 00
10	.1002E 00	-.2300E 01	-.1427E 01	-.5046E 00	.5674E 01	.6271E 00	.1988E 00
15	.5619E-01	-.2879E 01	-.1847E 01	-.2654E 00	.2742E 01	.1119E 01	.3546E 00
20	.3303E-01	-.3410E 01	-.2160E 01	-.1452E 00	.1377E 01	.1903E 01	.6031E 00
25	.2037E-01	-.3894E 01	-.2460E 01	-.8433E-01	.6972E 00	.3086E 01	.9783E 00
30	.1301E-01	-.4342E 01	-.2539E 01	-.4827E-01	.4132E 00	.4833E 01	.1532E 01
35	.8793E-02	-.4734E 01	-.2609E 01	-.2964E-01	.2136E 00	.7148E 01	.2266E 01
40	.6207E-02	-.5082E 01	-.2468E 01	-.1789E-01	.1346E 00	.1013E 02	.3210E 01
45	.4645E-02	-.5372E 01	-.2426E 01	-.1201E-01	.6744E-01	.1353E 02	.4289E 01
50	.3598E-02	-.5628E 01	-.2676E 01	-.9279E-02	.3124E-01	.1747E 02	.5538E 01
55	.2788E-02	-.5883E 01	-.2260E 01	-.5702E-02	.4098E-01	.2255E 02	.7147E 01
60	.2290E-02	-.6079E 01	-.2610E 01	-.4948E-02	.8646E-02	.2744E 02	.8700E 01
65	.1858E-02	-.6288E 01	-.2282E 01	-.3313E-02	.1874E-01	.3382E 02	.1072E 02
70	.1569E-02	-.6457E 01	-.1927E 01	-.2238E-02	.1231E-01	.4005E 02	.1270E 02
75	.1374E-02	-.6590E 01	-.2314E 01	-.2184E-02	.6201E-03	.4575E 02	.1450E 02
80	.1183E-02	-.6739E 01	-.1004E 01	-.8007E-03	.1585E-01	.5311E 02	.1684E 02
85	.1113E-02	-.6800E 01	-.2151E 01	-.1476E-02	-.7741E-02	.5645E 02	.1789E 02
90	.9847E-03	-.6923E 01	-.5920E 00	-.3554E-03	.1284E-01	.6383E 02	.2023E 02
95	.9537E-03	-.6955E 01	-.1283E 01	-.6961E-03	-.3904E-02	.6591E 02	.2089E 02
100	.8929E-03	-.7021E 01	.1510E-01	.7540E-05	.8063E-02	.7039E 02	.2231E 02
105	.8936E-03	-.7020E 01	-.4189E 00	-.1974E-03	-.2349E-02	.7034E 02	.2230E 02
110	.8763E-03	-.7040E 01	-.6685E 00	-.2940E-03	-.1107E-02	.7172E 02	.2273E 02
115	.8507E-03	-.7069E 01	.3953E 00	.1654E-03	.5264E-02	.7388E 02	.2342E 02
120	.8651E-03	-.7053E 01	-.4316E 00	-.1731E-03	-.3879E-02	.7265E 02	.2303E 02
125	.8500E-03	-.7070E 01	.2069E 01	.8219E-03	.1140E-01	.7394E 02	.2344E 02
130	.9217E-03	-.6989E 01	.1329E 01	.5414E-03	-.3214E-02	.6819E 02	.2162E 02
135	.9690E-03	-.6939E 01	.3499E 00	.1504E-03	-.4481E-02	.6486E 02	.2056E 02
140	.9821E-03	-.6926E 01	.9226E 00	.3703E-03	.2520E-02	.6400E 02	.2029E 02
145	.1014E-02	-.6893E 01	.9550E 00	.3825E-03	.1396E-03	.6196E 02	.1964E 02
150	.1048E-02	-.6861E 01	.9873E 00	.3951E-03	.1442E-03	.5999E 02	.1901E 02
155	.1082E-02	-.6829E 01	.1020E 01	.4081E-03	.1490E-03	.5807E 02	.1841E 02
160	.1118E-02	-.6796E 01	.1052E 01	.4215E-03	.1539E-03	.5622E 02	.1782E 02
165	.1155E-02	-.6764E 01	.1084E 01	.4354E-03	.1589E-03	.5443E 02	.1725E 02
170	.1193E-02	-.6732E 01	.1117E 01	.4497E-03	.1642E-03	.5270E 02	.1670E 02
175	.1232E-02	-.6699E 01	.1149E 01	.4645E-03	.1695E-03	.5102E 02	.1617E 02
180	.1272E-02	-.6667E 01	.0000E 00	.0000E 00	.0000E 00	.4940E 02	.1566E 02

SCAT= .6285E-01 30/45= .2800E 01 45/135= .4794E 01 SCAT30-130= .1992E-01

CH42/59 0005H 19164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.4265E 00	-.8520E 00	-.1864E 00	-.2530E 01	.0000E 00	.1454E 00	.4315E-01
5	.2057E 00	-.1581E 01	-.9731E 00	-.1157E 01	.1574E 02	.3015E 00	.8947E-01
10	.1048E 00	-.2256E 01	-.1529E 01	-.5548E 00	.6896E 01	.5918E 00	.1756E 00
15	.5639E-01	-.2876E 01	-.1965E 01	-.2790E 00	.3161E 01	.1100E 01	.3264E 00
20	.3204E-01	-.3441E 01	-.2288E 01	-.1468E 00	.1514E 01	.1936E 01	.5744E 00
25	.1923E-01	-.3951E 01	-.2576E 01	-.8259E-01	.7358E 00	.3225E 01	.9571E 00
30	.1202E-01	-.4421E 01	-.2591E 01	-.4537E-01	.4266E 00	.5159E 01	.1531E 01
35	.8065E-02	-.4820E 01	-.2774E 01	-.2861E-01	.1920E 00	.7691E 01	.2282E 01
40	.5568E-02	-.5191E 01	-.2280E 01	-.1503E-01	.1556E 00	.1114E 02	.3306E 01
45	.4257E-02	-.5459E 01	-.2474E 01	-.1119E-01	.4398E-01	.1457E 02	.4324E 01
50	.3280E-02	-.5720E 01	-.2605E 01	-.8262E-02	.3356E-01	.1891E 02	.5612E 01
55	.2559E-02	-.5968E 01	-.1878E 01	-.4421E-02	.4402E-01	.2424E 02	.7193E 01
60	.2173E-02	-.6132E 01	-.2922E 01	-.5193E-02	-.8846E-02	.2854E 02	.8470E 01
65	.1720E-02	-.6365E 01	-.1740E 01	-.2304E-02	.3219E-01	.3606E 02	.1070E 02
70	.1512E-02	-.6494E 01	-.2533E 01	-.2770E-02	-.4519E-02	.4102E 02	.1217E 02
75	.1269E-02	-.6669E 01	-.2089E 01	-.1835E-02	.1082E-01	.4886E 02	.1450E 02
80	.1109E-02	-.6804E 01	-.9421E 00	-.7057E-03	.1294E-01	.5591E 02	.1659E 02
85	.1048E-02	-.6861E 01	-.1977E 01	-.1283E-02	-.6617E-02	.5920E 02	.1757E 02
90	.9358E-03	-.6974E 01	-.7806E 00	-.4432E-03	.9625E-02	.6628E 02	.1967E 02
95	.8971E-03	-.7016E 01	-.1141E 01	-.5843E-03	-.1617E-02	.6914E 02	.2052E 02
100	.8461E-03	-.7075E 01	-.5379E 00	-.2511E-03	.3818E-02	.7330E 02	.2175E 02
105	.8242E-03	-.7101E 01	-.7270E 00	-.3141E-03	-.7212E-03	.7525E 02	.2233E 02
110	.7968E-03	-.7135E 01	-.7094E 00	-.2834E-03	.3512E-03	.7784E 02	.2310E 02
115	.7721E-03	-.7166E 01	.1387E 01	.5379E-03	.9411E-02	.8033E 02	.2384E 02
120	.8190E-03	-.7107E 01	.9954E-01	.3821E-04	-.5726E-02	.7573E 02	.2247E 02
125	.8223E-03	-.7103E 01	.6091E 00	.2270E-03	.2173E-02	.7542E 02	.2238E 02
130	.8422E-03	-.7079E 01	.8400E 00	.3109E-03	.9517E-03	.7364E 02	.2185E 02
135	.8694E-03	-.7048E 01	.7630E 00	.2803E-03	-.3503E-03	.7134E 02	.2117E 02
140	.8938E-03	-.7020E 01	.7559E 00	.2753E-03	-.5701E-04	.6939E 02	.2059E 02
145	.9178E-03	-.6993E 01	.7824E 00	.2827E-03	.8401E-04	.6758E 02	.2005E 02
150	.9425E-03	-.6967E 01	.8090E 00	.2903E-03	.8707E-04	.6581E 02	.1953E 02
155	.9679E-03	-.6940E 01	.8355E 00	.2981E-03	.8944E-04	.6408E 02	.1902E 02
160	.9939E-03	-.6914E 01	.8620E 00	.3061E-03	.9183E-04	.6241E 02	.1852E 02
165	.1021E-02	-.6887E 01	.8886E 00	.3144E-03	.9430E-04	.6077E 02	.1803E 02
170	.1048E-02	-.6861E 01	.9151E 00	.3228E-03	.9682E-04	.5918E 02	.1756E 02
175	.1076E-02	-.6834E 01	.9416E 00	.3315E-03	.9945E-04	.5763E 02	.1710E 02
180	.1105E-02	-.6808E 01	.0000E 00	.0000E 00	.0000E 00	.5612E 02	.1666E 02

SCAT= .6202E-01 30/45= .2825E 01 45/135= .4896E 01 SCAT30-130= .1841E-01

CH42/60 0025H 19164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3095E 00	-.1173E 01	-.1606E 00	-.1654E 01	.0000E 00	.1942E 00	.6477E-01
5	.1652E 00	-.1801E 01	-.8464E 00	-.8399E 00	.9327E 01	.3640E 00	.1214E 00
10	.9186E-01	-.2388E 01	-.1349E 01	-.4424E 00	.4555E 01	.6544E 00	.2182E 00
15	.5325E-01	-.2933E 01	-.1752E 01	-.2415E 00	.2302E 01	.1129E 01	.3764E 00
20	.3217E-01	-.3437E 01	-.2073E 01	-.1365E 00	.1203E 01	.1869E 01	.6231E 00
25	.2025E-01	-.3899E 01	-.2365E 01	-.8131E-01	.6327E 00	.2968E 01	.9896E 00
30	.1316E-01	-.4331E 01	-.2617E 01	-.5006E-01	.3581E 00	.4568E 01	.1523E 01
35	.8791E-02	-.4734E 01	-.2442E 01	-.2803E-01	.2523E 00	.6838E 01	.2280E 01
40	.6345E-02	-.5060E 01	-.2483E 01	-.1844E-01	.1100E 00	.9475E 01	.3159E 01
45	.4736E-02	-.5353E 01	-.2628E 01	-.1313E-01	.6087E-01	.1269E 02	.4233E 01
50	.3590E-02	-.5630E 01	-.2261E 01	-.7975E-02	.5902E-01	.1674E 02	.5583E 01
55	.2894E-02	-.5845E 01	-.2582E 01	-.6675E-02	.1489E-01	.2077E 02	.6925E 01
60	.2312E-02	-.6070E 01	-.2462E 01	-.4738E-02	.2220E-01	.2600E 02	.8670E 01
65	.1898E-02	-.6267E 01	-.2349E 01	-.3470E-02	.1453E-01	.3167E 02	.1056E 02
70	.1596E-02	-.6440E 01	-.2075E 01	-.2439E-02	.1181E-01	.3767E 02	.1256E 02
75	.1383E-02	-.6584E 01	-.2316E 01	-.2208E-02	.2739E-02	.4347E 02	.1450E 02
80	.1191E-02	-.6733E 01	-.1623E 01	-.1279E-02	.1056E-01	.5048E 02	.1683E 02
85	.1079E-02	-.6832E 01	-.1763E 01	-.1185E-02	.1070E-02	.5570E 02	.1857E 02
90	.9757E-03	-.6932E 01	-.9149E 00	-.5596E-03	.7401E-02	.6161E 02	.2054E 02
95	.9286E-03	-.6982E 01	-.6208E 00	-.3370E-03	.2313E-02	.6474E 02	.2159E 02
100	.8992E-03	-.7014E 01	-.6027E 00	-.2986E-03	.4408E-03	.6686E 02	.2229E 02
105	.8731E-03	-.7043E 01	-.6827E 00	-.3120E-03	-.1624E-03	.6885E 02	.2296E 02
110	.8458E-03	-.7075E 01	-.2943E 00	-.1260E-03	.2140E-02	.7107E 02	.2370E 02
115	.8348E-03	-.7088E 01	.4035E 00	.1657E-03	.3343E-02	.7201E 02	.2401E 02
120	.8493E-03	-.7071E 01	.3704E 00	.1403E-03	-.1995E-03	.7078E 02	.2360E 02
125	.8622E-03	-.7056E 01	.2525E 00	.9834E-04	-.5724E-03	.6972E 02	.2325E 02
130	.8708E-03	-.7046E 01	.9607E 00	.3716E-03	.3131E-02	.6903E 02	.2302E 02
135	.9032E-03	-.7010E 01	.3122E 00	.1182E-03	-.2903E-02	.6656E 02	.2219E 02
140	.9135E-03	-.6998E 01	.5201E 00	.1928E-03	.8551E-03	.6580E 02	.2194E 02
145	.9304E-03	-.6980E 01	.5384E 00	.1964E-03	.4069E-04	.6461E 02	.2154E 02
150	.9475E-03	-.6962E 01	.5566E 00	.2000E-03	.4145E-04	.6345E 02	.2116E 02
155	.9649E-03	-.6943E 01	.5748E 00	.2037E-03	.4220E-04	.6230E 02	.2077E 02
160	.9827E-03	-.6925E 01	.5931E 00	.2074E-03	.4300E-04	.6117E 02	.2040E 02
165	.1001E-02	-.6907E 01	.6114E 00	.2112E-03	.4377E-04	.6007E 02	.2003E 02
170	.1019E-02	-.6889E 01	.6296E 00	.2151E-03	.4460E-04	.5898E 02	.1967E 02
175	.1038E-02	-.6870E 01	.6479E 00	.2191E-03	.4542E-04	.5791E 02	.1931E 02
180	.1057E-02	-.6852E 01	.0000E 00	.0000E 00	.0000E 00	.5686E 02	.1896E 02

SCAT= .6012E-01 30/45= .2770E 01 45/135= .5243E 01 SCAT30-130= .2004E-01

CH42/61 0035H 19164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.8102E 00	-.2104E 00	-.2140E 00	-.5264E 01	.0000E 00	.9987E-01	.2129E-01
5	.3508E 00	-.1047E 01	-.1117E 01	-.2167E 01	.3549E 02	.2306E 00	.4917E-01
10	.1617E 00	-.1822E 01	-.1755E 01	-.9437E 00	.1402E 02	.5003E 00	.1067E 00
15	.7939E-01	-.2533E 01	-.2256E 01	-.4343E 00	.5837E 01	.1019E 01	.2173E 00
20	.4148E-01	-.3182E 01	-.2628E 01	-.2109E 00	.2560E 01	.1951E 01	.4159E 00
25	.2308E-01	-.3769E 01	-.2912E 01	-.1090E 00	.1168E 01	.3506E 01	.7475E 00
30	.1357E-01	-.4300E 01	-.3209E 01	-.6069E-01	.5531E 00	.5962E 01	.1271E 01
35	.8275E-02	-.4795E 01	-.2862E 01	-.3012E-01	.3503E 00	.9779E 01	.2085E 01
40	.5646E-02	-.5177E 01	-.2661E 01	-.1741E-01	.1457E 00	.1433E 02	.3055E 01
45	.4127E-02	-.5490E 01	-.2948E 01	-.1263E-01	.5479E-01	.1961E 02	.4180E 01
50	.3025E-02	-.5801E 01	-.2410E 01	-.7115E-02	.6317E-01	.2675E 02	.5703E 01
55	.2404E-02	-.6030E 01	-.2716E 01	-.5799E-02	.1508E-01	.3366E 02	.7175E 01
60	.1898E-02	-.6267E 01	-.2575E 01	-.4052E-02	.2002E-01	.4263E 02	.9088E 01
65	.1545E-02	-.6473E 01	-.2468E 01	-.2959E-02	.1252E-01	.5239E 02	.1117E 02
70	.1286E-02	-.6656E 01	-.2670E 01	-.2488E-02	.5405E-02	.6290E 02	.1341E 02
75	.1070E-02	-.6840E 01	-.1719E 01	-.1287E-02	.1367E-01	.7562E 02	.1612E 02
80	.9577E-03	-.6951E 01	-.2285E 01	-.1420E-02	-.1515E-02	.8449E 02	.1801E 02
85	.8338E-03	-.7089E 01	-.1497E 01	-.7836E-03	.7288E-02	.9705E 02	.2069E 02
90	.7654E-03	-.7175E 01	-.1300E 01	-.5990E-03	.2115E-02	.1057E 03	.2254E 02
95	.7132E-03	-.7246E 01	-.4997E 00	-.2068E-03	.4494E-02	.1135E 03	.2419E 02
100	.6951E-03	-.7271E 01	-.6903E 00	-.2638E-03	-.6531E-03	.1164E 03	.2482E 02
105	.6721E-03	-.7305E 01	-.9284E 00	-.3256E-03	-.7077E-03	.1204E 03	.2567E 02
110	.6437E-03	-.7348E 01	.1208E 01	.4070E-03	.8394E-02	.1257E 03	.2680E 02
115	.6792E-03	-.7295E 01	.1561E 01	.5349E-03	.1462E-02	.1191E 03	.2540E 02
120	.7258E-03	-.7228E 01	.1295E 01	.4516E-03	-.9506E-03	.1115E 03	.2377E 02
125	.7653E-03	-.7175E 01	.1812E 01	.6450E-03	.2225E-02	.1057E 03	.2254E 02
130	.8216E-03	-.7104E 01	.2349E 01	.8726E-03	.2590E-02	.9840E 02	.2100E 02
135	.8978E-03	-.7016E 01	.1591E 01	.6120E-03	-.2977E-02	.9014E 02	.1922E 02
140	.9512E-03	-.6958E 01	.1943E 01	.7691E-03	.1791E-02	.8507E 02	.1814E 02
145	.1018E-02	-.6890E 01	.2011E 01	.8233E-03	.6218E-03	.7946E 02	.1694E 02
150	.1090E-02	-.6821E 01	.2079E 01	.8814E-03	.6657E-03	.7422E 02	.1582E 02
155	.1167E-02	-.6753E 01	.2147E 01	.9436E-03	.7126E-03	.6933E 02	.1478E 02
160	.1249E-02	-.6685E 01	.2216E 01	.1010E-02	.7629E-03	.6476E 02	.1381E 02
165	.1338E-02	-.6617E 01	.2284E 01	.1081E-02	.8168E-03	.6049E 02	.1290E 02
170	.1432E-02	-.6549E 01	.2352E 01	.1158E-02	.8744E-03	.5651E 02	.1205E 02
175	.1533E-02	-.6481E 01	.2420E 01	.1239E-02	.9361E-03	.5278E 02	.1125E 02
180	.1641E-02	-.6412E 01	.0000E 00	.0000E 00	.0000E 00	.4931E 02	.1051E 02

SCAT= .8092E-01 30/45= .3288E 01 45/135= .4597E 01 SCAT30-130= .1725E-01

CH42/62 0055H 19164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.5525E 00	-.5933E 00	-.1814E 00	-.3217E 01	.0000E 00	.1400E 00	.3743E-01
5	.2717E 00	-.1303E 01	-.9559E 00	-.1500E 01	.1959E 02	.2843E 00	.7611E-01
10	.1401E 00	-.1965E 01	-.1517E 01	-.7375E 00	.8830E 01	.5553E 00	.1476E 00
15	.7576E-01	-.2580E 01	-.1973E 01	-.3760E 00	.4143E 01	.1027E 01	.2730E 00
20	.4294E-01	-.3148E 01	-.2332E 01	-.1996E 00	.2021E 01	.1812E 01	.4816E 00
25	.2552E-01	-.3668E 01	-.2643E 01	-.1118E 00	.1086E 01	.3049E 01	.8104E 00
30	.1576E-01	-.4150E 01	-.2814E 01	-.6357E-01	.5532E 00	.4936E 01	.1312E 01
35	.1021E-01	-.4584E 01	-.2716E 01	-.3560E-01	.3209E 00	.7617E 01	.2029E 01
40	.7108E-02	-.4947E 01	-.3009E 01	-.2431E-01	.1299E 00	.1095E 02	.2910E 01
45	.4987E-02	-.5301E 01	-.2590E 01	-.1365E-01	.1221E 00	.1560E 02	.4147E 01
50	.3796E-02	-.5574E 01	-.2505E 01	-.9238E-02	.5054E-01	.2050E 02	.5449E 01
55	.2989E-02	-.5813E 01	-.2645E 01	-.7843E-02	.2515E-01	.2603E 02	.6918E 01
60	.2375E-02	-.6043E 01	-.2939E 01	-.5690E-02	.1542E-01	.3276E 02	.8709E 01
65	.1870E-02	-.6278E 01	-.2257E 01	-.3314E-02	.2731E-01	.4144E 02	.1102E 02
70	.1588E-02	-.6449E 01	-.2471E 01	-.3063E-02	.2003E-02	.4890E 02	.1302E 02
75	.1321E-02	-.6629E 01	-.2479E 01	-.2238E-02	.9450E-02	.5809E 02	.1544E 02
80	.1126E-02	-.6789E 01	-.2190E 01	-.1610E-02	.7201E-02	.6911E 02	.1837E 02
85	.9853E-03	-.6923E 01	-.1781E 01	-.1093E-02	.5922E-02	.7896E 02	.2099E 02
90	.8899E-03	-.7024E 01	-.1174E 01	-.6270E-03	.5337E-02	.8743E 02	.2324E 02
95	.8352E-03	-.7088E 01	-.9248E 00	-.4434E-03	.2104E-02	.9315E 02	.2476E 02
100	.7965E-03	-.7135E 01	-.8398E 00	-.3664E-03	.8824E-03	.9768E 02	.2597E 02
105	.7645E-03	-.7176E 01	-.1279E 01	-.5860E-03	-.1608E-02	.1018E 03	.2705E 02
110	.7204E-03	-.7236E 01	-.3781E 00	-.1376E-03	.4222E-02	.1080E 03	.2871E 02
115	.7084E-03	-.7253E 01	.2734E 00	.9580E-04	.2665E-02	.1098E 03	.2920E 02
120	.7167E-03	-.7241E 01	-.5531E-01	-.1052E-04	-.1381E-02	.1086E 03	.2886E 02
125	.7151E-03	-.7243E 01	.4406E 00	.1420E-03	.1849E-02	.1088E 03	.2892E 02
130	.7275E-03	-.7226E 01	.1950E 01	.6366E-03	.5659E-02	.1069E 03	.2843E 02
135	.7831E-03	-.7152E 01	-.1294E 00	-.4214E-04	-.7778E-02	.9936E 02	.2641E 02
140	.7794E-03	-.7157E 01	.6140E 00	.1945E-03	.2712E-02	.9983E 02	.2654E 02
145	.7964E-03	-.7135E 01	.6356E 00	.1988E-03	.4854E-04	.9770E 02	.2597E 02
150	.8137E-03	-.7114E 01	.6571E 00	.2031E-03	.4962E-04	.9562E 02	.2542E 02
155	.8314E-03	-.7092E 01	.6787E 00	.2075E-03	.5070E-04	.9358E 02	.2487E 02
160	.8496E-03	-.7071E 01	.7002E 00	.2120E-03	.5179E-04	.9158E 02	.2434E 02
165	.8681E-03	-.7049E 01	.7218E 00	.2167E-03	.5293E-04	.8963E 02	.2383E 02
170	.8870E-03	-.7028E 01	.7433E 00	.2214E-03	.5408E-04	.8772E 02	.2332E 02
175	.9063E-03	-.7006E 01	.7649E 00	.2262E-03	.5526E-04	.8585E 02	.2282E 02
180	.9260E-03	-.6985E 01	.0000E 00	.0000E 00	.0000E 00	.8402E 02	.2233E 02

SCAT= .7780E-01 30/45= .3161E 01 45/135= .6348E 01 SCAT30-130= .2068E-01

CH42/63 0110H 19164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2844E 00	-.1256E 01	-.1779E 00	-.1637E 01	.0000E 00	.1513E 00	.4249E-01
5	.1421E 00	-.1951E 01	-.9367E 00	-.7775E 00	.9864E 01	.3034E 00	.8512E-01
10	.7422E-01	-.2601E 01	-.1407E 01	-.3850E 00	.4497E 01	.5807E 00	.1629E 00
15	.4062E-01	-.3204E 01	-.1934E 01	-.1906E 00	.2136E 01	.1061E 01	.2977E 00
20	.2329E-01	-.3760E 01	-.2285E 01	-.1064E 00	.1054E 01	.1851E 01	.5193E 00
25	.1399E-01	-.4270E 01	-.2644E 01	-.6134E-01	.5109E 00	.3082E 01	.8648E 00
30	.8634E-02	-.4752E 01	-.2718E 01	-.3387E-01	.3147E 00	.4992E 01	.1401E 01
35	.5678E-02	-.5171E 01	-.2739E 01	-.1993E-01	.1588E 00	.7591E 01	.2130E 01
40	.3939E-02	-.5537E 01	-.2933E 01	-.1318E-01	.7728E-01	.1094E 02	.3070E 01
45	.2788E-02	-.5882E 01	-.2539E 01	-.7499E-02	.6515E-01	.1546E 02	.4337E 01
50	.2134E-02	-.6150E 01	-.2944E 01	-.5268E-02	.2558E-01	.2020E 02	.5667E 01
55	.1674E-02	-.6392E 01	-.2367E 01	-.3871E-02	.1045E-01	.2574E 02	.7223E 01
60	.1363E-02	-.6598E 01	-.2971E 01	-.3389E-02	.3858E-02	.3163E 02	.8874E 01
65	.1074E-02	-.6836E 01	-.2043E 01	-.1730E-02	.1809E-01	.4012E 02	.1126E 02
70	.9234E-03	-.6987E 01	-.2020E 01	-.1382E-02	.3908E-02	.4668E 02	.1310E 02
75	.8028E-03	-.7127E 01	-.2612E 01	-.1427E-02	-.5213E-03	.5369E 02	.1506E 02
80	.6783E-03	-.7296E 01	-.1859E 01	-.8266E-03	.6083E-02	.6354E 02	.1783E 02
85	.6062E-03	-.7408E 01	-.1209E 01	-.4623E-03	.4174E-02	.7110E 02	.1995E 02
90	.5650E-03	-.7477E 01	-.1308E 01	-.4661E-03	-.4408E-04	.7617E 02	.2137E 02
95	.5251E-03	-.7552E 01	-.1387E 00	-.4266E-04	.4893E-02	.8208E 02	.2303E 02
100	.5214E-03	-.7559E 01	-.1557E 00	-.4464E-04	-.2272E-04	.8266E 02	.2319E 02
105	.5179E-03	-.7566E 01	-.3687E 00	-.1088E-03	-.6440E-03	.8320E 02	.2337E 02
110	.5087E-03	-.7584E 01	.6686E 00	.1759E-03	.3171E-02	.8472E 02	.2377E 02
115	.5241E-03	-.7554E 01	-.1734E 00	-.4419E-04	-.2521E-02	.8224E 02	.2308E 02
120	.5202E-03	-.7561E 01	.6424E 00	.1584E-03	.2321E-02	.8285E 02	.2325E 02
125	.5340E-03	-.7535E 01	.1344E 01	.3314E-03	.1902E-02	.8071E 02	.2264E 02
130	.5630E-03	-.7482E 01	.2456E 01	.6264E-03	.3381E-02	.7656E 02	.2148E 02
135	.6170E-03	-.7390E 01	.2411E 00	.6233E-04	-.6444E-02	.6979E 02	.1958E 02
140	.6231E-03	-.7381E 01	.1161E 01	.2969E-03	.2608E-02	.6918E 02	.1941E 02
145	.6498E-03	-.7340E 01	.1202E 01	.3092E-03	.1414E-03	.6641E 02	.1863E 02
150	.6760E-03	-.7299E 01	.1242E 01	.3221E-03	.1473E-03	.6376E 02	.1788E 02
155	.7041E-03	-.7259E 01	.1283E 01	.3355E-03	.1535E-03	.6122E 02	.1718E 02
160	.7333E-03	-.7218E 01	.1324E 01	.3494E-03	.1598E-03	.5877E 02	.1649E 02
165	.7638E-03	-.7177E 01	.1365E 01	.3639E-03	.1665E-03	.5643E 02	.1583E 02
170	.7956E-03	-.7136E 01	.1405E 01	.3791E-03	.1734E-03	.5418E 02	.1520E 02
175	.8287E-03	-.7096E 01	.1446E 01	.3948E-03	.1806E-03	.5201E 02	.1459E 02
180	.8631E-03	-.7055E 01	.0000E 00	.0000E 00	.0000E 00	.4994E 02	.1401E 02

SCAT= .4310E-01 30/45= .3096E 01 45/135= .4519E 01 SCAT30-130= .1209E-01

CH42/64 0135H 19164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.4236E 00	-.8589E 00	-.1093E 00	-.2540E 01	.0000E 00	.1398E 00	.4089E-01
5	.2020E 00	-.1600E 01	-.9891E 00	-.1149E 01	.1594E 02	.2931E 00	.8390E-01
10	.1018E 00	-.2285E 01	-.1555E 01	-.5454E 00	.6911E 01	.5818E 00	.1667E 00
15	.5417E-01	-.2916E 01	-.2001E 01	-.2716E 00	.3137E 01	.1093E 01	.3132E 00
20	.3046E-01	-.3491E 01	-.2333E 01	-.1417E 00	.1489E 01	.1944E 01	.5569E 00
25	.1810E-01	-.4012E 01	-.2629E 01	-.7898E-01	.7184E 00	.3271E 01	.9372E 00
30	.1121E-01	-.4491E 01	-.2593E 01	-.4232E-01	.4200E 00	.5283E 01	.1514E 01
35	.7515E-02	-.4891E 01	-.2733E 01	-.2633E-01	.1833E 00	.7879E 01	.2257E 01
40	.5217E-02	-.5256E 01	-.2640E 01	-.1600E-01	.1174E 00	.1135E 02	.3252E 01
45	.3814E-02	-.5569E 01	-.2220E 01	-.9114E-02	.7904E-01	.1553E 02	.4448E 01
50	.3019E-02	-.5803E 01	-.2427E 01	-.7144E-02	.2257E-01	.1962E 02	.5620E 01
55	.2395E-02	-.6034E 01	-.3030E 01	-.6376E-02	.8806E-02	.2472E 02	.7083E 01
60	.1839E-02	-.6299E 01	.3885E 00	.6654E-03	.8069E-01	.3220E 02	.9226E 01
65	.1897E-02	-.6268E 01	-.4729E 01	-.6425E-02	-.8125E-01	.3122E 02	.8944E 01
70	.1336E-02	-.6618E 01	-.1972E 01	-.1948E-02	.5131E-01	.4432E 02	.1270E 02
75	.1166E-02	-.6754E 01	-.2471E 01	-.1970E-02	-.2498E-03	.5078E 02	.1455E 02
80	.9941E-03	-.6914E 01	-.1689E 01	-.1106E-02	.9893E-02	.5956E 02	.1706E 02
85	.8976E-03	-.7016E 01	-.1400E 01	-.7910E-03	.3614E-02	.6597E 02	.1890E 02
90	.8286E-03	-.7096E 01	-.1224E 01	-.6082E-03	.2094E-02	.7146E 02	.2047E 02
95	.7755E-03	-.7162E 01	-.4536E 00	-.2844E-03	.4628E-02	.7635E 02	.2188E 02
100	.7576E-03	-.7185E 01	-.5894E 00	-.2462E-03	-.4793E-03	.7815E 02	.2239E 02
105	.7362E-03	-.7214E 01	-.3367E 00	-.1311E-03	.1319E-02	.8043E 02	.2304E 02
110	.7247E-03	-.7230E 01	-.1331E 01	-.4778E-03	-.3964E-02	.8170E 02	.2341E 02
115	.6831E-03	-.7289E 01	.1928E 01	.6693E-03	.1314E-01	.8668E 02	.2483E 02
120	.7415E-03	-.7207E 01	.3008E 00	.1050E-03	-.6466E-02	.7985E 02	.2288E 02
125	.7507E-03	-.7195E 01	.1485E 01	.5160E-03	.4718E-02	.7888E 02	.2260E 02
130	.7957E-03	-.7136E 01	.2024E 01	.7239E-03	.2382E-02	.7441E 02	.2132E 02
135	.8589E-03	-.7060E 01	.1166E 01	.4264E-03	-.3410E-02	.6894E 02	.1975E 02
140	.8961E-03	-.7018E 01	.1506E 01	.5572E-03	.1499E-02	.6608E 02	.1893E 02
145	.9447E-03	-.6965E 01	.1559E 01	.5874E-03	.3464E-03	.6268E 02	.1796E 02
150	.9959E-03	-.6912E 01	.1611E 01	.6193E-03	.3652E-03	.5945E 02	.1703E 02
155	.1050E-02	-.6859E 01	.1664E 01	.6529E-03	.3851E-03	.5639E 02	.1616E 02
160	.1107E-02	-.6806E 01	.1717E 01	.6883E-03	.4059E-03	.5349E 02	.1532E 02
165	.1167E-02	-.6753E 01	.1770E 01	.7256E-03	.4280E-03	.5074E 02	.1454E 02
170	.1230E-02	-.6700E 01	.1823E 01	.7650E-03	.4512E-03	.4812E 02	.1379E 02
175	.1297E-02	-.6648E 01	.1876E 01	.8065E-03	.4757E-03	.4565E 02	.1308E 02
180	.1367E-02	-.6595E 01	.0000E 00	.0000E 00	.0000E 00	.4330E 02	.1241E 02

SCAT= .5921E-01 30/45= .2930E 01 45/135= .4441E 01 SCAT30-130= .1696E-01

CH42/65 0200H 19164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1057E 01	.5519E-01	-.2556E 00	-.7652E 01	.0000E 00	.6612E-01	.1008E-01
5	.3889E 00	-.9443E 00	-.1321E 01	-.2673E 01	.5784E 02	.1796E 00	.2939E-01
10	.1556E 00	-.1860E 01	-.2053E 01	-.1008E 01	.1909E 02	.4489E 00	.7336E-01
15	.6771E-01	-.2692E 01	-.2602E 01	-.4089E 00	.6860E 01	.1032E 01	.1686E 00
20	.3203E-01	-.3441E 01	-.2900E 01	-.1783E 00	.2643E 01	.2181E 01	.3565E 00
25	.1647E-01	-.4106E 01	-.3325E 01	-.8580E-01	.1060E 01	.4242E 01	.6932E 00
30	.8984E-02	-.4712E 01	-.3136E 01	-.3946E-01	.5310E 00	.7777E 01	.1271E 01
35	.5540E-02	-.5196E 01	-.3411E 01	-.2325E-01	.1860E 00	.1261E 02	.2061E 01
40	.3513E-02	-.5651E 01	-.2545E 01	-.1043E-01	.1467E 00	.1989E 02	.3250E 01
45	.2603E-02	-.5951E 01	-.2560E 01	-.7854E-02	.3064E-01	.2684E 02	.4385E 01
50	.1988E-02	-.6221E 01	-.2650E 01	-.5885E-02	.2257E-01	.3515E 02	.5743E 01
55	.1544E-02	-.6473E 01	-.2823E 01	-.3854E-02	.1410E-01	.4525E 02	.7394E 01
60	.1208E-02	-.6719E 01	-.2174E 01	-.2218E-02	.1883E-01	.5784E 02	.9452E 01
65	.1015E-02	-.6893E 01	-.2712E 01	-.2117E-02	.1868E-02	.6884E 02	.1125E 02
70	.8302E-03	-.7094E 01	-.1914E 01	-.1177E-02	.1078E-01	.8416E 02	.1375E 02
75	.7275E-03	-.7226E 01	-.2070E 01	-.1419E-02	-.2668E-02	.9604E 02	.1569E 02
80	.6045E-03	-.7411E 01	-.1704E 01	-.7899E-03	.8019E-02	.1156E 03	.1889E 02
85	.5425E-03	-.7519E 01	-.9827E 00	-.3396E-03	.4244E-02	.1288E 03	.2104E 02
90	.5129E-03	-.7575E 01	-.1116E 01	-.3442E-03	-.5304E-04	.1362E 03	.2226E 02
95	.4829E-03	-.7636E 01	.2740E 00	.7830E-04	.4842E-02	.1447E 03	.2364E 02
100	.4897E-03	-.7622E 01	.2491E 00	.6862E-04	-.1109E-03	.1427E 03	.2331E 02
105	.4957E-03	-.7610E 01	.9470E-01	.2588E-04	-.4990E-03	.1410E 03	.2303E 02
110	.4979E-03	-.7605E 01	-.4573E 00	-.1148E-03	-.1603E-02	.1403E 03	.2293E 02
115	.4879E-03	-.7625E 01	.2035E 01	.5057E-03	.7111E-02	.1432E 03	.2340E 02
120	.5320E-03	-.7539E 01	.8985E 00	.2277E-03	-.3189E-02	.1313E 03	.2146E 02
125	.5519E-03	-.7502E 01	.1077E 01	.2730E-03	.5188E-03	.1266E 03	.2069E 02
130	.5757E-03	-.7460E 01	-.9005E 01	-.1981E-02	-.2491E-01	.1214E 03	.1983E 02
135	.4098E-03	-.7800E 01	.3713E 01	.6789E-03	.2956E-01	.1705E 03	.2786E 02
140	.4691E-03	-.7665E 01	-.7603E 00	-.1430E-03	-.9418E-02	.1490E 03	.2434E 02
145	.4566E-03	-.7692E 01	-.7953E 00	-.1392E-03	.4359E-04	.1530E 03	.2501E 02
150	.4444E-03	-.7719E 01	-.8222E 00	-.1355E-03	.4242E-04	.1572E 03	.2569E 02
155	.4326E-03	-.7746E 01	-.8492E 00	-.1319E-03	.4129E-04	.1615E 03	.2639E 02
160	.4211E-03	-.7773E 01	-.8762E 00	-.1284E-03	.4020E-04	.1659E 03	.2711E 02
165	.4099E-03	-.7800E 01	-.9031E 00	-.1249E-03	.3913E-04	.1704E 03	.2785E 02
170	.3990E-03	-.7827E 01	-.9301E 00	-.1216E-03	.3808E-04	.1751E 03	.2861E 02
175	.3884E-03	-.7853E 01	-.9570E 00	-.1184E-03	.3708E-04	.1799E 03	.2940E 02
180	.3781E-03	-.7880E 01	.0000E 00	.0000E 00	.0000E 00	.1848E 03	.3020E 02

SCAT= .6987E-01 30/45= .3451E 01 45/135= .6353E 01 SCAT30-130= .1142E-01

CH42/66 0220H 19164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3460E 00	-.1059E 01	-.1654E 00	-.1093E 01	.0000E 00	.1701E 00	.4874E-01
5	.1816E 00	-.1706E 01	-.8766E 00	-.9476E 00	.1003E 02	.3249E 00	.9308E-01
10	.9892E-01	-.2313E 01	-.1402E 01	-.4914E 00	.5228E 01	.5965E 00	.1709E 00
15	.5603E-01	-.2882E 01	-.1839E 01	-.2638E 00	.2600E 01	.1053E 01	.3017E 00
20	.3301E-01	-.3411E 01	-.2195E 01	-.1445E 00	.1344E 01	.1787E 01	.5121E 00
25	.2023E-01	-.3901E 01	-.2479E 01	-.8627E-01	.7131E 00	.2917E 01	.8357E 00
30	.1287E-01	-.4353E 01	-.2919E 01	-.5345E-01	.3532E 00	.4584E 01	.1313E 01
35	.8207E-02	-.4803E 01	-.2433E 01	-.2609E-01	.3136E 00	.7189E 01	.2060E 01
40	.5931E-02	-.5128E 01	-.3049E 01	-.2058E-01	.6399E-01	.9949E 01	.2850E 01
45	.4141E-02	-.5487E 01	-.2809E 01	-.1216E-01	.9560E-01	.1425E 02	.4082E 01
50	.3008E-02	-.5783E 01	-.2441E 01	-.7320E-02	.5537E-01	.1915E 02	.5488E 01
55	.2441E-02	-.6015E 01	-.3108E 01	-.6627E-02	.8034E-02	.2417E 02	.6925E 01
60	.1863E-02	-.6286E 01	-.2607E 01	-.4019E-02	.2988E-01	.3168E 02	.9076E 01
65	.1512E-02	-.6494E 01	-.2467E 01	-.2894E-02	.1289E-01	.3903E 02	.1118E 02
70	.1259E-02	-.6677E 01	-.2477E 01	-.2264E-02	.7194E-02	.4688E 02	.1342E 02
75	.1061E-02	-.6848E 01	-.2576E 01	-.1863E-02	.4624E-02	.5559E 02	.1593E 02
80	.8989E-03	-.7014E 01	-.2399E 01	-.1394E-02	.5370E-02	.6564E 02	.1881E 02
85	.7772E-03	-.7160E 01	-.1782E 01	-.8625E-03	.6095E-02	.7592E 02	.2175E 02
90	.7018E-03	-.7262E 01	-.9420E 00	-.3997E-03	.5303E-02	.8406E 02	.2408E 02
95	.6670E-03	-.7313E 01	-.1917E-01	-.7513E-05	.4494E-02	.8845E 02	.2534E 02
100	.6664E-03	-.7314E 01	-.3088E 00	-.1142E-03	-.1222E-02	.8854E 02	.2537E 02
105	.6564E-03	-.7329E 01	-.1199E 01	-.4082E-03	-.3369E-02	.8988E 02	.2575E 02
110	.6208E-03	-.7385E 01	-.1091E 01	-.3369E-03	.8172E-03	.9504E 02	.2723E 02
115	.5914E-03	-.7433E 01	.1818E 01	.5452E-03	.1011E-01	.9977E 02	.2858E 02
120	.6390E-03	-.7356E 01	.5014E 00	.1514E-03	-.4512E-02	.9234E 02	.2645E 02
125	.6522E-03	-.7335E 01	.2136E 01	.6529E-03	.5747E-02	.9047E 02	.2592E 02
130	.7092E-03	-.7251E 01	.2422E 01	.7777E-03	.1429E-02	.8320E 02	.2384E 02
135	.7770E-03	-.7160E 01	.1356E 01	.4502E-03	-.3753E-02	.7593E 02	.2175E 02
140	.8163E-03	-.7111E 01	.1853E 01	.6203E-03	.2042E-02	.7228E 02	.2071E 02
145	.8712E-03	-.7046E 01	.1918E 01	.6785E-03	.4834E-03	.6773E 02	.1940E 02
150	.9297E-03	-.6981E 01	.1983E 01	.7156E-03	.5161E-03	.6347E 02	.1818E 02
155	.9921E-03	-.6916E 01	.2048E 01	.7634E-03	.5508E-03	.5947E 02	.1704E 02
160	.1059E-02	-.6851E 01	.2113E 01	.8149E-03	.5878E-03	.5573E 02	.1597E 02
165	.1130E-02	-.6786E 01	.2178E 01	.8697E-03	.6272E-03	.5222E 02	.1496E 02
170	.1206E-02	-.6721E 01	.2243E 01	.9281E-03	.6694E-03	.4893E 02	.1402E 02
175	.1287E-02	-.6656E 01	.2308E 01	.9904E-03	.7143E-03	.4585E 02	.1314E 02
180	.1373E-02	-.6591E 01	.0000E 00	.0000E 00	.0000E 00	.4297E 02	.1231E 02

SCAT= .5900E-01 30/45= .3100E 01 45/135= .5330E 01 SCAT30-130= .1690E-01

CH42/67 0235H 19164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3420E 00	-.1073E 01	-.1852E 00	-.2020E 01	.0000E 00	.1403E 00	.3816E-01
5	.1657E 00	-.1797E 01	-.9707E 00	-.9302E 00	.1249E 02	.2896E 00	.7875E-01
10	.8457E-01	-.2470E 01	-.1532E 01	-.4484E 00	.5520E 01	.5676E 00	.1543E 00
15	.4544E-01	-.3091E 01	-.1980E 01	-.2261E 00	.2540E 01	.1056E 01	.2872E 00
20	.2571E-01	-.3661E 01	-.2321E 01	-.1191E 00	.1226E 01	.1867E 01	.5077E 00
25	.1532E-01	-.4179E 01	-.2671E 01	-.6765E-01	.5895E 00	.3134E 01	.8522E 00
30	.9412E-02	-.4666E 01	-.2797E 01	-.3778E-01	.3423E 00	.5101E 01	.1387E 01
35	.6115E-02	-.5097E 01	-.2631E 01	-.2076E-01	.1951E 00	.7851E 01	.2135E 01
40	.4304E-02	-.5448E 01	-.2749E 01	-.1366E-01	.8153E-01	.1115E 02	.3033E 01
45	.3113E-02	-.5772E 01	-.2524E 01	-.8331E-02	.6006E-01	.1542E 02	.4193E 01
50	.2386E-02	-.6038E 01	-.2680E 01	-.6163E-02	.2485E-01	.2012E 02	.5470E 01
55	.1848E-02	-.6294E 01	-.2723E 01	-.4467E-02	.1943E-01	.2597E 02	.7062E 01
60	.1498E-02	-.6530E 01	-.2427E 01	-.2958E-02	.1730E-01	.3292E 02	.8950E 01
65	.1201E-02	-.6725E 01	-.2405E 01	-.2247E-02	.8862E-02	.3997E 02	.1087E 02
70	.1005E-02	-.6903E 01	-.2665E 01	-.1934E-02	.3585E-02	.4777E 02	.1299E 02
75	.8361E-03	-.7087E 01	-.2673E 01	-.1518E-02	.4765E-02	.5741E 02	.1561E 02
80	.7037E-03	-.7259E 01	-.1505E 01	-.7030E-03	.9338E-02	.6822E 02	.1855E 02
85	.6423E-03	-.7350E 01	-.1359E 01	-.5508E-03	.1753E-02	.7474E 02	.2032E 02
90	.5943E-03	-.7428E 01	-.1028E 01	-.3881E-03	.2085E-02	.8077E 02	.2196E 02
95	.5622E-03	-.7484E 01	.1896E 00	.6296E-04	.4940E-02	.8539E 02	.2322E 02
100	.5677E-03	-.7474E 01	-.8191E 00	-.2548E-03	-.3642E-02	.8456E 02	.2299E 02
105	.5454E-03	-.7514E 01	-.8624E 00	-.2458E-03	.1036E-03	.8801E 02	.2393E 02
110	.5240E-03	-.7554E 01	-.5548E 00	-.1463E-03	.1140E-02	.9161E 02	.2491E 02
115	.5112E-03	-.7579E 01	.2890E 00	.7251E-04	.2507E-02	.9390E 02	.2553E 02
120	.5176E-03	-.7566E 01	.1013E 01	.2503E-03	.2037E-02	.9275E 02	.2522E 02
125	.5394E-03	-.7525E 01	.1601E 01	.4007E-03	.1723E-02	.8900E 02	.2420E 02
130	.5744E-03	-.7462E 01	.2323E 01	.6032E-03	.2321E-02	.8358E 02	.2273E 02
135	.6270E-03	-.7375E 01	.7758E 00	.2056E-03	-.4556E-02	.7656E 02	.2082E 02
140	.6449E-03	-.7346E 01	.1460E 01	.3805E-03	.2099E-02	.7443E 02	.2024E 02
145	.6788E-03	-.7295E 01	.1511E 01	.4089E-03	.2340E-03	.7072E 02	.1923E 02
150	.7145E-03	-.7244E 01	.1562E 01	.4304E-03	.2463E-03	.6718E 02	.1827E 02
155	.7521E-03	-.7193E 01	.1614E 01	.4530E-03	.2592E-03	.6383E 02	.1736E 02
160	.7916E-03	-.7141E 01	.1665E 01	.4768E-03	.2729E-03	.6064E 02	.1649E 02
165	.8332E-03	-.7090E 01	.1716E 01	.5019E-03	.2872E-03	.5761E 02	.1566E 02
170	.8770E-03	-.7039E 01	.1767E 01	.5283E-03	.3023E-03	.5474E 02	.1488E 02
175	.9231E-03	-.6988E 01	.1819E 01	.5560E-03	.3182E-03	.5200E 02	.1414E 02
180	.9717E-03	-.6937E 01	.0000E 00	.0000E 00	.0000E 00	.4941E 02	.1343E 02

SCAT= .4801E-01 30/45= .3023E 01 45/135= .4965E 01 SCAT30-130= .1305E-01

CH42/68 0250H 19164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.4730E 00	-.7486E 00	-.1983E 00	-.2929E 01	.0000E 00	.1231E 00	.3212E-01
5	.2178E 00	-.1524E 01	-.1035E 01	-.1270E 01	.1887E 02	.2673E 00	.6976E-01
10	.1063E 00	-.2242E 01	-.1626E 01	-.5800E 00	.7905E 01	.5477E 00	.1429E 00
15	.5498E-01	-.2901E 01	-.2009E 01	-.2846E 00	.3476E 01	.1059E 01	.2764E 00
20	.3014E-01	-.3502E 01	-.2433E 01	-.1447E 00	.1603E 01	.1931E 01	.5041E 00
25	.1751E-01	-.4045E 01	-.2709E 01	-.7823E-01	.7616E 00	.3324E 01	.8675E 00
30	.1069E-01	-.4539E 01	-.2897E 01	-.4412E-01	.3909E 00	.5447E 01	.1422E 01
35	.6838E-02	-.4985E 01	-.2696E 01	-.2348E-01	.2374E 00	.8513E 01	.2222E 01
40	.4796E-02	-.5340E 01	-.2616E 01	-.1457E-01	.1011E 00	.1214E 02	.3168E 01
45	.3524E-02	-.5648E 01	-.2531E 01	-.9453E-02	.5869E-01	.1652E 02	.4311E 01
50	.2700E-02	-.5915E 01	-.2353E 01	-.6214E-02	.3712E-01	.2156E 02	.5628E 01
55	.2157E-02	-.6139E 01	-.3214E 01	-.6030E-02	.2108E-02	.2698E 02	.7043E 01
60	.1631E-02	-.6419E 01	-.1624E 01	-.2278E-02	.4299E-01	.3569E 02	.9315E 01
65	.1432E-02	-.6548E 01	-.2984E 01	-.3227E-02	-.1087E-01	.4064E 02	.1061E 02
70	.1151E-02	-.6767E 01	-.1502E 01	-.1290E-02	.2218E-01	.5059E 02	.1320E 02
75	.1037E-02	-.6871E 01	-.2166E 01	-.1551E-02	-.2902E-02	.5611E 02	.1465E 02
80	.9021E-03	-.7011E 01	-.1665E 01	-.9923E-03	.6403E-02	.6453E 02	.1684E 02
85	.8159E-03	-.7112E 01	-.1332E 01	-.6849E-03	.3523E-02	.7139E 02	.1863E 02
90	.7557E-03	-.7188E 01	-.1753E 01	-.7831E-03	-.1126E-02	.7703E 02	.2010E 02
95	.6874E-03	-.7283E 01	-.4399E 00	-.1742E-03	.6978E-02	.8469E 02	.2210E 02
100	.6722E-03	-.7305E 01	-.2362E 00	-.8829E-04	.9846E-03	.8660E 02	.2260E 02
105	.6645E-03	-.7317E 01	-.9566E 00	-.3314E-03	-.2786E-02	.8761E 02	.2287E 02
110	.6355E-03	-.7361E 01	.2859E 00	.9503E-04	.4864E-02	.9159E 02	.2391E 02
115	.6437E-03	-.7348E 01	-.1212E 00	-.3796E-04	-.1501E-02	.9044E 02	.2360E 02
120	.6404E-03	-.7353E 01	.4232E 00	.1279E-03	.1900E-02	.9091E 02	.2373E 02
125	.6515E-03	-.7336E 01	.1245E 01	.3736E-03	.2816E-02	.8939E 02	.2332E 02
130	.6841E-03	-.7287E 01	.2215E 01	.6835E-03	.3552E-02	.8509E 02	.2221E 02
135	.7430E-03	-.7204E 01	.1594E 00	.4954E-04	-.7265E-02	.7827E 02	.2043E 02
140	.7481E-03	-.7198E 01	.1012E 01	.3099E-03	.2984E-02	.7782E 02	.2031E 02
145	.7751E-03	-.7162E 01	.1048E 01	.3211E-03	.1284E-03	.7510E 02	.1960E 02
150	.8032E-03	-.7127E 01	.1083E 01	.3327E-03	.1330E-03	.7248E 02	.1892E 02
155	.8322E-03	-.7091E 01	.1119E 01	.3447E-03	.1378E-03	.6995E 02	.1826E 02
160	.8623E-03	-.7056E 01	.1154E 01	.3572E-03	.1428E-03	.6751E 02	.1762E 02
165	.8935E-03	-.7020E 01	.1190E 01	.3701E-03	.1480E-03	.6516E 02	.1701E 02
170	.9257E-03	-.6985E 01	.1225E 01	.3835E-03	.1533E-03	.6288E 02	.1641E 02
175	.9592E-03	-.6949E 01	.1261E 01	.3974E-03	.1589E-03	.6069E 02	.1584E 02
180	.9939E-03	-.6914E 01	.0000E 00	.0000E 00	.0000E 00	.5857E 02	.1529E 02

SCAT= .5821E-01 30/45= .3033E 01 45/135= .4739E 01 SCAT30-130= .1519E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3362E 00	-.1090E 01	-.2171E 00	-.2204E 01	.0000E 00	.1008E 00	.2322E-01
5	.1430E 00	-.1939E 01	-.1120E 01	-.8938E 00	.1502E 02	.2357E 00	.5427E-01
10	.6502E-01	-.2721E 01	-.1762E 01	-.3850E 00	.5831E 01	.5151E 00	.1186E 00
15	.3222E-01	-.3435E 01	-.2248E 01	-.1759E 00	.2396E 01	.1052E 01	.2422E 00
20	.1680E-01	-.4082E 01	-.2596E 01	-.8903E-01	.1041E 01	.2009E 01	.4625E 00
25	.9455E-02	-.4661E 01	-.2905E 01	-.4455E-01	.4638E 00	.3586E 01	.8259E 00
30	.5567E-02	-.5191E 01	-.2977E 01	-.2340E-01	.2415E 00	.6090E 01	.1402E 01
35	.3510E-02	-.5650E 01	-.2697E 01	-.1219E-01	.1293E 00	.9636E 01	.2218E 01
40	.2454E-02	-.6010E 01	-.2714E 01	-.7696E-02	.5153E-01	.1381E 02	.3180E 01
45	.1783E-02	-.6330E 01	-.2309E 01	-.4412E-02	.3763E-01	.1902E 02	.4378E 01
50	.1390E-02	-.6573E 01	-.2780E 01	-.3720E-02	.7033E-02	.2426E 02	.5584E 01
55	.1072E-02	-.6838E 01	-.3041E 01	-.2857E-02	.9990E-02	.3162E 02	.7270E 01
60	.8231E-03	-.7102E 01	-.2188E 01	-.1515E-02	.1537E-01	.4119E 02	.9483E 01
65	.6900E-03	-.7278E 01	-.2576E 01	-.1376E-02	.1602E-02	.4900E 02	.1130E 02
70	.5700E-03	-.7468E 01	-.2051E 01	-.8632E-03	.5871E-02	.5940E 02	.1367E 02
75	.4955E-03	-.7610E 01	-.2508E 01	-.8484E-03	.1696E-03	.6843E 02	.1579E 02
80	.4214E-03	-.7772E 01	-.1137E 01	-.3216E-03	.6037E-02	.8045E 02	.1852E 02
85	.3934E-03	-.7841E 01	-.8767E 00	-.2203E-03	.1161E-02	.8619E 02	.1984E 02
90	.3741E-03	-.7891E 01	-.7442E 00	-.1691E-03	.5871E-03	.9062E 02	.2086E 02
95	.3594E-03	-.7931E 01	.7295E 00	.1570E-03	.3737E-02	.9434E 02	.2172E 02
100	.3731E-03	-.7894E 01	.4396E 00	.9269E-04	-.7372E-03	.9087E 02	.2092E 02
105	.3812E-03	-.7872E 01	-.3348E 00	-.6750E-04	-.1036E-02	.8895E 02	.2048E 02
110	.3753E-03	-.7888E 01	-.5213E 00	-.9851E-04	-.3554E-03	.9034E 02	.2080E 02
115	.3667E-03	-.7911E 01	.5553E-01	.9942E-05	.1243E-02	.9246E 02	.2129E 02
120	.3676E-03	-.7909E 01	.1074E 01	.1088E-03	.2049E-02	.9224E 02	.2124E 02
125	.3840E-03	-.7865E 01	.1349E 01	.2392E-03	.5775E-03	.8820E 02	.2032E 02
130	.4049E-03	-.7812E 01	.2136E 01	.3895E-03	.1722E-02	.8373E 02	.1928E 02
135	.4389E-03	-.7731E 01	.6606E 00	.1223E-03	-.3062E-02	.7725E 02	.1778E 02
140	.4496E-03	-.7707E 01	.1300E 01	.2409E-03	.1354E-02	.7541E 02	.1736E 02
145	.4705E-03	-.7662E 01	.1346E 01	.2517E-03	.1206E-03	.7205E 02	.1659E 02
150	.4925E-03	-.7616E 01	.1391E 01	.2634E-03	.1346E-03	.6884E 02	.1585E 02
155	.5155E-03	-.7570E 01	.1437E 01	.2757E-03	.1409E-03	.6577E 02	.1514E 02
160	.5396E-03	-.7525E 01	.1482E 01	.2886E-03	.1475E-03	.6284E 02	.1447E 02
165	.5647E-03	-.7479E 01	.1528E 01	.3021E-03	.1544E-03	.6003E 02	.1382E 02
170	.5911E-03	-.7434E 01	.1574E 01	.3162E-03	.1616E-03	.5736E 02	.1320E 02
175	.6187E-03	-.7388E 01	.1619E 01	.3309E-03	.1691E-03	.5480E 02	.1262E 02
180	.6476E-03	-.7342E 01	.0000E 00	.0000E 00	.0000E 00	.5236E 02	.1205E 02

SCAT= .3390E-01 30/45= .3123E 01 45/135= .4062E 01 SCAT30-130= .7805E-02

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3192E 00	-.1142E 01	-.1519E 00	-.1639E 01	.0000E 00	.1973E 00	.6130E-01
5	.1762E 00	-.1736E 01	-.8091E 00	-.8668E 00	.8848E 01	.3574E 00	.1112E 00
10	.1006E 00	-.2297E 01	-.1301E 01	-.4723E 00	.4520E 01	.6263E 00	.1948E 00
15	.5936E-01	-.2824E 01	-.1717E 01	-.2651E 00	.2375E 01	.1061E 01	.3301E 00
20	.3622E-01	-.3318E 01	-.2064E 01	-.1532E 00	.1283E 01	.1739E 01	.5410E 00
25	.2285E-01	-.3779E 01	-.2493E 01	-.9564E-01	.6590E 00	.2756E 01	.8574E 00
30	.1451E-01	-.4233E 01	-.2434E 01	-.5200E-01	.5003E 00	.4342E 01	.1351E 01
35	.9960E-02	-.4608E 01	-.2919E 01	-.3687E-01	.1735E 00	.6319E 01	.1966E 01
40	.6750E-02	-.4998E 01	-.2720E 01	-.2126E-01	.1780E 00	.9331E 01	.2903E 01
45	.4895E-02	-.5319E 01	-.2787E 01	-.1427E-01	.8007E-01	.1287E 02	.4003E 01
50	.3650E-02	-.5613E 01	-.2776E 01	-.9722E-02	.5214E-01	.1726E 02	.5369E 01
55	.2801E-02	-.5878E 01	-.2475E 01	-.6220E-02	.4013E-01	.2248E 02	.6995E 01
60	.2259E-02	-.6093E 01	-.3170E 01	-.5799E-02	.4819E-02	.2789E 02	.8676E 01
65	.1752E-02	-.6347E 01	-.2412E 01	-.3287E-02	.2879E-01	.3594E 02	.1118E 02
70	.1466E-02	-.6525E 01	-.2829E 01	-.2978E-02	.3541E-02	.4298E 02	.1337E 02
75	.1206E-02	-.6721E 01	-.2032E 01	-.1699E-02	.1466E-01	.5224E 02	.1625E 02
80	.1058E-02	-.6852E 01	-.2148E 01	-.1475E-02	.2569E-02	.5956E 02	.1853E 02
85	.9280E-03	-.6982E 01	-.2212E 01	-.1264E-02	.2412E-02	.6781E 02	.2110E 02
90	.8185E-03	-.7108E 01	-.1276E 01	-.6259E-03	.7320E-02	.7695E 02	.2394E 02
95	.7639E-03	-.7177E 01	-.9564E 00	-.4191E-03	.2365E-02	.8245E 02	.2565E 02
100	.7274E-03	-.7226E 01	-.5325E 00	-.2130E-03	.2353E-02	.8660E 02	.2694E 02
105	.7087E-03	-.7252E 01	-.7932E 00	-.2942E-03	-.9218E-03	.8888E 02	.2765E 02
110	.6830E-03	-.7289E 01	-.1170E 01	-.3995E-03	-.1206E-02	.9222E 02	.2869E 02
115	.6482E-03	-.7341E 01	-.7979E 00	-.2408E-03	.1736E-02	.9718E 02	.3023E 02
120	.6265E-03	-.7375E 01	.8010E 00	.2306E-03	.5570E-02	.1005E 03	.3127E 02
125	.6474E-03	-.7343E 01	.4186E 00	.1228E-03	-.1320E-02	.9730E 02	.3027E 02
130	.6581E-03	-.7326E 01	.1057E 01	.3070E-03	.2111E-02	.9571E 02	.2978E 02
135	.6849E-03	-.7286E 01	.2859E-01	.8165E-05	-.3424E-02	.9197E 02	.2861E 02
140	.6856E-03	-.7285E 01	.4537E 00	.1261E-03	.1351E-02	.9187E 02	.2858E 02
145	.6966E-03	-.7269E 01	.4696E 00	.1281E-03	.2318E-04	.9042E 02	.2813E 02
150	.7078E-03	-.7253E 01	.4855E 00	.1302E-03	.2355E-04	.8900E 02	.2769E 02
155	.7191E-03	-.7237E 01	.5014E 00	.1322E-03	.2394E-04	.8759E 02	.2725E 02
160	.7307E-03	-.7222E 01	.5174E 00	.1344E-03	.2432E-04	.8621E 02	.2682E 02
165	.7424E-03	-.7206E 01	.5333E 00	.1365E-03	.2471E-04	.8485E 02	.2639E 02
170	.7543E-03	-.7190E 01	.5492E 00	.1387E-03	.2511E-04	.8351E 02	.2598E 02
175	.7664E-03	-.7174E 01	.5651E 00	.1409E-03	.2551E-04	.8219E 02	.2557E 02
180	.7787E-03	-.7158E 01	.0000E 00	.0000E 00	.0000E 00	.8089E 02	.2516E 02

SCAT= .6299E-01 30/45= .2963E 01 45/135= .7140E 01 SCAT30-130= .1959E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1807E 00	-.1711E 01	-.1659E 00	-.9884E 00	.0000E 00	.1743E 00	.5212E-01
5	.9443E-01	-.2360E 01	-.8768E 00	-.4928E 00	.5679E 01	.3334E 00	.9973E-01
10	.5142E-01	-.2968E 01	-.1398E 01	-.2549E 00	.2726E 01	.6123E 00	.1831E 00
15	.2918E-01	-.3534E 01	-.1827E 01	-.1367E 00	.1359E 01	.1079E 01	.3228E 00
20	.1725E-01	-.4060E 01	-.2171E 01	-.7590E-01	.6965E 00	.1825E 01	.5459E 00
25	.1063E-01	-.4544E 01	-.2570E 01	-.4555E-01	.3478E 00	.2963E 01	.8862E 00
30	.6651E-02	-.5013E 01	-.2820E 01	-.2687E-01	.2140E 00	.4734E 01	.1416E 01
35	.4306E-02	-.5448E 01	-.2486E 01	-.1394E-01	.1482E 00	.7311E 01	.2187E 01
40	.3090E-02	-.5780E 01	-.2862E 01	-.1013E-01	.4365E-01	.1019E 02	.3048E 01
45	.2206E-02	-.6117E 01	-.2751E 01	-.6359E-02	.4323E-01	.1428E 02	.4270E 01
50	.1651E-02	-.6407E 01	-.2773E 01	-.4393E-02	.2252E-01	.1907E 02	.5705E 01
55	.1267E-02	-.6671E 01	-.2271E 01	-.2604E-02	.2050E-01	.2484E 02	.7431E 01
60	.1040E-02	-.6868E 01	-.2403E 01	-.2085E-02	.5941E-02	.3027E 02	.9054E 01
65	.8581E-03	-.7061E 01	-.2449E 01	-.1632E-02	.5193E-02	.3669E 02	.1097E 02
70	.7157E-03	-.7242E 01	-.2154E 01	-.1132E-02	.5725E-02	.4398E 02	.1316E 02
75	.6169E-03	-.7391E 01	-.2254E 01	-.9571E-03	.2010E-02	.5104E 02	.1527E 02
80	.5333E-03	-.7536E 01	-.1798E 01	-.6311E-03	.3735E-02	.5903E 02	.1766E 02
85	.4783E-03	-.7645E 01	-.7822E 00	-.2396E-03	.4406E-02	.6583E 02	.1969E 02
90	.4574E-03	-.7690E 01	-.1230E 01	-.3372E-03	-.1118E-02	.6884E 02	.2059E 02
95	.4279E-03	-.7757E 01	-.3481E-01	-.8748E-05	.3764E-02	.7358E 02	.2201E 02
100	.4272E-03	-.7758E 01	-.3209E 00	-.7792E-04	-.7927E-03	.7371E 02	.2205E 02
105	.4204E-03	-.7774E 01	-.1882E 00	-.4200E-04	.4116E-03	.7490E 02	.2240E 02
110	.4167E-03	-.7783E 01	-.6401E 00	-.1339E-03	-.1054E-02	.7556E 02	.2260E 02
115	.4050E-03	-.7812E 01	.1891E 00	.3751E-04	.1965E-02	.7774E 02	.2325E 02
120	.4083E-03	-.7804E 01	.8197E 00	.1592E-03	.1395E-02	.7712E 02	.2307E 02
125	.4222E-03	-.7770E 01	.1211E 01	.2353E-03	.8724E-03	.7458E 02	.2231E 02
130	.4427E-03	-.7723E 01	.2394E 01	.4796E-03	.2799E-02	.7112E 02	.2127E 02
135	.4846E-03	-.7632E 01	.4812E 00	.9809E-04	-.4373E-02	.6498E 02	.1943E 02
140	.4931E-03	-.7615E 01	.1253E 01	.2530E-03	.1787E-02	.6385E 02	.1910E 02
145	.5153E-03	-.7571E 01	.1297E 01	.2654E-03	.1308E-03	.6110E 02	.1828E 02
150	.5384E-03	-.7527E 01	.1341E 01	.2773E-03	.1367E-03	.5847E 02	.1749E 02
155	.5626E-03	-.7483E 01	.1385E 01	.2897E-03	.1428E-03	.5596E 02	.1674E 02
160	.5879E-03	-.7439E 01	.1429E 01	.3028E-03	.1492E-03	.5355E 02	.1602E 02
165	.6143E-03	-.7395E 01	.1473E 01	.3164E-03	.1558E-03	.5125E 02	.1533E 02
170	.6420E-03	-.7351E 01	.1516E 01	.3306E-03	.1629E-03	.4905E 02	.1467E 02
175	.6708E-03	-.7307E 01	.1560E 01	.3454E-03	.1702E-03	.4694E 02	.1404E 02
180	.7010E-03	-.7263E 01	.0000E 00	.0000E 00	.0000E 00	.4492E 02	.1344E 02

SCAT= .3148E-01 30/45= .3016E 01 45/135= .4552E 01 SCAT30-130= .9417E-02

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2542E 00	-.1369E 01	-.1448E 00	-.1384E 01	.0000E 00	.1806E 00	.5734E-01
5	.1334E 00	-.2014E 01	-.8682E 00	-.6913E 00	.7942E 01	.3438E 00	.1093E 00
10	.7310E-01	-.2616E 01	-.1378E 01	-.3584E 00	.3813E 01	.6275E 00	.1994E 00
15	.4180E-01	-.3175E 01	-.1793E 01	-.1931E 00	.1897E 01	.1097E 01	.3487E 00
20	.2496E-01	-.3691E 01	-.2219E 01	-.1078E 00	.9774E 00	.1838E 01	.5842E 00
25	.1555E-01	-.4164E 01	-.2450E 01	-.6620E-01	.4991E 00	.2949E 01	.9374E 00
30	.9949E-02	-.4610E 01	-.2670E 01	-.3847E-01	.2249E 00	.4610E 01	.1465E 01
35	.6592E-02	-.5022E 01	-.2313E 01	-.2153E-01	.1940E 00	.6958E 01	.2211E 01
40	.4713E-02	-.5357E 01	-.2435E 01	-.1347E-01	.9245E-01	.9733E 01	.3093E 01
45	.3538E-02	-.5644E 01	-.2717E 01	-.1009E-01	.3665E-01	.1297E 02	.4121E 01
50	.2657E-02	-.5931E 01	-.2719E 01	-.6951E-02	.3601E-01	.1726E 02	.5487E 01
55	.2050E-02	-.6190E 01	-.2146E 01	-.5108E-02	.2797E-01	.2237E 02	.7110E 01
60	.1657E-02	-.6403E 01	-.2346E 01	-.3259E-02	.1440E-01	.2769E 02	.8799E 01
65	.1337E-02	-.6617E 01	-.2369E 01	-.2561E-02	.5273E-02	.3341E 02	.1062E 02
70	.1149E-02	-.6768E 01	-.2349E 01	-.1971E-02	.6762E-02	.3991E 02	.1268E 02
75	.9774E-03	-.6931E 01	-.2371E 01	-.1589E-02	.4373E-02	.4693E 02	.1491E 02
80	.8388E-03	-.7084E 01	-.1193E 01	-.6708E-03	.1092E-01	.5469E 02	.1738E 02
85	.7802E-03	-.7156E 01	-.2217E 01	-.1064E-02	-.4509E-02	.5879E 02	.1868E 02
90	.6873E-03	-.7283E 01	-.1230E 01	-.5469E-03	.1037E-01	.6673E 02	.2121E 02
95	.6431E-03	-.7349E 01	-.4228E 00	-.1616E-03	.7660E-02	.7133E 02	.2267E 02
100	.6312E-03	-.7368E 01	-.1061E 01	-.3731E-03	.2249E-02	.7268E 02	.2310E 02
105	.6246E-03	-.7378E 01	-.5281E 00	-.1737E-03	-.2284E-02	.7342E 02	.2334E 02
110	.6098E-03	-.7403E 01	-.1274E 01	-.3066E-03	-.2416E-02	.7526E 02	.2392E 02
115	.5739E-03	-.7463E 01	-.2352E 01	-.6372E-03	.2054E-02	.7964E 02	.2531E 02
120	.5702E-03	-.7470E 01	-.1019E 00	-.2713E-04	.6422E-03	.8016E 02	.2547E 02
125	.5678E-03	-.7474E 01	-.1956E 00	-.5011E-04	.6851E-03	.8043E 02	.2563E 02
130	.5722E-03	-.7466E 01	-.1498E 01	-.3817E-03	.3800E-02	.8016E 02	.2540E 02
135	.6055E-03	-.7410E 01	-.3778E 00	-.9460E-04	-.5459E-02	.7579E 02	.2409E 02
140	.5973E-03	-.7423E 01	.2955E 00	.7133E-04	.1902E-02	.7680E 02	.2441E 02
145	.6055E-03	-.7413E 01	.3056E 00	.7207E-04	.8515E-05	.7601E 02	.2416E 02
150	.6094E-03	-.7403E 01	.3158E 00	.7261E-04	.8632E-05	.7531E 02	.2393E 02
155	.6161E-03	-.7392E 01	.3266E 00	.7358E-04	.8702E-05	.7445E 02	.2366E 02
160	.6225E-03	-.7382E 01	.3369E 00	.7435E-04	.8788E-05	.7368E 02	.2342E 02
165	.6290E-03	-.7371E 01	.3473E 00	.7513E-04	.8875E-05	.7292E 02	.2318E 02
170	.6356E-03	-.7361E 01	.3577E 00	.7591E-04	.8977E-05	.7217E 02	.2294E 02
175	.6422E-03	-.7351E 01	.3681E 00	.7670E-04	.9061E-05	.7142E 02	.2270E 02
180	.6489E-03	-.7340E 01	.0000E 00	.0000E 00	.0000E 00	.7069E 02	.2247E 02

SCAT= .4587E-01 30/45= .2812E 01 45/135= .5843E 01 SCAT30-130= .1458E-01

CH42/73 19164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.5919E 00	-.5243E 00	-.2397E 00	-.4127E 01	.0000E 00	.7766E-01	.1429E-01
5	.2318E 00	-.1462E 01	-.1243E 01	-.1534E 01	.2972E 02	.1983E 00	.3650E-01
10	.9744E-01	-.2323E 01	-.1937E 01	-.6106E 00	.1098E 02	.4694E 00	.8639E-01
15	.4465E-01	-.3109E 01	-.2464E 01	-.2600E 00	.4018E 01	.1030E 01	.1895E 00
20	.2197E-01	-.3818E 01	-.2838E 01	-.1181E 00	.1626E 01	.2093E 01	.3852E 00
25	.1164E-01	-.4453E 01	-.3208E 01	-.5914E-01	.6757E 00	.3943E 01	.7257E 00
30	.6499E-02	-.5036E 01	-.3066E 01	-.2805E-01	.3563E 00	.7076E 01	.1302E 01
35	.4051E-02	-.5509E 01	-.3180E 01	-.1606E-01	.1373E 00	.1135E 02	.2088E 01
40	.2650E-02	-.5933E 01	-.2707E 01	-.8289E-02	.8906E-01	.1735E 02	.3193E 01
45	.1926E-02	-.6252E 01	-.2467E 01	-.5052E-02	.3709E-01	.2386E 02	.4392E 01
50	.1486E-02	-.6512E 01	-.2401E 01	-.4112E-02	.1078E-01	.3095E 02	.5695E 01
55	.1127E-02	-.6788E 01	-.2734E 01	-.2735E-02	.1578E-01	.4080E 02	.7508E 01
60	.8881E-03	-.7026E 01	-.2613E 01	-.1787E-02	.1066E-01	.5178E 02	.9527E 01
65	.7321E-03	-.7220E 01	-.2105E 01	-.1212E-02	.6591E-02	.6279E 02	.1156E 02
70	.6264E-03	-.7376E 01	-.2106E 01	-.9705E-03	.2768E-02	.7339E 02	.1351E 02
75	.5417E-03	-.7521E 01	-.2011E 01	-.1066E-02	-.1089E-02	.8487E 02	.1562E 02
80	.4487E-03	-.7709E 01	-.1443E 01	-.4307E-03	.7275E-02	.1025E 03	.1886E 02
85	.4111E-03	-.7797E 01	-.2983E 01	-.2216E-03	-.2396E-02	.1118E 03	.2058E 02
90	.3918E-03	-.7845E 01	-.5518E 00	-.1319E-03	.1027E-02	.1173E 03	.2160E 02
95	.3803E-03	-.7875E 01	-.6999E 00	-.1331E-03	-.2809E-02	.1209E 03	.2225E 02
100	.3901E-03	-.7849E 01	.9539E-01	.2085E-04	-.1098E-02	.1178E 03	.2169E 02
105	.3920E-03	-.7844E 01	-.2585E 00	-.1136E-03	-.1540E-02	.1173E 03	.2158E 02
110	.3820E-03	-.7870E 01	-.9226E 00	-.1759E-03	.1003E-02	.1203E 03	.2215E 02
115	.3667E-03	-.7911E 01	.9461E 00	.1726E-03	.3996E-02	.1254E 03	.2307E 02
120	.3818E-03	-.7871E 01	.1405E 01	.9004E-04	-.9466E-03	.1204E 03	.2216E 02
125	.3898E-03	-.7850E 01	.1435E 01	.2585E-03	.1930E-02	.1180E 03	.2172E 02
130	.4122E-03	-.7794E 01	.1231E 01	.2901E-03	.3425E-03	.1115E 03	.2053E 02
135	.4375E-03	-.7734E 01	.8475E 00	.1663E-03	-.1419E-02	.1051E 03	.1934E 02
140	.4520E-03	-.7702E 01	.1224E 01	.2374E-03	.6997E-03	.1018E 03	.1872E 02
145	.4719E-03	-.7659E 01	.1267E 01	.2374E-03	.1144E-03	.9743E 02	.1793E 02
150	.4926E-03	-.7616E 01	.1310E 01	.2478E-03	.1194E-03	.9333E 02	.1718E 02
155	.5140E-03	-.7573E 01	.1353E 01	.2587E-03	.1247E-03	.8945E 02	.1646E 02
160	.5368E-03	-.7530E 01	.1396E 01	.2700E-03	.1301E-03	.8565E 02	.1576E 02
165	.5603E-03	-.7487E 01	.1439E 01	.2819E-03	.1359E-03	.8204E 02	.1510E 02
170	.5849E-03	-.7444E 01	.1482E 01	.2943E-03	.1418E-03	.7859E 02	.1446E 02
175	.6106E-03	-.7401E 01	.1525E 01	.3072E-03	.1480E-03	.7529E 02	.1386E 02
180	.6374E-03	-.7358E 01	.0000E 00	.0000E 00	.0000E 00	.7212E 02	.1327E 02

SCAT= .4597E-0[illegible] 30/45= .3373E 01 45/135= .4403E 01 SCAT30-130= .8461E-02

CH42/74 1525H 19164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.6408E 00	-.4450E 00	-.2439E 00	-.4514E 01	.0000E 00	.7444E-01	.1303E-01
5	.2469E 00	-.1399E 01	-.1429E 01	-.1632E 01	.3280E 02	.1932E 00	.3383E-01
10	.1027E 00	-.2276E 01	-.1974E 01	-.6482E 00	.1150E 02	.4645E 00	.8132E-01
15	.4613E-01	-.3076E 01	-.2395E 01	-.2722E 00	.4308E 01	.1034E 01	.1810E 00
20	.2238E-01	-.3800E 01	-.2898E 01	-.1221E 00	.1720E 01	.2132E 01	.3732E 00
25	.1172E-01	-.4446E 01	-.3231E 01	-.5980E-01	.7141E 00	.4070E 01	.7125E 00
30	.6503E-02	-.5034E 01	-.3277E 01	-.2959E-01	.3406E 00	.7336E 01	.1284E 01
35	.3924E-02	-.5541E 01	-.3016E 01	-.1491E-01	.1678E 00	.1216E 02	.2128E 01
40	.2623E-02	-.5943E 01	-.3231E 01	-.9059E-02	.6699E-01	.1818E 02	.3184E 01
45	.1833E-02	-.6302E 01	-.2464E 01	-.4803E-02	.4877E-01	.2603E 02	.4557E 01
50	.1414E-02	-.6562E 01	-.2279E 01	-.3734E-02	.1181E-01	.3374E 02	.5906E 01
55	.1088E-02	-.6824E 01	-.2149E 01	-.2126E-02	.1842E-01	.4386E 02	.7676E 01
60	.9023E-03	-.7011E 01	-.2149E 01	-.1796E-02	.3785E-02	.5288E 02	.9256E 01
65	.7656E-03	-.7175E 01	-.1882E 01	-.1210E-02	.6717E-02	.6234E 02	.1091E 02
70	.6075E-03	-.7406E 01	-.3284E 01	-.1962E-02	-.7110E-02	.7856E 02	.1375E 02
75	.5235E-03	-.7555E 01	-.2150E 01	-.9621E-03	.1144E-01	.9117E 02	.1596E 02
80	.4557E-03	-.7694E 01	-.1393E 01	-.7767E-03	.2126E-02	.1047E 03	.1833E 02
85	.4188E-03	-.7778E 01	-.1279E 01	-.4175E-03	.4055E-02	.1139E 03	.1994E 02
90	.3824E-03	-.7869E 01	-.2042E 01	-.4811E-03	-.4233E-02	.1248E 03	.2184E 02
95	.3742E-03	-.7880E 01	-.3481E 00	-.7104E-04	.6441E-02	.1261E 03	.2208E 02
100	.3968E-03	-.7833E 01	.2634E 00	.7420E-04	-.5802E-02	.1203E 03	.2105E 02
105	.3919E-03	-.7844E 01	-.1320E 00	-.3080E-04	.7404E-03	.1219E 03	.2133E 02
110	.3900E-03	-.7879E 01	-.6085E 00	-.1217E-03	-.1916E-02	.1232E 03	.2156E 02
115	.3874E-03	-.7856E 01	-.9424E-01	-.1777E-04	.1191E-02	.1232E 03	.2156E 02
120	.3858E-03	-.7860E 01	.1211E 01	.3768E-03	.3704E-02	.1232E 03	.2157E 02
125	.4166E-03	-.7779E 01	.1735E 01	.3378E-03	-.4357E-03	.1140E 03	.1995E 02
130	.4481E-03	-.7711E 01	.1042E 01	.6285E-04	-.3311E-02	.1065E 03	.1864E 02
135	.5029E-03	-.7595E 01	.1042E 01	.2226E-03	-.4651E-02	.9486E 02	.1661E 02
140	.5224E-03	-.7557E 01	.1091E 01	.4198E-03	.2213E-02	.9133E 02	.1599E 02
145	.5366E-03	-.7490E 01	.1981E 01	.4448E-03	.1943E-03	.8736E 02	.1529E 02
150	.5918E-03	-.7433E 01	.2049E 01	.4575E-03	.3961E-03	.8062E 02	.1411E 02
155	.6390E-03	-.7356E 01	.2110E 01	.5087E-03	.3787E-03	.7466E 02	.1307E 02
160	.6834E-03	-.7288E 01	.2183E 01	.5441E-03	.4051E-03	.6981E 02	.1222E 02
165	.7309E-03	-.7221E 01	.2250E 01	.5819E-03	.4332E-03	.6527E 02	.1143E 02
170	.7816E-03	-.7154E 01	.2317E 01	.6223E-03	.4633E-03	.6103E 02	.1068E 02
175	.8359E-03	-.7087E 01	.2384E 01	.6656E-03	.4955E-03	.5707E 02	.9991E 01
180	.8940E-03	-.7020E 01	.0000E 00	.0000E 00	.0000E 00	.5336E 02	.9342E 01

SCAT= .4771E-01 30/45= .3548E 01 45/135= .3644E 01 SCAT30-130= .8352E-02

CH42/75 2235H 19164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3780E 00	-.9728E 00	-.2139E 00	-.2455E 01	.0000E 00	.1024E 00	.2326E-01
5	.1638E 00	-.1809E 01	-.1115E 01	-.1010E 01	.1656E 02	.2363E 00	.5370E-01
10	.7560E-01	-.2582E 01	-.1749E 01	-.4401E 00	.6533E 01	.5119E 00	.1163E 00
15	.3719E-01	-.3292E 01	-.2245E 01	-.2028E 00	.2720E 01	.1041E 01	.2364E 00
20	.1950E-01	-.3937E 01	-.2609E 01	-.9861E-01	.1194E 01	.1985E 01	.4510E 00
25	.1089E-01	-.4520E 01	-.2904E 01	-.5131E-01	.5420E 00	.3553E 01	.8073E 00
30	.6416E-02	-.5049E 01	-.3077E 01	-.2777E-01	.2698E 00	.6032E 01	.1371E 01
35	.3993E-02	-.5523E 01	-.2758E 01	-.1410E-01	.1566E 00	.9693E 01	.2202E 01
40	.2763E-02	-.5892E 01	-.2959E 01	-.9317E-02	.5478E-01	.1401E 02	.3183E 01
45	.1950E-02	-.6240E 01	-.2491E 01	-.5158E-02	.4766E-01	.1985E 02	.4511E 01
50	.1499E-02	-.6503E 01	-.2449E 01	-.3977E-02	.1812E-01	.2581E 02	.5865E 01
55	.1187E-02	-.6736E 01	-.2724E 01	-.2071E-02	.8090E-0[illegible]	.3260E 02	.7407E 01
60	.9368E-03	-.6973E 01	-.2041E 01	-.1618E-02	.1436E-01	.4132E 02	.9388E 01
65	.7956E-03	-.7136E 01	-.2268E 01	-.1422E-02	.2245E-02	.4865E 02	.1105E 02
70	.6715E-03	-.7306E 01	-.2280E 01	-.1120E-02	.3459E-02	.5764E 02	.1310E 02
75	.5738E-03	-.7463E 01	-.2089E 01	-.8202E-03	.3332E-02	.6745E 02	.1533E 02
80	.5014E-03	-.7598E 01	-.1528E 01	-.5084E-03	.3676E-02	.7719E 02	.1754E 02
85	.4570E-03	-.7691E 01	-.1123E 01	-.3256E-03	.2096E-02	.8468E 02	.1924E 02
90	.4284E-03	-.7755E 01	-.9196E 00	-.2382E-03	.1001E-02	.9029E 02	.2052E 02
95	.4078E-03	-.7805E 01	.5523E 00	[illegible]	.4269E-02	.9490E 02	.2156E 02
100	.4196E-03	-.7776E 01	[illegible]	.8125E-04	-.6077E-03	.9225E 02	.2096E 02
105	.4267E-03	-.7760E 01	-.6305E 00	-.1413E-03	-.2550E-02	.9071E 02	.2061E 02
110	.4143E-03	-.7789E 01	-.5874E 00	-.1224E-03	.2171E-03	.9341E 02	.2123E 02
115	.4036E-03	-.7815E 01	.7356E 00	.1471E-03	.3088E-02	.9588E 02	.2179E 02
120	.4165E-03	-.7784E 01	.1858E 00	.3633E-04	-.1269E-02	.9293E 02	.2112E 02
125	.4197E-03	-.7776E 01	.1638E 01	.3190E-03	.3240E-02	.9223E 02	.2096E 02
130	.4475E-03	-.7712E 01	.2417E 01	.4098E-03	.1957E-02	.8649E 02	.1965E 02
135	.4902E-03	-.7621E 01	.5151E 00	.1062E-03	-.4398E-02	.7895E 02	.1794E 02
140	.4995E-03	-.7602E 01	.1312E 01	.2697E-03	.1874E-02	.7748E 02	.1761E 02
145	.5230E-03	-.7556E 01	.1358E 01	.2824E-03	.1457E-03	.7400E 02	.1681E 02
150	.5477E-03	-.7510E 01	.1404E 01	.2957E-03	.1525E-03	.7067E 02	.1606E 02
155	.5739E-03	-.7464E 01	.1450E 01	.3097E-03	.1597E-03	.6749E 02	.1533E 02
160	.6005E-03	-.7418E 01	.1496E 01	.3243E-03	.1672E-03	.6445E 02	.1464E 02
165	.6288E-03	-.7372E 01	.1542E 01	.3396E-03	.1751E-03	.6155E 02	.1398E 02
170	.6585E-03	-.7326E 01	.1588E 01	.3556E-03	.1833E-03	.5878E 02	.1336E 02
175	.6895E-03	-.7280E 01	.1635E 01	.3723E-03	.1920E-03	.5613E 02	.1275E 02
180	.7220E-03	-.7234E 01	.0000E 00	.0000E 00	.0000E 00	.5361E 02	.1218E 02

SCAT= .3870E-01 30/45= .3291E 01 45/135= .3977E 01 SCAT30-130= .8794E-02

CH42/76 2330H 19164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.4846E 00	-.7244E 00	-.2174E 00	-.3181E 01	.0000E 00	.9790E-01	.2148E-01
5	.2070E 00	-.1575E 01	-.1132E 01	-.1290E 01	.2167E 02	.2291E 00	.5029E-01
10	.9450E-01	-.2359E 01	-.1772E 01	-.5549E 00	.8420E 01	.5021E 00	.1102E 00
15	.4607E-01	-.3078E 01	-.2267E 01	-.2530E 00	.3460E 01	.1030E 01	.2260E 00
20	.2400E-01	-.3730E 01	-.2627E 01	-.1220E 00	.1501E 01	.1977E 01	.4339E 00
25	.1335E-01	-.4316E 01	-.2983E 01	-.6419E-01	.6623E 00	.3554E 01	.7798E 00
30	.7750E-02	-.4860E 01	-.3130E 01	-.3399E-01	.3460E 00	.6122E 01	.1343E 01
35	.4784E-02	-.5343E 01	-.2692E 01	-.1655E-01	.1998E 00	.9918E 01	.2177E 01
40	.3339E-02	-.5702E 01	-.2907E 01	-.1109E-01	.6256E-01	.1421E 02	.3118E 01
45	.2371E-02	-.6045E 01	-.2481E 01	-.6250E-02	.5551E-01	.2001E 02	.4392E 01
50	.1825E-02	-.6306E 01	-.2442E 01	-.4344E-02	.2184E-01	.2599E 02	.5704E 01
55	.1446E-02	-.6539E 01	-.2728E 01	-.3502E-02	.9641E-02	.3280E 02	.7199E 01
60	.1141E-02	-.6776E 01	-.2590E 01	-.2448E-02	.1209E-01	.4159E 02	.9128E 01
65	.9271E-03	-.6983E 01	-.2034E 01	-.1487E-02	.1101E-01	.5118E 02	.1123E 02
70	.7973E-03	-.7134E 01	-.2188E 01	-.1280E-02	.2367E-02	.5950E 02	.1306E 02
75	.6856E-03	-.7285E 01	-.1740E 01	-.8344E-03	.5106E-02	.6920E 02	.1519E 02
80	.6128E-03	-.7397E 01	-.1982E 01	-.7969E-03	.4527E-03	.7742E 02	.1699E 02
85	.5435E-03	-.7518E 01	-.1868E 01	-.6307E-03	.1882E-02	.8730E 02	.1916E 02
90	.4884E-03	-.7624E 01	-.9046E 00	-.2671E-03	.4166E-02	.9714E 02	.2132E 02
95	.4651E-03	-.7673E 01	.5872E 00	.1630E-03	.4929E-02	.1020E 03	.2239E 02
100	.4793E-03	-.7643E 01	-.6089E 00	-.1815E-03	-.3948E-02	.9898E 02	.2172E 02
105	.4635E-03	-.7677E 01	-.3071E 00	-.7535E-04	.1217E-02	.1024E 03	.2246E 02
110	.4569E-03	-.7691E 01	-.1046E 01	-.2379E-03	-.1843E-02	.1030E 03	.2279E 02
115	.4361E-03	-.7738E 01	-.1023E 00	-.2172E-04	.2478E-02	.1088E 03	.2387E 02
120	.4342E-03	-.7742E 01	.1776E 01	.3742E-03	.4537E-02	.1093E 03	.2398E 02
125	.4669E-03	-.7669E 01	.6576E 00	.1398E-03	-.2687E-02	.1016E 03	.2230E 02
130	.4791E-03	-.7644E 01	.1381E 01	.2937E-03	.1764E-02	.9903E 02	.2173E 02
135	.5047E-03	-.7591E 01	.9127E 00	.1952E-03	-.1129E-02	.9400E 02	.2063E 02
140	.5218E-03	-.7558E 01	.1112E 01	.2380E-03	.4906E-03	.9093E 02	.1995E 02
145	.5425E-03	-.7519E 01	.1151E 01	.2475E-03	.1086E-03	.8745E 02	.1919E 02
150	.5641E-03	-.7480E 01	.1191E 01	.2573E-03	.1129E-03	.8410E 02	.1846E 02
155	.5866E-03	-.7441E 01	.1230E 01	.2676E-03	.1174E-03	.8088E 02	.1775E 02
160	.6099E-03	-.7402E 01	.1269E 01	.2782E-03	.1221E-03	.7779E 02	.1707E 02
165	.6342E-03	-.7363E 01	.1308E 01	.2893E-03	.1269E-03	.7481E 02	.1642E 02
170	.6595E-03	-.7324E 01	.1347E 01	.3008E-03	.1320E-03	.7194E 02	.1579E 02
175	.6857E-03	-.7285E 01	.1386E 01	.3128E-03	.1372E-03	.6919E 02	.1518E 02
180	.7130E-03	-.7246E 01	.0000E 00	.0000E 00	.0000E 00	.6654E 02	.1460E 02

SCAT= .4744E-01 30/45= .3269E 01 45/135= .4697E 01 SCAT30-130= .1041E-01

CH42/77 2340H 19164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.8562E 00	-.1552E 00	-.2494E 00	-.6112E 01	.0000E 00	.7081E-01	.1231E-01
5	.3228E 00	-.1131E 01	-.1292E 01	-.2188E 01	.4497E 02	.1878E 00	.3265E-01
10	.1319E 00	-.2026E 01	-.2010E 01	-.8424E 00	.1542E 02	.4597E 00	.7993E-01
15	.5838E-01	-.2841E 01	-.2554E 01	-.3481E 00	.5663E 01	.1039E 01	.1806E 00
20	.2800E-01	-.3576E 01	-.2934E 01	-.1541E 00	.2223E 01	.2166E 01	.3765E 00
25	.1455E-01	-.4230E 01	-.3203E 01	-.7374E-01	.9210E 00	.4168E 01	.7246E 00
30	.8112E-02	-.4814E 01	-.3426E 01	-.3816E-01	.4079E 00	.7474E 01	.1299E 01
35	.4783E-02	-.5343E 01	-.3005E 01	-.1812E-01	.2295E 00	.1267E 02	.2204E 01
40	.3203E-02	-.5744E 01	-.2550E 01	-.9522E-02	.9848E-01	.1893E 02	.3291E 01
45	.2372E-02	-.6044E 01	-.2835E 01	-.7017E-02	.2870E-01	.2556E 02	.4445E 01
50	.1759E-02	-.6343E 01	-.2038E 01	-.3558E-02	.3963E-01	.3446E 02	.5992E 01
55	.1449E-02	-.6537E 01	-.2007E 01	-.2661E-02	.1029E-01	.4185E 02	.7276E 01
60	.1217E-02	-.6712E 01	-.2347E 01	-.2388E-02	.3122E-02	.4983E 02	.8664E 01
65	.1008E-02	-.6900E 01	-.2059E 01	-.1635E-02	.8631E-02	.6014E 02	.1046E 02
70	.8655E-03	-.7052E 01	-.2991E 01	-.1849E-02	-.2459E-02	.7005E 02	.1218E 02
75	.7041E-03	-.7259E 01	-.2315E 01	-.1120E-02	.8359E-02	.8610E 02	.1497E 02
80	.6064E-03	-.7408E 01	-.2029E 01	-.8041E-03	.3619E-02	.9998E 02	.1738E 02
85	.5362E-03	-.7531E 01	-.9916E 00	-.3386E-03	.5334E-02	.1131E 03	.1966E 02
90	.5067E-03	-.7588E 01	-.1126E 01	-.3429E-03	-.4943E-04	.1197E 03	.2080E 02
95	.4768E-03	-.7648E 01	.2363E 00	.6663E-04	.4693E-02	.1272E 03	.2211E 02
100	.4826E-03	-.7636E 01	-.3969E 00	-.1060E-03	-.1979E-02	.1256E 03	.2184E 02
105	.4733E-03	-.7656E 01	-.8618E 00	-.2131E-03	-.1227E-02	.1281E 03	.2227E 02
110	.4547E-03	-.7696E 01	-.6920E 00	-.1579E-03	.6336E-03	.1333E 03	.2318E 02
115	.4410E-03	-.7727E 01	.1093E 01	.2406E-03	.4564E-02	.1379E 03	.2391E 02
120	.4620E-03	-.7680E 01	.4664E 00	.1018E-03	-.1581E-02	.1312E 03	.2282E 02
125	.4708E-03	-.7661E 01	.9587E 00	.2067E-03	.1203E-02	.1288E 03	.2239E 02
130	.4889E-03	-.7623E 01	.2066E 01	.4542E-03	.2835E-02	.1240E 03	.2156E 02
135	.5285E-03	-.7545E 01	.6918E 00	.1543E-03	-.3436E-02	.1147E 03	.1995E 02
140	.5420E-03	-.7520E 01	.1194E 01	.2656E-03	.1276E-02	.1119E 03	.1945E 02
145	.5652E-03	-.7478E 01	.1235E 01	.2770E-03	.1302E-03	.1073E 03	.1865E 02
150	.5893E-03	-.7437E 01	.1277E 01	.2889E-03	.1358E-03	.1029E 03	.1789E 02
155	.6145E-03	-.7395E 01	.1319E 01	.3012E-03	.1416E-03	.9866E 02	.1715E 02
160	.6408E-03	-.7353E 01	.1361E 01	.3141E-03	.1476E-03	.9461E 02	.1645E 02
165	.6682E-03	-.7311E 01	.1403E 01	.3275E-03	.1540E-03	.9073E 02	.1577E 02
170	.6968E-03	-.7269E 01	.1445E 01	.3415E-03	.1605E-03	.8701E 02	.1513E 02
175	.7266E-03	-.7227E 01	.1487E 01	.3562E-03	.1674E-03	.8344E 02	.1451E 02
180	.7577E-03	-.7185E 01	.0000E 00	.0000E 00	.0000E 00	.8002E 02	.1391E 02

SCAT= .6063E-01 30/45= .3420E 01 45/135= .4487E 01 SCAT30-130= .1054E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.4207E 00	-.8658E 00	-.2168E 00	-.2756E 01	.0000E 00	.9978E-01	.2250E-01
5	.1802E 00	-.1714E 01	-.1127E 01	-.1119E 01	.1875E 02	.2329E 00	.5253E-01
10	.8253E-01	-.2495E 01	-.1761E 01	-.4826E 00	.7295E 01	.5087E 00	.1147E 00
15	.4041E-01	-.3209E 01	-.2250E 01	-.2206E 00	.3002E 01	.1039E 01	.2343E 00
20	.2115E-01	-.3856E 01	-.2601E 01	-.1067E 00	.1309E 01	.1984E 01	.4475E 00
25	.1184E-01	-.4436E 01	-.2984E 01	-.5693E-01	.5707E 00	.3545E 01	.7995E 00
30	.6872E-02	-.4980E 01	-.2908E 01	-.2845E-01	.3264E 00	.6109E 01	.1377E 01
35	.4389E-02	-.5429E 01	-.2862E 01	-.1597E-01	.1429E 00	.9564E 01	.2157E 01
40	.2995E-02	-.5811E 01	-.2809E 01	-.9656E-02	.7241E-01	.1402E 02	.3160E 01
45	.2153E-02	-.6141E 01	-.2295E 01	-.5299E-02	.4993E-01	.1950E 02	.4398E 01
50	.1690E-02	-.6383E 01	-.3259E 01	-.5172E-02	.1451E-02	.2484E 02	.5601E 01
55	.1239E-02	-.6694E 01	-.2032E 01	-.2301E-02	.3290E-01	.3389E 02	.7641E 01
60	.1038E-02	-.6870E 01	-.2650E 01	-.2274E-02	.3114E-03	.4044E 02	.9119E 01
65	.8396E-03	-.7083E 01	-.1734E 01	-.1160E-02	.1276E-01	.5000E 02	.1127E 02
70	.7384E-03	-.7211E 01	-.2692E 01	-.1434E-02	-.3140E-02	.5685E 02	.1282E 02
75	.6132E-03	-.7397E 01	-.1746E 01	-.7688E-03	.7856E-02	.6846E 02	.1544E 02
80	.5478E-03	-.7510E 01	-.1741E 01	-.6290E-03	.1373E-02	.7662E 02	.1728E 02
85	.4930E-03	-.7615E 01	-.1378E 01	-.4277E-03	.2307E-02	.8516E 02	.1920E 02
90	.4556E-03	-.7694E 01	-.5466E 00	-.1520E-03	.3159E-02	.9213E 02	.2078E 02
95	.4424E-03	-.7723E 01	-.4903E-01	-.1273E-04	.1596E-02	.9490E 02	.2140E 02
100	.4412E-03	-.7726E 01	.1206E 00	.2983E-04	.4878E-03	.9514E 02	.2145E 02
105	.4439E-03	-.7720E 01	-.1146E 01	-.2641E-03	-.3369E-02	.9458E 02	.2133E 02
110	.4208E-03	-.7773E 01	-.4829E 00	-.1024E-03	.1893E-02	.9976E 02	.2250E 02
115	.4119E-03	-.7795E 01	-.1809E 00	-.3620E-04	.7585E-03	.1019E 03	.2298E 02
120	.4087E-03	-.7803E 01	.1156E 01	.2263E-03	.3008E-02	.1027E 03	.2316E 02
125	.4285E-03	-.7755E 01	.6830E 00	.1333E-03	-.1065E-02	.9798E 02	.2209E 02
130	.4401E-03	-.7729E 01	.2539E 01	.5071E-03	.4283E-02	.9539E 02	.2151E 02
135	.4843E-03	-.7633E 01	.2957E 00	.6000E-04	-.5123E-02	.8667E 02	.1954E 02
140	.4896E-03	-.7622E 01	.1134E 01	.2270E-03	.1923E-02	.8574E 02	.1934E 02
145	.5095E-03	-.7582E 01	.1174E 01	.2371E-03	.1060E-03	.8240E 02	.1858E 02
150	.5301E-03	-.7542E 01	.1214E 01	.2467E-03	.1103E-03	.7918E 02	.1786E 02
155	.5517E-03	-.7503E 01	.1254E 01	.2567E-03	.1148E-03	.7609E 02	.1716E 02
160	.5741E-03	-.7463E 01	.1294E 01	.2672E-03	.1195E-03	.7312E 02	.1649E 02
165	.5974E-03	-.7423E 01	.1333E 01	.2780E-03	.1243E-03	.7027E 02	.1585E 02
170	.6217E-03	-.7383E 01	.1373E 01	.2893E-03	.1294E-03	.6753E 02	.1523E 02
175	.6469E-03	-.7343E 01	.1413E 01	.3010E-03	.1346E-03	.6489E 02	.1463E 02
180	.6732E-03	-.7304E 01	.0000E 00	.0000E 00	.0000E 00	.6236E 02	.1406E 02

SCAT= .4198E-01 30/45= .3192E 01 45/135= .4444E 01 SCAT30-130= .9466E-02

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1838E 00	-.1694E 01	-.1540E 00	-.9420E 00	.0000E 00	.2016E 00	.6634E-01
5	.9988E-01	-.2304E 01	-.8253E 00	-.4986E 00	.5310E 01	.3710E 00	.1221E 00
10	.5637E-01	-.2876E 01	-.1317E 01	-.2673E 00	.2651E 01	.6574E 00	.2163E 00
15	.3305E-01	-.3410E 01	-.1724E 01	-.1481E 00	.1366E 01	.1121E 01	.3690E 00
20	.2012E-01	-.3906E 01	-.2053E 01	-.8474E-01	.7260E 00	.1842E 01	.6060E 00
25	.1273E-01	-.4364E 01	-.2376E 01	-.5127E-01	.3835E 00	.2912E 01	.9582E 00
30	.8253E-02	-.4797E 01	-.2553E 01	-.3077E-01	.2350E 00	.4490E 01	.1478E 01
35	.5568E-02	-.5191E 01	-.2527E 01	-.1828E-01	.1431E 00	.6656E 01	.2190E 01
40	.3973E-02	-.5528E 01	-.2693E 01	-.1238E-01	.6762E-01	.9327E 01	.3069E 01
45	.2893E-02	-.5845E 01	-.2583E 01	-.7900E-02	.5128E-01	.1281E 02	.4215E 01
50	.2204E-02	-.6118E 01	-.2510E 01	-.5373E-02	.2895E-01	.1682E 02	.5534E 01
55	.1735E-02	-.6357E 01	-.2646E 01	-.4087E-02	.1473E-01	.2136E 02	.7030E 01
60	.1378E-02	-.6587E 01	-.2578E 01	-.2945E-02	.1309E-01	.2689E 02	.8849E 01
65	.1121E-02	-.6793E 01	-.2007E 01	-.1775E-02	.1340E-01	.3306E 02	.1088E 02
70	.9662E-03	-.6942E 01	-.2891E 01	-.2002E-02	-.2600E-02	.3836E 02	.1262E 02
75	.7915E-03	-.7142E 01	-.1812E 01	-.1001E-02	.1147E-01	.4682E 02	.1541E 02
80	.7041E-03	-.7259E 01	-.1272E 01	-.5987E-03	.4609E-02	.5263E 02	.1732E 02
85	.6519E-03	-.7336E 01	-.2111E 01	-.8490E-03	-.2869E-02	.5685E 02	.1871E 02
90	.5778E-03	-.7456E 01	-.1406E 01	-.4846E-03	.4176E-02	.6414E 02	.2111E 02
95	.5355E-03	-.7532E 01	-.8135E-01	-.2555E-04	.5261E-02	.6920E 02	.2277E 02
100	.5333E-03	-.7537E 01	-.3757E 00	-.1110E-03	-.9792E-03	.6949E 02	.2287E 02
105	.5236E-03	-.7555E 01	-.5478E 00	-.1509E-03	-.4578E-03	.7078E 02	.2329E 02
110	.5104E-03	-.7580E 01	-.7677E 00	-.1962E-03	-.5188E-03	.7260E 02	.2389E 02
115	.4933E-03	-.7614E 01	.3185E 00	.7715E-04	.3133E-02	.7513E 02	.2472E 02
120	.5000E-03	-.7601E 01	.8404E 00	.2000E-03	.1407E-02	.7411E 02	.2439E 02
125	.5175E-03	-.7567E 01	.6882E 00	.1622E-03	-.4326E-03	.7161E 02	.2357E 02
130	.5316E-03	-.7540E 01	.2729E 01	.6608E-03	.5714E-02	.6971E 02	.2294E 02
135	.5893E-03	-.7437E 01	.3136E 00	.7746E-04	-.6685E-02	.6289E 02	.2069E 02
140	.5960E-03	-.7425E 01	.1188E 01	.2908E-03	.2444E-02	.6217E 02	.2046E 02
145	.6214E-03	-.7384E 01	.1230E 01	.3031E-03	.1418E-03	.5963E 02	.1962E 02
150	.6479E-03	-.7342E 01	.1271E 01	.3160E-03	.1479E-03	.5720E 02	.1882E 02
155	.6755E-03	-.7300E 01	.1313E 01	.3295E-03	.1542E-03	.5486E 02	.1805E 02
160	.7042E-03	-.7258E 01	.1355E 01	.3435E-03	.1607E-03	.5262E 02	.1732E 02
165	.7342E-03	-.7217E 01	.1396E 01	.3582E-03	.1676E-03	.5047E 02	.1661E 02
170	.7654E-03	-.7175E 01	.1438E 01	.3734E-03	.1747E-03	.4841E 02	.1593E 02
175	.7980E-03	-.7133E 01	.1480E 01	.3893E-03	.1822E-03	.4644E 02	.1528E 02
180	.8320E-03	-.7092E 01	.0000E 00	.0000E 00	.0000E 00	.4454E 02	.1466E 02

SCAT= .3706E-01 30/45= .2853E 01 45/135= .4909E 01 SCAT30-130= .1220E-01

CH42/80 0040H 20164 St 605-400

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3690E 00	-.9969E 00	-.1890E 00	-.2209E 01	.0000E 00	.1358E 00	.3694E-01
5	.1762E 00	-.1736E 01	-.9878E 00	-.1001E 01	.1385E 02	.2844E 00	.7736E-01
10	.8885E-01	-.2421E 01	-.1594E 01	-.4760E 00	.6016E 01	.5641E 00	.1534E 00
15	.4731E-01	-.3051E 01	-.2001E 01	-.2373E 00	.2739E 01	.1059E 01	.2881E 00
20	.2640E-01	-.3627E 01	-.2336E 01	-.1238E 00	.1300E 01	.1884E 01	.5124E 00
25	.1579E-01	-.4148E 01	-.2717E 01	-.7070E-01	.6088E 00	.3173E 01	.8630E 00
30	.9625E-02	-.4643E 01	-.2692E 01	-.3746E-01	.3809E 00	.5207E 01	.1416E 01
35	.6354E-02	-.5058E 01	-.2822E 01	-.2287E-01	.1673E 00	.7885E 01	.2145E 01
40	.4361E-02	-.5435E 01	-.2396E 01	-.1229E-01	.1212E 00	.1149E 02	.3126E 01
45	.3288E-02	-.5717E 01	-.2590E 01	-.8999E-02	.3765E-01	.1524E 02	.4145E 01
50	.2503E-02	-.5990E 01	-.2793E 01	-.6705E-02	.2630E-01	.2002E 02	.5445E 01
55	.1910E-02	-.6256E 01	-.2551E 01	-.4375E-02	.2669E-01	.2613E 02	.7107E 01
60	.1536E-02	-.6478E 01	-.2639E 01	-.3351E-02	.1173E-01	.3262E 02	.8873E 01
65	.1244E-02	-.6690E 01	-.2376E 01	-.2301E-02	.1204E-01	.4030E 02	.1096E 02
70	.1043E-02	-.6866E 01	-.2623E 01	-.1978E-02	.3780E-02	.4806E 02	.1307E 02
75	.8703E-03	-.7047E 01	-.1622E 01	-.9913E-03	.1131E-01	.5759E 02	.1566E 02
80	.7838E-03	-.7151E 01	-.1938E 01	-.9955E-03	-.4770E-04	.6395E 02	.1739E 02
85	.6969E-03	-.7269E 01	-.1758E 01	-.7636E-03	.2650E-02	.7192E 02	.1956E 02
90	.6302E-03	-.7369E 01	-.1555E 01	-.5823E-03	.2077E-02	.7952E 02	.2163E 02
95	.5794E-03	-.7453E 01	-.1825E 00	-.6189E-04	.5964E-02	.8650E 02	.2352E 02
100	.5740E-03	-.7463E 01	-.3771E 00	-.1199E-03	-.6653E-03	.8731E 02	.2375E 02
105	.5636E-03	-.7481E 01	.8445E-01	.2542E-04	.1665E-02	.8893E 02	.2419E 02
110	.5658E-03	-.7477E 01	-.5987E 00	-.1703E-03	-.2242E-02	.8858E 02	.2409E 02
115	.5509E-03	-.7504E 01	.3766E 00	.1020E-03	.3120E-02	.9097E 02	.2474E 02
120	.5598E-03	-.7488E 01	.8293E 00	.2209E-03	.1362E-02	.8952E 02	.2435E 02
125	.5791E-03	-.7454E 01	.3834E-01	.9985E-05	-.2417E-02	.8654E 02	.2354E 02
130	.5800E-03	-.7453E 01	.2780E 01	.7373E-03	.8334E-02	.8641E 02	.2350E 02
135	.6443E-03	-.7347E 01	.1123E 00	.3022E-04	-.8102E-02	.7778E 02	.2116E 02
140	.6478E-03	-.7343E 01	.9930E 00	.2629E-03	.2666E-02	.7747E 02	.2107E 02
145	.6699E-03	-.7308E 01	.1028E 01	.2722E-03	.1060E-03	.7481E 02	.2035E 02
150	.6936E-03	-.7274E 01	.1063E 01	.2819E-03	.1106E-03	.7225E 02	.1965E 02
155	.7182E-03	-.7239E 01	.1098E 01	.2919E-03	.1145E-03	.6978E 02	.1898E 02
160	.7437E-03	-.7204E 01	.1132E 01	.3022E-03	.1186E-03	.6739E 02	.1833E 02
165	.7701E-03	-.7169E 01	.1167E 01	.3129E-03	.1228E-03	.6508E 02	.1770E 02
170	.7974E-03	-.7134E 01	.1202E 01	.3240E-03	.1272E-03	.6285E 02	.1709E 02
175	.8257E-03	-.7099E 01	.1237E 01	.3355E-03	.1317E-03	.6070E 02	.1651E 02
180	.8550E-03	-.7064E 01	.0000E 00	.0000E 00	.0000E 00	.5862E 02	.1594E 02

SCAT= .5012E-01 30/45= .2927E 01 45/135= .5104E 01 SCAT30-130= .1363E-01

CH42/81 0055H 20164 St 605-500

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
165	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
170	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
175	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
180	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SCAT= .2191E-01 30/45= .3193E 01 45/135= .2320E 01 SCAT30-130= .6059E-02

CH42/82 0110H 20164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	-.7568E 01	.1096E 01	.2166E-03	.8762E-04	.5662E 02	.1609E 02
155	.5356E-03	-.7532E 01	.1132E 01	.2245E-03	.9002E-04	.5462E 02	.1547E 02
160	.5552E-03	-.7496E 01	.1168E 01	.2320E-03	.9414E-04	.5269E 02	.1492E 02
165	.5755E-03	-.7460E 01	.1204E 01	.2413E-03	.9759E-04	.5083E 02	.1439E 02
170	.5965E-03	-.7424E 01	.1240E 01	.2501E-03	.1012E-03	.4904E 02	.1389E 02
175	.6184E-03	-.7388E 01	.1276E 01	.2593E-03	.1049E-03	.4731E 02	.1340E 02
180	.6410E-03	-.7352E 01	.0000E 00	.0000E 00	.0000E 00	.4564E 02	.1292E 02

SCAT= .2925E-01 30/45= .2924E 01 45/135= .3891E 01 SCAT30-130= .8283E-02

CH42/83 0130H 20164 St 605-700

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	.4615E-03	-.7681E 01	.1487E 01	.2537E-03	.1351E-03	.3571E 02	.1177E 02
160	.4830E-03	-.7634E 01	.1534E 01	.2680E-03	.1416E-03	.3407E 02	.1122E 02
165	.5072E-03	-.7587E 01	.1581E 01	.2810E-03	.1485E-03	.3249E 02	.1071E 02
170	.5317E-03	-.7539E 01	.1629E 01	.2946E-03	.1556E-03	.3100E 02	.1021E 02
175	.5574E-03	-.7492E 01	.1676E 01	.3088E-03	.1632E-03	.2957E 02	.9741E 01
180	.5844E-03	-.7445E 01	.0000E 00	.0000E 00	.0000E 00	.2820E 02	.9292E 01

SCAT= .1648E-01 30/45= .3132E 01 45/135= .2860E 01 SCAT30-130= .5430E-02

CH42/84 0150H 20164 St 605-800

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	.8947E-03	-.7019E 01	.8141E 00	.2869E-03	.8952E-04	.9140E 02	.2360E 02
150	.9190E-03	-.6991E 01	.8417E 00	.2950E-03	.9201E-04	.8899E 02	.2296E 02
155	.9455E-03	-.6964E 01	.8693E 00	.3032E-03	.9459E-04	.8657E 02	.2233E 02
160	.9720E-03	-.6936E 01	.8970E 00	.3117E-03	.9724E-04	.8421E 02	.2173E 02
165	.9992E-03	-.6909E 01	.9246E 00	.3204E-03	.9996E-04	.8192E 02	.2113E 02
170	.1027E-02	-.6881E 01	.9522E 00	.3294E-03	.1027E-03	.7969E 02	.2056E 02
175	.1056E-02	-.6853E 01	.9798E 00	.3386E-03	.1056E-03	.7752E 02	.2000E 02
180	.1085E-02	-.6826E 01	.0000E 00	.0000E 00	.0000E 00	.7541E 02	.1945E 02

SCAT= .8185E-01 30/45= .3096E 01 45/135= .5003E 01 SCAT30-130= .2112E-01

CH42/85 0235H 20164 = 605-1,000

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3900E 00	-.9417E 00	-.1985E 00	-.2413E 01	.0000E 00	.1241E 00	.3326E-01
5	.1794E 00	-.1718E 01	-.1034E 01	-.1052E 01	.1460E 02	.2698E 00	.7230E-01
10	.8758E-01	-.2435E 01	-.1621E 01	-.4835E 00	.6513E 01	.5526E 00	.1481E 00
15	.4539E-01	-.3092E 01	-.2077E 01	-.2340E 00	.2859E 01	.1066E 01	.2857E 00
20	.2497E-01	-.3690E 01	-.2411E 01	-.1191E 00	.1317E 01	.1938E 01	.5194E 00
25	.1458E-01	-.4228E 01	-.2748E 01	-.6585E-01	.6098E 00	.3320E 01	.8895E 00
30	.8834E-02	-.4729E 01	-.2757E 01	-.3505E-01	.3529E 00	.5479E 01	.1468E 01
35	.5775E-02	-.5154E 01	-.2802E 01	-.2066E-01	.1649E 00	.8381E 01	.2246E 01
40	.3973E-02	-.5528E 01	-.2332E 01	-.1093E-01	.1114E 00	.1218E 02	.3264E 01
45	.3018E-02	-.5803E 01	-.2534E 01	-.8106E-02	.3241E-01	.1604E 02	.4297E 01
50	.2311E-02	-.6070E 01	-.2855E 01	-.6308E-02	.2060E-01	.2094E 02	.5612E 01
55	.1761E-02	-.6342E 01	-.2479E 01	-.3909E-02	.2750E-01	.2749E 02	.7367E 01
60	.1419E-02	-.6557E 01	-.1908E 01	-.2303E-02	.1839E-01	.3410E 02	.9137E 01
65	.1218E-02	-.6710E 01	-.1985E 01	-.1908E-02	.4527E-02	.3972E 02	.1064E 02
70	.1052E-02	-.6857E 01	-.2983E 01	-.1968E-02	-.6824E-03	.4601E 02	.1233E 02
75	.8802E-03	-.7035E 01	-.1599E 01	-.9807E-03	.1122E-01	.5499E 02	.1473E 02
80	.7939E-03	-.7139E 01	-.2115E 01	-.1095E-02	-.1215E-02	.6097E 02	.1634E 02
85	.6984E-03	-.7267E 01	-.1230E 01	-.5433E-03	.6318E-02	.6931E 02	.1857E 02
90	.6510E-03	-.7337E 01	-.9270E 00	-.3647E-03	.2048E-02	.7435E 02	.1992E 02
95	.6192E-03	-.7387E 01	-.4788E 00	-.1721E-03	.2206E-02	.7817E 02	.2095E 02
100	.6041E-03	-.7412E 01	-.6680E 00	-.2220E-03	-.5714E-03	.8012E 02	.2147E 02
105	.5848E-03	-.7444E 01	-.2415E 00	-.7487E-04	.1686E-02	.8277E 02	.2218E 02
110	.5782E-03	-.7456E 01	-.1893E 00	-.5552E-04	.2218E-03	.8371E 02	.2243E 02
115	.5734E-03	-.7464E 01	-.9475E 00	-.2597E-03	-.2340E-02	.8442E 02	.2262E 02
120	.5507E-03	-.7504E 01	.1007E 01	.2648E-03	.6010E-02	.8789E 02	.2355E 02
125	.5738E-03	-.7463E 01	-.3990E 00	-.1023E-03	-.4207E-02	.8435E 02	.2260E 02
130	.5649E-03	-.7479E 01	.1871E 01	.4735E-03	.6590E-02	.8568E 02	.2296E 02
135	.6062E-03	-.7408E 01	-.3603E 00	-.9042E-04	-.6462E-02	.7984E 02	.2139E 02
140	.5983E-03	-.7421E 01	.3898E 00	.9443E-04	.2118E-02	.8089E 02	.2168E 02
145	.6066E-03	-.7408E 01	.4035E 00	.9573E-04	.1490E-04	.7980E 02	.2138E 02
150	.6149E-03	-.7394E 01	.4172E 00	.9705E-04	.1510E-04	.7871E 02	.2109E 02
155	.6234E-03	-.7380E 01	.4308E 00	.9838E-04	.1532E-04	.7764E 02	.2080E 02
160	.6320E-03	-.7367E 01	.4445E 00	.9974E-04	.1553E-04	.7659E 02	.2052E 02
165	.6407E-03	-.7353E 01	.4582E 00	.1011E-03	.1574E-04	.7555E 02	.2024E 02
170	.6495E-03	-.7339E 01	.4719E 00	.1025E-03	.1595E-04	.7452E 02	.1997E 02
175	.6585E-03	-.7326E 01	.4856E 00	.1039E-03	.1618E-04	.7351E 02	.1970E 02
180	.6675E-03	-.7312E 01	.0000E 00	.0000E 00	.0000E 00	.7251E 02	.1943E 02

SCAT= .4840E-01 30/45= .2927E 01 45/135= .4979E 01 SCAT30-130= .1297E-01

CH42/86 0335H 20164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.4222E 00	-.8624E 00	-.1640E 00	-.2290E 01	.0000E 00	.1832E 00	.5942E-01
5	.2223E 00	-.1504E 01	-.8642E 00	-.1148E 01	.1309E 02	.3479E 00	.1128E 00
10	.1221E 00	-.2103E 01	-.1373E 01	-.5975E 00	.6309E 01	.6332E 00	.2054E 00
15	.6999E-01	-.2659E 01	-.1788E 01	-.3225E 00	.3150E 01	.1105E 01	.3584E 00
20	.4184E-01	-.3174E 01	-.2116E 01	-.1804E 00	.1620E 01	.1848E 01	.5996E 00
25	.2609E-01	-.3646E 01	-.2378E 01	-.1052E 00	.8625E 00	.2964E 01	.9613E 00
30	.1692E-01	-.4080E 01	-.2579E 01	-.6350E-01	.4776E 00	.4572E 01	.1483E 01
35	.1137E-01	-.4476E 01	-.2611E 01	-.3836E-01	.2880E 00	.6800E 01	.2205E 01
40	.8076E-02	-.4825E 01	-.2467E 01	-.2319E-01	.1739E 00	.9636E 01	.3128E 01
45	.6002E-02	-.5116E 01	-.2646E 01	-.1674E-01	.7594E-01	.1288E 02	.4179E 01
50	.4542E-02	-.5394E 01	-.2584E 01	-.1136E-01	.6167E-01	.1703E 02	.5523E 01
55	.3550E-02	-.5641E 01	-.2549E 01	-.8093E-02	.3747E-01	.2178E 02	.7066E 01
60	.2844E-02	-.5863E 01	-.2308E 01	-.5627E-02	.2826E-01	.2719E 02	.8820E 01
65	.2355E-02	-.6052E 01	-.2099E 01	-.3804E-02	.1998E-01	.3287E 02	.1066E 02
70	.2014E-02	-.6208E 01	-.2209E 01	-.3371E-02	.5076E-02	.3840E 02	.1246E 02
75	.1720E-02	-.6366E 01	-.2142E 01	-.2566E-02	.9221E-02	.4497E 02	.1459E 02
80	.1496E-02	-.6505E 01	-.1755E 01	-.1730E-02	.9585E-02	.5170E 02	.1677E 02
85	.1345E-02	-.6612E 01	-.1388E 01	-.1176E-02	.6349E-02	.5751E 02	.1865E 02
90	.1242E-02	-.6691E 01	-.2142E 01	-.1556E-02	-.4303E-02	.6226E 02	.2019E 02
95	.1106E-02	-.6807E 01	-.1545E 00	-.1001E-03	.1669E-01	.6990E 02	.2267E 02
100	.1098E-02	-.6815E 01	-.7033E 00	-.4716E-03	-.4258E-02	.7046E 02	.2285E 02
105	.1056E-02	-.6853E 01	-.4443E 00	-.2587E-03	.2440E-02	.7320E 02	.2374E 02
110	.1034E-02	-.6874E 01	-.4674E 00	-.2436E-03	.1727E-03	.7480E 02	.2428E 02
115	.1013E-02	-.6895E 01	-.3647E 00	-.1787E-03	.7437E-03	.7637E 02	.2477E 02
120	.9970E-03	-.6911E 01	-.3276E 00	-.1518E-03	.3009E-03	.7787E 02	.2516E 02
125	.9838E-03	-.6924E 01	-.4800E 00	-.2102E-03	-.6698E-03	.7861E 02	.2550E 02
130	.9654E-03	-.6943E 01	.1026E 01	.4368E-03	.7425E-02	.8010E 02	.2598E 02
135	.1004E-02	-.6904E 01	-.6886E 00	-.2844E-03	-.8265E-02	.7706E 02	.2499E 02
140	.9787E-03	-.6929E 01	-.1430E 00	-.6614E-04	.2614E-02	.7902E 02	.2565E 02
145	.9738E-03	-.6934E 01	-.1480E 00	-.5586E-04	.3211E-05	.7941E 02	.2576E 02
150	.9690E-03	-.6939E 01	-.1530E 00	-.5558E-04	.3204E-05	.7981E 02	.2588E 02
155	.9641E-03	-.6944E 01	-.1580E 00	-.5530E-04	.3195E-05	.8021E 02	.2602E 02
160	.9593E-03	-.6949E 01	-.1631E 00	-.5502E-04	.3184E-05	.8062E 02	.2615E 02
165	.9545E-03	-.6954E 01	-.1681E 00	-.5475E-04	.3162E-05	.8102E 02	.2628E 02
170	.9497E-03	-.6959E 01	-.1731E 00	-.5447E-04	.3134E-05	.8143E 02	.2641E 02
175	.9450E-03	-.6964E 01	-.1781E 00	-.5420E-04	.3124E-05	.8184E 02	.2654E 02
180	.9402E-03	-.6969E 01	.0000E 00	.0000E 00	.0000E 00	.8225E 02	.2668E 02

SCAT= .7734E-01 30/45= .2018E 01 45/135= .5981E 01 SCAT30-130= .2500E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.7356E 00	-.3070E 00	-.2287E 00	-.4983E 01	.0000E 00	.8348E-01	.1514E-01
5	.3008E 00	-.1201E 01	-.1193E 01	-.1939E 01	.3480E 02	.2042E 00	.3702E-01
10	.1315E 00	-.2028E 01	-.1873E 01	-.8021E 00	.1303E 02	.4669E 00	.8464E-01
15	.6155E-01	-.2788E 01	-.2406E 01	-.3523E 00	.5155E 01	.9978E 00	.1809E 00
20	.3081E-01	-.3480E 01	-.2799E 01	-.1640E 00	.2157E 01	.1999E 01	.3614E 00
25	.1650E-01	-.4105E 01	-.3116E 01	-.8193E-01	.9404E 00	.3723E 01	.6749E 00
30	.9348E-02	-.4673E 01	-.3174E 01	-.4145E-01	.4639E 00	.6570E 01	.1191E 01
35	.5731E-02	-.5162E 01	-.3431E 01	-.2414E-01	.1984E 00	.1072E 02	.1943E 01
40	.3624E-02	-.5620E 01	-.2515E 01	-.1065E-01	.1546E 00	.1695E 02	.3072E 01
45	.2695E-02	-.5916E 01	-.3182E 01	-.8796E-02	.2122E-01	.2279E 02	.4132E 01
50	.1927E-02	-.6252E 01	-.2917E 01	-.5361E-02	.3937E-01	.3186E 02	.5777E 01
55	.1460E-02	-.6530E 01	-.2376E 01	-.3124E-02	.2564E-01	.4208E 02	.7629E 01
60	.1187E-02	-.6736E 01	-.2404E 01	-.2300E-02	.8514E-02	.5174E 02	.9380E 01
65	.9792E-03	-.6929E 01	-.2133E 01	-.1641E-02	.8474E-02	.6272E 02	.1187E 02
70	.8361E-03	-.7087E 01	-.2685E 01	-.1620E-02	.2581E-03	.7346E 02	.1332E 02
75	.6947E-03	-.7272E 01	-.2970E 01	-.1392E-02	.2626E-02	.8841E 02	.1605E 02
80	.5732E-03	-.7464E 01	-.1298E 01	-.4970E-03	.1025E-01	.1071E 03	.1942E 02
85	.5298E-03	-.7543E 01	-.2896E 01	-.9261E-03	-.4918E-02	.1159E 03	.2101E 02
90	.4490E-03	-.7708E 01	-.1441E 01	-.3056E-03	.6194E-02	.1368E 03	.2480E 02
95	.4154E-03	-.7786E 01	.7406E 00	.1043E-03	.6590E-02	.1479E 03	.2681E 02
100	.4315E-03	-.7748E 01	-.1227E 00	-.2952E-04	-.2450E-02	.1428E 03	.2581E 02
105	.4289E-03	-.7754E 01	.3647E 00	.8410E-04	.1302E-02	.1432E 03	.2596E 02
110	.4362E-03	-.7737E 01	-.1565E 01	-.3359E-03	-.4812E-02	.1408E 03	.2552E 02
115	.4069E-03	-.7807E 01	.7535E 00	.1520E-03	.5590E-02	.1509E 03	.2736E 02
120	.4202E-03	-.7775E 01	.1515E 01	.3071E-03	.1770E-02	.1462E 03	.2650E 02
125	.4470E-03	-.7713E 01	.9753E 00	.1997E-03	-.1251E-02	.1374E 03	.2491E 02
130	.4644E-03	-.7675E 01	.1690E 01	.3419E-03	.1630E-02	.1322E 03	.2398E 02
135	.4942E-03	-.7613E 01	.1213E 01	.2555E-03	-.9906E-03	.1243E 03	.2253E 02
140	.5165E-03	-.7568E 01	.1393E 01	.2965E-03	.4709E-03	.1189E 03	.2156E 02
145	.5424E-03	-.7520E 01	.1442E 01	.3114E-03	.1702E-03	.1132E 03	.2055E 02
150	.5696E-03	-.7471E 01	.1491E 01	.3270E-03	.1700E-03	.1078E 03	.1955E 02
155	.5981E-03	-.7422E 01	.1540E 01	.3434E-03	.1877E-03	.1027E 03	.1862E 02
160	.6281E-03	-.7373E 01	.1589E 01	.3606E-03	.1971E-03	.9778E 02	.1773E 02
165	.6595E-03	-.7324E 01	.1637E 01	.3786E-03	.2070E-03	.9312E 02	.1688E 02
170	.6926E-03	-.7275E 01	.1686E 01	.3976E-03	.2174E-03	.8867E 02	.1608E 02
175	.7273E-03	-.7226E 01	.1735E 01	.4175E-03	.2281E-03	.8444E 02	.1532E 02
180	.7637E-03	-.7177E 01	.0000E 00	.0000E 00	.0000E 00	.8041E 02	.1460E 02

SCAT= .6141E-01 30/45= .3469E 01 45/135= .5453E 01 SCAT30-130= .1113E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1900E 01	.6416E 00	-.3175E 00	-.1548E 02	.0000E 00	.3890E-01	.3728E-02
5	.5487E 00	-.6003E 00	-.1628E 01	-.4254E 01	.1206E 03	.1347E 00	.1291E-01
10	.1775E 00	-.1729E 01	-.2505E 01	-.1297E 01	.9380E 02	.4164E 00	.3991E-01
15	.6427E-01	-.2745E 01	-.3137E 01	-.4378E 00	.9846E 01	.1150E 01	.1102E 00
20	.2606E-01	-.3647E 01	-.3538E 01	-.1630E 00	.8148E 01	.2835E 01	.2718E 00
25	.1183E-01	-.4437E 01	-.3716E 01	-.6674E-01	.1109E 01	.6243E 01	.5985E 00
30	.6010E-02	-.5114E 01	-.4146E 01	-.3252E-01	.3921E 00	.1229E 02	.1178E 01
35	.3172E-02	-.5753E 01	-.2991E 01	-.1197E-01	.2985E 00	.2329E 02	.2233E 01
40	.2127E-02	-.6153E 01	-.2591E 01	-.6412E-02	.6360E-01	.3473E 02	.3329E 01
45	.1568E-02	-.6458E 01	-.2764E 01	-.4540E-02	.2145E-01	.4712E 02	.4517E 01
50	.1172E-02	-.6749E 01	-.2632E 01	-.2979E-02	.1789E-01	.6305E 02	.6044E 01
55	.9118E-03	-.7000E 01	-.2721E 01	-.1836E-02	.1309E-01	.8103E 02	.7767E 01
60	.7516E-03	-.7193E 01	-.2144E 01	-.1358E-02	.5476E-02	.9830E 02	.9423E 01
65	.6331E-03	-.7365E 01	-.2488E 01	-.1218E-02	.1609E-02	.1167E 03	.1119E 02
70	.5268E-03	-.7549E 01	-.1494E 01	-.5911E-03	.7101E-02	.1403E 03	.1344E 02
75	.4752E-03	-.7652E 01	-.2335E 01	-.7619E-03	-.1967E-02	.1556E 03	.1490E 02
80	.4087E-03	-.7802E 01	-.1519E 01	-.4122E-03	.4008E-02	.1808E 03	.1725E 02
85	.3728E-03	-.7895E 01	-.1318E 01	-.3100E-03	.1172E-02	.1982E 03	.1900E 02
90	.3457E-03	-.7970E 01	-.6142E 00	-.1294E-03	.3069E-02	.2137E 03	.2049E 02
95	.3344E-03	-.8003E 01	.1101E 01	.2227E-03	.4055E-02	.2209E 03	.2118E 02
100	.3539E-03	-.7947E 01	-.1980E 00	-.3914E-04	-.3001E-02	.2088E 03	.2001E 02
105	.3504E-03	-.7956E 01	-.8641E 00	-.1582E-03	-.1864E-02	.2108E 03	.2022E 02
110	.3366E-03	-.7997E 01	-.1446E 01	-.2402E-03	-.9595E-03	.2195E 03	.2104E 02
115	.3157E-03	-.8061E 01	.4149E 00	.6446E-04	.5491E-02	.2341E 03	.2244E 02
120	.3213E-03	-.8043E 01	.8157E 00	.1247E-03	.6901E-03	.2300E 03	.2204E 02
125	.3322E-03	-.8010E 01	.1245E 00	.1864E-04	-.1215E-02	.2224E 03	.2132E 02
130	.3338E-03	-.8005E 01	.2343E 01	.3537E-03	.3039E-02	.2213E 03	.2122E 02
135	.3647E-03	-.7917E 01	.2446E 00	.3733E-04	-.3636E-02	.2026E 03	.1940E 02
140	.3679E-03	-.7908E 01	.9309E 00	.1400E-03	.1177E-02	.2008E 03	.1925E 02
145	.3801E-03	-.7875E 01	.9636E 00	.1447E-03	.5320E-04	.1944E 03	.1865E 02
150	.3928E-03	-.7842E 01	.9963E 00	.1495E-03	.6604E-04	.1881E 03	.1803E 02
155	.4058E-03	-.7810E 01	.1029E 01	.1544E-03	.8607E-04	.1821E 03	.1749E 02
160	.4193E-03	-.7777E 01	.1062E 01	.1595E-03	.5877E-04	.1762E 03	.1689E 02
165	.4332E-03	-.7744E 01	.1094E 01	.1648E-03	.6070E-04	.1706E 03	.1635E 02
170	.4476E-03	-.7712E 01	.1127E 01	.1703E-03	.6273E-04	.1651E 03	.1582E 02
175	.4624E-03	-.7679E 01	.1160E 01	.1760E-03	.6401E-04	.1598E 03	.1531E 02
180	.4778E-03	-.7646E 01	.0000E 00	.0000E 00	.0000E 00	.1546E 03	.1482E 02

SCAT= .7388E-01 30/45= .3833E 01 45/135= .4300E 01 SCAT30-130= .7082E-02

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-150/SIGMA
00	.7472E-01	-.2594E 01	-.1126E 00	-.3049E 00	.0000E 00	.5322E 00	.1274E 00
5	.4811E-01	-.3034E 01	-.6148E 00	-.1913E 00	.1302E 01	.5160E 00	.1979E 00
10	.3141E-01	-.3461E 01	-.1016E 01	-.1216E 00	.7989E 00	.7901E 00	.3030E 00
15	.2081E-01	-.3873E 01	-.1383E 01	-.7826E-01	.4961E 00	.1193E 01	.4578E 00
20	.1398E-01	-.4270E 01	-.1720E 01	-.5104E-01	.3119E 00	.1776E 01	.6810E 00
25	.9523E-02	-.4654E 01	-.2064E 01	-.3423E-01	.1926E 00	.2606E 01	.9995E 00
30	.6536E-02	-.5030E 01	-.2621E 01	-.2489E-01	.1070E 00	.3798E 01	.1456E 01
35	.4364E-02	-.5434E 01	-.2420E 01	-.1381E-01	.1270E 00	.5688E 01	.2181E 01
40	.3159E-02	-.5758E 01	-.2345E 01	-.8736E-02	.5013E-01	.7858E 01	.3013E 01
45	.2397E-02	-.6034E 01	-.3597E 01	-.8663E-02	.8349E-03	.1036E 02	.3971E 01
50	.1541E-02	-.6413E 01	-.2772E 01	-.4364E-02	.4926E-01	.1513E 02	.5802E 01
55	.1260E-02	-.6677E 01	-.2386E 01	-.2706E-02	.1900E-01	.1970E 02	.7556E 01
60	.1024E-02	-.6884E 01	-.2636E 01	-.2231E-02	.5464E-02	.2425E 02	.9299E 01
65	.8288E-03	-.7095E 01	-.2119E 01	-.1380E-02	.9750E-02	.2995E 02	.1148E 02
70	.7084E-03	-.7252E 01	-.2253E 01	-.1169E-02	.2425E-02	.3504E 02	.1344E 02
75	.6064E-03	-.7408E 01	-.1596E 01	-.8801E-03	.5699E-02	.4093E 02	.1570E 02
80	.5471E-03	-.7511E 01	-.1731E 01	-.6244E-03	.6380E-03	.4537E 02	.1740E 02
85	.4926E-03	-.7616E 01	-.1927E 01	-.5887E-03	.4092E-03	.5039E 02	.1932E 02
90	.4412E-03	-.7726E 01	-.7536E 00	-.2019E-03	.4433E-02	.5626E 02	.2157E 02
95	.4236E-03	-.7767E 01	-.3424E-01	-.8517E-05	.2216E-02	.5860E 02	.2247E 02
100	.4229E-03	-.7768E 01	.9673E 00	.2342E-03	.2781E-02	.5870E 02	.2251E 02
105	.4433E-03	-.7721E 01	-.1047E 01	-.2415E-03	-.5450E-02	.5599E 02	.2147E 02
110	.4222E-03	-.7770E 01	-.5540E 00	-.1177E-03	.1418E-02	.5879E 02	.2254E 02
115	.4119E-03	-.7795E 01	-.3315E 00	-.6613E-04	.5909E-03	.6025E 02	.2310E 02
120	.4062E-03	-.7809E 01	-.8304E-01	-.1575E-04	.5773E-03	.6111E 02	.2345E 02
125	.4048E-03	-.7812E 01	.1147E 01	.2134E-03	.2626E-02	.6132E 02	.2352E 02
130	.4234E-03	-.7767E 01	.6646E 00	.1236E-03	-.1029E-02	.5862E 02	.2248E 02
135	.4342E-03	-.7742E 01	.6989E-01	.1266E-04	-.1271E-02	.5716E 02	.2192E 02
140	.4353E-03	-.7739E 01	.4185E 00	.7379E-04	.7005E-03	.5702E 02	.2186E 02
145	.4418E-03	-.7725E 01	.4332E 00	.7488E-04	.1251E-04	.5619E 02	.2156E 02
150	.4483E-03	-.7710E 01	.4478E 00	.7599E-04	.1270E-04	.5537E 02	.2123E 02
155	.4549E-03	-.7695E 01	.4625E 00	.7712E-04	.1287E-04	.5456E 02	.2092E 02
160	.4617E-03	-.7681E 01	.4772E 00	.7826E-04	.1307E-04	.5377E 02	.2062E 02
165	.4685E-03	-.7666E 01	.4919E 00	.7941E-04	.1327E-04	.5298E 02	.2032E 02
170	.4754E-03	-.7651E 01	.5066E 00	.8059E-04	.1344E-04	.5221E 02	.2002E 02
175	.4824E-03	-.7637E 01	.5213E 00	.8178E-04	.1366E-04	.5145E 02	.1973E 02
180	.4896E-03	-.7622E 01	.0000E 00	.0000E 00	.0000E 00	.5070E 02	.1944E 02

SCAT= .2482E-01 30/45= .2727E 01 45/135= .5519E 01 SCAT30-130= .9518E-02

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
165	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
170	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
175	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
180	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SCAT= .2442E-01 30/45= .3330E 01 45/135= .3061E 01 SCAT30-130= .5389E-02

CH42/91 2325H 20164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	.3840E-03	-.7865E 01	.1389E 01	.1903E-03	.9802E-04	.9711E 02	.1117E 02
160	.4013E-03	-.7821E 01	.1433E 01	.2073E-03	.1024E-03	.3551E 02	.1068E 02
165	.4194E-03	-.7777E 01	.1477E 01	.2166E-03	.1071E-03	.3398E 02	.1022E 02
170	.4383E-03	-.7733E 01	.1521E 01	.2264E-03	.1119E-03	.3251E 02	.9703E 01
175	.4581E-03	-.7689E 01	.1565E 01	.2366E-03	.1169E-03	.3111E 02	.9361E 01
180	.4787E-03	-.7644E 01	.0000E 00	.0000E 00	.0000E 00	.2977E 02	.8957E 01

SCAT= .1425E-01 30/45= .2903E 01 45/135= .2562E 01 SCAT30-130= .4288E-02

CH42/92 2340H 20164 St 606 - 500m

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2696E 00	-.1311E 01	-.2024E 00	-.1689E 01	.0000E 00	.1203E 00	.3170E-01
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	.5182E-03	-.7565E 01	.9879E 00	.1833E-03	.6280E-04	.6261E 02	.1680E 02
165	.5342E-03	-.7535E 01	.1018E 01	.1889E-03	.6481E-04	.6074E 02	.1600E 02
170	.5504E-03	-.7504E 01	.1049E 01	.1948E-03	.6689E-04	.5892E 02	.1552E 02
175	.5676E-03	-.7474E 01	.1079E 01	.2008E-03	.6888E-04	.5716E 02	.1506E 02
180	.5852E-03	-.7444E 01	.0000E 00	.0000E 00	.0000E 00	.5544E 02	.1461E 02

SCAT= .3244E-01 30/45= .2884F 01 45/135= .4446E 01 SCAT30-130= .8547E-02

CH42/93 0005H 21164 St 606 - 400m

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	.4180E-03	-.7780E 01	.1276E 01	.1910E-03	.8462E-04	.5035E 02	.1218E 02
165	.4347E-03	-.7741E 01	.1315E 01	.1995E-03	.8800E-04	.4842E 02	.1172E 02
170	.4521E-03	-.7702E 01	.1354E 01	.2075E-03	.9152E-04	.4655E 02	.1126E 02
175	.4702E-03	-.7662E 01	.1394E 01	.2158E-03	.9520E-04	.4476E 02	.1082E 02
180	.4890E-03	-.7623E 01	.0000E 00	.0000E 00	.0000E 00	.4304E 02	.1041E 02

SCAT= .2105E-01 30/45= .3010E 01 45/135= .3005E 01 SCAT30-130= .5089E-02

CH42/94 0035H 21164 St 606 - 310

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1794E 00	-.1718E 01	-.1806E 00	-.1042E 01	.0000E 00	.1530E 00	.4523E-01
5	.8854E-01	-.2424E 01	-.9484E 00	-.4888E 00	.6335E 01	.3100E 00	.9148E-01
10	.4589E-01	-.3082E 01	-.1500E 01	-.2396E 00	.2856E 01	.5982E 00	.1785E 00
15	.2497E-01	-.3690E 01	-.1944E 01	-.1226E 00	.1341E 01	.1099E 01	.3249E 00
20	.1427E-01	-.4249E 01	-.2287E 01	-.6538E-01	.6567E 00	.1923E 01	.5673E 00
25	.8569E-02	-.4760E 01	-.2605E 01	-.3712E-01	.3238E 00	.3203E 01	.9480E 00
30	.5330E-02	-.5234E 01	-.2841E 01	-.2166E-01	.1772E 00	.5150E 01	.1519E 01
35	.3439E-02	-.5672E 01	-.2619E 01	-.1163E-01	.1149E 00	.7981E 01	.2354E 01
40	.2424E-02	-.6022E 01	-.2598E 01	-.7323E-02	.4987E-01	.1132E 02	.3340E 01
45	.1785E-02	-.6328E 01	-.2748E 01	-.5143E-02	.2499E-01	.1538E 02	.4536E 01
50	.1337E-02	-.6618E 01	-.2030E 01	-.2694E-02	.2806E-01	.2054E 02	.6059E 01
55	.1101E-02	-.6811E 01	-.2387E 01	-.2367E-02	.3754E-02	.2492E 02	.7383E 01
60	.8949E-03	-.7019E 01	-.2243E 01	-.1685E-02	.7810E-02	.3067E 02	.9080E 01
65	.7478E-03	-.7198E 01	-.2042E 01	-.1203E-02	.5521E-02	.3671E 02	.1083E 02
70	.6428E-03	-.7350E 01	-.2207E 01	-.1040E-02	.1868E-02	.4270E 02	.1260E 02
75	.5520E-03	-.7502E 01	-.1995E 01	-.7641E-03	.3165E-02	.4973E 02	.1468E 02
80	.4853E-03	-.7631E 01	-.1331E 01	-.4311E-03	.3816E-02	.5656E 02	.1669E 02
85	.4477E-03	-.7711E 01	-.7764E 00	-.2227E-03	.2389E-02	.6132E 02	.1809E 02
90	.4282E-03	-.7756E 01	-.5133E 00	-.1343E-03	.1013E-02	.6410E 02	.1891E 02
95	.4165E-03	-.7784E 01	.2355E-01	.5769E-05	.1605E-02	.6590E 02	.1944E 02
100	.4170E-03	-.7782E 01	-.2708E 00	-.6272E-04	-.7848E-03	.6582E 02	.1942E 02
105	.4116E-03	-.7796E 01	.2687E 00	.5933E-04	.1399E-02	.6670E 02	.1968E 02
110	.4167E-03	-.7783E 01	-.1376E 01	-.2832E-03	-.3926E-02	.6587E 02	.1943E 02
115	.3920E-03	-.7844E 01	.3756E 00	.7238E-04	.4078E-02	.7002E 02	.2066E 02
120	.3983E-03	-.7828E 01	.1369E 01	.2623E-03	.2176E-02	.6891E 02	.2033E 02
125	.4212E-03	-.7772E 01	.5379E 00	.1029E-03	-.1827E-02	.6517E 02	.1923E 02
130	.4302E-03	-.7751E 01	.1720E 01	.3305E-03	.2608E-02	.6381E 02	.1882E 02
135	.4590E-03	-.7686E 01	.7990E 00	.1551E-03	-.2010E-02	.5980E 02	.1764E 02
140	.4726E-03	-.7657E 01	.1119E 01	.2168E-03	.7076E-03	.5808E 02	.1714E 02
145	.4915E-03	-.7618E 01	.1158E 01	.2255E-03	.9950E-04	.5585E 02	.1648E 02
150	.5112E-03	-.7579E 01	.1197E 01	.2346E-03	.1095E-03	.5370E 02	.1584E 02
155	.5316E-03	-.7540E 01	.1237E 01	.2439E-03	.1076E-03	.5163E 02	.1523E 02
160	.5529E-03	-.7500E 01	.1276E 01	.2537E-03	.1119E-03	.4964E 02	.1465E 02
165	.5751E-03	-.7461E 01	.1315E 01	.2639E-03	.1164E-03	.4773E 02	.1408E 02
170	.5981E-03	-.7422E 01	.1354E 01	.2744E-03	.1211E-03	.4589E 02	.1354E 02
175	.6221E-03	-.7382E 01	.1394E 01	.2854E-03	.1269E-03	.4413E 02	.1302E 02
180	.6470E-03	-.7343E 01	.0000E 00	.0000E 00	.0000E 00	.4243E 02	.1252E 02

SCAT= .2745E-01 30/45= .2985E 01 45/135= .3809E 01 SCAT30-130= .8096E-02

CH42/95 0100H 21164 St 606 - 200m

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2245E 00	-.1494E 01	-.1995E 00	-.1394E 01	.0000E 00	.1245E 00	.3308E-01
5	.1029E 00	-.2274E 01	-.1042E 01	-.6064E 00	.9027E 01	.2718E 00	.7223E-01
10	.4997E-01	-.2996E 01	-.1638E 01	-.2778E 00	.3786E 01	.5596E 00	.1488E 00
15	.2572E-01	-.3660E 01	-.2106E 01	-.1339E 00	.1649E 01	.1087E 01	.2885E 00
20	.1403E-01	-.4266E 01	-.2454E 01	-.6781E-01	.7676E 00	.1995E 01	.5269E 00
25	.8115E-02	-.4814E 01	-.2781E 01	-.3698E-01	.3553E 00	.3446E 01	.9148E 00
30	.4888E-02	-.5321E 01	-.2694E 01	-.1904E-01	.2066E 00	.5721E 01	.1520E 01
35	.3227E-02	-.5736E 01	-.2920E 01	-.1194E-01	.8155E-01	.8664E 01	.2300E 01
40	.2185E-02	-.6126E 01	-.2755E 01	-.6937E-02	.5729E-01	.1280E 02	.3397E 01
45	.1579E-02	-.6451E 01	-.2324E 01	-.3931E-02	.3444E-01	.1770E 02	.4699E 01
50	.1236E-02	-.6696E 01	-.2127E 01	-.2600E-02	.1526E-01	.2262E 02	.6003E 01
55	.1009E-02	-.6898E 01	-.2521E 01	-.2279E-02	.3670E-02	.2770E 02	.7352E 01
60	.8106E-03	-.7118E 01	-.2297E 01	-.1560E-02	.8251E-02	.3449E 02	.9155E 01
65	.6745E-03	-.7302E 01	-.2172E 01	-.1149E-02	.4713E-02	.4144E 02	.1100E 02
70	.5742E-03	-.7463E 01	-.1830E 01	-.7836E-03	.4188E-02	.4870E 02	.1292E 02
75	.5058E-03	-.7589E 01	-.1911E 01	-.6725E-03	.1279E-02	.5520E 02	.1467E 02
80	.4471E-03	-.7713E 01	-.1425E 01	-.4240E-03	.2848E-02	.6254E 02	.1660E 02
85	.4101E-03	-.7799E 01	-.1627E 01	-.4173E-03	.7674E-04	.6810E 02	.1810E 02
90	.3737E-03	-.7892E 01	-.2098E 00	-.4851E-04	.4229E-02	.7482E 02	.1986E 02
95	.3695E-03	-.7903E 01	.9456E 00	.2104E-03	.2985E-02	.7568E 02	.2009E 02
100	.3878E-03	-.7855E 01	.2212E 00	.4823E-04	-.1860E-02	.7210E 02	.1918E 02
105	.3921E-03	-.7844E 01	-.3383E-01	-.7064E-05	-.5598E-03	.7132E 02	.1893E 02
110	.3914E-03	-.7846E 01	-.1382E 01	-.2672E-03	-.2981E-02	.7145E 02	.1896E 02
115	.3601E-03	-.7907E 01	.5427E 00	.9856E-04	.4191E-02	.7596E 02	.2016E 02
120	.3767E-03	-.7884E 01	.1148E 01	.2072E-03	.1245E-02	.7422E 02	.1970E 02
125	.3948E-03	-.7837E 01	.1180E 01	.2144E-03	.8223E-04	.7083E 02	.1880E 02
130	.4135E-03	-.7791E 01	.3816E 01	.7340E-03	.5964E-02	.6762E 02	.1795E 02
135	.4776E-03	-.7647E 01	.5266E 00	.1058E-03	-.7190E-02	.5855E 02	.1554E 02
140	.4860E-03	-.7628E 01	.1749E 01	.3530E-03	.2839E-02	.5744E 02	.1525E 02
145	.5176E-03	-.7566E 01	.1810E 01	.3754E-03	.2560E-03	.5402E 02	.1434E 02
150	.5504E-03	-.7505E 01	.1871E 01	.3991E-03	.2722E-03	.5081E 02	.1348E 02
155	.5852E-03	-.7444E 01	.1933E 01	.4244E-03	.2896E-03	.4778E 02	.1268E 02
160	.6222E-03	-.7382E 01	.1994E 01	.4512E-03	.3078E-03	.4494E 02	.1193E 02
165	.6616E-03	-.7321E 01	.2056E 01	.4798E-03	.3272E-03	.4226E 02	.1122E 02
170	.7035E-03	-.7259E 01	.2117E 01	.5102E-03	.3479E-03	.3975E 02	.1055E 02
175	.7480E-03	-.7198E 01	.2178E 01	.5424E-03	.3700E-03	.3738E 02	.9922E 01
180	.7953E-03	-.7137E 01	.0000E 00	.0000E 00	.0000E 00	.3516E 02	.9332E 01

SCAT= .2796E-01 30/45= .3095E 01 45/135= .3307E 01 SCAT30-130= .7421E-02

CH42/96 0130H 21164 St 606 - 100m

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.4863E 00	-.7210E 00	-.2226E 00	-.3239E 01	.0000E 00	.9054E-01	.1818E-01
5	.2036E 00	-.1592E 01	-.1161E 01	-.1290E 01	.2233E 02	.2162E 00	.4342E-01
10	.9104E-01	-.2396E 01	-.1823E 01	-.5452E 00	.8596E 01	.4836E 00	.9721E-01
15	.4347E-01	-.3136E 01	-.2342E 01	-.2442E 00	.3449E 01	.1013E 01	.2034E 00
20	.2216E-01	-.3810E 01	-.2725E 01	-.1157E 00	.1472E 01	.1987E 01	.3990E 00
25	.1206E-01	-.4418E 01	-.3112E 01	-.6986E-01	.6398E 00	.3650E 01	.7329E 00
30	.6839E-02	-.4985E 01	-.3108E 01	-.3043E-01	.3972E 00	.6438E 01	.1293E 01
35	.4183E-02	-.5477E 01	-.2904E 01	-.1541E-01	.1721E 00	.1052E 02	.2113E 01
40	.2839E-02	-.5864E 01	-.3224E 01	-.1028E-01	.5881E-01	.1551E 02	.3114E 01
45	.1942E-02	-.6244E 01	-.2530E 01	-.5206E-02	.5817E-01	.2267E 02	.4583E 01
50	.1487E-02	-.6511E 01	-.2442E 01	-.3539E-02	.1910E-01	.2960E 02	.5944E 01
55	.1178E-02	-.6744E 01	-.2664E 01	-.2794E-02	.8547E-02	.3736E 02	.7502E 01
60	.9346E-03	-.6975E 01	-.2141E 01	-.1687E-02	.1268E-01	.4711E 02	.9459E 01
65	.7874E-03	-.7147E 01	-.2049E 01	-.1271E-02	.4769E-02	.5591E 02	.1128E 02
70	.6765E-03	-.7299E 01	-.1924E 01	-.9634E-03	.3529E-02	.6508E 02	.1307E 02
75	.5924E-03	-.7431E 01	-.2618E 01	-.1055E-02	-.1059E-02	.7432E 02	.1492E 02
80	.5003E-03	-.7600E 01	-.1508E 01	-.5261E-03	.6065E-02	.8800E 02	.1767E 02
85	.4544E-03	-.7697E 01	-.1183E 01	-.3404E-03	.3127E-02	.9689E 02	.1946E 02
90	.4247E-03	-.7764E 01	-.1355E 01	-.3438E-03	-.3882E-04	.1037E 03	.2082E 02
95	.3947E-03	-.7837E 01	.4402E 00	.1033E-03	.5124E-02	.1116E 03	.2240E 02
100	.4037E-03	-.7815E 01	.7797E-01	.1763E-04	-.9816E-03	.1091E 03	.2190E 02
105	.4052E-03	-.7811E 01	-.1012E 01	-.2135E-03	-.2649E-02	.1086E 03	.2182E 02
110	.3866E-03	-.7858E 01	-.5109E-02	-.1022E-05	.2436E-02	.1139E 03	.2287E 02
115	.3865E-03	-.7858E 01	-.3733E-01	-.7031E-05	-.6806E-04	.1139E 03	.2287E 02
120	.3859E-03	-.7860E 01	.4420E 00	.8051E-04	.1009E-02	.1141E 03	.2291E 02
125	.3929E-03	-.7842E 01	.1215E 01	.2198E-03	.1596E-02	.1120E 03	.2250E 02
130	.4121E-03	-.7794E 01	.1515E 01	.2778E-03	.6658E-03	.1068E 03	.2145E 02
135	.4344E-03	-.7737E 01	.3473E 00	.6355E-04	-.2456E-02	.1009E 03	.2026E 02
140	.4419E-03	-.7724E 01	.8782E 00	.1585E-03	.1088E-02	.9963E 02	.2001E 02
145	.4557E-03	-.7694E 01	.9091E 00	.1634E-03	.5684E-04	.9661E 02	.1940E 02
150	.4700E-03	-.7663E 01	.9399E 00	.1686E-03	.5862E-04	.9368E 02	.1881E 02
155	.4847E-03	-.7632E 01	.9707E 00	.1738E-03	.6046E-04	.9083E 02	.1824E 02
160	.4999E-03	-.7601E 01	.1002E 01	.1793E-03	.6235E-04	.8808E 02	.1769E 02
165	.5155E-03	-.7570E 01	.1032E 01	.1849E-03	.6430E-04	.8540E 02	.1715E 02
170	.5317E-03	-.7540E 01	.1063E 01	.1907E-03	.6631E-04	.8281E 02	.1663E 02
175	.5483E-03	-.7509E 01	.1094E 01	.1966E-03	.6838E-04	.8030E 02	.1612E 02
180	.5655E-03	-.7478E 01	.0000E 00	.0000E 00	.0000E 00	.7786E 02	.1564E 02

SCAT= .4403E-01 30/45= .3522E 01 45/135= .4450E 01 SCAT30-130= .8841E-02

CH42/97 0150H 21164 St 606 - Surf

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3913E 00	-.9383E 00	-.2036E 00	-.2462E 01	.0000E 00	.1120E 00	.2619E-01
5	.1765E 00	-.1735E 01	-.1065E 01	-.1056E 01	.1611E 02	.2484E 00	.5806E-01
10	.8432E-01	-.2473E 01	-.1679E 01	-.4771E 00	.6633E 01	.5199E 00	.1215E 00
15	.4269E-01	-.3154E 01	-.2166E 01	-.2268E 00	.2868E 01	.1027E 01	.2400E 00
20	.2289E-01	-.3777E 01	-.2533E 01	-.1133E 00	.1301E 01	.1915E 01	.4476E 00
25	.1301E-01	-.4342E 01	-.2861E 01	-.6059E-01	.6037E 00	.3370E 01	.7876E 00
30	.7721E-02	-.4864E 01	-.3059E 01	-.3326E-01	.3151E 00	.5678E 01	.1327E 01
35	.4819E-02	-.5335E 01	-.2769E 01	-.1707E-01	.1856E 00	.9098E 01	.2126E 01
40	.3329E-02	-.5705E 01	-.2947E 01	-.1119E-01	.6739E-01	.1317E 02	.3078E 01
45	.2353E-02	-.6052E 01	-.2673E 01	-.6618E-02	.5235E-01	.1863E 02	.4366E 01
50	.1775E-02	-.6334E 01	-.2529E 01	-.4358E-02	.2590E-01	.2469E 02	.5771E 01
55	.1395E-02	-.6575E 01	-.2563E 01	-.3195E-02	.1332E-01	.3142E 02	.7344E 01
60	.1116E-02	-.6798E 01	-.2208E 01	-.2072E-02	.1287E-01	.3927E 02	.9179E 01
65	.9355E-03	-.6974E 01	-.2068E 01	-.1523E-02	.6292E-02	.4686E 02	.1095E 02
70	.8026E-03	-.7128E 01	-.3379E 01	-.1912E-02	-.4461E-02	.5462E 02	.1277E 02
75	.6357E-03	-.7361E 01	-.1972E 01	-.8704E-03	.1194E-01	.6896E 02	.1612E 02
80	.5597E-03	-.7488E 01	-.1675E 01	-.6194E-03	.2877E-02	.7832E 02	.1831E 02
85	.5057E-03	-.7590E 01	-.1359E 01	-.4331E-03	.2135E-02	.8619E 02	.2026E 02
90	.4679E-03	-.7667E 01	-.5423E 00	-.1549E-03	.3187E-02	.9370E 02	.2190E 02
95	.4544E-03	-.7697E 01	.6834E 00	.1857E-03	.3904E-02	.9648E 02	.2255E 02
100	.4706E-03	-.7662E 01	-.7018E 00	-.1815E-03	-.4208E-02	.9316E 02	.2177E 02
105	.4547E-03	-.7696E 01	-.4829E 00	-.1158E-03	.7598E-03	.9641E 02	.2253E 02
110	.4446E-03	-.7718E 01	-.6353E 00	-.1419E-03	-.2991E-03	.9860E 02	.2304E 02
115	.4323E-03	-.7746E 01	.9371E-01	.1979E-04	.1855E-02	.1014E 03	.2370E 02
120	.4340E-03	-.7742E 01	.1239E 01	.2579E-03	.2729E-02	.1010E 03	.2361E 02
125	.4565E-03	-.7692E 01	.8260E 00	.1722E-03	-.9817E-03	.9604E 02	.2246E 02
130	.4715E-03	-.7660E 01	.2768E 01	.5949E-03	.4844E-02	.9297E 02	.2179E 02
135	.5234E-03	-.7555E 01	.4696E 00	.1033E-03	-.5654E-02	.8375E 02	.1958E 02
140	.5325E-03	-.7538E 01	.1327E 01	.2909E-03	.2149E-02	.8233E 02	.1924E 02
145	.5578E-03	-.7491E 01	.1374E 01	.3047E-03	.1589E-03	.7859E 02	.1837E 02
150	.5844E-03	-.7445E 01	.1420E 01	.3193E-03	.1665E-03	.7501E 02	.1753E 02
155	.6123E-03	-.7398E 01	.1467E 01	.3345E-03	.1744E-03	.7160E 02	.1673E 02
160	.6415E-03	-.7352E 01	.1513E 01	.3504E-03	.1827E-03	.6834E 02	.1597E 02
165	.6721E-03	-.7305E 01	.1560E 01	.3671E-03	.1914E-03	.6523E 02	.1526E 02
170	.7041E-03	-.7259E 01	.1607E 01	.3846E-03	.2005E-03	.6226E 02	.1458E 02
175	.7377E-03	-.7212E 01	.1653E 01	.4030E-03	.2101E-03	.5943E 02	.1389E 02
180	.7728E-03	-.7165E 01	.0000E 00	.0000E 00	.0000E 00	.5673E 02	.1326E 02

SCAT= .4384E-01 30/45= .3282E 01 45/135= .4495E 01 SCAT30-130= .1025E-01

CH42/98 1140H 22164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2222E 00	-.1504E 01	-.2056E 00	-.1407E 01	.0000E 00	.1121E 00	.2671E-01
5	.9946E-01	-.2308E 01	-.1075E 01	-.5989E 00	.9259E 01	.2506E 00	.5969E-01
10	.4720E-01	-.3053E 01	-.1694E 01	-.2687E 00	.3789E 01	.5280E 00	.1258E 00
15	.2375E-01	-.3740E 01	-.2183E 01	-.1269E 00	.1624E 01	.1049E 01	.2500E 00
20	.1267E-01	-.4368E 01	-.2552E 01	-.6306E-01	.7321E 00	.1967E 01	.4684E 00
25	.7171E-02	-.4938E 01	-.2856E 01	-.3336E-01	.3403E 00	.3476E 01	.8279E 00
30	.4260E-02	-.5459E 01	-.3137E 01	-.1872E-01	.1678E 00	.5851E 01	.1394E 01
35	.2626E-02	-.5942E 01	-.2634E 01	-.8923E-02	.1122E 00	.9490E 01	.2260E 01
40	.1858E-02	-.6294E 01	-.3117E 01	-.6507E-02	.2769E-01	.1349E 02	.3213E 01
45	.1280E-02	-.6661E 01	-.2576E 01	-.3486E-02	.3462E-01	.1947E 02	.4639E 01
50	.9757E-03	-.6932E 01	-.2612E 01	-.2464E-02	.1171E-01	.2554E 02	.6085E 01
55	.7607E-03	-.7181E 01	-.2680E 01	-.1813E-02	.7459E-02	.3277E 02	.7805E 01
60	.6024E-03	-.7415E 01	-.2189E 01	-.1109E-02	.8062E-02	.4137E 02	.9855E 01
65	.5056E-03	-.7590E 01	-.1313E 01	-.5372E-03	.6557E-02	.4929E 02	.1174E 02
70	.4587E-03	-.7687E 01	-.2740E 01	-.9053E-03	-.4219E-02	.5433E 02	.1294E 02
75	.3797E-03	-.7876E 01	-.1080E 01	-.2930E-03	.7017E-02	.6563E 02	.1563E 02
80	.3542E-03	-.7946E 01	-.1901E 01	-.4417E-03	-.1704E-02	.7037E 02	.1676E 02
85	.3156E-03	-.8061E 01	-.1047E 01	-.2101E-03	.2654E-02	.7897E 02	.1881E 02
90	.2973E-03	-.8121E 01	-.1580E 00	-.2898E-04	.2076E-02	.8384E 02	.1997E 02
95	.2948E-03	-.8129E 01	.4555E 00	.7985E-04	.1247E-02	.8456E 02	.2014E 02
100	.3017E-03	-.8106E 01	.7822E 00	.1345E-03	.6264E-03	.8260E 02	.1968E 02
105	.3135E-03	-.8068E 01	.1652E 00	.2771E-04	-.1224E-02	.7951E 02	.1894E 02
110	.3159E-03	-.8060E 01	-.7154E 00	-.1133E-03	-.1614E-02	.7890E 02	.1879E 02
115	.3060E-03	-.8092E 01	.5384E 00	.8128E-04	.2230E-02	.8145E 02	.1940E 02
120	.3131E-03	-.8069E 01	.8272E 00	.1232E-03	.4806E-03	.7960E 02	.1896E 02
125	.3238E-03	-.8035E 01	.1388E 01	.2077E-03	.9681E-03	.7696E 02	.1833E 02
130	.3420E-03	-.7981E 01	.2653E 01	.4176E-03	.2348E-02	.7288E 02	.1736E 02
135	.3780E-03	-.7881E 01	.6532E 00	.1041E-03	-.3535E-02	.6594E 02	.1572E 02
140	.3871E-03	-.7857E 01	.1455E 01	.2324E-03	.1470E-02	.6439E 02	.1534E 02
145	.4073E-03	-.7806E 01	.1506E 01	.2445E-03	.1395E-03	.6119E 02	.1457E 02
150	.4287E-03	-.7755E 01	.1557E 01	.2574E-03	.1460E-03	.5814E 02	.1385E 02
155	.4511E-03	-.7704E 01	.1608E 01	.2708E-03	.1545E-03	.5525E 02	.1316E 02
160	.4748E-03	-.7653E 01	.1659E 01	.2850E-03	.1626E-03	.5250E 02	.1250E 02
165	.4996E-03	-.7602E 01	.1711E 01	.3000E-03	.1711E-03	.4988E 02	.1188E 02
170	.5258E-03	-.7551E 01	.1762E 01	.3157E-03	.1801E-03	.4740E 02	.1129E 02
175	.5534E-03	-.7499E 01	.1813E 01	.3322E-03	.1895E-03	.4504E 02	.1073E 02
180	.5824E-03	-.7448E 01	.0000E 00	.0000E 00	.0000E 00	.4280E 02	.1019E 02

SCAT= .2492E-01 30/45= .3328E 01 45/135= .3386E 01 SCAT30-130= .6937E-02

CH42/99 1245H 22164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	.4759E-03	-.7650E 01	.1286E 01	.2702E-03	.9791E-04	.8245E 02	.1491E 02
165	.4951E-03	-.7611E 01	.1326E 01	.2791E-03	.1019E-03	.7925E 02	.1409E 02
170	.5151E-03	-.7571E 01	.1365E 01	.2383E-03	.1060E-03	.7617E 02	.1377E 02
175	.5359E-03	-.7532E 01	.1405E 01	.2479E-03	.1103E-03	.7321E 02	.1324E 02
180	.5575E-03	-.7492E 01	.0000E 00	.0000E 00	.0000E 00	.7037E 02	.1272E 02

SCAT= .3923E-01 30/45= .3388E 01 45/135= .3883E 01 SCAT30-130= .7094E-02

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	.5608E-03	-.7486E 01	.4808E 00	[illegible]	[illegible]	[illegible]	[illegible]
160	.5694E-03	-.7471E 01	.4961E 00	.1004E-03	.1742E-04	.1086E 03	.2529E 02
165	.5782E-03	-.7456E 01	.5114E 00	.1019E-03	.1769E-04	.1070E 03	.2491E 02
170	.5871E-03	-.7440E 01	.5266E 00	.1035E-03	.1796E-04	.1053E 03	.2463E 02
175	.5961E-03	-.7425E 01	.5419E 00	.1051E-03	.1825E-04	.1037E 03	.2416E 02
180	.6053E-03	-.7410E 01	.0000E 00	.0000E 00	.0000E 00	.1022E 03	.2379E 02

SCAT= .6183E-01 30/45= .3251E 01 45/135= .6524E 01 SCAT30-130= .1440E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3170E 00	-.1149E 01	-.2130E 00	-.2054E 01	.0000E 00	.1017E 00	.2261E-01
5	.1378E 00	-.1982E 01	-.1112E 01	-.8449E 00	.1301E 02	.2339E 00	.5202E-01
10	.6375E-01	-.2753E 01	-.1749E 01	-.3710E 00	.5474E 01	.5056E 00	.1125E 00
15	.3137E-01	-.3462E 01	-.2249E 01	-.1713E 00	.2289E 01	.1027E 01	.2285E 00
20	.1643E-01	-.4109E 01	-.2622E 01	-.8338E-01	.1007E 01	.1962E 01	.4365E 00
25	.9151E-02	-.4694E 01	-.2982E 01	-.4397E-01	.4515E 00	.3523E 01	.7836E 00
30	.5313E-02	-.5238E 01	-.3102E 01	-.2314E-01	.2307E 00	.6067E 01	.1350E 01
35	.3294E-02	-.5716E 01	-.2825E 01	-.1186E-01	.1293E 00	.9787E 01	.2177E 01
40	.2259E-02	-.6093E 01	-.3064E 01	-.7841E-02	.4606E-01	.1427E 02	.3178E 01
45	.1574E-02	-.6454E 01	-.2564E 01	-.4271E-02	.4090E-01	.2048E 02	.4554E 01
50	.1202E-02	-.6724E 01	-.2743E 01	-.3168E-02	.1264E-01	.2683E 02	.5967E 01
55	.9252E-03	-.6986E 01	-.1838E 01	-.1567E-02	.1835E-01	.3484E 02	.7750E 01
60	.7884E-03	-.7145E 01	-.2309E 01	-.1524E-02	.4874E-03	.4088E 02	.9094E 01
65	.6554E-03	-.7330E 01	-.2762E 01	-.1330E-02	.1555E-02	.4918E 02	.1094E 02
70	.5341E-03	-.7535E 01	-.1920E 01	-.7541E-03	.7239E-02	.6036E 02	.1342E 02
75	.4678E-03	-.7667E 01	-.2703E 01	-.8581E-03	-.1155E-02	.6890E 02	.1533E 02
80	.3929E-03	-.7842E 01	-.1238E 01	-.3257E-03	.6101E-02	.8203E 02	.1825E 02
85	.3645E-03	-.7917E 01	-.8924E 00	-.2077E-03	.1352E-02	.8843E 02	.1967E 02
90	.3464E-03	-.7968E 01	-.1444E 01	-.3088E-04	.2026E-02	.9306E 02	.2070E 02
95	.3437E-03	-.7976E 01	.5708E 00	.1170E-03	.1695E-02	.9379E 02	.2086E 02
100	.3539E-03	-.7946E 01	-.2932E 00	-.5761E-04	-.2001E-02	.9108E 02	.2026E 02
105	.3489E-03	-.7961E 01	.5037E 00	.9479E-04	.1746E-02	.9239E 02	.2056E 02
110	.3572E-03	-.7937E 01	-.1539E 01	-.2706E-03	-.4187E-02	.9028E 02	.2007E 02
115	.3335E-03	-.8006E 01	-.3840E 00	-.6196E-04	.2393E-02	.9664E 02	.2150E 02
120	.3281E-03	-.8022E 01	.1231E 01	.1938E-03	.2930E-02	.9823E 02	.2186E 02
125	.3451E-03	-.7972E 01	.7251E 00	.1141E-03	-.9134E-03	.9342E 02	.2078E 02
130	.3550E-03	-.7943E 01	.1487E 01	.2349E-03	.1305E-02	.9080E 02	.2020E 02
135	.3755E-03	-.7887E 01	.4751E 00	.7500E-04	-.1032E-02	.8584E 02	.1909E 02
140	.3820E-03	-.7870E 01	.8993E 00	.1404E-03	.7490E-03	.8437E 02	.1877E 02
145	.3943E-03	-.7838E 01	.9309E 00	.1449E-03	.5157E-04	.8175E 02	.1818E 02
150	.4069E-03	-.7807E 01	.9624E 00	.1495E-03	.5527E-04	.7921E 02	.1762E 02
155	.4200E-03	-.7775E 01	.9940E 00	.1543E-03	.5493E-04	.7675E 02	.1707E 02
160	.4335E-03	-.7744E 01	.1026E 01	.1592E-03	.5669E-04	.7437E 02	.1654E 02
165	.4473E-03	-.7712E 01	.1057E 01	.1644E-03	.5850E-04	.7206E 02	.1603E 02
170	.4617E-03	-.7681E 01	.1089E 01	.1696E-03	.6039E-04	.6982E 02	.1553E 02
175	.4765E-03	-.7649E 01	.1120E 01	.1751E-03	.6231E-04	.6765E 02	.1505E 02
180	.4918E-03	-.7617E 01	.0000E 00	.0000E 00	.0000E 00	.6555E 02	.1458E 02

SCAT= .3223E-01 30/45= .3375E 01 45/135= .4193E 01 SCAT30-130= .7170E-02

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.4930E 00	-.7072E 00	-.2285E 00	-.3338E 01	.0000E 00	.8664E-01	.1709E-01
5	.2017E 00	-.1601E 01	-.1188E 01	-.1297E 01	.2339E 02	.2118E 00	.4176E-01
10	.8855E-01	-.2424E 01	-.1856E 01	-.5370E 00	.8711E 01	.4824E 00	.9514E-01
15	.4169E-01	-.3178E 01	-.2375E 01	-.2365E 00	.3449E 01	.1025E 01	.2021E 00
20	.2105E-01	-.3861E 01	-.2747E 01	-.1106E 00	.1449E 01	.2029E 01	.4002E 00
25	.1141E-01	-.4474E 01	-.3024E 01	-.5539E-01	.6522E 00	.3746E 01	.7386E 00
30	.6572E-02	-.5025E 01	-.3316E 01	-.3014E-01	.2899E 00	.6500E 01	.1282E 01
35	.3942E-02	-.5536E 01	-.2735E 01	-.1382E-01	.1071E 00	.2084E 02	.2137E 01
40	.2736E-02	-.5901E 01	-.2880E 01	-.9018E-02	.5499E-01	.1561E 02	.3079E 01
45	.1949E-02	-.6241E 01	-.2647E 01	-.5435E-02	.4104E-01	.2192E 02	.4323E 01
50	.1475E-02	-.6519E 01	-.2341E 01	-.3380E-02	.2355E-01	.2897E 02	.5713E 01
55	.1180E-02	-.6743E 01	-.2568E 01	-.3077E-02	.3470E-02	.3621E 02	.7141E 01
60	.9111E-03	-.7001E 01	-.2634E 01	-.1985E-02	.1251E-01	.4688E 02	.9246E 01
65	.7379E-03	-.7212E 01	-.1679E 01	-.9896E-03	.1140E-01	.5789E 02	.1142E 02
70	.6516E-03	-.7336E 01	-.3251E 01	-.1500E-02	-.5850E-02	.6556E 02	.1293E 02
75	.5207E-03	-.7560E 01	-.1780E 01	-.6476E-03	.9769E-02	.8204E 02	.1618E 02
80	.4642E-03	-.7675E 01	-.1677E 01	-.5162E-03	.1526E-02	.9203E 02	.1818E 02
85	.4193E-03	-.7777E 01	-.1604E 01	-.4209E-03	.1064E-02	.1019E 03	.2009E 02
90	.3826E-03	-.7869E 01	-.1048E 01	-.2415E-03	.2058E-02	.1117E 03	.2202E 02
95	.3615E-03	-.7925E 01	.4915E 00	.1058E-03	.3979E-02	.1182E 03	.2330E 02
100	.3707E-03	-.7900E 01	.2596E 00	.5415E-04	-.5914E-03	.1152E 03	.2272E 02
105	.3754E-03	-.7887E 01	-.2867E 00	-.5700E-04	-.1274E-02	.1138E 03	.2244E 02
110	.3705E-03	-.7901E 01	-.1337E 01	-.2449E-03	-.2154E-02	.1153E 03	.2274E 02
115	.3491E-03	-.7960E 01	.8984E 00	.1559E-03	.4594E-02	.1224E 03	.2413E 02
120	.3627E-03	-.7922E 01	.1806E 00	.3075E-04	-.1434E-02	.1178E 03	.2329E 02
125	.3654E-03	-.7915E 01	.2004E 01	.3423E-03	.3570E-02	.1169E 03	.2306E 02
130	.3953E-03	-.7836E 01	.3317E 01	.6041E-03	.3000E-02	.1081E 03	.2131E 02
135	.4480E-03	-.7711E 01	.5202E 00	.9805E-04	-.5799E-02	.9536E 02	.1880E 02
140	.4565E-03	-.7692E 01	.1666E 01	.3150E-03	.2480E-02	.9357E 02	.1845E 02
145	.4840E-03	-.7633E 01	.1724E 01	.3339E-03	.2173E-03	.8826E 02	.1740E 02
150	.5132E-03	-.7575E 01	.1783E 01	.3540E-03	.2304E-03	.8325E 02	.1647E 02
155	.5441E-03	-.7516E 01	.1841E 01	.3753E-03	.2443E-03	.7852E 02	.1548E 02
160	.5768E-03	-.7458E 01	.1900E 01	.3979E-03	.2590E-03	.7406E 02	.1460E 02
165	.6115E-03	-.7400E 01	.1958E 01	.4219E-03	.2746E-03	.6985E 02	.1378E 02
170	.6484E-03	-.7341E 01	.2017E 01	.4473E-03	.2911E-03	.6589E 02	.1299E 02
175	.6874E-03	-.7283E 01	.2075E 01	.4742E-03	.3086E-03	.6215E 02	.1226E 02
180	.7288E-03	-.7224E 01	.0000E 00	.0000E 00	.0000E 00	.5862E 02	.1158E 02

SCAT= .4272E-01 30/45= .3372E 01 45/135= .4350E 01 SCAT30-130= .8424E-02

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.7615E 00	-.2725E 00	-.2290E 00	-.5162E 01	.0000E 00	.8580E-01	.1697E-01
5	.3110E 00	-.1168E 01	-.1189E 01	-.2000E 01	.3624E 02	.2101E 00	.4166E-01
10	.1364E 00	-.1992E 01	-.1856E 01	-.8765E 00	.1345E 02	.4789E 00	.9473E-01
15	.6428E-01	-.2745E 01	-.2367E 01	-.3637E 00	.5303E 01	.1016E 01	.2010E 00
20	.3254E-01	-.3425E 01	-.2730E 01	-.1701E 00	.2219E 01	.2008E 01	.3972E 00
25	.1769E-01	-.4035E 01	-.3081E 01	-.8714E-01	.9508E 00	.3693E 01	.7304E 00
30	.1009E-01	-.4596E 01	-.3119E 01	-.4413E-01	.4929E 00	.6476E 01	.1281E 01
35	.6237E-02	-.5077E 01	-.3025E 01	-.2375E-01	.2335E 00	.1047E 02	.2072E 01
40	.4164E-02	-.5481E 01	-.2534E 01	-.1231E-01	.1311E 00	.1569E 02	.3103E 01
45	.3090E-02	-.5780E 01	-.2704E 01	-.8776E-02	.4054E-01	.2114E 02	.4182E 01
50	.2324E-02	-.6065E 01	-.2565E 01	-.5776E-02	.3438E-01	.2811E 02	.5561E 01
55	.1820E-02	-.6309E 01	-.2534E 01	-.4132E-02	.1885E-01	.3590E 02	.7101E 01
60	.1459E-02	-.6530E 01	-.2903E 01	-.3467E-02	.7617E-02	.4477E 02	.8856E 01
65	.1157E-02	-.6762E 01	-.2321E 01	-.2094E-02	.1579E-01	.5648E 02	.1117E 02
70	.9739E-03	-.6934E 01	-.2806E 01	-.1964E-02	.1491E-02	.6708E 02	.1327E 02
75	.8025E-03	-.7128E 01	-.1737E 01	-.9752E-03	.1135E-01	.8141E 02	.1610E 02
80	.7174E-03	-.7240E 01	-.2102E 01	-.9836E-03	-.9614E-04	.9107E 02	.1802E 02
85	.6316E-03	-.7367E 01	-.1096E 01	-.4394E-03	.6236E-02	.1034E 03	.2046E 02
90	.5932E-03	-.7430E 01	-.1251E 01	-.4444E-03	-.5776E-04	.1101E 03	.2178E 02
95	.5544E-03	-.7498E 01	-.4719E 00	-.1519E-03	.3352E-02	.1178E 03	.2331E 02
100	.5412E-03	-.7522E 01	-.3632E 00	-.1389E-03	.4930E-03	.1207E 03	.2388E 02
105	.5317E-03	-.7539E 01	-.8708E 00	-.2419E-03	-.1525E-02	.1229E 03	.2431E 02
110	.5106E-03	-.7580E 01	-.1221E 01	-.3290E-03	-.7695E-03	.1280E 03	.2532E 02
115	.4836E-03	-.7634E 01	-.2064E 00	-.4946E-04	.2988E-02	.1351E 03	.2672E 02
120	.4794E-03	-.7643E 01	.5223E 00	.1185E-03	.1913E-02	.1363E 03	.2696E 02
125	.4897E-03	-.7622E 01	.1604E 01	.3643E-03	.2817E-02	.1334E 03	.2639E 02
130	.5215E-03	-.7559E 01	.1075E 00	.2317E-04	-.3909E-02	.1253E 03	.2478E 02
135	.5235E-03	-.7555E 01	.7318E 00	.1618E-03	.1589E-04	.1248E 03	.2468E 02
140	.5376E-03	-.7528E 01	.6921E 00	.1515E-03	-.1188E-03	.1215E 03	.2404E 02
145	.5509E-03	-.7504E 01	.7164E 00	.1552E-03	.4260E-04	.1186E 03	.2346E 02
150	.5644E-03	-.7480E 01	.7407E 00	.1590E-03	.4372E-04	.1158E 03	.2290E 02
155	.5783E-03	-.7455E 01	.7650E 00	.1629E-03	.4480E-04	.1130E 03	.2235E 02
160	.5925E-03	-.7431E 01	.7893E 00	.1669E-03	.4590E-04	.1103E 03	.2181E 02
165	.6071E-03	-.7407E 01	.8136E 00	.1710E-03	.4702E-04	.1076E 03	.2129E 02
170	.6220E-03	-.7383E 01	.8379E 00	.1752E-03	.4820E-04	.1050E 03	.2078E 02
175	.6373E-03	-.7358E 01	.8622E 00	.1795E-03	.4936E-04	.1025E 03	.2028E 02
180	.6529E-03	-.7334E 01	.0000E 00	.0000E 00	.0000E 00	.1001E 03	.1979E 02

SCAT= .6533E-01 30/45= .3765E 01 45/135= .5932E 01 SCAT30-130= .1292E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.7132E 00	-.3381E 00	-.2170E 00	-.4675E 01	.0000E 00	.9667E-01	.2084E-01
5	.3052E 00	-.1187E 01	-.1131E 01	-.1900E 01	.3180E 02	.2259E 00	.4869E-01
10	.1393E 00	-.1971E 01	-.1774E 01	-.8108E 00	.1239E 02	.4948E 00	.1066E 00
15	.6788E-01	-.2690E 01	-.2274E 01	-.3735E 00	.5103E 01	.1016E 01	.2189E 00
20	.3528E-01	-.3344E 01	-.2642E 01	-.1801E 00	.2217E 01	.1954E 01	.4211E 00
25	.1957E-01	-.3934E 01	-.2339E 01	-.9303E-01	.9974E 00	.3523E 01	.7593E 00
30	.1145E-01	-.4470E 01	-.2990E 01	-.4845E-01	.5108E 00	.6020E 01	.1298E 01
35	.7223E-02	-.4930E 01	-.3043E 01	-.2764E-01	.2385E 00	.9545E 01	.2057E 01
40	.4811E-02	-.5337E 01	-.2673E 01	-.1489E-01	.1461E 00	.1433E 02	.3089E 01
45	.3511E-02	-.5652E 01	-.2658E 01	-.9830E-02	.5800E-01	.1963E 02	.4232E 01
50	.2654E-02	-.5932E 01	-.2506E 01	-.6461E-02	.3860E-01	.2598E 02	.5600E 01
55	.2090E-02	-.6171E 01	-.2379E 01	-.4478E-02	.2273E-01	.3299E 02	.7110E 01
60	.1699E-02	-.6378E 01	-.2778E 01	-.3882E-02	.6830E-02	.4058E 02	.8746E 01
65	.1360E-02	-.6600E 01	-.2520E 01	-.2655E-02	.1406E-01	.5069E 02	.1092E 02
70	.1129E-02	-.6787E 01	-.2405E 01	-.1977E-02	.7764E-02	.6109E 02	.1317E 02
75	.9560E-03	-.6953E 01	-.2083E 01	-.1378E-02	.6867E-02	.7212E 02	.1554E 02
80	.8357E-03	-.7087E 01	-.2448E 01	-.1321E-02	.6576E-03	.8250E 02	.1778E 02
85	.7205E-03	-.7236E 01	-.1210E 01	-.5517E-03	.8811E-02	.9569E 02	.2062E 02
90	.6723E-03	-.7305E 01	-.9141E 00	-.3715E-03	.2065E-02	.1025E 03	.2210E 02
95	.6399E-03	-.7354E 01	-.1073E 01	-.3925E-03	-.2400E-03	.1077E 03	.2322E 02
100	.6057E-03	-.7404E 01	-.4764E 00	-.1595E-03	.2671E-02	.1138E 03	.2453E 02
105	.5917E-03	-.7432E 01	-.5605E 00	-.1745E-03	-.1726E-03	.1165E 03	.2511E 02
110	.5765E-03	-.7459E 01	-.1034E 01	-.2968E-03	-.1402E-02	.1196E 03	.2577E 02
115	.5506E-03	-.7504E 01	-.1166E 00	-.3122E-04	.3044E-02	.1252E 03	.2699E 02
120	.5479E-03	-.7509E 01	.5003E 00	.1295E-03	.1842E-02	.1258E 03	.2712E 02
125	.5592E-03	-.7489E 01	.1283E 00	.3233E-04	-.1112E-02	.1233E 03	.2657E 02
130	.5620E-03	-.7484E 01	.1576E 01	.3946E-03	.4151E-02	.1227E 03	.2644E 02
135	.5964E-03	-.7425E 01	-.2229E-01	-.5538E-05	-.4585E-02	.1156E 03	.2491E 02
140	.5960E-03	-.7425E 01	.5281E 00	.1277E-03	.1527E-02	.1157E 03	.2493E 02
145	.6071E-03	-.7407E 01	.5467E 00	.1301E-03	.2738E-04	.1136E 03	.2448E 02
150	.6185E-03	-.7388E 01	.5652E 00	.1326E-03	.2789E-04	.1115E 03	.2403E 02
155	.6300E-03	-.7370E 01	.5837E 00	.1350E-03	.2842E-04	.1094E 03	.2358E 02
160	.6418E-03	-.7351E 01	.6023E 00	.1376E-03	.2895E-04	.1074E 03	.2315E 02
165	.6538E-03	-.7333E 01	.6208E 00	.1401E-03	.2948E-04	.1054E 03	.2275E 02
170	.6661E-03	-.7314E 01	.6393E 00	.1428E-03	.3005E-04	.1035E 03	.2231E 02
175	.6785E-03	-.7296E 01	.6579E 00	.1454E-03	.3061E-04	.1016E 03	.2190E 02
180	.6912E-03	-.7277E 01	.0000E 00	.0000E 00	.0000E 00	.9974E 02	.2180E 02

SCAT= .6894E-01 30/45= .3261E 01 45/135= .5847E 01 SCAT30-130= .1486E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.4107E 00	-.8900E 00	-.1910E 00	-.2477E 01	.0000E 00	.1280E 00	.3262E-01
5	.1945E 00	-.1637E 01	-.1002E 01	-.1116E 01	.1559E 02	.2702E 00	.6887E-01
10	.9714E-01	-.2332E 01	-.1583E 01	-.5273E 00	.6748E 01	.5411E 00	.1379E 00
15	.5112E-01	-.2973E 01	-.2048E 01	-.2608E 00	.3063E 01	.1028E 01	.2621E 00
20	.2836E-01	-.3563E 01	-.2405E 01	-.1350E 00	.1443E 01	.1853E 01	.4724E 00
25	.1658E-01	-.4099E 01	-.2764E 01	-.7523E-01	.6844E 00	.3169E 01	.8079E 00
30	.1002E-01	-.4603E 01	-.2704E 01	-.3919E-01	.4130E 00	.5246E 01	.1337E 01
35	.6598E-02	-.5021E 01	-.2871E 01	-.2407E-01	.1733E 00	.7965E 01	.2030E 01
40	.4497E-02	-.5404E 01	-.3050E 01	-.1555E-01	.9765E-01	.1169E 02	.2979E 01
45	.3140E-02	-.5763E 01	-.2338E 01	-.7855E-02	.8820E-01	.1674E 02	.4266E 01
50	.2455E-02	-.6010E 01	-.2896E 01	-.6785E-02	.1228E-01	.2141E 02	.5458E 01
55	.1863E-02	-.6296E 01	-.2785E 01	-.4594E-02	.2511E-01	.2822E 02	.7193E 01
60	.1462E-02	-.6528E 01	-.2205E 01	-.2709E-02	.2159E-01	.3596E 02	.9168E 01
65	.1225E-02	-.6705E 01	-.2773E 01	-.2608E-02	.1160E-02	.4289E 02	.1093E 02
70	.9977E-03	-.6910E 01	-.2119E 01	-.1555E-02	.1206E-01	.5268E 02	.1349E 02
75	.8620E-03	-.7056E 01	-.2422E 01	-.1430E-02	.1437E-02	.6097E 02	.1554E 02
80	.7372E-03	-.7213E 01	-.2271E 01	-.1087E-02	.3930E-02	.7129E 02	.1817E 02
85	.6424E-03	-.7350E 01	-.1512E 01	-.6093E-03	.5469E-02	.8181E 02	.2086E 02
90	.5892E-03	-.7437E 01	-.4567E 00	-.1647E-03	.5095E-02	.8919E 02	.2274E 02
95	.5749E-03	-.7461E 01	-.1077E 01	-.3540E-03	-.2149E-02	.9142E 02	.2331E 02
100	.5440E-03	-.7517E 01	-.1712E 00	-.5184E-04	.3462E-02	.9662E 02	.2463E 02
105	.5394E-03	-.7525E 01	-.4326E 00	-.1232E-03	-.8174E-03	.9743E 02	.2484E 02
110	.5287E-03	-.7545E 01	-.1719E 01	-.4456E-03	-.3695E-02	.9941E 02	.2534E 02
115	.4898E-03	-.7621E 01	.1040E 01	.2539E-03	.8016E-02	.1073E 03	.2736E 02
120	.5120E-03	-.7577E 01	-.9488E-01	-.2268E-04	-.3169E-02	.1027E 03	.2617E 02
125	.5100E-03	-.7581E 01	.1573E 00	.3616E-04	.6745E-03	.1031E 03	.2627E 02
130	.5131E-03	-.7575E 01	.1869E 01	.4287E-03	.4459E-02	.1024E 03	.2611E 02
135	.5506E-03	-.7505E 01	.1339E 00	.3080E-04	-.4580E-02	.9546E 02	.2433E 02
140	.5532E-03	-.7500E 01	.6728E 00	.1515E-03	.1389E-02	.9500E 02	.2422E 02
145	.5665E-03	-.7476E 01	.6964E 00	.1551E-03	.4149E-04	.9278E 02	.2365E 02
150	.5800E-03	-.7452E 01	.7200E 00	.1588E-03	.4245E-04	.9062E 02	.2310E 02
155	.5939E-03	-.7429E 01	.7436E 00	.1626E-03	.4344E-04	.8850E 02	.2256E 02
160	.6080E-03	-.7405E 01	.7672E 00	.1664E-03	.4450E-04	.8644E 02	.2203E 02
165	.6226E-03	-.7382E 01	.7908E 00	.1704E-03	.4550E-04	.8442E 02	.2152E 02
170	.6374E-03	-.7358E 01	.8144E 00	.1745E-03	.4666E-04	.8245E 02	.2102E 02
175	.6527E-03	-.7334E 01	.8380E 00	.1787E-03	.4777E-04	.8053E 02	.2053E 02
180	.6683E-03	-.7311E 01	.0000E 00	.0000E 00	.0000E 00	.7865E 02	.2005E 02

SCAT= .5256E-01 30/45= .3190E 01 45/135= .5704E 01 SCAT30-130= .1340E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.5228E 00	-.6485E 00	-.2316E 00	-.3569E 01	.0000E 00	.8525E-01	.1730E-01
5	.2113E 00	-.1554E 01	-.1200E 01	-.1368E 01	.2529E 02	.2109E 00	.4290E-01
10	.9198E-01	-.2386E 01	-.1870E 01	-.5601E 00	.9265E 01	.4846E 00	.9876E-01
15	.4310E-01	-.3144E 01	-.2378E 01	-.2447E 00	.3614E 01	.1034E 01	.2109E 00
20	.2174E-01	-.3828E 01	-.2735E 01	-.1138E 00	.1500E 01	.2050E 01	.4178E 00
25	.1181E-01	-.4439E 01	-.3075E 01	-.5808E-01	.6309E 00	.3774E 01	.7692E 00
30	.6742E-02	-.4999E 01	-.3065E 01	-.2909E-01	.3322E 00	.6611E 01	.1347E 01
35	.4203E-02	-.5472E 01	-.2495E 01	-.1544E-01	.1564E 00	.1060E 02	.2161E 01
40	.2855E-02	-.5859E 01	-.2760E 01	-.9082E-02	.7290E-01	.1561E 02	.3181E 01
45	.2063E-02	-.6184E 01	-.2336E 01	-.5157E-02	.4498E-01	.2161E 02	.4404E 01
50	.1613E-02	-.6430E 01	-.2706E 01	-.4201E-02	.1095E-01	.2764E 02	.5632E 01
55	.1246E-02	-.6688E 01	-.2422E 01	-.2713E-02	.1705E-01	.3577E 02	.7290E 01
60	.1009E-02	-.6898E 01	-.2525E 01	-.2117E-02	.6833E-02	.4416E 02	.8999E 01
65	.8247E-03	-.7101E 01	-.2311E 01	-.1487E-02	.7215E-02	.5405E 02	.1102E 02
70	.6949E-03	-.7272E 01	-.2345E 01	-.1190E-02	.3411E-02	.6414E 02	.1307E 02
75	.5911E-03	-.7434E 01	-.2063E 01	-.8215E-03	.4210E-02	.7541E 02	.1537E 02
80	.5194E-03	-.7563E 01	-.1781E 01	-.6090E-03	.2435E-02	.8582E 02	.1749E 02
85	.4662E-03	-.7671E 01	-.1428E 01	-.4187E-03	.2181E-02	.9560E 02	.1948E 02
90	.4297E-03	-.7752E 01	-.9255E 00	-.2403E-03	.2044E-02	.1037E 03	.2114E 02
95	.4087E-03	-.7802E 01	-.1187E-01	-.2849E-05	.2721E-02	.1091E 03	.2223E 02
100	.4085E-03	-.7803E 01	.1478E 00	.3388E-04	.4209E-03	.1091E 03	.2224E 02
105	.4114E-03	-.7796E 01	-.1982E 00	-.4327E-04	-.8841E-03	.1089E 03	.2208E 02
110	.4077E-03	-.7805E 01	-.5772E 00	-.1183E-03	-.8600E-03	.1099E 03	.2228E 02
115	.3973E-03	-.7831E 01	-.7141E 00	-.1363E-03	-.2080E-03	.1122E 03	.2288E 02
120	.3854E-03	-.7861E 01	.4166E 00	.7576E-04	.2430E-02	.1156E 03	.2387E 02
125	.3920E-03	-.7844E 01	.1267E 01	.2288E-03	.1754E-02	.1137E 03	.2317E 02
130	.4120E-03	-.7794E 01	.1025E 01	.1862E-03	-.4884E-03	.1082E 03	.2205E 02
135	.4283E-03	-.7756E 01	[illegible]	.2425E-04	-.1856E-02	.1041E 03	.2127E 02
140	.4304E-03	-.7751E 01	.1173E 00	.1080E-03	.9597E-03	.1036E 03	.2111E 02
145	.4398E-03	-.7729E 01	.6389E 00	.1104E-03	.2704E-04	.1013E 03	.2068E 02
150	.4494E-03	-.7708E 01	.6606E 00	.1128E-03	.2769E-04	.9918E 02	.2021E 02
155	.4593E-03	-.7686E 01	.6823E 00	.1152E-03	.2830E-04	.9705E 02	.1978E 02
160	.4693E-03	-.7664E 01	.7039E 00	.1178E-03	.2892E-04	.9497E 02	.1936E 02
165	.4796E-03	-.7643E 01	.7256E 00	.1203E-03	.2955E-04	.9294E 02	.1894E 02
170	.4901E-03	-.7621E 01	.7472E 00	.1230E-03	.3020E-04	.9094E 02	.1853E 02
175	.5008E-03	-.7599E 01	.7689E 00	.1257E-03	.3084E-04	.8900E 02	.1814E 02
180	.5118E-03	-.7578E 01	.0000E 00	.0000E 00	.0000E 00	.8709E 02	.1775E 02

SCAT= .4457E-01 30/45= .3268E 01 45/135= .4817E 01 SCAT30-130= .9084E-02

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3754E 00	-.9797E 00	-.2252E 00	-.2519E 01	.0000E 00	.8799E-01	.1720E-01
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	.4208E-03	-.7773E 01	.1021E 01	.1539E-03	.5452E-04	.7846E 02	.1534E 02
165	.4342E-03	-.7742E 01	.1052E 01	.1588E-03	.5626E-04	.7602E 02	.1487E 02
170	.4481E-03	-.7710E 01	.1084E 01	.1639E-03	.5806E-04	.7367E 02	.1441E 02
175	.4624E-03	-.7679E 01	.1115E 01	.1691E-03	.5991E-04	.7139E 02	.1398E 02
180	.4772E-03	-.7648E 01	.0000E 00	.0000E 00	.0000E 00	[illegible]	.1359E 02

SCAT= .3301E-01 30/45= .3603E 01 45/135= .3732E 01 SCAT30-130= .6456E-02

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1003E 01	.3450E-02	-.2411E 00	-.7021E 01	.0000E 00	.7651E-01	.1422E-01
5	.3907E 00	-.9397E 00	-.1249E 01	-.2593E 01	.5074E 02	.1965E 00	.3651E-01
10	.1644E 00	-.1805E 01	-.1943E 01	-.1027E 01	.1794E 02	.4669E 00	.8675E-01
15	.7480E-01	-.2593E 01	-.2468E 01	-.4357E 00	.6770E 01	.1026E 01	.1907E 00
20	.3678E-01	-.3303E 01	-.2833E 01	-.1975E 00	.2730E 01	.2088E 01	.3879E 00
25	.1954E-01	-.3935E 01	-.3144E 01	-.9770E-01	.1149E 01	.3929E 01	.7300E 00
30	.1102E-01	-.4508E 01	-.3067E 01	-.4756E-01	.6746E 00	.6969E 01	.1295E 01
35	.6867E-02	-.4981E 01	-.3017E 01	-.2609E-01	.2469E 00	.1118E 02	.2077E 01
40	.4590E-02	-.5384E 01	-.2779E 01	-.1477E-01	.1290E 00	.1673E 02	.3108E 01
45	.3301E-02	-.5714E 01	-.2253E 01	-.7993E-02	.7769E-01	.2326E 02	.4322E 01
50	.2604E-02	-.5951E 01	-.2940E 01	-.7291E-02	.8063E-02	.2949E 02	.5479E 01
55	.1967E-02	-.6231E 01	-.2198E 01	-.3924E-02	.3088E-01	.3909E 02	.7263E 01
60	.1625E-02	-.6422E 01	-.3073E 01	-.4060E-02	-.1657E-02	.4725E 02	.8780E 01
65	.1270E-02	-.6668E 01	-.2163E 01	-.2156E-02	.2182E-01	.6043E 02	.1123E 02
70	.1082E-02	-.6829E 01	-.2452E 01	-.1930E-02	.2504E-02	.7094E 02	.1318E 02
75	.9139E-03	-.6998E 01	-.2079E 01	-.1315E-02	.7062E-02	.8401E 02	.1561E 02
80	.7991E-03	-.7132E 01	-.1935E 01	-.1014E-02	.3449E-02	.9608E 02	.1785E 02
85	.7107E-03	-.7249E 01	-.1032E 01	-.4664E-03	.6278E-02	.1080E 03	.2007E 02
90	.6700E-03	-.7308E 01	-.1172E 01	-.4714E-03	-.8665E-04	.1146E 03	.2129E 02
95	.6288E-03	-.7372E 01	-.2021E 00	-.7432E-04	.4550E-02	.1221E 03	.2269E 02
100	.6223E-03	-.7382E 01	-.7547E 00	-.2576E-03	-.2101E-02	.1234E 03	.2293E 02
105	.5999E-03	-.7419E 01	-.8587E 00	-.2690E-03	-.1908E-03	.1280E 03	.2378E 02
110	.5764E-03	-.7459E 01	-.8989E 00	-.2587E-03	.1100E-03	.1332E 03	.2475E 02
115	.5538E-03	-.7499E 01	-.4853E 00	-.1297E-03	.1470E-02	.1386E 03	.2576E 02
120	.5425E-03	-.7519E 01	.6534E-01	.1660E-04	.1677E-02	.1415E 03	.2630E 02
125	.5439E-03	-.7517E 01	.5757E 00	.1423E-03	.1442E-02	.1412E 03	.2623E 02
130	.5564E-03	-.7494E 01	.8010E 00	.1957E-03	.6111E-03	.1380E 03	.2564E 02
135	.5734E-03	-.7464E 01	-.1337E 00	-.3188E-04	-.2600E-02	.1339E 03	.2488E 02
140	.5706E-03	-.7469E 01	.2704E 00	.6235E-04	.1080E-02	.1349E 03	.2508E 02
145	.5761E-03	-.7459E 01	.2799E 00	.6294E-04	.6012E-05	.1333E 03	.2478E 02
150	.5816E-03	-.7450E 01	.2894E 00	.6354E-04	.6872E-05	.1320E 03	.2453E 02
155	.5871E-03	-.7440E 01	.2989E 00	.6415E-04	.6945E-05	.1308E 03	.2430E 02
160	.5927E-03	-.7431E 01	.3084E 00	.6476E-04	.7010E-05	.1296E 03	.2407E 02
165	.5984E-03	-.7421E 01	.3179E 00	.6538E-04	.7079E-05	.1283E 03	.2384E 02
170	.6041E-03	-.7412E 01	.3274E 00	.6600E-04	.7148E-05	.1271E 03	.2362E 02
175	.6098E-03	-.7402E 01	.3368E 00	.6663E-04	.7211E-05	.1259E 03	.2339E 02
180	.6157E-03	-.7393E 01	.0000E 00	.0000E 00	.0000E 00	.1247E 03	.2317E 02

SCAT= .7678E-01 30/45= .3337E 01 45/135= .5757E 01 SCAT30-130= .1427E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.4295E 00	-.8451E 00	-.1996E 00	-.2667E 01	.0000E 00	.1195E 00	.2979E-01
5	.1967E 00	-.1626E 01	-.1043E 01	-.1161E 01	.1727E 02	.2610E 00	.6495E-01
10	.9544E-01	-.2349E 01	-.1642E 01	-.5317E 00	.7207E 01	.5379E 00	.1339E 00
15	.4905E-01	-.3015E 01	-.2114E 01	-.2561E 00	.3150E 01	.1047E 01	.2606E 00
20	.2670E-01	-.3623E 01	-.2468E 01	-.1295E 00	.1450E 01	.1923E 01	.4786E 00
25	.1539E-01	-.4174E 01	-.2773E 01	-.6999E-01	.6824E 00	.3336E 01	.8302E 00
30	.9283E-02	-.4680E 01	-.2836E 01	-.3767E-01	.3704E 00	.5530E 01	.1376E 01
35	.5995E-02	-.5117E 01	-.2931E 01	-.2225E-01	.1767E 00	.8563E 01	.2131E 01
40	.4053E-02	-.5508E 01	-.2574E 01	-.1215E-01	.1157E 00	.1266E 02	.3152E 01
45	.2993E-02	-.5811E 01	-.2684E 01	-.8395E-02	.4302E-01	.1715E 02	.4269E 01
50	.2261E-02	-.6092E 01	-.2984E 01	-.6226E-02	.2486E-01	.2271E 02	.5652E 01
55	.1717E-02	-.6367E 01	-.2324E 01	-.3603E-02	.3006E-01	.2989E 02	.7440E 01
60	.1403E-02	-.6569E 01	-.2530E 01	-.2947E-02	.7519E-02	.3660E 02	.9108E 01
65	.1146E-02	-.6772E 01	-.2774E 01	-.2440E-02	.5813E-02	.4481E 02	.1115E 02
70	.9327E-03	-.6977E 01	-.2410E 01	-.1637E-02	.9199E-02	.5504E 02	.1370E 02
75	.7899E-03	-.7144E 01	-.1987E 01	-.6131E-03	.1175E-01	.6499E 02	.1618E 02
80	.7364E-03	-.7214E 01	-.1869E 01	-.7041E-03	-.3536E-02	.6972E 02	.1735E 02
85	.6575E-03	-.7327E 01	-.1811E 01	-.7410E-03	.1070E-02	.7808E 02	.1943E 02
90	.5928E-03	-.7431E 01	-.7796E 00	-.2804E-03	.5278E-02	.8660E 02	.2156E 02
95	.5684E-03	-.7473E 01	-.1534E 00	-.5106E-04	.2628E-02	.9033E 02	.2248E 02
100	.5639E-03	-.7481E 01	-.2773E 00	-.8569E-04	-.3968E-03	.9104E 02	.2266E 02
105	.5564E-03	-.7494E 01	-.1177E 00	-.3482E-04	.5829E-03	.9226E 02	.2296E 02
110	.5534E-03	-.7499E 01	-.2804E 00	-.7855E-04	-.5011E-03	.9277E 02	.2309E 02
115	.5465E-03	-.7512E 01	.1167E 01	.3190E-03	.4556E-02	.9393E 02	.2338E 02
120	.5744E-03	-.7462E 01	.1333E 01	.3681E-03	.5621E-03	.8938E 02	.2225E 02
125	.6065E-03	-.7408E 01	.9990E 00	.2777E-03	-.1055E-02	.8465E 02	.2107E 02
130	.6307E-03	-.7369E 01	.1485E 01	.4166E-03	.1591E-02	.8139E 02	.2026E 02
135	.6671E-03	-.7313E 01	.1346E 01	.3833E-03	-.3807E-03	.7696E 02	.1915E 02
140	.7005E-03	-.7264E 01	.1402E 01	.4050E-03	.2476E-03	.7328E 02	.1824E 02
145	.7359E-03	-.7214E 01	.1452E 01	.4254E-03	.2341E-03	.6976E 02	.1736E 02
150	.7730E-03	-.7165E 01	.1501E 01	.4468E-03	.2459E-03	.6641E 02	.1653E 02
155	.8120E-03	-.7116E 01	.1550E 01	.4694E-03	.2583E-03	.6322E 02	.1574E 02
160	.8529E-03	-.7067E 01	.1599E 01	.4931E-03	.2713E-03	.6019E 02	.1498E 02
165	.8960E-03	-.7018E 01	.1649E 01	.5179E-03	.2850E-03	.5730E 02	.1426E 02
170	.9412E-03	-.6968E 01	.1698E 01	.5441E-03	.2994E-03	.5455E 02	.1358E 02
175	.9886E-03	-.6919E 01	.1747E 01	.5715E-03	.3145E-03	.5193E 02	.1292E 02
180	.1039E-02	-.6870E 01	.0000E 00	.0000E 00	.0000E 00	.4943E 02	.1230E 02

SCAT= .5134E-01 30/45= .3101E 01 45/135= .4487E 01 SCAT30-130= .1278E-01

CH42/110 2200H 23164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.5640E 00	-.5726E 00	-.7328E 00	-.3863E 01	.0000E 00	.8304E-01	.1601E-01
5	.2270E 00	-.1483E 01	-.1203E 01	-.1476E 01	.2735E 02	.2064E 00	.3980E-01
10	.9817E-01	-.2321E 01	-.1889E 01	-.6019E 00	.1001E 02	.4771E 00	.9201E-01
15	.4564E-01	-.3087E 01	-.2411E 01	-.7616E 00	.3099E 01	.1026E 01	.1979E 00
20	.2281E-01	-.3780E 01	-.2784E 01	-.1710E 00	.1617E 01	.2053E 01	.3959E 00
25	.1226E-01	-.4402E 01	-.3128E 01	-.6104E-01	.6867E 00	.3822E 01	.7370E 00
30	.6929E-02	-.4972E 01	-.3074E 01	-.2999E-01	.3558E 00	.6760E 01	.1304E 01
35	.4311E-02	-.5447E 01	-.3076E 01	-.1664E-01	.1630E 00	.1086E 02	.2095E 01
40	.2859E-02	-.5857E 01	-.2847E 01	-.9336E-02	.8377E-01	.1638E 02	.3159E 01
45	.2045E-02	-.6193E 01	-.2465E 01	-.5358E-02	.4559E-01	.2291E 02	.4418E 01
50	.1577E-02	-.6452E 01	-.2877E 01	-.4533E-02	.1174E-01	.2970E 02	.5728E 01
55	.1199E-02	-.6726E 01	-.2851E 01	-.3018E-02	.1507E-01	.3907E 02	.7534E 01
60	.9354E-03	-.6975E 01	-.1573E 01	-.1268E-02	.2006E-01	.5007E 02	.9656E 01
65	.9248E-03	-.7100E 01	-.2316E 01	-.1491E-02	-.2552E-02	.5679E 02	.1095E 02
70	.6947E-03	-.7272E 01	-.2552E 01	-.1285E-02	.2352E-04	.6742E 02	.1300E 02
75	.5825E-03	-.7448E 01	-.2851E 01	-.1122E-02	.1874E-02	.8041E 02	.1551E 02
80	.4846E-03	-.7632E 01	-.1276E 01	-.4135E-03	.8110E-02	.9665E 02	.1864E 02
85	.4485E-03	-.7710E 01	-.1502E 01	-.4226E-03	-.1069E-03	.1044E 03	.2014E 02
90	.4116E-03	-.7795E 01	-.9847E 00	-.2446E-03	.2043E-02	.1138E 03	.2194E 02
95	.3903E-03	-.7849E 01	.4519E 00	.1049E-03	.4004E-02	.1200E 03	.2314E 02
100	.3995E-03	-.7825E 01	.2657E-01	.5939E-05	-.1194E-02	.1173E 03	.2261E 02
105	.4000E-03	-.7824E 01	.1752E 00	.3750E-04	.3617E-04	.1171E 03	.2258E 02
110	.4037E-03	-.7816E 01	-.1748E 00	-.3577E-04	-.8396E-03	.1162E 03	.2240E 02
115	.4001E-03	-.7824E 01	.2104E-01	.4108E-05	.6849E-03	.1171E 03	.2257E 02
120	.4005E-03	-.7823E 01	.5984E 00	.1135E-03	.1283E-02	.1170E 03	.2256E 02
125	.4104E-03	-.7798E 01	.1393E 01	.2640E-03	.1729E-02	.1141E 03	.2201E 02
130	.4334E-03	-.7744E 01	.2433E 01	.4777E-03	.2449E-02	.1081E 03	.2084E 02
135	.4751E-03	-.7652E 01	.3288E 00	.6549E-04	-.4724E-02	.9859E 02	.1901E 02
140	.4808E-03	-.7640E 01	.1204E 01	.2378E-03	.1974E-02	.9761E 02	.1878E 02
145	.5016E-03	-.7598E 01	.1246E 01	.2481E-03	.1178E-03	.9338E 02	.1802E 02
150	.5232E-03	-.7555E 01	.1289E 01	.2588E-03	.1227E-03	.8952E 02	.1726E 02
155	.5458E-03	-.7513E 01	.1331E 01	.2699E-03	.1280E-03	.8582E 02	.1656E 02
160	.5694E-03	-.7471E 01	.1373E 01	.2816E-03	.1336E-03	.8227E 02	.1586E 02
165	.5939E-03	-.7429E 01	.1415E 01	.2937E-03	.1392E-03	.7886E 02	.1522E 02
170	.6196E-03	-.7386E 01	.1458E 01	.3064E-03	.1459E-03	.7560E 02	.1458E 02
175	.6463E-03	-.7344E 01	.1500E 01	.3196E-03	.1526E-03	.7247E 02	.1398E 02
180	.6747E-03	-.7302E 01	.0000E 00	.0000E 00	.0000E 00	.6947E 02	.1340E 02

SCAT= .4694E-01 30/45= .3389E 01 45/135= .4303E 01 SCAT30-130= .9032E-02

CH42/111 2240H 23164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.5393E 00	-.6175E 00	-.1844E 00	-.3176E 01	.0000E 00	.1360E 00	.3537E-01
5	.2622E 00	-.1339E 01	-.9699E 00	-.1471E 01	.1954E 02	.2797E 00	.7276E-01
10	.1339E 00	-.2011E 01	-.1537E 01	-.7115E 00	.8690E 01	.5478E 00	.1425E 00
15	.7176E-01	-.2634E 01	-.1997E 01	-.3593E 00	.4035E 01	.1022E 01	.2658E 00
20	.4040E-01	-.3209E 01	-.2355E 01	-.1892E 00	.1949E 01	.1815E 01	.4722E 00
25	.2389E-01	-.3734E 01	-.2649E 01	-.1064E 00	.9495E 00	.3069E 01	.7986E 00
30	.1461E-01	-.4226E 01	-.2767E 01	-.5811E-01	.5552E 00	.5020E 01	.1306E 01
35	.9534E-02	-.4653E 01	-.2847E 01	-.3455E-01	.2699E 00	.7691E 01	.2002E 01
40	.6519E-02	-.5033E 01	-.2907E 01	-.2166E-01	.1478E 00	.1125E 02	.2927E 01
45	.4629E-02	-.5375E 01	-.2613E 01	-.1276E-01	.1019E 00	.1584E 02	.4121E 01
50	.3515E-02	-.5651E 01	-.2853E 01	-.9589E-02	.3637E-01	.2086E 02	.5427E 01
55	.2678E-02	-.5923E 01	-.2260E 01	-.5480E-02	.4709E-01	.2738E 02	.7123E 01
60	.2200E-02	-.6119E 01	-.2954E 01	-.5309E-02	.1951E-02	.3333E 02	.8671E 01
65	.1737E-02	-.6356E 01	-.2303E 01	-.3123E-02	.2604E-01	.4222E 02	.1098E 02
70	.1464E-02	-.6526E 01	-.2652E 01	-.2806E-02	.3620E-02	.5007E 02	.1305E 02
75	.1219E-02	-.6709E 01	-.2566E 01	-.2133E-02	.7714E-02	.6019E 02	.1566E 02
80	.1033E-02	-.6875E 01	-.1876E 01	-.1273E-02	.9866E-02	.7096E 02	.1846E 02
85	.9222E-03	-.6989E 01	-.1729E 01	-.9946E-03	.3188E-02	.7951E 02	.2069E 02
90	.8354E-03	-.7088E 01	-.1841E 01	-.9070E-03	.1004E-02	.8777E 02	.2284E 02
95	.7562E-03	-.7187E 01	-.4648E 00	-.2042E-03	.8064E-02	.9696E 02	.2523E 02
100	.7384E-03	-.7211E 01	-.1341E 01	-.5360E-03	-.3809E-02	.9930E 02	.2584E 02
105	.6916E-03	-.7276E 01	-.7477E 00	-.2709E-03	.3098E-02	.1060E 03	.2758E 02
110	.6680E-03	-.7311E 01	-.8527E 00	-.2847E-03	-.1579E-03	.1098E 03	.2856E 02
115	.6432E-03	-.7349E 01	-.7244E-01	-.2269E-04	.3002E-02	.1140E 03	.2966E 02
120	.6412E-03	-.7352E 01	.4748E 00	.1438E-03	.1908E-02	.1144E 03	.2975E 02
125	.6537E-03	-.7333E 01	.2759E 00	.8151E-04	-.7137E-03	.1122E 03	.2918E 02
130	.6608E-03	-.7322E 01	.1577E 01	.4642E-03	.4984E-02	.1110E 03	.2887E 02
135	.7014E-03	-.7263E 01	.3042E-01	.8896E-05	-.5210E-02	.1045E 03	.2720E 02
140	.7021E-03	-.7261E 01	.5797E 00	.1653E-03	.1795E-02	.1044E 03	.2717E 02
145	.7166E-03	-.7241E 01	.6000E 00	.1687E-03	.3896E-04	.1023E 03	.2663E 02
150	.7313E-03	-.7221E 01	.6204E 00	.1722E-03	.3973E-04	.1003E 03	.2609E 02
155	.7463E-03	-.7200E 01	.6407E 00	.1757E-03	.4057E-04	.9825E 02	.2556E 02
160	.7616E-03	-.7180E 01	.6611E 00	.1794E-03	.4158E-04	.9627E 02	.2505E 02
165	.7773E-03	-.7160E 01	.6814E 00	.1830E-03	.4224E-04	.9433E 02	.2454E 02
170	.7933E-03	-.7139E 01	.7018E 00	.1868E-03	.4309E-04	.9243E 02	.2408E 02
175	.8096E-03	-.7119E 01	.7221E 00	.1906E-03	.4400E-04	.9057E 02	.2356E 02
180	.8262E-03	-.7099E 01	.0000E 00	.0000E 00	.0000E 00	.8875E 02	.2309E 02

SCAT= .7332E-01 30/45= .3155E 01 45/135= .6600E 01 SCAT30-130= .1908E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2499E 00	-.1387E 01	-.1621E 00	-.1344E 01	.0000E 00	.1752E 00	.5088E-01
5	.1326E 00	-.2021E 01	-.8618E 00	-.6832E 00	.7577E 01	.3303E 00	.9591E-01
10	.7295E-01	-.2618E 01	-.1383E 01	-.3588E 00	.3727E 01	.6002E 00	.1743E 00
15	.4164E-01	-.3179E 01	-.1822E 01	-.1947E 00	.1881E 01	.1052E 01	.3054E 00
20	.2465E-01	-.3703E 01	-.2186E 01	-.1090E 00	.9814E 00	.1776E 01	.5159E 00
25	.1513E-01	-.4191E 01	-.2526E 01	-.6400E-01	.5159E 00	.2893E 01	.8401E 00
30	.9550E-02	-.4651E 01	-.2897E 01	-.3941E-01	.2817E 00	.4585E 01	.1331E 01
35	.6110E-02	-.5098E 01	-.2538E 01	-.2013E-01	.2210E 00	.7166E 01	.2081E 01
40	.4354E-02	-.5437E 01	-.3131E 01	-.1539E-01	.5457E-01	.1006E 02	.2921E 01
45	.3011E-02	-.5805E 01	-.2889E 01	-.9055E-02	.7255E-01	.1454E 02	.4225E 01
50	.2221E-02	-.6110E 01	-.2441E 01	-.5282E-02	.4323E-01	.1972E 02	.5729E 01
55	.1760E-02	-.6342E 01	-.2779E 01	-.4331E-02	.1089E-01	.2488E 02	.7225E 01
60	.1382E-02	-.6584E 01	-.1994E 01	-.2336E-02	.2208E-01	.3168E 02	.9200E 01
65	.1178E-02	-.6744E 01	-.2227E 01	-.2094E-02	.3721E-02	.3717E 02	.1079E 02
70	.9989E-03	-.6909E 01	-.2670E 01	-.1925E-02	.1478E-02	.4384E 02	.1273E 02
75	.8308E-03	-.7093E 01	-.2512E 01	-.1425E-02	.5730E-02	.5270E 02	.1530E 02
80	.7065E-03	-.7255E 01	-.1740E 01	-.8107E-03	.7036E-02	.6198E 02	.1800E 02
85	.6358E-03	-.7361E 01	-.2176E 01	-.8522E-03	-.4755E-03	.6887E 02	.2000E 02
90	.5614E-03	-.7485E 01	-.1155E 01	-.3895E-03	.5301E-02	.7800E 02	.2265E 02
95	.5274E-03	-.7548E 01	-.1275E 00	-.3941E-04	.4012E-02	.8302E 02	.2411E 02
100	.5240E-03	-.7554E 01	-.1176E 01	-.3347E-03	-.3384E-02	.8357E 02	.2427E 02
105	.4948E-03	-.7611E 01	-.5157E 00	-.1344E-03	.2295E-02	.8850E 02	.2570E 02
110	.4830E-03	-.7635E 01	-.9396E-01	-.2307E-04	.1278E-02	.9045E 02	.2632E 02
115	.4810E-03	-.7640E 01	-.1601E 00	-.3742E-04	-.1644E-03	.9109E 02	.2645E 02
120	.4777E-03	-.7646E 01	.1609E 01	.3718E-03	.4689E-02	.9165E 02	.2661E 02
125	.5102E-03	-.7581E 01	.1130E 01	.2650E-03	-.1225E-02	.8582E 02	.2492E 02
130	.5333E-03	-.7536E 01	.2179E 01	.5230E-03	.2966E-02	.8210E 02	.2384E 02
135	.5790E-03	-.7454E 01	.7785E 00	.1905E-03	-.3819E-02	.7562E 02	.2196E 02
140	.5957E-03	-.7426E 01	.1370E 01	.3362E-03	.1670E-02	.7351E 02	.2136E 02
145	.6250E-03	-.7378E 01	.1418E 01	.3528E-03	.1888E-03	.7006E 02	.2034E 02
150	.6558E-03	-.7330E 01	.1467E 01	.3702E-03	.1992E-03	.6677E 02	.1939E 02
155	.6881E-03	-.7282E 01	.1515E 01	.3884E-03	.2090E-03	.6363E 02	.1848E 02
160	.7220E-03	-.7233E 01	.1563E 01	.4076E-03	.2193E-03	.6065E 02	.1761E 02
165	.7576E-03	-.7185E 01	.1611E 01	.4276E-03	.2301E-03	.5780E 02	.1678E 02
170	.7949E-03	-.7137E 01	.1659E 01	.4487E-03	.2414E-03	.5509E 02	.1600E 02
175	.8340E-03	-.7089E 01	.1707E 01	.4708E-03	.2539E-03	.5250E 02	.1526E 02
180	.8751E-03	-.7041E 01	.0000E 00	.0000E 00	.0000E 00	.5003E 02	.1455E 02

SCAT= .4379E-01 30/45= .3172E 01 45/135= .5200E 01 SCAT30-130= .1272E-01

CH42/113 2315H 23164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2560E 00	-.1363E 01	-.1695E 00	-.1422E 01	.0000E 00	.1643E 00	.4835E-01
5	.1319E 00	-.2026E 01	-.8934E 00	-.6978E 00	.8300E 01	.3189E 00	.9386E-01
10	.7101E-01	-.2645E 01	-.1419E 01	-.3560E 00	.3916E 01	.5924E 00	.1743E 00
15	.3994E-01	-.3220E 01	-.1847E 01	-.1887E 00	.1917E 01	.1053E 01	.3099E 00
20	.2348E-01	-.3752E 01	-.2185E 01	-.1038E 00	.9727E 00	.1792E 01	.5273E 00
25	.1442E-01	-.4239E 01	-.2500E 01	-.6048E-01	.4965E 00	.2918E 01	.8587E 00
30	.9138E-02	-.4695E 01	-.2594E 01	-.3452E-01	.2976E 00	.4603E 01	.1368E 01
35	.6176E-02	-.5095E 01	-.2789E 01	-.2183E-01	.1454E 00	.6847E 01	.2021E 01
40	.4221E-02	-.5468E 01	-.2445E 01	-.1210E-01	.1115E 00	.9966E 01	.2933E 01
45	.3165E-02	-.5756E 01	-.2742E 01	-.9100E-02	.3440E-01	.1329E 02	.3911E 01
50	.2371E-02	-.6045E 01	-.2508E 01	-.5776E-02	.3809E-01	.1774E 02	.5221E 01
55	.1867E-02	-.6284E 01	-.2421E 01	-.4963E-02	.1963E-01	.2254E 02	.6631E 01
60	.1512E-02	-.6494E 01	-.3525E 01	-.4260E-02	-.2259E-02	.2782E 02	.8186E 01
65	.1140E-02	-.6776E 01	-.5610E 01	-.4445E-02	-.2125E-02	.3689E 02	.1085E 02
70	.7525E-03	-.7192E 01	-.1969E 01	-.1096E-02	.3898E-01	.5590E 02	.1645E 02
75	.6569E-03	-.7328E 01	-.2289E 01	-.1034E-02	.7061E-03	.6404E 02	.1884E 02
80	.5667E-03	-.7476E 01	-.7965E 00	-.3061E-03	.8340E-02	.7423E 02	.2184E 02
85	.5339E-03	-.7524E 01	-.9542E 00	-.3284E-03	-.2580E-03	.7791E 02	.2293E 02
90	.5113E-03	-.7579E 01	-.7752E 00	-.2405E-03	.1008E-02	.8227E 02	.2421E 02
95	.4903E-03	-.7670E 01	.3784E 00	.1101E-03	.4010E-02	.8580E 02	.2528E 02
100	.4999E-03	-.7601E 01	-.3491E 00	-.9674E-04	-.2370E-02	.8415E 02	.2478E 02
105	.4915E-03	-.7618E 01	.1358E 00	.3570E-04	.1518E-02	.8559E 02	.2519E 02
110	.4946E-03	-.7612E 01	-.2358E 01	-.5639E-03	-.6871E-02	.8505E 02	.2503E 02
115	.4454E-03	-.7717E 01	.6750E-01	.1468E-04	.6690E-02	.9445E 02	.2779E 02
120	.4467E-03	-.7714E 01	-.7923E 00	-.1629E-03	-.2035E-02	.9418E 02	.2772E 02
125	.4324E-03	-.7746E 01	-.5032E 00	-.9685E-04	.7580E-03	.9728E 02	.2862E 02
130	.4240E-03	-.7766E 01	.1042E 01	.1948E-03	.3543E-02	.9923E 02	.2920E 02
135	.4410E-03	-.7726E 01	-.7543E 00	-.1467E-03	-.3799E-02	.9539E 02	.2807E 02
140	.4291E-03	-.7754E 01	-.2048E 00	-.3520E-04	.1104E-02	.9804E 02	.2885E 02
145	.4260E-03	-.7761E 01	-.2119E 00	-.3495E-04	.2094E-05	.9875E 02	.2906E 02
150	.4229E-03	-.7768E 01	-.2191E 00	-.3470E-04	.2864E-05	.9946E 02	.2927E 02
155	.4199E-03	-.7775E 01	-.2263E 00	-.3445E-04	.2847E-05	.1002E 03	.2948E 02
160	.4169E-03	-.7783E 01	-.2335E 00	-.3420E-04	.2826E-05	.1009E 03	.2969E 02
165	.4139E-03	-.7790E 01	-.2407E 00	-.3396E-04	.2906E-05	.1016E 03	.2991E 02
170	.4109E-03	-.7797E 01	-.2479E 00	-.3372E-04	.2784E-05	.1024E 03	.3012E 02
175	.4080E-03	-.7804E 01	-.2551E 00	-.3347E-04	.2763E-05	.1031E 03	.3034E 02
180	.4051E-03	-.7811E 01	.0000E 00	.0000E 00	.0000E 00	.1038E 03	.3056E 02

SCAT= .4207E-01 30/45= .2887E 01 45/135= .7177E 01 SCAT30-130= .1238E-01

CH42/114 0015H 24164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.7034E 00	-.3519E 00	-.2324E 00	-.4812E 01	.0000E 00	.8461E-01	.1718E-01
5	.2834E 00	-.1261E 01	-.1204E 01	-.1838E 01	.3408E 02	.2100E 00	.4264E-01
10	.1230E 00	-.2096E 01	-.1876E 01	-.7508E 00	.1246E 02	.4838E 00	.9825E-01
15	.5749E-01	-.2856E 01	-.2386E 01	-.3272E 00	.4854E 01	.1035E 01	.2102E 00
20	.2893E-01	-.3543E 01	-.2745E 01	-.1518E 00	.2009E 01	.2057E 01	.4177E 00
25	.1568E-01	-.4155E 01	-.3031E 01	-.7631E-01	.8686E 00	.3794E 01	.7708E 00
30	.9024E-02	-.4708E 01	-.3344E 01	-.4165E-01	.3971E 00	.6595E 01	.1339E 01
35	.5389E-02	-.5223E 01	-.2661E 01	-.1847E-01	.2657E 00	.1104E 02	.2242E 01
40	.3778E-02	-.5579E 01	-.2618E 01	-.1149E-01	.7997E-01	.1575E 02	.3199E 01
45	.2775E-02	-.5887E 01	-.2665E 01	-.7785E-02	.4244E-01	.2144E 02	.4355E 01
50	.2096E-02	-.6168E 01	-.2890E 01	-.5783E-02	.2294E-01	.2839E 02	.5766E 01
55	.1591E-02	-.6443E 01	-.4467E 00	-.6951E-03	.5851E-01	.3740E 02	.7599E 01
60	.1531E-02	-.6482E 01	-.3052E 01	-.3801E-02	-.3580E-01	.3888E 02	.7896E 01
65	.1199E-02	-.6726E 01	-.3022E 01	-.2756E-02	.1198E-01	.4964E 02	.1008E 02
70	.9583E-03	-.6950E 01	-.1768E 01	-.1261E-02	.1714E-01	.6210E 02	.1262E 02
75	.8482E-03	-.7072E 01	-.2038E 01	-.1198E-02	.7194E-03	.7016E 02	.1425E 02
80	.7437E-03	-.7204E 01	-.3213E 01	-.1508E-02	-.3552E-02	.8002E 02	.1625E 02
85	.6121E-03	-.7399E 01	-.1205E 01	-.4668E-03	.1193E-01	.9723E 02	.1975E 02
90	.5713E-03	-.7468E 01	-.1666E 01	-.5640E-03	-.1114E-02	.1042E 03	.2116E 02
95	.5221E-03	-.7558E 01	.3364E 00	.1041E-03	.7656E-02	.1140E 03	.2315E 02
100	.5312E-03	-.7540E 01	.2261E 00	.6754E-04	-.4199E-03	.1120E 03	.2275E 02
105	.5371E-03	-.7529E 01	-.3459E 00	-.9825E-04	-.1900E-02	.1108E 03	.2250E 02
110	.5285E-03	-.7545E 01	-.1418E 01	-.3700E-03	-.3114E-02	.1126E 03	.2287E 02
115	.4962E-03	-.7608E 01	-.1049E 01	-.2482E-03	.1595E-02	.1199E 03	.2436E 02
120	.4746E-03	-.7653E 01	.2083E 01	.4826E-03	.8575E-02	.1254E 03	.2547E 02
125	.5167E-03	-.7568E 01	.3231E 00	.7551E-04	-.4665E-02	.1152E 03	.2339E 02
130	.5233E-03	-.7555E 01	.1518E 01	.3536E-03	.3107E-02	.1137E 03	.2310E 02
135	.5541E-03	-.7498E 01	.5042E 00	.1175E-03	-.2705E-02	.1074E 03	.2181E 02
140	.5644E-03	-.7480E 01	.9073E 00	.2092E-03	.1051E-02	.1054E 03	.2142E 02
145	.5827E-03	-.7448E 01	.9391E 00	.2160E-03	.7755E-04	.1021E 03	.2074E 02
150	.6015E-03	-.7416E 01	.9710E 00	.2230E-03	.8007E-04	.9894E 02	.2009E 02
155	.6210E-03	-.7384E 01	.1003E 01	.2302E-03	.8266E-04	.9584E 02	.1946E 02
160	.6411E-03	-.7352E 01	.1035E 01	.2376E-03	.8534E-04	.9283E 02	.1885E 02
165	.6618E-03	-.7321E 01	.1067E 01	.2453E-03	.8809E-04	.8993E 02	.1826E 02
170	.6832E-03	-.7289E 01	.1098E 01	.2533E-03	.9095E-04	.8711E 02	.1769E 02
175	.7053E-03	-.7257E 01	.1130E 01	.2615E-03	.9389E-04	.8438E 02	.1714E 02
180	.7281E-03	-.7225E 01	.0000E 00	.0000E 00	.0000E 00	.8173E 02	.1660E 02

SCAT= .5951E-01 30/45= .3252E 01 45/135= .5008E 01 SCAT30-130= .1209E-01

CH42/115 0035H 24164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2125E 00	-.1549E 01	-.1763E 00	-.1213E 01	.0000E 00	.1603E 00	.4781E-01
5	.1066E 00	-.2238E 01	-.9255E 00	-.5785E 00	.7272E 01	.3194E 00	.9408E-01
10	.5614E-01	-.2880E 01	-.1464E 01	-.2879E 00	.3530E 01	.6064E 00	.1803E 00
15	.3101E-01	-.3473E 01	-.1896E 01	-.1494E 00	.1587E 01	.1098E 01	.3263E 00
20	.1798E-01	-.4019E 01	-.2228E 01	-.8071E-01	.7870E 00	.1894E 01	.5627E 00
25	.1093E-01	-.4516E 01	-.2612E 01	-.4747E-01	.3809E 00	.3114E 01	.9257E 00
30	.6792E-02	-.4992E 01	-.2782E 01	-.2714E-01	.2329E 00	.5014E 01	.1490E 01
35	.4423E-02	-.5421E 01	-.2546E 01	-.1461E-01	.1486E 00	.7698E 01	.2287E 01
40	.3149E-02	-.5761E 01	-.2493E 01	-.9181E-02	.6219E-01	.1082E 02	.3213E 01
45	.2347E-02	-.6054E 01	-.2703E 01	-.6666E-02	.2882E-01	.1451E 02	.4310E 01
50	.1766E-02	-.6339E 01	-.2729E 01	-.4634E-02	.2328E-01	.1929E 02	.5730E 01
55	.1361E-02	-.6599E 01	-.2208E 01	-.2816E-02	.2084E-01	.2502E 02	.7432E 01
60	.1116E-02	-.6798E 01	-.2374E 01	-.2212E-02	.6915E-02	.3053E 02	.9069E 01
65	.9225E-03	-.6988E 01	-.2141E 01	-.1551E-02	.7574E-02	.3691E 02	.1097E 02
70	.7871E-03	-.7147E 01	-.2025E 01	-.1176E-02	.4300E-02	.4326E 02	.1286E 02
75	.6845E-03	-.7287E 01	-.2222E 01	-.1048E-02	.1465E-02	.4975E 02	.1478E 02
80	.5931E-03	-.7430E 01	-.1236E 01	-.4908E-03	.6385E-02	.5742E 02	.1706E 02
85	.5502E-03	-.7505E 01	-.1071E 01	-.6394E-03	-.1709E-02	.6189E 02	.1839E 02
90	.4944E-03	-.7612E 01	-.9074E 00	-.2713E-03	.4219E-02	.6887E 02	.2046E 02
95	.4708E-03	-.7661E 01	.1346E 01	.3856E-03	.7527E-02	.7234E 02	.2149E 02
100	.5044E-03	-.7592E 01	-.7369E 00	-.2041E-03	-.6760E-02	.6751E 02	.2006E 02
105	.4866E-03	-.7628E 01	.1137E 01	.3328E-03	.5809E-02	.6998E 02	.2079E 02
110	.5130E-03	-.7575E 01	-.2932E 01	-.7184E-03	-.1170E-01	.6638E 02	.1972E 02
115	.4503E-03	-.7706E 01	.7473E 00	.1668E-03	.1014E-01	.7562E 02	.2246E 02
120	.4649E-03	-.7674E 01	.1151E 01	.2563E-03	.1026E-02	.7325E 02	.2176E 02
125	.4873E-03	-.7627E 01	.8663E 00	.1930E-03	-.7262E-03	.6989E 02	.2076E 02
130	.5041E-03	-.7593E 01	.3241E 01	.7516E-03	.6402E-02	.6755E 02	.2007E 02
135	.5697E-03	-.7470E 01	.6395E 00	.1536E-03	-.6869E-02	.5977E 02	.1776E 02
140	.5831E-03	-.7447E 01	.1570E 01	.3785E-03	.2577E-02	.5840E 02	.1735E 02
145	.6161E-03	-.7392E 01	.1625E 01	.4000E-03	.2457E-03	.5527E 02	.1642E 02
150	.6510E-03	-.7337E 01	.1681E 01	.4226E-03	.2596E-03	.5231E 02	.1554E 02
155	.6879E-03	-.7282E 01	.1736E 01	.4466E-03	.2744E-03	.4950E 02	.1471E 02
160	.7269E-03	-.7227E 01	.1791E 01	.4719E-03	.2899E-03	.4685E 02	.1392E 02
165	.7681E-03	-.7172E 01	.1846E 01	.4986E-03	.3063E-03	.4434E 02	.1317E 02
170	.8116E-03	-.7117E 01	.1901E 01	.5268E-03	.3237E-03	.4196E 02	.1247E 02
175	.8575E-03	-.7061E 01	.1956E 01	.5567E-03	.3420E-03	.3971E 02	.1180E 02
180	.9061E-03	-.7006E 01	.0000E 00	.0000E 00	.0000E 00	.3758E 02	.1116E 02

SCAT= .3405E-01 30/45= .2893E 01 45/135= .4120E 01 SCAT30-130= .3012E-01

CH42/116 0045H 24164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3627E 00	-.1014E 01	-.2047E 00	-.2290E 01	.0000E 00	.1116E 00	.2583E-01
5	.1629E 00	-.1815E 01	-.1071E 01	-.9782E 00	.1509E 02	.2485E 00	.5753E-01
10	.7753E-01	-.2557E 01	-.1658E 01	-.4403E 00	.6164E 01	.5221E 00	.1209E 00
15	.3910E-01	-.3242E 01	-.2177E 01	-.2086E 00	.2655E 01	.1035E 01	.2398E 00
20	.2090E-01	-.3868E 01	-.2547E 01	-.1038E 00	.1200E 01	.1936E 01	.4483E 00
25	.1184E-01	-.4436E 01	-.2856E 01	-.5506E-01	.6589E 00	.3419E 01	.7924E 00
30	.7033E-02	-.4957E 01	-.3075E 01	-.3043E-01	.2829E 00	.5755E 01	.1332E 01
35	.4378E-02	-.5431E 01	-.3042E 01	-.1675E-01	.1987E 00	.9245E 01	.2140E 01
40	.2916E-02	-.5837E 01	-.2412E 01	-.8265E-02	.9721E-01	.1388E 02	.3213E 01
45	.2195E-02	-.6122E 01	-.3163E 01	-.7129E-02	.1302E-01	.1844E 02	.4268E 01
50	.1573E-02	-.6455E 01	-.1942E 01	-.3046E-02	.4679E-01	.2573E 02	.5987E 01
55	.1307E-02	-.6640E 01	-.3204E 01	-.3649E-02	-.4916E-02	.3096E 02	.7168E 01
60	.9886E-03	-.6919E 01	-.2105E 01	-.1909E-02	.1994E-01	.4094E 02	.9473E 01
65	.8220E-03	-.7104E 01	-.2586E 01	-.1643E-02	.3050E-02	.4923E 02	.1140E 02
70	.6787E-03	-.7295E 01	-.1862E 01	-.9376E-03	.8080E-02	.5963E 02	.1380E 02
75	.5969E-03	-.7424E 01	-.2361E 01	-.9667E-03	-.3334E-03	.6781E 02	.1570E 02
80	.5125E-03	-.7576E 01	-.2151E 01	-.7181E-03	.2848E-02	.7897E 02	.1828E 02
85	.4449E-03	-.7707E 01	-.4507E 00	-.1311E-03	.6727E-02	.8997E 02	.2083E 02
90	.4384E-03	-.7732E 01	-.8604E 00	-.2284E-03	-.1112E-02	.9232E 02	.2137E 02
95	.4185E-03	-.7779E 01	.7219E 00	.1809E-03	.4690E-02	.9671E 02	.2239E 02
100	.4343E-03	-.7742E 01	-.7526E 00	-.1794E-03	-.4129E-02	.9320E 02	.2157E 02
105	.4186E-03	-.7779E 01	.2892E 00	.6497E-04	.2801E-02	.9668E 02	.2238E 02
110	.4243E-03	-.7765E 01	-.6578E 00	-.1401E-03	-.2550E-02	.9539E 02	.2208E 02
115	.4121E-03	-.7794E 01	.1056E 01	.2171E-03	.4099E-02	.9822E 02	.2274E 02
120	.4310E-03	-.7749E 01	.1082E 01	.2231E-03	.6022E-04	.9390E 02	.2174E 02
125	.4505E-03	-.7705E 01	.2382E 01	.5054E-03	.3238E-02	.8985E 02	.2080E 02
130	.4946E-03	-.7612E 01	.2685E 01	.6044E-03	.1134E-02	.8183E 02	.1894E 02
135	.5473E-03	-.7510E 01	.1353E 01	.3163E-03	-.3302E-02	.7395E 02	.1712E 02
140	.5749E-03	-.7461E 01	.2010E 01	.4814E-03	.1892E-02	.7040E 02	.1630E 02
145	.6169E-03	-.7391E 01	.2080E 01	.5165E-03	.4050E-03	.6560E 02	.1519E 02
150	.6620E-03	-.7320E 01	.2151E 01	.5543E-03	.4525E-03	.6114E 02	.1415E 02
155	.7104E-03	-.7250E 01	.2221E 01	.5948E-03	.4441E-03	.5697E 02	.1319E 02
160	.7623E-03	-.7179E 01	.2292E 01	.6382E-03	.4988E-03	.5309E 02	.1229E 02
165	.8180E-03	-.7109E 01	.2362E 01	.6849E-03	.5344E-03	.4948E 02	.1146E 02
170	.8777E-03	-.7038E 01	.2433E 01	.7349E-03	.6734E-03	.4611E 02	.1067E 02
175	.9419E-03	-.6968E 01	.2503E 01	.7886E-03	.6159E-03	.4297E 02	.9947E 01
180	.1011E-02	-.6897E 01	.0000E 00	.0000E 00	.0000E 00	.4004E 02	.9270E 01

SCAT= .4047E-01 30/45= .3204E 01 45/135= .4011E 01 SCAT30-130= .9869E-02

CH42/117 0100H 24164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2889E 00	-.1242E 01	-.2025E 00	-.1811E 01	.0000E 00	.1177E 00	.2950E-01
5	.1308E 00	-.2034E 01	-.1056E 01	-.7763E 00	.1183E 02	.2600E 00	.6513E-01
10	.6291E-01	-.2766E 01	-.1650E 01	-.3529E 00	.4875E 01	.5406E 00	.1354E 00
15	.3212E-01	-.3438E 01	-.2129E 01	-.1606E 00	.2112E 01	.1059E 01	.2653E 00
20	.1741E-01	-.4051E 01	-.2476E 01	-.8469E-01	.9610E 00	.1953E 01	.4894E 00
25	.1002E-01	-.4603E 01	-.2773E 01	-.4556E-01	.4404E 00	.3394E 01	.8504E 00
30	.6044E-02	-.5109E 01	-.2984E 01	-.2554E-01	.2295E 00	.5627E 01	.1410E 01
35	.3815E-02	-.5569E 01	-.2715E 01	-.1330E-01	.1402E 00	.8914E 01	.2233E 01
40	.2655E-02	-.5931E 01	-.2493E 01	-.7741E-02	.6386E-01	.1281E 02	.3209E 01
45	.1979E-02	-.6225E 01	-.2712E 01	-.5637E-02	.2411E-01	.1718E 02	.4304E 01
50	.1488E-02	-.6511E 01	-.2642E 01	-.3795E-02	.2111E-01	.2286E 02	.5728E 01
55	.1156E-02	-.6762E 01	-.1978E 01	-.2096E-02	.1947E-01	.2941E 02	.7368E 01
60	.9735E-03	-.6935E 01	-.2400E 01	-.2311E-02	-.2468E-02	.3496E 02	.8759E 01
65	.7718E-03	-.7167E 01	-.2485E 01	-.1488E-02	.9451E-02	.4406E 02	.1104E 02
70	.6420E-03	-.7351E 01	-.2484E 01	-.1158E-02	.3772E-02	.5297E 02	.1327E 02
75	.5409E-03	-.7522E 01	-.1807E 01	-.6825E-03	.5494E-02	.6288E 02	.1576E 02
80	.4814E-03	-.7639E 01	-.1309E 01	-.4209E-03	.2990E-02	.7066E 02	.1770E 02
85	.4446E-03	-.7718E 01	-.8468E 00	-.2407E-03	.2004E-02	.7649E 02	.1916E 02
90	.4236E-03	-.7767E 01	-.1333E 01	-.3375E-03	-.1109E-02	.8029E 02	.2012E 02
95	.3942E-03	-.7839E 01	.6771E 00	.2079E-03	.6249E-02	.8628E 02	.2162E 02
100	.4123E-03	-.7794E 01	-.6717E 00	-.1523E-03	-.4128E-02	.8248E 02	.2067E 02
105	.3990E-03	-.7827E 01	-.1824E 00	-.3863E-04	.1308E-02	.8524E 02	.2136E 02
110	.3956E-03	-.7835E 01	-.1047E 01	-.2061E-03	-.1920E-02	.8596E 02	.2154E 02
115	.3776E-03	-.7882E 01	.1770E 00	.3284E-04	.2734E-02	.9006E 02	.2256E 02
120	.3805E-03	-.7874E 01	.1606E 01	.2954E-03	.3000E-02	.8938E 02	.2239E 02
125	.4063E-03	-.7808E 01	.1390E 01	.2608E-03	-.3959E-03	.8371E 02	.2097E 02
130	.4291E-03	-.7754E 01	.2430E 01	.8749E-03	.3599E-02	.7927E 02	.1986E 02
135	.4792E-03	-.7643E 01	.8630E 00	.1751E-03	-.4582E-02	.7097E 02	.1778E 02
140	.4945E-03	-.7612E 01	.1699E 01	.3482E-03	.1984E-02	.6878E 02	.1723E 02
145	.5249E-03	-.7552E 01	.1759E 01	.3696E-03	.2482E-03	.6479E 02	.1623E 02
150	.5571E-03	-.7493E 01	.1819E 01	.3923E-03	.2609E-03	.6106E 02	.1529E 02
155	.5914E-03	-.7433E 01	.1878E 01	.4164E-03	.2769E-03	.5751E 02	.1441E 02
160	.6277E-03	-.7373E 01	.1938E 01	.4420E-03	.2932E-03	.5418E 02	.1367E 02
165	.6663E-03	-.7314E 01	.1998E 01	.4692E-03	.3113E-03	.6104E 02	.1279E 02
170	.7072E-03	-.7254E 01	.2057E 01	.4980E-03	.3304E-03	.4808E 02	.1205E 02
175	.7507E-03	-.7195E 01	.2117E 01	.5286E-03	.3507E-03	.4530E 02	.1136E 02
180	.7968E-03	-.7135E 01	.0000E 00	.0000E 00	.0000E 00	.4268E 02	.1069E 02

SCAT= .3401E-01 30/45= .3053E 01 45/135= .4131E 01 SCAT30-130= .9820E-02

CH42/118 0115H 24164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1474E 00	-.1915E 01	-.1508E 00	-.7526E 00	.0000E 00	.2130E 00	.7001E-01
5	.8174E-01	-.2504E 01	-.8017E 00	-.3991E 00	.4050E 01	.3856E 00	.1277E 00
10	.4691E-01	-.3060E 01	-.1285E 01	-.2183E 00	.2079E 01	.6719E 00	.2228E 00
15	.2786E-01	-.3581E 01	-.1692E 01	-.1230E 00	.1092E 01	.1131E 01	.3747E 00
20	.1712E-01	-.4067E 01	-.2027E 01	-.7139E-01	.5914E 00	.1841E 01	.6098E 00
25	.1089E-01	-.4520E 01	-.2354E 01	-.4363E-01	.3181E 00	.2893E 01	.9581E 00
30	.7086E-02	-.4950E 01	-.2719E 01	-.2780E-01	.1814E 00	.4448E 01	.1473E 01
35	.4660E-02	-.5369E 01	-.2530E 01	-.1431E-01	.1432E 00	.6763E 01	.2240E 01
40	.3324E-02	-.5707E 01	-.2438E 01	-.9500E-02	.4648E-01	.9482E 01	.3140E 01
45	.2494E-02	-.5994E 01	-.3086E 01	-.7934E-02	.1805E-01	.1264E 02	.4186E 01
50	.1802E-02	-.6319E 01	-.2410E 01	-.4238E-02	.4256E-01	.1749E 02	.5793E 01
55	.1432E-02	-.6549E 01	-.2196E 01	-.2855E-02	.1505E-01	.2201E 02	.7288E 01
60	.1183E-02	-.6740E 01	-.2788E 01	-.2711E-02	.1641E-02	.2664E 02	.8823E 01
65	.9444E-03	-.6963E 01	-.2436E 01	-.1791E-02	.1064E-01	.3330E 02	.1105E 02
70	.7901E-03	-.7143E 01	-.1691E 01	-.9969E-03	.9109E-02	.3989E 02	.1321E 02
75	.7031E-03	-.7260E 01	-.2347E 01	-.1133E-02	-.1559E-02	.4483E 02	.1485E 02
80	.6043E-03	-.7412E 01	-.1810E 01	-.7197E-03	.4751E-02	.5216E 02	.1727E 02
85	.5414E-03	-.7521E 01	-.1272E 01	-.4349E-03	.3263E-02	.5821E 02	.1928E 02
90	.5035E-03	-.7594E 01	-.8300E 00	-.2532E-03	.2089E-02	.6260E 02	.2073E 02
95	.4814E-03	-.7639E 01	-.8642E-01	-.2440E-04	.2622E-02	.6547E 02	.2168E 02
100	.4793E-03	-.7643E 01	-.3969E 00	-.1053E-03	-.9773E-03	.6576E 02	.2178E 02
105	.4701E-03	-.7663E 01	.1737E 00	.4350E-04	.1706E-02	.6705E 02	.2220E 02
110	.4739E-03	-.7655E 01	-.1524E 01	-.3556E-03	-.4574E-02	.6651E 02	.2203E 02
115	.4428E-03	-.7722E 01	.1014E 01	.2238E-03	.6639E-02	.7117E 02	.2357E 02
120	.4624E-03	-.7679E 01	.1529E 01	.3413E-03	.1347E-02	.6816E 02	.2257E 02
125	.4922E-03	-.7617E 01	.1330E 01	.3021E-03	-.4497E-03	.6404E 02	.2121E 02
130	.5185E-03	-.7565E 01	.1894E 01	.4402E-03	.1589E-02	.6078E 02	.2013E 02
135	.5569E-03	-.7493E 01	.1407E 01	.3350E-03	-.1208E-02	.5659E 02	.1874E 02
140	.5862E-03	-.7442E 01	.1633E 01	.3961E-03	.7009E-03	.5377E 02	.1781E 02
145	.6207E-03	-.7385E 01	.1690E 01	.4194E-03	.2674E-03	.5077E 02	.1682E 02
150	.6573E-03	-.7327E 01	.1747E 01	.4442E-03	.2834E-03	.4795E 02	.1588E 02
155	.6961E-03	-.7270E 01	.1805E 01	.4704E-03	.3001E-03	.4528E 02	.1499E 02
160	.7371E-03	-.7213E 01	.1862E 01	.4981E-03	.3178E-03	.4276E 02	.1416E 02
165	.7806E-03	-.7155E 01	.1919E 01	.5275E-03	.3366E-03	.4038E 02	.1337E 02
170	.8266E-03	-.7098E 01	.1977E 01	.5586E-03	.3564E-03	.3815E 02	.1263E 02
175	.8754E-03	-.7041E 01	.2034E 01	.5915E-03	.3775E-03	.3600E 02	.1192E 02
180	.9270E-03	-.6984E 01	.0000E 00	.0000E 00	.0000E 00	.3400E 02	.1120E 02

SCAT= .3152E-01 30/45= .2841E 01 45/135= .4479E 01 SCAT30-130= .1064E-01

CH42/119 0130H 24164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3052E 00	-.1187E 01	-.1404E 00	-.1771E 01	.0000E 00	.1477E 00	.4163E-01
5	.1507E 00	-.1892E 01	-.9470E 00	-.8312E 00	.1077E 02	.2991E 00	.8430E-01
10	.7818E-01	-.2549E 01	-.1497E 01	-.4077E 00	.4864E 01	.5767E 00	.1628E 00
15	.4260E-01	-.3156E 01	-.1939E 01	-.2087E 00	.2780E 01	.1058E 01	.2983E 00
20	.2438E-01	-.3714E 01	-.2279E 01	-.1114E 00	.1115E 01	.1849E 01	.5211E 00
25	.1466E-01	-.4222E 01	-.2595E 01	-.6334E-01	.5587E 00	.3075E 01	.8666E 00
30	.9135E-02	-.4696E 01	-.2767E 01	-.3635E-01	.5099E 00	.4935E 01	.1391E 01
35	.5963E-02	-.5122E 01	-.2692E 01	-.2063E-01	.1801E 00	.7560E 01	.2131E 01
40	.4162E-02	-.5482E 01	-.2567E 01	-.1244E-01	.9383E-01	.1083E 02	.3053E 01
45	.3076E-02	-.5784E 01	-.2697E 01	-.8720E-02	.4268E-01	.1466E 02	.4130E 01
50	.2315E-02	-.6068E 01	-.2823E 01	-.6260E-02	.2820E-01	.1947E 02	.5488E 01
55	.1769E-02	-.6337E 01	-.2031E 01	-.3284E-02	.3410E-01	.2548E 02	.7182E 01
60	.1483E-02	-.6514E 01	-.2727E 01	-.3311E-02	-.5430E-03	.3041E 02	.8570E 01
65	.1192E-02	-.6732E 01	-.2658E 01	-.2442E-02	.1029E-01	.3783E 02	.1066E 02
70	.9787E-03	-.6929E 01	-.2613E 01	-.1850E-02	.6787E-02	.4606E 02	.1298E 02
75	.8173E-03	-.7109E 01	-.1951E 01	-.1108E-02	.8497E-02	.5516E 02	.1556E 02
80	.7206E-03	-.7235E 01	-.2219E 01	-.1039E-02	.7894E-03	.6256E 02	.1763E 02
85	.6299E-03	-.7370E 01	-.1634E 01	-.6434E-03	.4657E-02	.7157E 02	.2017E 02
90	.5737E-03	-.7463E 01	-.7833E 00	-.2726E-03	.4250E-02	.7858E 02	.2216E 02
95	.5499E-03	-.7506E 01	-.1134E 01	-.3560E-03	-.9566E-03	.8198E 02	.2310E 02
100	.5189E-03	-.7564E 01	-.4800E-01	-.1391E-04	.3928E-02	.8688E 02	.2449E 02
105	.5177E-03	-.7566E 01	-.8368E 00	-.2265E-03	-.2436E-02	.8709E 02	.2484E 02
110	.4979E-03	-.7605E 01	-.2089E 00	-.5275E-04	.1991E-02	.9054E 02	.2553E 02
115	.4933E-03	-.7614E 01	-.1116E 00	-.2679E-04	.2974E-03	.9139E 02	.2576E 02
120	.4910E-03	-.7619E 01	.5195E 00	.1206E-03	.1609E-02	.9182E 02	.2588E 02
125	.5015E-03	-.7598E 01	.5792E 00	.1320E-03	.1311E-03	.8990E 02	.2534E 02
130	.5130E-03	-.7575E 01	.1914E 01	.4404E-03	.3699E-02	.8788E 02	.2477E 02
135	.5514E-03	-.7503E 01	.4684E-01	.1538E-04	-.4870E-02	.8175E 02	.2304E 02
140	.5528E-03	-.7501E 01	.7600E 00	.1712E-03	.1780E-02	.8156E 02	.2299E 02
145	.5677E-03	-.7474E 01	.7867E 00	.1758E-03	.6383E-04	.7941E 02	.2238E 02
150	.5831E-03	-.7447E 01	.8134E 00	.1806E-03	.6446E-04	.7732E 02	.2179E 02
155	.5988E-03	-.7421E 01	.8401E 00	.1855E-03	.5599E-04	.7528E 02	.2122E 02
160	.6150E-03	-.7394E 01	.8667E 00	.1905E-03	.5745E-04	.7330E 02	.2066E 02
165	.6316E-03	-.7367E 01	.8934E 00	.1956E-03	.5901E-04	.7137E 02	.2012E 02
170	.6487E-03	-.7341E 01	.9201E 00	.2009E-03	.6059E-04	.6950E 02	.1959E 02
175	.6662E-03	-.7314E 01	.9468E 00	.2064E-03	.6224E-04	.6767E 02	.1907E 02
180	.6842E-03	-.7287E 01	.0000E 00	.0000E 00	.0000E 00	.6589E 02	.1857E 02

SCAT= .4508E-01 30/45= .2969E 01 45/135= .5579E 01 SCAT30-130= .1271E-01

CH42/120 0140H 24164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3468E 00	-.1059E 01	-.1635E 00	-.1877E 01	.0000E 00	.1737E 00	.5159E-01
5	.1830E 00	-.1699E 01	-.8657E 00	-.9460E 00	.1067E 02	.3292E 00	.9779E-01
10	.1004E 00	-.2299E 01	-.1383E 01	-.4938E 00	.5182E 01	.5999E 00	.1782E 00
15	.5731E-01	-.2859E 01	-.1812E 01	-.2668E 00	.2601E 01	.1051E 01	.3122E 00
20	.3403E-01	-.3380E 01	-.2159E 01	-.1491E 00	.1349E 01	.1770E 01	.5257E 00
25	.2102E-01	-.3862E 01	-.2529E 01	-.8899E-01	.6889E 00	.2865E 01	.8511E 00
30	.1325E-01	-.4323E 01	-.7586E 01	-.4994E-01	.4475E 00	.4544E 01	.1350E 01
35	.8897E-02	-.4722E 01	-.2805E 01	-.3185E-01	.2079E 00	.6770E 01	.2021E 01
40	.6117E-02	-.5097E 01	-.2730E 01	-.1928E-01	.1441E 00	.9846E 01	.2928E 01
45	.4635E-02	-.5418E 01	-.2737E 01	-.1271E-01	.7521E-01	.1350E 02	.4034E 01
50	.3326E-02	-.5706E 01	-.2653E 01	-.8514E-02	.4011E-01	.1811E 02	.5379E 01
55	.2583E-02	-.5959E 01	-.3097E 01	-.6991E-02	.1748E-01	.2332E 02	.6927E 01
60	.1973E-02	-.6228E 01	-.2209E 01	-.3778E-02	.3683E-01	.3053E 02	.9068E 01
65	.1643E-02	-.6411E 01	-.2732E 01	-.3451E-02	.3741E-02	.3666E 02	.1089E 02
70	.1342E-02	-.6614E 01	-.2686E 01	-.2601E-02	.9740E-02	.4488E 02	.1333E 02
75	.1115E-02	-.6799E 01	-.1835E 01	-.1427E-02	.1346E-01	.5402E 02	.1605E 02
80	.9903E-03	-.6917E 01	-.2448E 01	-.1565E-02	-.1580E-02	.6082E 02	.1807E 02
85	.8537E-03	-.7066E 01	-.1683E 01	-.8971E-03	.7689E-02	.7055E 02	.2096E 02
90	.7755E-03	-.7162E 01	-.1107E 01	-.5164E-03	.4583E-02	.7767E 02	.2307E 02
95	.7304E-03	-.7227E 01	-.1030E 01	-.4308E-03	.9811E-03	.8246E 02	.2449E 02
100	.6928E-03	-.7275E 01	-.1281E 01	-.4809E-03	-.5743E-03	.8693E 02	.2582E 02
105	.6508E-03	-.7337E 01	-.4003E 00	-.1376E-03	.3984E-02	.9254E 02	.2749E 02
110	.6388E-03	-.7356E 01	-.8994E 00	-.2869E-03	-.1711E-02	.9428E 02	.2801E 02
115	.6138E-03	-.7396E 01	-.4360E 00	-.1293E-03	.1806E-02	.9812E 02	.2915E 02
120	.6025E-03	-.7414E 01	-.5656E 00	-.1576E-03	-.3289E-03	.9996E 02	.2969E 02
125	.5888E-03	-.7437E 01	.7064E 00	.1895E-03	.3970E-02	.1029E 03	.3089E 02
130	.6053E-03	-.7410E 01	.1710E 01	.4623E-03	.3128E-02	.9950E 02	.2958E 02
135	.6456E-03	-.7345E 01	-.6120E 00	-.1628E-03	-.7189E-02	.9328E 02	.2772E 02
140	.6314E-03	-.7368E 01	.3013E 00	.7692E-04	.2747E-02	.9538E 02	.2833E 02
145	.6381E-03	-.7357E 01	.3119E 00	.7773E-04	.9865E-05	.9430E 02	.2804E 02
150	.6449E-03	-.7346E 01	.3225E 00	.7856E-04	.9674E-05	.9339E 02	.2774E 02
155	.6518E-03	-.7336E 01	.3331E 00	.7939E-04	.9588E-05	.9241E 02	.2746E 02
160	.6587E-03	-.7325E 01	.3436E 00	.8024E-04	.9677E-05	.9143E 02	.2716E 02
165	.6657E-03	-.7315E 01	.3542E 00	.8109E-04	.9789E-05	.9047E 02	.2687E 02
170	.6728E-03	-.7304E 01	.3648E 00	.8195E-04	.9889E-05	.8952E 02	.2659E 02
175	.6799E-03	-.7294E 01	.3754E 00	.8282E-04	.9972E-05	.8858E 02	.2631E 02
180	.6872E-03	-.7283E 01	.0000E 00	.0000E 00	.0000E 00	.8765E 02	.2604E 02

SCAT= .6023E-01 30/45= .2988E 01 45/135= .6869E 01 SCAT30-130= .1789E-01

CH42/121 1930H 24164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.7615E 00	-.2725E 00	-.2168E 00	-.4988E 01	.0000E 00	.9708E-01	.2091E-01
5	.3262E 00	-.1120E 01	-.1129E 01	-.2029E 01	.3391E 02	.2266E 00	.4881E-01
10	.1491E 00	-.1903E 01	-.1769E 01	-.8749E 00	.1328E 02	.4957E 00	.1067E 00
15	.7279E-01	-.2620E 01	-.2266E 01	-.3996E 00	.5447E 01	.1016E 01	.2187E 00
20	.3792E-01	-.3272E 01	-.2629E 01	-.1929E 00	.2368E 01	.1949E 01	.4198E 00
25	.2109E-01	-.3859E 01	-.2843E 01	-.9830E-01	.1084E 01	.3505E 01	.7548E 00
30	.1251E-01	-.4381E 01	-.3126E 01	-.5482E-01	.4981E 00	.5908E 01	.1272E 01
35	.7729E-02	-.4863E 01	-.2822E 01	-.2781E-01	.3096E 00	.9564E 01	.2060E 01
40	.5303E-02	-.5240E 01	-.2660E 01	-.1634E-01	.1314E 00	.1394E 02	.3002E 01
45	.3876E-02	-.5553E 01	-.2715E 01	-.1105E-01	.6067E-01	.1907E 02	.4107E 01
50	.2912E-02	-.5839E 01	-.2695E 01	-.7559E-02	.4002E-01	.2539E 02	.5467E 01
55	.2252E-02	-.6096E 01	-.2928E 01	-.5805E-02	.2009E-01	.3282E 02	.7068E 01
60	.1746E-02	-.6351E 01	-.2209E 01	-.3242E-02	.2998E-01	.4235E 02	.9119E 01
65	.1463E-02	-.6527E 01	-.2734E 01	-.3074E-02	.1927E-02	.5054E 02	.1088E 02
70	.1195E-02	-.6730E 01	-.1940E 01	-.1715E-02	.1557E-01	.6189E 02	.1333E 02
75	.1045E-02	-.6864E 01	-.2609E 01	-.1908E-02	-.2210E-02	.7075E 02	.1524E 02
80	.8784E-03	-.7037E 01	-.2769E 01	-.1555E-02	.4098E-02	.8416E 02	.1812E 02
85	.7427E-03	-.7205E 01	-.1812E 01	-.8374E-03	.8227E-02	.9954E 02	.2144E 02
90	.6696E-03	-.7309E 01	-.9651E 00	-.3901E-03	.5126E-02	.1104E 03	.2377E 02
95	.6355E-03	-.7361E 01	-.3305E 00	-.1224E-03	.3008E-02	.1163E 03	.2506E 02
100	.6249E-03	-.7378E 01	-.6191E 00	-.2130E-03	-.1089E-02	.1183E 03	.2548E 02
105	.6063E-03	-.7408E 01	-.5361E 00	-.1711E-03	.4808E-03	[illegible]	.2620E 02
110	.5913E-03	-.7433E 01	-.5701E 00	-.1719E-03	-.9129E-05	.1250E 03	.2692E 02
115	.5763E-03	-.7459E 01	.2185E 00	.6169E-04	.2677E-02	.1283E 03	.2762E 02
120	.5817E-03	-.7450E 01	.7524E 00	.2079E-03	.1670E-02	.1271E 03	.2737E 02
125	.5999E-03	-.7419E 01	.5099E-01	.1617E-04	-.2197E-02	.1232E 03	.2654E 02
130	.6013E-03	-.7416E 01	[illegible]	.4552E-03	.5091E-02	.1229E 03	.2648E 02
135	.6410E-03	-.7352E 01	.2246E 00	.6132E-04	-.4613E-02	.1153E 03	.2483E 02
140	.6464E-03	-.7344E 01	.7001E 00	.1842E-03	.1400E-02	.1144E 03	.2463E 02
145	.6624E-03	-.7320E 01	.7247E 00	.1888E-03	.5260E-04	.1116E 03	.2404E 02
150	.6789E-03	-.7295E 01	.7492E 00	.1935E-03	.5580E-04	.1089E 03	.2346E 02
155	.6958E-03	-.7270E 01	.7738E 00	.1983E-03	.5525E-04	.1062E 03	.2288E 02
160	.7131E-03	-.7246E 01	.7984E 00	.2032E-03	.5662E-04	.1037E 03	.2232E 02
165	.7308E-03	-.7221E 01	.8229E 00	.2083E-03	.5792E-04	.1012E 03	.2178E 02
170	.7490E-03	-.7197E 01	.8475E 00	.2135E-03	.5938E-04	.9870E 02	.2125E 02
175	.7676E-03	-.7172E 01	.8721E 00	.2188E-03	.6085E-04	.9630E 02	.2074E 02
180	.7867E-03	-.7148E 01	.0000E 00	.0000E 00	.0000E 00	.9397E 02	.2023E 02

SCAT= .7392E-01 30/45= .3228E 01 45/135= .6047E 01 SCAT30-130= .1492E-01

CH42/122 2100H 24164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3686E 00	-.9452E 00	-.2032E 00	-.2441E 01	.0000E 00	.1092E 00	.2425E-01
5	.1756E 00	-.1740E 01	-.1066E 01	-.1051E 01	.1594E 02	.2417E 00	.5367E-01
10	.8387E-01	-.2479E 01	-.1684E 01	-.4756E 00	.6591E 01	.5061E 00	.1124E 00
15	.4236E-01	-.3161E 01	-.2180E 01	-.2242E 00	.2858E 01	.1002E 01	.2224E 00
20	.2263E-01	-.3789E 01	-.2560E 01	-.1128E 00	.1298E 01	.1876E 01	.4164E 00
25	.1278E-01	-.4360E 01	-.3003E 01	-.6176E-01	.5854E 00	.3321E 01	.7372E 00
30	.7392E-02	-.4907E 01	-.2986E 01	-.3125E-01	.3496E 00	.5741E 01	.1275E 01
35	.4665E-02	-.5368E 01	-.2911E 01	-.1722E-01	.1600E 00	.9097E 01	.2020E 01
40	.3163E-02	-.5756E 01	-.3322E 01	-.1173E-01	.6280E-01	.1342E 02	.2979E 01
45	.2139E-02	-.6147E 01	-.2509E 01	-.5893E-02	.6929E-01	.1984E 02	.4406E 01
50	.1642E-02	-.6412E 01	-.2607E 01	-.4140E-02	.1780E-01	.2585E 02	.5739E 01
55	.1281E-02	-.6660E 01	-.7565E 01	-.2936E-02	.1380E-01	.3314E 02	.7356E 01
60	.1025E-02	-.6884E 01	-.2522E 01	-.2146E-02	.9049E-02	.4149E 02	.9198E 01
65	.8372E-03	-.7085E 01	-.2335E 01	-.1525E-02	.7124E-02	.5069E 02	.1128E 02
70	.7042E-03	-.7258E 01	-.2777E 01	-.1407E-02	.1591E-02	.6027E 02	.1338E 02
75	.5614E-03	-.7450E 01	-.2380E 01	-.9487E-03	.5240E-02	.7300E 02	.1621E 02
80	.4986E-03	-.7604E 01	-.1838E 01	-.6026E-03	.3966E-02	.9512E 02	.1890E 02
85	.4460E-03	-.7715E 01	-.1192E 01	-.3366E-03	.3048E-02	.9515E 02	.2115E 02
90	.4167E-03	-.7783E 01	-.1365E 01	-.3397E-03	-.3616E-04	.1019E 03	.2262E 02
95	.3870E-03	-.7857E 01	.1224E 01	.2873E-03	.7184E-02	.1097E 03	.2435E 02
100	.4121E-03	-.7794E 01	-.3398E 00	-.7764E-04	-.4182E-02	.1030E 03	.2287E 02
105	.4053E-03	-.7811E 01	-.7979E 00	-.6392E-04	.1573E-03	.1047E 03	.2325E 02
110	.3797E-03	-.7825E 01	-.1077E 01	-.2141E-03	-.1721E-02	.1062E 03	.2357E 02
115	.3811E-03	-.7873E 01	.1831E 00	.3416E-04	.2845E-02	.1114E 03	.2473E 02
120	.3840E-03	-.7865E 01	.2844E 00	.5140E-04	.1976E-03	.1105E 03	.2454E 02
125	.3885E-03	-.7853E 01	.4174E 00	.7349E-04	.2531E-03	.1092E 03	.2426E 02
130	.3949E-03	-.7837E 01	.2006E 01	.3560E-03	.3237E-02	.1075E 03	.2386E 02
135	.4260E-03	-.7761E 01	.3276E-02	.5817E-06	-.4072E-02	.9963E 02	.2212E 02
140	.4260E-03	-.7761E 01	.7151E 00	.1241E-03	.1415E-02	.9962E 02	.2212E 02
145	.4369E-03	-.7736E 01	.7402E 00	.1272E-03	.3612E-04	.9715E 02	.2157E 02
150	.4480E-03	-.7711E 01	.7653E 00	.1304E-03	.3704E-04	.9474E 02	.2104E 02
155	.4594E-03	-.7686E 01	.7904E 00	.1338E-03	.3798E-04	.9239E 02	.2051E 02
160	.4710E-03	-.7661E 01	.8155E 00	.1372E-03	.3896E-04	.9010E 02	.2002E 02
165	.4830E-03	-.7635E 01	.8406E 00	.1406E-03	.3993E-04	.8787E 02	.1951E 02
170	.4953E-03	-.7610E 01	.8657E 00	.1442E-03	.4096E-04	.8569E 02	.1903E 02
175	.5079E-03	-.7585E 01	.8908E 00	.1479E-03	.4199E-04	.8367E 02	.1855E 02
180	.5708E-03	-.7560E 01	.0000E 00	.0000E 00	.0000E 00	.8150E 02	.1809E 02

SCAT= .4244E-01 30/45= .3456E 01 45/135= .5021E 01 SCAT30-130= .9423E-02

CH42/123 2115H 24164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.4698E 00	-.7555E 00	-.1896E 00	-.2619E 01	.0000E 00	.1299E 00	.3342E-01
5	.2238E 00	-.1497E 01	-.9950E 00	-.1278E 01	.1766E 02	.2727E 00	.7016E-01
10	.1122E 00	-.2187E 01	-.1575E 01	-.6069E 00	.7699E 01	.5438E 00	.1399E 00
15	.5924E-01	-.2826E 01	-.2041E 01	-.3015E 00	.3600E 01	.1030E 01	.2649E 00
20	.3293E-01	-.3413E 01	-.2400E 01	-.1565E 00	.1661E 01	.1853E 01	.4768E 00
25	.1920E-01	-.3949E 01	-.2673E 01	-.6522E-01	.8160E 00	.3165E 01	.8141E 00
30	.1184E-01	-.4436E 01	-.3017E 01	-.6046E-01	.3989E 00	.5134E 01	.1325E 01
35	.7436E-02	-.4901E 01	-.2610E 01	-.2514E-01	.2902E 00	.8206E 01	.2110E 01
40	.5242E-02	-.5251E 01	-.2835E 01	-.1705E-01	.9266E-01	.1164E 02	.2994E 01
45	.3754E-02	-.5585E 01	-.2782E 01	-.1093E-01	.7029E-01	.1625E 02	.4180E 01
50	.2801E-02	-.5878E 01	-.2059E 01	-.5710E-02	.5971E-01	.2179E 02	.5604E 01
55	.2302E-02	-.6074E 01	-.3059E 01	-.6163E-02	-.5101E-02	.2651E 02	.6819E 01
60	.1764E-02	-.6340E 01	-.2321E 01	-.3627E-02	.3156E-01	.3460E 02	.8900E 01
65	.1465E-02	-.6526E 01	-.2219E 01	-.2565E-02	.1010E-01	.4166E 02	.1071E 02
70	.1243E-02	-.6691E 01	-.3765E 01	-.3256E-02	-.8162E-02	.4911E 02	.1263E 02
75	.9583E-03	-.6950E 01	-.8290E 00	-.6721E-03	.8077E-01	.6367E 02	.1638E 02
80	.9084E-03	-.7004E 01	-.1824E 01	-.1090E-02	-.5994E-02	.6717E 02	.1728E 02
85	.8133E-03	-.7114E 01	-.3123E 01	-.1523E-02	-.4969E-02	.7509E 02	.1900E 02
90	.6803E-03	-.7293E 01	-.5871E 00	-.2436E-03	.1467E-01	.8969E 02	.2307E 02
95	.6591E-03	-.7325E 01	-.9871E 00	-.3729E-03	-.1482E-02	.9259E 02	.2381E 02
100	.6265E-03	-.7375E 01	-.5688E 00	-.1965E-03	.2021E-02	.9740E 02	.2505E 02
105	.6094E-03	-.7403E 01	-.8748E 00	-.2785E-03	-.9992E-03	.1001E 03	.2575E 02
110	.5851E-03	-.7444E 01	-.1010E 01	-.2945E-03	-.1858E-03	.1043E 03	.2682E 02
115	.5594E-03	-.7489E 01	.8969E 00	.2494E-03	.6239E-02	.1091E 03	.2806E 02
120	.5811E-03	-.7451E 01	.1058E 01	.2938E-03	.5089E-03	.1050E 03	.2701E 02
125	.6068E-03	-.7407E 01	-.4283E 00	-.1158E-03	-.4694E-02	.1006E 03	.2588E 02
130	.5967E-03	-.7424E 01	.1747E 01	.4661E-03	.6669E-02	.1023E 03	.2630E 02
135	.6374E-03	-.7358E 01	.5488E 00	.1472E-03	-.3654E-02	.9574E 02	.2462E 02
140	.6502E-03	-.7338E 01	.8188E 00	.2172E-03	.8015E-03	.9389E 02	.2414E 02
145	.6692E-03	-.7309E 01	.8475E 00	.2235E-03	.7284E-04	.9119E 02	.2345E 02
150	.6887E-03	-.7281E 01	.8762E 00	.2300E-03	.7466E-04	.8861E 02	.2279E 02
155	.7087E-03	-.7252E 01	.9050E 00	.2367E-03	.7684E-04	.8610E 02	.2214E 02
160	.7294E-03	-.7223E 01	.9337E 00	.2436E-03	.7907E-04	.8366E 02	.2152E 02
165	.7507E-03	-.7195E 01	.9624E 00	.2507E-03	.8139E-04	.8129E 02	.2091E 02
170	.7725E-03	-.7166E 01	.9912E 00	.2580E-03	.8375E-04	.7899E 02	.2031E 02
175	.7950E-03	-.7137E 01	.1020E 01	.2656E-03	.8619E-04	.7675E 02	.1974E 02
180	.8182E-03	-.7108E 01	.0000E 00	.0000E 00	.0000E 00	.7458E 02	.1918E 02

SCAT= .6102E-01 30/45= .3154E 01 45/135= .5890E 01 SCAT30-130= .1869E-01

CH42/124 2130H 24164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.5468E 00	-.6037E 00	-.1924E 00	-.3314E 01	.0000E 00	.1252E 00	.3113E-01
5	.2576E 00	-.1356E 01	-.1010E 01	-.1486E 01	.2094E 02	.2657E 00	.6619E-01
10	.1279E 00	-.2056E 01	-.1597E 01	-.6967E 00	.9024E 01	.5351E 00	.1332E 00
15	.6696E-01	-.2704E 01	-.2068E 01	-.3440E 00	.4065E 01	.1022E 01	.2545E 00
20	.3693E-01	-.3299E 01	-.2431E 01	-.1772E 00	.1917E 01	.1854E 01	.4619E 00
25	.2147E-01	-.3841E 01	-.2701E 01	-.9568E-01	.9334E 00	.3188E 01	.7988E 00
30	.1312E-01	-.4333E 01	-.3003E 01	-.5572E-01	.4580E 00	.5217E 01	.1298E 01
35	.8260E-02	-.4796E 01	-.2764E 01	-.2921E-01	.3037E 00	.8288E 01	.2063E 01
40	.5711E-02	-.5165E 01	-.2679E 01	-.1771E-01	.1518E 00	.1199E 02	.2985E 01
45	.4165E-02	-.5481E 01	-.2900E 01	-.1257E-01	.5891E-01	.1648E 02	.4090E 01
50	.3069E-02	-.5787E 01	-.2413E 01	-.7224E-02	.6124E-01	.2231E 02	.5552E 01
55	.2438E-02	-.6017E 01	-.3042E 01	-.6497E-02	.8332E-02	.2808E 02	.6988E 01
60	.1871E-02	-.6281E 01	-.1913E 01	-.3045E-02	.3956E-01	.3658E 02	.9105E 01
65	.1605E-02	-.6434E 01	-.2857E 01	-.3510E-02	-.5336E-02	.4264E 02	.1061E 02
70	.1299E-02	-.6646E 01	-.2869E 01	-.2674E-02	.9589E-02	.5269E 02	.1311E 02
75	.1066E-02	-.6844E 01	-.2103E 01	-.1550E-02	.1287E-01	.6429E 02	.1598E 02
80	.9306E-03	-.6980E 01	-.2103E 01	-.1276E-02	.3197E-02	.7356E 02	.1831E 02
85	.8192E-03	-.7107E 01	-.1711E 01	-.8744E-03	.4608E-02	.8356E 02	.2080E 02
90	.7429E-03	-.7205E 01	-.1573E 01	-.6941E-03	.2086E-02	.9215E 02	.2295E 02
95	.6823E-03	-.7290E 01	-.2456E 00	-.9796E-04	.6832E-02	.1009E 03	.2497E 02
100	.6730E-03	-.7303E 01	-.7660E 00	-.2035E-03	-.2128E-02	.1016E 03	.2529E 02
105	.6490E-03	-.7340E 01	-.1725E 00	-.5943E-04	.2560E-02	.1059E 03	.2628E 02
110	.6439E-03	-.7348E 01	-.1825E 01	-.5748E-03	-.5905E-02	.1065E 03	.2646E 02
115	.5937E-03	-.7429E 01	.6017E 00	.1765E-03	.8600E-02	.1153E 03	.2870E 02
120	.6091E-03	-.7404E 01	.1155E 01	.3371E-03	.1846E-02	.1124E 03	.2799E 02
125	.6385E-03	-.7356E 01	.9519E 00	.2783E-03	-.6751E-03	.1072E 03	.2668E 02
130	.6628E-03	-.7319E 01	.9552E 00	.2708E-03	.5498E-05	.1033E 03	.2570E 02
135	.6871E-03	-.7283E 01	.1076E 01	.3141E-03	.6044E-03	.9963E 02	.2479E 02
140	.7145E-03	-.7244E 01	.1074E 01	.3143E-03	.2959E-05	.9580E 02	.2384E 02
145	.7420E-03	-.7206E 01	.1111E 01	.3264E-03	.1385E-03	.9226E 02	.2296E 02
150	.7705E-03	-.7169E 01	.1149E 01	.3389E-03	.1430E-03	.8885E 02	.2211E 02
155	.8000E-03	-.7131E 01	.1187E 01	.3520E-03	.1491E-03	.8557E 02	.2130E 02
160	.8308E-03	-.7093E 01	.1224E 01	.3655E-03	.1540E-03	.8240E 02	.2051E 02
165	.8626E-03	-.7056E 01	.1262E 01	.3795E-03	.1600E-03	.7936E 02	.1975E 02
170	.8958E-03	-.7018E 01	.1300E 01	.3941E-03	.1669E-03	.7642E 02	.1902E 02
175	.9302E-03	-.6980E 01	.1337E 01	.4092E-03	.1734E-03	.7360E 02	.1832E 02
180	.9659E-03	-.6942E 01	.0000E 00	.0000E 00	.0000E 00	.7088E 02	.1764E 02

SCAT= .6846E-01 30/45= .3150E 01 45/135= .6062E 01 SCAT30-130= .1704E-01

CH42/125 2140H 24164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1716E 00	-.1763E 01	-.1720E 00	-.9627E 00	.0000E 00	.1667E 00	.5038E-01
5	.8756E-01	-.2435E 01	-.9067E 00	-.4682E 00	.5667E 01	.3266E 00	.9871E-01
10	.4671E-01	-.3064E 01	-.1441E 01	-.2368E 00	.2651E 01	.6123E 00	.1850E 00
15	.2604E-01	-.3648E 01	-.1877E 01	-.1245E 00	.1207E 01	.1098E 01	.3319E 00
20	.1518E-01	-.4188E 01	-.2222E 01	-.6798E-01	.6479E 00	.1884E 01	.5696E 00
25	.9243E-02	-.4684E 01	-.2592E 01	-.3989E-01	.3219E 00	.3094E 01	.9351E 00
30	.5762E-02	-.5156E 01	-.2653E 01	-.2216E-01	.2032E 00	.4963E 01	.1500E 01
35	.3828E-02	-.5565E 01	-.2488E 01	-.1240E-01	.1119E 00	.7470E 01	.2258E 01
40	.2746E-02	-.5898E 01	-.3265E 01	-.1005E-01	.2694E-01	.1041E 02	.3147E 01
45	.1869E-02	-.6282E 01	-.2166E 01	-.4371E-02	.6505E-01	.1530E 02	.4624E 01
50	.1488E-02	-.6510E 01	-.2458E 01	-.3561E-02	.9276E-02	.1922E 02	.5809E 01
55	.1177E-02	-.6745E 01	-.2519E 01	-.2655E-02	.1030E-01	.2429E 02	.7343E 01
60	.9454E-03	-.6964E 01	-.2294E 01	-.1817E-02	.9606E-02	.3025E 02	.9142E 01
65	.7868E-03	-.7147E 01	-.2354E 01	-.1444E-02	.4281E-02	.3635E 02	.1099E 02
70	.6609E-03	-.7322E 01	-.1945E 01	-.9511E-03	.5643E-02	.4327E 02	.1308E 02
75	.5779E-03	-.7456E 01	-.1807E 01	-.7290E-03	.2545E-02	.4949E 02	.1496E 02
80	.5142E-03	-.7573E 01	-.1536E 01	-.5240E-03	.2350E-02	.5561E 02	.1681E 02
85	.4685E-03	-.7666E 01	-.1110E 01	-.3301E-03	.2222E-02	.6104E 02	.1846E 02
90	.4397E-03	-.7729E 01	-.9106E 00	-.2421E-03	.1008E-02	.6504E 02	.1966E 02
95	.4186E-03	-.7779E 01	-.1873E-01	-.4605E-05	.2721E-02	.6832E 02	.2065E 02
100	.4182E-03	-.7780E 01	.9301E 00	.2225E-03	.2602E-02	.6839E 02	.2067E 02
105	.4376E-03	-.7734E 01	-.9092E 00	-.2255E-03	-.5194E-02	.6535E 02	.1976E 02
110	.4179E-03	-.7780E 01	-.5988E 00	-.1256E-03	.1149E-02	.6843E 02	.2068E 02
115	.4069E-03	-.7807E 01	.6531E 00	.1314E-03	.2947E-02	.7027E 02	.2124E 02
120	.4184E-03	-.7779E 01	.2672E 00	.5259E-04	-.9034E-03	.6835E 02	.2066E 02
125	.4230E-03	-.7768E 01	.8805E 00	.1703E-03	.1349E-02	.6761E 02	.2043E 02
130	.4379E-03	-.7734E 01	.2025E 01	.5644E-03	.4516E-02	.6531E 02	.1974E 02
135	.4871E-03	-.7627E 01	.1926E 00	.3924E-04	-.6018E-02	.5871E 02	.1774E 02
140	.4905E-03	-.7620E 01	.1154E 01	.2324E-03	.2219E-02	.5830E 02	.1762E 02
145	.5108E-03	-.7579E 01	.1195E 01	.2420E-03	.1101E-03	.5598E 02	.1692E 02
150	.5319E-03	-.7539E 01	.1235E 01	.2520E-03	.1146E-05	.5376E 02	.1625E 02
155	.5539E-03	-.7498E 01	.1276E 01	.2624E-03	.1195E-03	.5163E 02	.1560E 02
160	.5768E-03	-.7458E 01	.1316E 01	.2732E-03	.1243E-03	.4958E 02	.1498E 02
165	.6007E-03	-.7417E 01	.1357E 01	.2845E-03	.1294E-03	.4761E 02	.1439E 02
170	.6255E-03	-.7377E 01	.1397E 01	.2963E-03	.1348E-03	.4572E 02	.1382E 02
175	.6514E-03	-.7336E 01	.1438E 01	.3085E-03	.1403E-03	.4391E 02	.1327E 02
180	.6783E-03	-.7296E 01	.0000E 00	.0000E 00	.0000E 00	.4216E 02	.1274E 02

SCAT= .2860E-01 30/45= .3082E 01 45/135= .3838E 01 SCAT30-130= .8643E-02

CH42/126 2215H 24164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
165	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
170	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
175	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
180	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SCAT= .3519E-01 30/45= .2934E 01 45/135= .4022E 01 SCAT30-130= .1072E-01

CH42/127 2255H 24164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00–155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	.5753E-03	-.7461E 01	.1338E 01	.2771E-03	.1280E-03	.5221E 02	.1523E 02
165	.5995E-03	-.7419E 01	.1379E 01	.2887E-03	.1334E-03	.5010E 02	.1461E 02
170	.6247E-03	-.7378E 01	.1420E 01	.3008E-03	.1390E-03	.4808E 02	.1402E 02
175	.6509E-03	-.7337E 01	.1461E 01	.3135E-03	.1449E-03	.4614E 02	.1346E 02
180	.6783E-03	-.7296E 01	.0000E 00	.0000E 00	.0000E 00	.4428E 02	.1292E 02

SCAT= .3004E-01 30/45= .2913E 01 45/135= .4402E 01 SCAT30-130= .8760E-02

CH42/128 2320H 24164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00–150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	.4341E-03	-.7742E 01	.1233E 01	.1985E-03	.8731E-04	.4652E 02	.1339E 02
160	.4514E-03	-.7703E 01	.1272E 01	.2065E-03	.9080E-04	.4473E 02	.1281E 02
165	.4695E-03	-.7664E 01	.1311E 01	.2147E-03	.9445E-04	.4302E 02	.1232E 02
170	.4882E-03	-.7625E 01	.1350E 01	.2233E-03	.9819E-04	.4137E 02	.1185E 02
175	.5077E-03	-.7586E 01	.1389E 01	.2322E-03	.1021E-03	.3978E 02	.1140E 02
180	.5279E-03	-.7547E 01	.0000E 00	.0000E 00	.0000E 00	.3825E 02	.1096E 02

SCAT= .2019E-01 30/45= .3023E 01 45/135= .3182E 01 SCAT30-130= .5785E-02

CH42/129 2340H 24164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00–145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	.4850E-03	-.7631E 01	.1365E 01	.2545E-03	.1277E-03	.6415E 02	.1532E 02
155	.5072E-03	-.7587E 01	.1410E 01	.2661E-03	.1355E-03	.6134E 02	.1458E 02
160	.5304E-03	-.7542E 01	.1455E 01	.2783E-03	.1396E-03	.5866E 02	.1394E 02
165	.5547E-03	-.7497E 01	.1500E 01	.2911E-03	.1460E-03	.5609E 02	.1334E 02
170	.5801E-03	-.7452E 01	.1544E 01	.3044E-03	.1527E-03	.5363E 02	.1272E 02
175	.6067E-03	-.7407E 01	.1589E 01	.3183E-03	.1597E-03	.5129E 02	.1227E 02
180	.6345E-03	-.7363E 01	.0000E 00	.0000E 00	.0000E 00	.4904E 02	.1165E 02

SCAT= .3112E-01 30/45= .3106E 01 45/135= .3806E 01 SCAT30-130= .7981E-02

CH42/130 0005H 25164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1669E 00	-.1790E 01	-.2132E 00	-.1082E 01	.0000E 00	.2135E 00	.3042E-01
5	.7249E-01	-.2624E 01	-.1104E 01	-.4443E 00	.7307E 01	.2614E 00	.7005E-01
10	.3371E-01	-.3390E 01	-.1719E 01	-.1939E 00	.2069E 01	.5621E 00	.1506E 00
15	.1679E-01	-.4087E 01	-.2184E 01	-.8978E-01	.1193E 01	.1128E 01	.3024E 00
20	.9258E-02	-.4715E 01	-.2509E 01	-.4401E-01	.5245E 00	.2115E 01	.5668E 00
25	.5118E-02	-.5275E 01	-.2409E 01	-.2351E-01	.2549E 00	.3709E 01	.9921E 00
30	.3067E-02	-.5787E 01	-.2840E 01	-.1246E-01	.1246E 00	.6180E 01	.1656E 01
35	.1979E-02	-.6225E 01	-.2544E 01	-.6537E-02	.6786E-01	.9574E 01	.2568E 01
40	.1409E-02	-.6565E 01	-.2532E 01	-.4164E-02	.2720E-01	.1345E 02	.3604E 01
45	.1046E-02	-.6863E 01	-.2084E 01	-.2362E-02	.2084E-01	.1812E 02	.4856E 01
50	.8394E-03	-.7083E 01	-.3003E 01	-.2449E-02	-.9949E-03	.2258E 02	.6049E 01
55	.6257E-03	-.7377E 01	-.1833E 01	-.1057E-02	.1594E-01	.3028E 02	.8114E 01
60	.5335E-03	-.7536E 01	-.1962E 01	-.8886E-03	.1934E-02	.3552E 02	.9518E 01
65	.4559E-03	-.7693E 01	-.2116E 01	-.7581E-03	.1495E-02	.4157E 02	.1114E 02
70	.3898E-03	-.7850E 01	-.1544E 01	-.4514E-03	.3525E-02	.4862E 02	.1303E 02
75	.3504E-03	-.7956E 01	-.1270E 01	-.3160E-03	.1552E-02	.5409E 02	.1449E 02
80	.3228E-03	-.8038E 01	-.1065E 01	-.2312E-03	.9709E-03	.5871E 02	.1573E 02
85	.3026E-03	-.8103E 01	-.1109E 01	-.2130E-03	.2092E-03	.6262E 02	.1678E 02
90	.2840E-03	-.8166E 01	-.1698E 00	-.2974E-04	.2100E-02	.6672E 02	.1788E 02
95	.2815E-03	-.8176E 01	.1928E 01	.3352E-03	.4182E-02	.6739E 02	.1806E 02
100	.3107E-03	-.8077E 01	-.1848E-01	-.3209E-05	-.3878E-02	.6099E 02	.1634E 02
105	.3104E-03	-.8078E 01	.2784E 00	.4638E-04	.5682E-03	.6105E 02	.1636E 02
110	.3145E-03	-.8065E 01	-.6982E 00	-.1101E-03	-.1793E-02	.6026E 02	.1615E 02
115	.3049E-03	-.8096E 01	.6800E 00	.1026E-03	.2437E-02	.6216E 02	.1666E 02
120	.3138E-03	-.8067E 01	.7077E 00	.1054E-03	.3244E-04	.6039E 02	.1618E 02
125	.3230E-03	-.8038E 01	.1480E 01	.2212E-03	.1326E-02	.5867E 02	.1572E 02
130	.3423E-03	-.7980E 01	.2412E 01	.3738E-03	.1749E-02	.5536E 02	.1483E 02
135	.3749E-03	-.7889E 01	.7323E 00	.1160E-03	-.2984E-02	.5055E 02	.1354E 02
140	.3850E-03	-.7862E 01	.1427E 01	.2265E-03	.1267E-02	.4922E 02	.1319E 02
145	.4048E-03	-.7812E 01	.1477E 01	.2381E-03	.1882E-03	.4681E 02	.1254E 02
150	.4256E-03	-.7762E 01	.1527E 01	.2503E-03	.1401E-03	.4453E 02	.1193E 02
155	.4474E-03	-.7712E 01	.1577E 01	.2632E-03	.1479E-03	.4235E 02	.1135E 02
160	.4704E-03	-.7662E 01	.1627E 01	.2767E-03	.1548E-03	.4029E 02	.1079E 02
165	.4946E-03	-.7612E 01	.1677E 01	.2909E-03	.1628E-03	.3832E 02	.1027E 02
170	.5199E-03	-.7562E 01	.1727E 01	.3058E-03	.1712E-03	.3645E 02	.9766E 01
175	.5466E-03	-.7512E 01	.1777E 01	.3215E-03	.1799E-03	.3467E 02	.9289E 01
180	.5747E-03	-.7462E 01	.0000E 00	.0000E 00	.0000E 00	.3298E 02	.8836E 01

SCAT= .1895E-01 30/45= .2933E 01 45/135= .2789E 01 SCAT30-130= .5078E-02

CH42/131 0025H 25164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2959E 00	-.1218E 01	-.1819E 00	-.1726E 01	.0000E 00	.1411E 00	.3753E-01
5	.1453E 00	-.1929E 01	-.9579E 00	-.8077E 00	.1065E 02	.2874E 00	.7644E-01
10	.7477E-01	-.2593E 01	-.1520E 01	-.3943E 00	.4736E 01	.5583E 00	.1485E 00
15	.4038E-01	-.3210E 01	-.1978E 01	-.2007E 00	.2219E 01	.1034E 01	.2750E 00
20	.2286E-01	-.3778E 01	-.2337E 01	-.1064E 00	.1081E 01	.1827E 01	.4860E 00
25	.1357E-01	-.4300E 01	-.2729E 01	-.6095E-01	.5212E 00	.3077E 01	.8183E 00
30	.8251E-02	-.4797E 01	-.2783E 01	-.3298E-01	.5205E 00	.5060E 01	.1346E 01
35	.5372E-02	-.5226E 01	-.2939E 01	-.1998E-01	.1498E 00	.7772E 01	.2067E 01
40	.3629E-02	-.5619E 01	-.2694E 01	-.1131E-01	.9942E-01	.1151E 02	.3060E 01
45	.2642E-02	-.5936E 01	-.2859E 01	-.7875E-02	.3993E-01	.1580E 02	.4203E 01
50	.1955E-02	-.6238E 01	-.2766E 01	-.5190E-02	.3077E-01	.2136E 02	.5681E 01
55	.1502E-02	-.6501E 01	-.2677E 01	-.3575E-02	.1851E-01	.2780E 02	.7394E 01
60	.1190E-02	-.6734E 01	-.2186E 01	-.2189E-02	.1889E-01	.3509E 02	.9334E 01
65	.9988E-03	-.6909E 01	-.2788E 01	-.2136E-02	.6012E-03	.4181E 02	.1112E 02
70	.8123E-03	-.7116E 01	-.2196E 01	-.1309E-02	.9482E-02	.5140E 02	.1367E 02
75	.6981E-03	-.7267E 01	-.1737E 01	-.8482E-03	.5277E-02	.5981E 02	.1591E 02
80	.6241E-03	-.7379E 01	-.1777E 01	-.7303E-03	.1361E-02	.6690E 02	.1779E 02
85	.5604E-03	-.7487E 01	-.1918E 01	-.6337E-03	.1107E-02	.7451E 02	.1982E 02
90	.5051E-03	-.7591E 01	-.5545E 00	-.1709E-03	.5909E-02	.8267E 02	.2199E 02
95	.4902E-03	-.7621E 01	-.4468E 00	-.1273E-03	.5085E-03	.8518E 02	.2266E 02
100	.4791E-03	-.7644E 01	-.6926E 00	-.1824E-03	-.6526E-03	.8716E 02	.2318E 02
105	.4631E-03	-.7677E 01	-.6942E 00	-.1687E-03	.1574E-03	.9015E 02	.2398E 02
110	.4484E-03	-.7710E 01	-.4391E-01	-.9928E-05	.1819E-02	.9311E 02	.2478E 02
115	.4476E-03	-.7712E 01	.3850E 00	.8473E-04	.1086E-02	.9329E 02	.2482E 02
120	.4549E-03	-.7695E 01	.1946E 00	.4158E-04	-.4945E-03	.9177E 02	.2441E 02
125	.4586E-03	-.7687E 01	.4511E 00	.9379E-04	.6985E-03	.9105E 02	.2422E 02
130	.4668E-03	-.7670E 01	.1619E 01	.3362E-03	.2777E-02	.8945E 02	.2379E 02
135	.4961E-03	-.7609E 01	.1371E 00	.2842E-04	-.3526E-02	.8416E 02	.2238E 02
140	.4986E-03	-.7604E 01	.6598E 00	.1338E-03	.1208E-02	.8374E 02	.2227E 02
145	.5103E-03	-.7581E 01	.6830E 00	.1370E-03	.5592E-04	.8183E 02	.2176E 02
150	.5222E-03	-.7557E 01	.7061E 00	.1402E-03	.3674E-04	.7995E 02	.2128E 02
155	.5344E-03	-.7534E 01	.7293E 00	.1435E-03	.3769E-04	.7812E 02	.2078E 02
160	.5470E-03	-.7511E 01	.7524E 00	.1468E-03	.3881E-04	.7634E 02	.2030E 02
165	.5598E-03	-.7488E 01	.7756E 00	.1503E-03	.3940E-04	.7459E 02	.1984E 02
170	.5729E-03	-.7465E 01	.7988E 00	.1538E-03	.4095E-04	.7288E 02	.1938E 02
175	.5863E-03	-.7442E 01	.8219E 00	.1574E-03	.4137E-04	.7121E 02	.1894E 02
180	.6000E-03	-.7419E 01	.0000E 00	.0000E 00	.0000E 00	.6958E 02	.1851E 02

SCAT= .4175E-01 30/45= .3173E 01 45/135= .5325E 01 SCAT30-130= .1110E-01

CH42/132 0045H 25164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2410E 01	.8796E 00	-.2548E 00	-.1742E 02	.0000E 00	.6491E-01	.9706E-02
5	.8897E 00	-.1169E 00	-.1321E 01	-.6114E 01	.1296E 03	.1758E 00	.2623E-01
10	.3561E 00	-.1033E 01	-.2059E 01	-.2310E 01	.4360E 02	.4393E 00	.6560E-01
15	.1546E 00	-.1867E 01	-.2620E 01	-.9376E 00	.1573E 02	.1012E 01	.1519E 00
20	.7273E-01	-.2621E 01	-.3015E 01	-.4082E 00	.6067E 01	.2151E 01	.3216E 00
25	.3711E-01	-.3294E 01	-.3311E 01	-.1927E 00	.2469E 01	.4215E 01	.6303E 00
30	.2029E-01	-.3897E 01	-.3430E 01	-.9550E-01	.1114E 01	.7708E 01	.1153E 01
35	.1196E-01	-.4426E 01	-.3111E 01	-.4659E-01	.5605E 00	.1308E 02	.1956E 01
40	.7895E-02	-.4842E 01	-.3025E 01	-.2712E-01	.2231E 00	.1982E 02	.2963E 01
45	.5528E-02	-.5198E 01	-.2618E 01	-.1527E-01	.1387E 00	.2830E 02	.4231E 01
50	.4196E-02	-.5474E 01	-.3123E 01	-.1238E-01	.3518E-01	.3729E 02	.5575E 01
55	.3115E-02	-.5771E 01	-.2153E 01	-.6609E-02	.6670E-01	.5021E 02	.7508E 01
60	.2539E-02	-.5976E 01	-.2591E 01	-.5449E-02	.1330E-01	.6162E 02	.9214E 01
65	.2063E-02	-.6184E 01	-.2967E 01	-.4667E-02	.8965E-02	.7582E 02	.1134E 02
70	.1656E-02	-.6403E 01	-.6561E 00	-.8397E-03	.4386E-01	.9447E 02	.1413E 02
75	.1583E-02	-.6449E 01	-.3587E 01	-.3748E-02	-.3352E-01	.9885E 02	.1478E 02
80	.1256E-02	-.6680E 01	-.1547E 01	-.1288E-02	.2818E-01	.1246E 03	.1863E 02
85	.1143E-02	-.6774E 01	-.1873E 01	-.1330E-02	-.4755E-03	.1369E 03	.2048E 02
90	.1027E-02	-.6881E 01	-.1569E 01	-.9570E-03	.4275E-02	.1525E 03	.2277E 02
95	.9435E-03	-.6966E 01	-.7988E 00	-.4330E-03	.6005E-02	.1658E 03	.2479E 02
100	.9057E-03	-.7007E 01	-.1966E 01	-.9030E-03	-.5586E-02	.1727E 03	.2582E 02
105	.8269E-03	-.7098E 01	.6307E-01	.2784E-04	.1067E-01	.1892E 03	.2829E 02
110	.8294E-03	-.7095E 01	-.1608E 01	-.6555E-03	-.7850E-02	.1886E 03	.2820E 02
115	.7722E-03	-.7166E 01	-.1615E-01	-.6082E-05	.7441E-02	.2026E 03	.3029E 02
120	.7716E-03	-.7167E 01	.4131E 00	.1504E-03	.1793E-02	.2027E 03	.3031E 02
125	.7848E-03	-.7150E 01	.6881E 00	.2460E-03	.1096E-02	.1993E 03	.2981E 02
130	.8062E-03	-.7123E 01	.6147E 00	.2168E-03	-.3344E-03	.1940E 03	.2902E 02
135	.8251E-03	-.7100E 01	.3542E 00	.1226E-03	-.2080E-02	.1896E 03	.2836E 02
140	.8358E-03	-.7087E 01	.5031E 00	.1706E-03	.5501E-03	.1872E 03	.2799E 02
145	.8507E-03	-.7069E 01	.5207E 00	.1736E-03	.3480E-04	.1839E 03	.2749E 02
150	.8659E-03	-.7052E 01	.5384E 00	.1767E-03	.3546E-04	.1807E 03	.2701E 02
155	.8813E-03	-.7034E 01	.5561E 00	.1798E-03	.3607E-04	.1775E 03	.2654E 02
160	.8970E-03	-.7016E 01	.5737E 00	.1831E-03	.3670E-04	.1744E 03	.2608E 02
165	.9130E-03	-.6999E 01	.5914E 00	.1863E-03	.3736E-04	.1713E 03	.2562E 02
170	.9292E-03	-.6981E 01	.6090E 00	.1897E-03	.3809E-04	.1683E 03	.2517E 02
175	.9458E-03	-.6963E 01	.6267E 00	.1930E-03	.3871E-04	.1654E 03	.2473E 02
180	.9626E-03	-.6946E 01	.0000E 00	.0000E 00	.0000E 00	.1625E 03	.2430E 02

SCAT= .1564E 00 30/45= .3671E 01 45/135= .4700E 01 SCAT30-130= .2339E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3900E 00	-.9417E 00	-.1897E 00	-.2341E 01	.0000E 00	.1275E 00	.3073E-01
5	.1857E 00	-.1684E 01	-.9981E 00	-.1063E 01	.1469E 02	.2676E 00	.6484E-01
10	.9297E-01	-.2375E 01	-.1583E 01	-.5046E 00	.6394E 01	.5346E 00	.1289E 00
15	.4894E-01	-.3017E 01	-.2056E 01	-.2504E 00	.2913E 01	.1016E 01	.2449E 00
20	.2708E-01	-.3609E 01	-.2427E 01	-.1298E 00	.1383E 01	.1835E 01	.4425E 00
25	.1576E-01	-.4150E 01	-.2088E 01	-.7393E-01	.6398E 00	.3154E 01	.7605E 00
30	.9308E-02	-.4677E 01	-.2756E 01	-.3692E-01	.4242E 00	.5340E 01	.1288E 01
35	.6086E-02	-.5102E 01	-.3063E 01	-.2341E-01	.1540E 00	.8166E 01	.1969E 01
40	.4043E-02	-.5511E 01	-.3084E 01	-.1411E-01	.1066E 00	.1229E 02	.2964E 01
45	.2812E-02	-.5874E 01	-.2555E 01	-.7708E-02	.7336E-01	.1767E 02	.4262E 01
50	.2139E-02	-.6147E 01	-.2932E 01	-.5977E-02	.1986E-01	.2323E 02	.5603E 01
55	.1618E-02	-.6427E 01	-.2737E 01	-.3928E-02	.2348E-01	.3072E 02	.7409E 01
60	.1275E-02	-.6665E 01	-.2480E 01	-.2630E-02	.1487E-01	.3898E 02	.9402E 01
65	.1045E-02	-.6863E 01	-.3205E 01	-.2533E-02	.1114E-02	.4754E 02	.1146E 02
70	.8243E-03	-.7101E 01	-.2076E 01	-.1260E-02	.1460E-01	.6029E 02	.1454E 02
75	.7143E-03	-.7244E 01	-.1918E 01	-.9531E-03	.3522E-02	.6958E 02	.1678E 02
80	.6312E-03	-.7368E 01	-.2057E 01	-.8481E-03	.1209E-02	.7874E 02	.1899E 02
85	.5572E-03	-.7493E 01	-.1602E 01	-.5588E-03	.3316E-02	.8920E 02	.2151E 02
90	.5084E-03	-.7584E 01	-.8830E 00	-.2716E-03	.3291E-02	.9776E 02	.2357E 02
95	.4847E-03	-.7632E 01	.2529E 00	.7253E-04	.3944E-02	.1025E 03	.2473E 02
100	.4910E-03	-.7619E 01	.7627E 00	.2133E-03	.1614E-02	.1012E 03	.2441E 02
105	.5096E-03	-.7582E 01	-.6498E 00	-.1739E-03	-.4437E-02	.9752E 02	.2352E 02
110	.4945E-03	-.7612E 01	-.1334E 01	-.3275E-03	-.1760E-02	.1005E 03	.2424E 02
115	.4659E-03	-.7672E 01	.2748E 00	.6325E-04	.4478E-02	.1067E 03	.2573E 02
120	.4714E-03	-.7660E 01	.1637E 01	.3734E-03	.3654E-02	.1054E 03	.2543E 02
125	.5040E-03	-.7593E 01	.1186E 01	.2750E-03	-.1127E-02	.9861E 02	.2378E 02
130	.5280E-03	-.7546E 01	.3835E 01	.9423E-03	.7647E-02	.9419E 02	.2270E 02
135	.6102E-03	-.7402E 01	.6721E 00	.1730E-03	-.8816E-02	.8145E 02	.1964E 02
140	.6253E-03	-.7377E 01	.1861E 01	.4835E-03	.3554E-02	.7948E 02	.1917E 02
145	.6675E-03	-.7312E 01	.1926E 01	.5162E-03	.3739E-03	.7446E 02	.1795E 02
150	.7126E-03	-.7247E 01	.1992E 01	.5510E-03	.3991E-03	.6975E 02	.1682E 02
155	.7606E-03	-.7181E 01	.2057E 01	.5882E-03	.4261E-03	.6534E 02	.1576E 02
160	.8120E-03	-.7116E 01	.2122E 01	.6279E-03	.4548E-03	.6121E 02	.1476E 02
165	.8668E-03	-.7051E 01	.2187E 01	.6702E-03	.4855E-03	.5734E 02	.1383E 02
170	.9253E-03	-.6985E 01	.2253E 01	.7155E-03	.5183E-03	.5372E 02	.1296E 02
175	.9877E-03	-.6920E 01	.2318E 01	.7637E-03	.5532E-03	.5032E 02	.1213E 02
180	.1054E-02	-.6855E 01	.0000E 00	.0000E 00	.0000E 00	.4714E 02	.1137E 02

SCAT= .4970E-01 30/45= .3310E 01 45/135= .4608E 01 SCAT30-130= .1198E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3754E 00	-.9797E 00	-.2700E 00	-.2483E 01	.0000E 00	.9467E-01	.2008E-01
5	.1588E 00	-.1840E 01	-.1146E 01	-.9974E 00	.1702E 02	.2239E 00	.4748E-01
10	.7172E-01	-.2635E 01	-.1797E 01	-.4253E 00	.4567E 01	.4955E 00	.1051E 00
15	.3461E-01	-.3364E 01	-.2303E 01	-.1922E 00	.2671E 01	.1027E 01	.2178E 00
20	.1784E-01	-.4026E 01	-.2673E 01	-.9187E-01	.1149E 01	.1992E 01	.4226E 00
25	.9827E-02	-.4623E 01	-.3152E 01	-.4922E-01	.4887E 00	.3617E 01	.7671E 00
30	.5532E-02	-.5197E 01	-.2759E 01	-.2196E-01	.3124E 00	.6425E 01	.1365E 01
35	.3615E-02	-.5623E 01	-.3221E 01	-.1448E-01	.8571E-01	.9832E 01	.2088E 01
40	.2351E-02	-.6053E 01	-.3062E 01	-.8157E-02	.7248E-01	.1512E 02	.3206E 01
45	.1639E-02	-.6413E 01	-.2185E 01	-.3863E-02	.4921E-01	.2168E 02	.4598E 01
50	.1302E-02	-.6644E 01	-.2825E 01	-.3523E-02	.3092E-02	.2729E 02	.5788E 01
55	.9949E-03	-.6913E 01	-.2892E 01	-.2536E-02	.1131E-01	.3573E 02	.7577E 01
60	.7736E-03	-.7164E 01	-.1668E 01	-.1100E-02	.1638E-01	.4594E 02	.9746E 01
65	.6769E-03	-.7298E 01	-.2517E 01	-.1320E-02	-.2430E-02	.5251E 02	.1114E 02
70	.5617E-03	-.7485E 01	-.2265E 01	-.9313E-03	.4458E-02	.6328E 02	.1342E 02
75	.4804E-03	-.7641E 01	-.2507E 01	-.8225E-03	.1247E-02	.7398E 02	.1569E 02
80	.4086E-03	-.7803E 01	-.8742E 00	-.2417E-03	.6655E-02	.8698E 02	.1846E 02
85	.3876E-03	-.7856E 01	-.1849E 01	-.4454E-03	-.2354E-02	.9171E 02	.1945E 02
90	.3487E-03	-.7961E 01	-.7340E 00	-.1555E-03	.3322E-02	.1019E 03	.2162E 02
95	.3351E-03	-.8001E 01	.1140E 01	.2416E-03	.4550E-02	.1061E 03	.2250E 02
100	.3562E-03	-.7940E 01	.2579E 00	.5168E-04	-.2179E-02	.9978E 02	.2116E 02
105	.3607E-03	-.7927E 01	.5013E 00	.9752E-04	.5259E-03	.9853E 02	.2090E 02
110	.3692E-03	-.7904E 01	-.1498E 01	-.2725E-03	-.4240E-02	.9626E 02	.2042E 02
115	.3454E-03	-.7971E 01	.4255E 00	.7234E-04	.3962E-02	.1029E 03	.2182E 02
120	.3518E-03	-.7953E 01	.8742E 00	.1464E-03	.6491E-03	.1010E 03	.2143E 02
125	.3645E-03	-.7917E 01	.7115E 00	.1182E-03	-.3234E-03	.9750E 02	.2068E 02
130	.3749E-03	-.7889E 01	.1872E 01	.3144E-03	.2249E-02	.9482E 02	.2011E 02
135	.4023E-03	-.7818E 01	.5701E 00	.9657E-04	-.2497E-02	.8835E 02	.1874E 02
140	.4107E-03	-.7798E 01	.1049E 01	.1765E-03	.9164E-03	.8654E 02	.1835E 02
145	.4261E-03	-.7761E 01	.1086E 01	.1832E-03	.7588E-04	.8341E 02	.1769E 02
150	.4421E-03	-.7724E 01	.1123E 01	.1900E-03	.7879E-04	.8039E 02	.1708E 02
155	.4537E-03	-.7687E 01	.1160E 01	.1972E-03	.8168E-04	.7749E 02	.1644E 02
160	.4759E-03	-.7650E 01	.1197E 01	.2046E-03	.8474E-04	.7469E 02	.1584E 02
165	.4937E-03	-.7613E 01	.1233E 01	.2122E-03	.8795E-04	.7199E 02	.1527E 02
170	.5123E-03	-.7577E 01	.1270E 01	.2202E-03	.9127E-04	.6938E 02	.1472E 02
175	.5315E-03	-.7540E 01	.1307E 01	.2284E-03	.9464E-04	.6687E 02	.1418E 02
180	.5514E-03	-.7503E 01	.0000E 00	.0000E 00	.0000E 00	.6446E 02	.1367E 02

SCAT= .3554E-01 30/45= .1374E 01 45/135= .4075E 01 SCAT30-130= .7539E-02

CH42/135 1030H 25164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
165	.7004E-03	-.7264E 01	.1281E 01	.3129E-03	.1345E-03	.7618E 02	.1753E 02
170	.7277E-03	-.7226E 01	.1319E 01	.3251E-03	.1398E-03	.7332E 02	.1688E 02
175	.7561E-03	-.7187E 01	.1358E 01	.3377E-03	.1462E-03	.7057E 02	.1624E 02
180	.7855E-03	-.7149E 01	.0000E 00	.0000E 00	.0000E 00	.6742E 02	.1563E 02

SCAT= .5336E-01 30/45= .3300E 01 45/135= .4886E 01 SCAT30-130= .2228E-01

CH42/136 1045H 25164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	.7026E-03	-.7281E 01	.7753E 00	[illegible]	[illegible]	[illegible]	[illegible]
160	.7201E-03	-.7236E 01	.8001E 00	.2057E-03	.5739E-04	.9073E 02	.2201E 02
165	.7381E-03	-.7211E 01	.8247E 00	.2108E-03	.5875E-04	.8852E 02	.2147E 02
170	.7565E-03	-.7187E 01	.8493E 00	.2161E-03	.6021E-04	.8637E 02	.2096E 02
175	.7753E-03	-.7162E 01	.8740E 00	.2215E-03	.6172E-04	.8427E 02	.2044E 02
180	.7947E-03	-.7138E 01	.0000E 00	.0000E 00	.0000E 00	.8222E 02	.1994E 02

SCAT= .6534E-01 30/45= .3229E 01 45/135= .5910E 01 SCAT30-130= .1585E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	.4836E-03	-.7634E 01	.8769E 00	.1516E-03	.4624E-04	.9107E 02	.1916E 02
165	.4968E-03	-.7607E 01	.9039E 00	.1557E-03	.4751E-04	.8944E 02	.1865E 02
170	.5104E-03	-.7580E 01	.9309E 00	.1600E-03	.4880E-04	.8786E 02	.1815E 02
175	.5244E-03	-.7553E 01	.9578E 00	.1644E-03	.5024E-04	.8632E 02	.1767E 02
180	.5387E-03	-.7526E 01	.0000E 00	.0000E 00	.0000E 00	.8482E 02	.1720E 02

SCAT= .2953E-01 30/45= .2987E 01 45/135= .5106E 01 SCAT30-130= .9267E-02

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1352E 00	-.2001E 01	-.1696E 00	-.7512E 00	.0000E 00	.1647E 00	.4744E-01
5	.6968E-01	-.2664E 01	-.8982E 00	-.3700E 00	.4368E 01	.3196E 00	.9221E-01
10	.3739E-01	-.3286E 01	-.1435E 01	-.1890E 00	.2074E 01	.5957E 00	.1717E 00
15	.2089E-01	-.3868E 01	-.1882E 01	-.1001E 00	.1019E 01	.1066E 01	.3072E 00
20	.1216E-01	-.4410E 01	-.2244E 01	-.5488E-01	.5179E 00	.1832E 01	.5279E 00
25	.7368E-02	-.4911E 01	-.2651E 01	-.3236E-01	.2581E 00	.3022E 01	.8710E 00
30	.4546E-02	-.5394E 01	-.2742E 01	-.1795E-01	.1651E 00	.4901E 01	.1412E 01
35	.2978E-02	-.5816E 01	-.2988E 01	-.1123E-01	.7704E-01	.7478E 01	.2156E 01
40	.1998E-02	-.6215E 01	-.2649E 01	-.6138E-02	.5891E-01	.1114E 02	.3212E 01
45	.1463E-02	-.6527E 01	-.3089E 01	-.4656E-02	.1698E-01	.1523E 02	.4388E 01
50	.1056E-02	-.6853E 01	-.2399E 01	-.2438E-02	.2543E-01	.2108E 02	.6075E 01
55	.8437E-03	-.7078E 01	-.2601E 01	-.2011E-02	.4887E-02	.2640E 02	.7607E 01
60	.6681E-03	-.7311E 01	-.2644E 01	-.1461E-02	.6313E-02	.3333E 02	.9608E 01
65	.5407E-03	-.7523E 01	-.1815E 01	-.7796E-03	.7803E-02	.4119E 02	.1187E 02
70	.4727E-03	-.7657E 01	-.2182E 01	-.7570E-03	.2681E-03	.4712E 02	.1358E 02
75	.4066E-03	-.7808E 01	-.1906E 01	-.5394E-03	.2494E-02	.5477E 02	.1579E 02
80	.3595E-03	-.7931E 01	-.1500E 01	-.3582E-03	.2078E-02	.6194E 02	.1785E 02
85	.3283E-03	-.8022E 01	-.1564E 01	-.3218E-03	.4174E-03	.6784E 02	.1955E 02
90	.3002E-03	-.8111E 01	.3634E 00	.6825E-04	.4469E-02	.7419E 02	.2138E 02
95	.3061E-03	-.8091E 01	.1001E 01	.2001E-03	.1511E-02	.7274E 02	.2098E 02
100	.3236E-03	-.8036E 01	-.4363E 00	-.7810E-04	-.3188E-02	.6882E 02	.1983E 02
105	.3168E-03	-.8057E 01	.7655E 00	.1316E-03	.2403E-02	.7030E 02	.2026E 02
110	.3783E-03	-.8022E 01	-.1286E 01	-.2090E-03	-.3903E-02	.6784E 02	.2070E 02
115	.3100E-03	-.8079E 01	.4879E 00	.7454E-04	.3249E-02	.7183E 02	.2028E 02
120	.3165E-03	-.8058E 01	.3325E 00	.4956E-04	-.2882E-03	.7036E 02	.2000E 02
125	.3209E-03	-.8044E 01	.1706E 01	.2545E-03	.2549E-02	.6941E 02	.1871E 02
130	.3431E-03	-.7978E 01	.5897E 00	.8847E-04	-.1908E-02	.6491E 02	.1880E 02
135	.3508E-03	-.7955E 01	.8832E 00	.1312E-03	.4898E-03	.6349E 02	.1830E 02
140	.3623E-03	-.7923E 01	.9332E 00	.1382E-03	.7998E-04	.6148E 02	.1772E 02
145	.3743E-03	-.7890E 01	.9680E 00	.1428E-03	.5272E-04	.5950E 02	.1716E 02
150	.3868E-03	-.7858E 01	.9987E 00	.1475E-03	.5447E-04	.5758E 02	.1659E 02
155	.3996E-03	-.7825E 01	.1032E 01	.1525E-03	.5629E-04	.5573E 02	.1606E 02
160	.4130E-03	-.7792E 01	.1064E 01	.1575E-03	.5816E-04	.5393E 02	.1554E 02
165	.4267E-03	-.7759E 01	.1097E 01	.1628E-03	.6010E-04	.5219E 02	.1504E 02
170	.4409E-03	-.7727E 01	.1130E 01	.1682E-03	.6210E-04	.5051E 02	.1456E 02
175	.4556E-03	-.7694E 01	.1163E 01	.1738E-03	.6418E-04	.4888E 02	.1409E 02
180	.4708E-03	-.7661E 01	.0000E 00	.0000E 00	.0000E 00	.4731E 02	.1365E 02

SCAT= .2227E-01 30/45= .3107E 01 45/135= .4170E 01 SCAT30-130= .6418E-02

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2230E 00	-.1501E 01	-.1671E 00	-.1226E 01	.0000E 00	.1664E 00	.4782E-01
5	.1160E 00	-.2154E 01	-.8858E 00	-.6099E 00	.7069E 01	.3198E 00	.9192E-01
10	.6279E-01	-.2768E 01	-.1417E 01	-.3144E 00	.3307E 01	.5909E 00	.1698E 00
15	.3535E-01	-.3342E 01	-.1860E 01	-.1678E 00	.1680E 01	.1050E 01	.3017E 00
20	.2070E-01	-.3877E 01	-.2220E 01	-.9270E-01	.8820E 00	.1792E 01	.5151E 00
25	[illegible]	-.4373E 01	-.2610E 01	-.5473E-01	.4351E 00	.2941E 01	.8453E 00
30	.7939E-02	-.4849E 01	-.2791E 01	-.3141E-01	.2679E 00	.4739E 01	.1360E 01
35	.5098E-02	-.5279E 01	-.2803E 01	-.1924E-01	.1504E 00	.7277E 01	.2092E 01
40	.3507E-02	-.5653E 01	-.2818E 01	-.1135E-01	.7899E-01	.1058E 02	.3041E 01
45	.2516E-02	-.5985E 01	-.2984E 01	-.7779E-02	.4093E-01	.1475E 02	.4238E 01
50	.1837E-02	-.6299E 01	-.2407E 01	-.4316E-02	.3968E-01	.2019E 02	.5804E 01
55	.1461E-02	-.6529E 01	-.2399E 01	-.3154E-02	.1332E-01	.2540E 02	.7301E 01
60	.1185E-02	-.6738E 01	-.2552E 01	-.2510E-02	.7377E-02	.3130E 02	.8996E 01
65	.9664E-03	-.6942E 01	-.2318E 01	-.1748E-02	.8750E-02	.3839E 02	.1104E 02
70	.8138E-03	-.7114E 01	-.2571E 01	-.1516E-02	.2662E-02	.4559E 02	.1310E 02
75	.6816E-03	-.7291E 01	-.2452E 01	-.1143E-02	.4268E-02	.5444E 02	.1565E 02
80	.5818E-03	-.7449E 01	-.1799E 01	-.6876E-03	.5221E-02	.6377E 02	.1833E 02
85	.5218E-03	-.7558E 01	-.1061E 01	-.3518E-03	.3849E-02	.7110E 02	.2044E 02
90	.4911E-03	-.7619E 01	-.5179E 00	-.1554E-03	.2280E-02	.7555E 02	.2172E 02
95	.4775E-03	-.7647E 01	-.4365E 00	-.1212E-03	.5924E-03	.7769E 02	.2233E 02
100	.4670E-03	-.7669E 01	-.7853E 00	-.2011E-03	-.9165E-03	.7945E 02	.2284E 02
105	.4494E-03	-.7708E 01	.1314E 00	.3159E-04	.2667E-02	.8256E 02	.2370E 02
110	.4522E-03	-.7701E 01	-.1099E 01	-.2471E-03	-.3194E-02	.8205E 02	.2358E 02
115	.4306E-03	-.7750E 01	.8099E-01	.1704E-04	.3027E-02	.8616E 02	.2477E 02
120	.4321E-03	-.7747E 01	.2545E 00	.5170E-04	.3972E-03	.8586E 02	.2468E 02
125	.4366E-03	-.7736E 01	.1656E 01	.3357E-03	.3265E-02	.8498E 02	.2445E 02
130	.4659E-03	-.7672E 01	.4247E 00	.8626E-04	-.2859E-02	.7963E 02	.2289E 02
135	.4734E-03	-.7656E 01	.6665E 00	.1331E-03	.5360E-03	.7837E 02	.2253E 02
140	.4850E-03	-.7631E 01	.7550E 00	.1492E-03	.1847E-03	.7649E 02	.2198E 02
145	.4981E-03	-.7605E 01	.7815E 00	.1532E-03	.4691E-04	.7449E 02	.2141E 02
150	.5114E-03	-.7578E 01	.8080E 00	.1573E-03	.4713E-04	.7284E 02	.2086E 02
155	.5252E-03	-.7552E 01	.8345E 00	.1616E-03	.4841E-04	.7065E 02	.2032E 02
160	.5393E-03	-.7525E 01	.8610E 00	.1659E-03	.4970E-04	.6880E 02	.1978E 02
165	.5537E-03	-.7499E 01	.8875E 00	.1704E-03	.5105E-04	.6700E 02	.1926E 02
170	.5686E-03	-.7472E 01	.9140E 00	.1749E-03	.5241E-04	.6529E 02	.1875E 02
175	.5839E-03	-.7446E 01	.9404E 00	.1796E-03	.5382E-04	.6354E 02	.1826E 02
180	.5995E-03	-.7419E 01	.0000E 00	.0000E 00	.0000E 00	.6188E 02	.1779E 02

SCAT= .3710E-01 30/45= .3116E 01 45/135= .5315E 01 SCAT30-130= .1066E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3170E 00	-.1149E 01	-.1993E 00	-.1967E 01	.0000E 00	.1177E 00	.2863E-01
5	.1454E 00	-.1928E 01	-.1044E 01	-.8583E 00	.1270E 02	.2667E 00	.6243E-01
10	.7050E-01	-.2652E 01	-.1648E 01	-.3937E 00	.5524E 01	.5295E 00	.1288E 00
15	.3614E-01	-.3320E 01	-.2129E 01	-.1897E 00	.2538E 01	.1033E 01	.2512E 00
20	.1958E-01	-.3933E 01	-.2496E 01	-.9583E-01	.1076E 01	.1906E 01	.4636E 00
25	.1122E-01	-.4490E 01	-.2855E 01	-.5219E-01	.5002E 00	.3927E 01	.8090E 00
30	.6667E-02	-.5011E 01	-.2876E 01	-.2736E-01	.2844E 00	.5599E 01	.1362E 01
35	.4279E-02	-.5454E 01	-.2850E 01	-.1552E-01	.1387E 00	.8723E 01	.2121E 01
40	.2925E-02	-.5834E 01	-.3117E 01	-.1030E-01	.5902E-01	.1276E 02	.3103E 01
45	.2026E-02	-.6202E 01	-.2430E 01	-.5244E-02	.5795E-01	.1842E 02	.4480E 01
50	.1569E-02	-.6458E 01	-.2818E 01	-.4234E-02	.1157E-01	.2380E 02	.5787E 01
55	.1199E-02	-.6726E 01	-.2163E 01	-.2357E-02	.2151E-01	.3113E 02	.7572E 01
60	.9934E-03	-.6914E 01	-.3068E 01	-.2479E-02	-.1902E-02	.3758E 02	.9138E 01
65	.7771E-03	-.7160E 01	-.1590E 01	-.9896E-03	.1706E-01	.4804E 02	.1168E 02
70	.6907E-03	-.7278E 01	-.2446E 01	-.1229E-02	-.2743E-02	.5405E 02	.1314E 02
75	.5834E-03	-.7447E 01	-.1776E 01	-.7240E-03	.5787E-02	.6398E 02	.1556E 02
80	.5203E-03	-.7561E 01	-.1942E 01	-.6623E-03	.7068E-03	.7175E 02	.1744E 02
85	.4625E-03	-.7679E 01	-.1185E 01	-.3471E-03	.3612E-04	.8072E 02	.1963E 02
90	.4322E-03	-.7747E 01	-.5797E 00	-.1528E-03	.2227E-02	.8638E 02	.2100E 02
95	.4188E-03	-.7778E 01	.6061E 00	.2026E-03	.4075E-02	.8913E 02	.2167E 02
100	.4365E-03	-.7737E 01	-.6777E 00	-.1627E-03	-.4186E-02	.8552E 02	.2080E 02
105	.4273E-03	-.7770E 01	-.1880E 00	-.4213E-04	.1382E-02	.8839E 02	.2149E 02
110	.4187E-03	-.7778E 01	-.8316E 00	-.1741E-03	-.1512E-02	.8917E 02	.2168E 02
115	.4035E-03	-.7815E 01	.1590E 00	.3139E-04	.2596E-02	.9253E 02	.2250E 02
120	.4062E-03	-.7809E 01	.6576E 00	.1266E-03	.1091E-02	.9190E 02	.2236E 02
125	.4173E-03	-.7782E 01	.5624E 00	.1066E-03	-.2293E-03	.8947E 02	.2178E 02
130	.4266E-03	-.7760E 01	.2399E 01	.4632E-03	.4086E-02	.8752E 02	.2128E 02
135	.4670E-03	-.7669E 01	.1659E 00	.3239E-04	-.4937E-02	.7994E 02	.1944E 02
140	.4698E-03	-.7663E 01	.9725E 00	.1869E-03	.1770E-02	.7944E 02	.1932E 02
145	.4861E-03	-.7629E 01	.1007E 01	.1934E-03	.7495E-04	.7679E 02	.1867E 02
150	.5030E-03	-.7595E 01	.1041E 01	.2001E-03	.7692E-04	.7422E 02	.1805E 02
155	.5205E-03	-.7561E 01	.1075E 01	.2070E-03	.7960E-04	.7173E 02	.1744E 02
160	.5385E-03	-.7527E 01	.1109E 01	.2142E-03	.8237E-04	.6932E 02	.1686E 02
165	.5572E-03	-.7493E 01	.1143E 01	.2217E-03	.8521E-04	.6699E 02	.1629E 02
170	.5766E-03	-.7458E 01	.1177E 01	.2294E-03	.8818E-04	.6475E 02	.1574E 02
175	.5966E-03	-.7424E 01	.1211E 01	.2373E-03	.9125E-04	.6257E 02	.1522E 02
180	.6173E-03	-.7390E 01	.0000E 00	.0000E 00	.0000E 00	.6048E 02	.1471E 02

SCAT= .3733E-01 30/45= .3291E 01 45/135= .4339E 01 SCAT30-130= .9078E-02

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3846E 00	-.9555E 00	-.2077E 00	-.2451E 01	.0000E 00	.1073E 00	.2457E-01
5	.1707E 00	-.1768E 01	-.1085E 01	-.1034E 01	.1624E 02	.2417E 00	.5530E-01
10	.8050E-01	-.2519E 01	-.1705E 01	-.4604E 00	.6571E 01	.5126E 00	.1174E 00
15	.4033E-01	-.3211E 01	-.2143E 01	-.2162E 00	.2798E 01	.1023E 01	.2344E 00
20	.2146E-01	-.3842E 01	-.2556E 01	-.1069E 00	.1262E 01	.1923E 01	.4404E 00
25	.1213E-01	-.4412E 01	-.2954E 01	-.5789E-01	.5615E 00	.3402E 01	.7790E 00
30	.7080E-02	-.4950E 01	-.2989E 01	-.2996E-01	.5201E 00	.5829E 01	.1335E 01
35	.4466E-02	-.5411E 01	-.2814E 01	-.1603E-01	.1596E 00	.9240E 01	.2116E 01
40	.3067E-02	-.5787E 01	-.3010E 01	-.1049E-01	.6346E-01	.1345E 02	.3002E 01
45	.2152E-02	-.6142E 01	-.2479E 01	-.5667E-02	.5590E-01	.1918E 02	.4392E 01
50	.1657E-02	-.6403E 01	-.2728E 01	-.4347E-02	.1518E-01	.2490E 02	.5703E 01
55	.1278E-02	-.6663E 01	-.2890E 01	-.3256E-02	.1280E-01	.3230E 02	.7397E 01
60	.9936E-03	-.6914E 01	-.2220E 01	-.1854E-02	.1607E-01	.4153E 02	.9512E 01
65	.8318E-03	-.7092E 01	-.1897E 01	-.1250E-02	.6925E-02	.4961E 02	.1136E 02
70	.7228E-03	-.7232E 01	-.1824E 01	-.9792E-03	.5104E-02	.5710E 02	.1308E 02
75	.6373E-03	-.7358E 01	-.2509E 01	-.1092E-02	-.1291E-02	.6475E 02	.1485E 02
80	.5420E-03	-.7520E 01	-.1500E 01	-.5398E-03	.6926E-02	.7614E 02	.1744E 02
85	.4949E-03	-.7611E 01	-.2593E 01	-.7812E-03	-.2768E-02	.8338E 02	.1910E 02
90	.4267E-03	-.7759E 01	-.1546E 01	-.3922E-03	.4457E-02	.9671E 02	.2216E 02
95	.3925E-03	[illegible]	.9074E 00	.2143E-03	.6981E-02	.1051E 03	.2408E 02
100	.4112E-03	-.7796E 01	.5260E 00	.1225E-03	-.1062E-02	.1004E 03	.2296E 02
105	.4219E-03	-.7771E 01	.3349E 00	.7591E-04	-.5558E-03	.9781E 02	.2240E 02
110	.4285E-03	-.7755E 01	-.1385E 01	-.2931E-03	-.4229E-02	.9630E 02	.2205E 02
115	.4030E-03	-.7817E 01	-.7691E-01	-.1509E-04	.3186E-02	.1024E 03	.2345E 02
120	.4016E-03	-.7820E 01	.7529E 00	.1436E-03	.1019E-02	.1028E 03	.2353E 02
125	.4142E-03	-.7789E 01	.9111E 00	.1727E-03	.3524E-03	.9964E 02	.2282E 02
130	.4292E-03	-.7754E 01	.1391E 01	.2651E-03	.2069E-02	.9614E 02	.2202E 02
135	.4524E-03	-.7701E 01	.4302E 00	.8174E-04	-.2101E-02	.9129E 02	.2089E 02
140	.4595E-03	-.7685E 01	.8486E 00	.1592E-03	.8872E-03	.8981E 02	.2057E 02
145	.4734E-03	-.7656E 01	.8784E 00	.1640E-03	.5513E-04	.8718E 02	.1996E 02
150	.4877E-03	-.7626E 01	.9082E 00	.1689E-03	.5679E-04	.8462E 02	.1938E 02
155	.5024E-03	-.7596E 01	.9380E 00	.1740E-03	.5862E-04	.8214E 02	.1881E 02
160	.5176E-03	-.7566E 01	.9678E 00	.1793E-03	.6029E-04	.7973E 02	.1826E 02
165	.5333E-03	-.7536E 01	.9975E 00	.1847E-03	.6210E-04	.7739E 02	.1772E 02
170	.5494E-03	-.7507E 01	.1027E 01	.1903E-03	.6398E-04	.7512E 02	.1720E 02
175	.5660E-03	-.7477E 01	.1057E 01	.1961E-03	.6592E-04	.7291E 02	.1670E 02
180	.5831E-03	-.7447E 01	.0000E 00	.0000E 00	.0000E 00	.7077E 02	.1621E 02

SCAT= .4127E-01 30/45= .3791E 01 45/135= .4756E 01 SCAT30-130= .9451E-02

CH42/142 1245H 25164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.6842E 00	-.3795E 00	-.2471E 00	-.4858E 01	.0000E 00	.7345E-01	.1300E-01
5	.2603E 00	-.1346E 01	-.1279E 01	-.1754E 01	.3557E 02	.1931E 00	.3417E-01
10	.1073E 00	-.2232E 01	-.1990E 01	-.6806E 00	.1250E 02	.4685E 00	.8293E-01
15	.4788E-01	-.3039E 01	-.2527E 01	-.2834E 00	.4551E 01	.1050E 01	.1858E 00
20	.2315E-01	-.3766E 01	-.2900E 01	-.1264E 00	.1800E 01	.2171E 01	.3843E 00
25	.1212E-01	-.4413E 01	-.3150E 01	-.6067E-01	.7526E 00	.4147E 01	.7340E 00
30	.6824E-02	-.4987E 01	-.3270E 01	-.3096E-01	.3405E 00	.7365E 01	.1303E 01
35	.4122E-02	-.5491E 01	-.2865E 01	-.1502E-01	.1827E 00	.1219E 02	.2158E 01
40	.2812E-02	-.5874E 01	-.3057E 01	-.9744E-02	.6044E-01	.1787E 02	.3164E 01
45	.1962E-02	-.6234E 01	-.2251E 01	-.4747E-02	.5726E-01	.2562E 02	.4536E 01
50	.1547E-02	-.6471E 01	-.2977E 01	-.4374E-02	.4275E-02	.3248E 02	.5749E 01
55	.1166E-02	-.6754E 01	-.2418E 01	-.2535E-02	.2107E-01	.4312E 02	.7631E 01
60	.9444E-03	-.6965E 01	-.2539E 01	-.1990E-02	.6259E-02	.5322E 02	.9419E 01
65	.7708E-03	-.7168E 01	-.2485E 01	-.1485E-02	.5786E-02	.6521E 02	.1154E 02
70	.6411E-03	-.7352E 01	-.2178E 01	-.1025E-02	.5274E-02	.7839E 02	.1387E 02
75	.5517E-03	-.7503E 01	-.1851E 01	-.7120E-03	.3588E-02	.9110E 02	.1612E 02
80	.4895E-03	[illegible]	-.1475E 01	-.4643E-03	.2838E-02	.1027E 03	.1817E 02
85	.4490E-03	-.7708E 01	-.1575E 01	-.4428E-03	.2468E-03	.1119E 03	.1981E 02
90	.4104E-03	-.7798E 01	-.1849E 00	-.4677E-04	.4539E-02	.1225E 03	.2168E 02
95	.4063E-03	-.7808E 01	.7123E-01	.1704E-04	.7912E-03	.1237E 03	.2189E 02
100	.4078E-03	-.7805E 01	.2624E 00	.6022E-04	.4948E-03	.1232E 03	.2181E 02
105	.4130E-03	-.7792E 01	.3974E 00	.8831E-04	.3219E-03	.1217E 03	.2154E 02
110	.4207E-03	-.7773E 01	-.2194E 00	-.4679E-04	-.1548E-02	.1194E 03	.2114E 02
115	.4167E-03	-.7783E 01	.1444E 01	.3026E-03	.4004E-02	.1206E 03	.2135E 02
120	.4431E-03	-.7722E 01	.1756E 01	.3773E-03	.8559E-03	.1134E 03	.2008E 02
125	.4760E-03	-.7650E 01	.2709E 01	.4938E-03	.1555E-02	.1056E 03	.1869E 02
130	.5191E-03	-.7563E 01	.7904E 01	.6891E-03	.2238E-02	.9682E 02	.1714E 02
135	.5792E-03	-.7454E 01	.1011E 01	.4519E-03	-.2718E-02	.8677E 02	.1536E 02
140	.6186E-03	-.7388E 01	.2328E 01	.6035E-03	.1738E-02	.8124E 02	.1438E 02
145	.6713E-03	-.7306E 01	.2410E 01	.6549E-03	.5887E-03	.7487E 02	.1326E 02
150	.7285E-03	-.7225E 01	.2492E 01	.7106E-03	.6388E-03	.6899E 02	.1222E 02
155	.7905E-03	-.7143E 01	.2573E 01	.7711E-03	.6932E-03	.6358E 02	.1125E 02
160	.8578E-03	-.7061E 01	.2655E 01	.8368E-03	.7525E-03	.5859E 02	.1037E 02
165	.9308E-03	-.6979E 01	.2737E 01	.9080E-03	.8169E-03	.5400E 02	.9557E 01
170	.1010E-02	-.6898E 01	.2818E 01	.9853E-03	.8858E-03	.4976E 02	.8807E 01
175	.1096E-02	-.6816E 01	.2900E 01	.1069E-02	.9612E-03	.4586E 02	.8116E 01
180	.1189E-02	-.6734E 01	.0000E 00	.0000E 00	.0000E 00	.4226E 02	.7479E 01

SCAT= .5026E-01 30/45= .3479E 01 45/135= .3386E 01 SCAT30-130= .8895E-02

CH42/143 1315H 25164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.6148E 00	-.4864E 00	-.2393E 00	-.4282E 01	.0000E 00	.8100E-01	.1534E-01
5	.2411E 00	-.1422E 01	-.1242E 01	-.1595E 01	.3079E 02	.2065E 00	.3910E-01
10	.1019E 00	-.2283E 01	-.1939E 01	-.6359E 00	.1099E 02	.4886E 00	.9251E-01
15	.4643E-01	-.3070E 01	-.2473E 01	-.2708E 00	.4183E 01	.1073E 01	.2031E 00
20	.2280E-01	-.3781E 01	-.2852E 01	-.1230E 00	.1694E 01	.2185E 01	.4138E 00
25	.1206E-01	-.4418E 01	-.3186E 01	-.6090E-01	.7117E 00	.4129E 01	.7817E 00
30	.6748E-02	-.4998E 01	-.3352E 01	-.3121E-01	.3402E 00	.7380E 01	.1397E 01
35	.4025E-02	-.5515E 01	-.2771E 01	-.1427E-01	.1941E 00	.1237E 02	.2343E 01
40	.2780E-02	-.5885E 01	-.3118E 01	-.9792E-02	.5126E-01	.1791E 02	.3392E 01
45	.1926E-02	-.6252E 01	-.2435E 01	-.4994E-02	.5499E-01	.2586E 02	.4898E 01
50	.1490E-02	-.6509E 01	-.2722E 01	-.3902E-02	.1251E-01	.3342E 02	.6329E 01
55	.1149E-02	-.6768E 01	-.1787E 01	-.1897E-02	.2298E-01	.4332E 02	.8203E 01
60	.8839E-03	-.6924E 01	-.2263E 01	-.1868E-02	.3330E-03	.5061E 02	.9584E 01
65	.9209E-03	-.7105E 01	-.2291E 01	-.1469E-02	.4575E-02	.6067E 02	.1149E 02
70	.6927E-03	-.7275E 01	-.2402E 01	-.1212E-02	.2937E-02	.7189E 02	.1362E 02
75	.5869E-03	-.7441E 01	-.1196E 01	-.4995E-03	.8170E-02	.8485E 02	.1607E 02
80	.5434E-03	-.7518E 01	-.9716E 00	-.3561E-03	.1643E-02	.9166E 02	.1738E 02
85	.5123E-03	-.7577E 01	-.7102E 00	-.2335E-03	.1405E-02	.9722E 02	.1841E 02
90	.4919E-03	-.7617E 01	-.1235E 00	-.3752E-04	.2246E-02	.1012E 03	.1917E 02
95	.4886E-03	-.7624E 01	.3788E-01	.1089E-04	.8847E-03	.1019E 03	.1930E 02
100	.4896E-03	-.7622E 01	.1599E 00	.5498E-04	.5082E-03	.1017E 03	.1928E 02
105	.4944E-03	-.7612E 01	.1292E 01	.3509E-03	.3591E-02	.1007E 03	.1907E 02
110	.5250E-03	-.7552E 01	.5301E 00	.1435E-03	-.2370E-02	.9486E 02	.1796E 02
115	.5375E-03	-.7529E 01	.2455E 01	.6785E-03	.6131E-02	.9265E 02	.1754E 02
120	.5967E-03	-.7424E 01	.7329E 01	.8821E-03	.4149E-04	.8346E 02	.1580E 02
125	.6562E-03	-.7329E 01	.2659E 01	.8923E-03	.2409E-02	.7589E 02	.1437E 02
130	.7341E-03	-.7217E 01	.3450E 01	.1170E-02	.3178E-02	.6784E 02	.1284E 02
135	.8362E-03	-.7087E 01	.2701E 01	.9889E-03	-.2071E-02	.5956E 02	.1128E 02
140	.9225E-03	-.6988E 01	.3109E 01	.1218E-02	.2629E-02	.5399E 02	.1022E 02
145	.1029E-02	-.6879E 01	.3218E 01	.1359E-02	.1609E-02	.4841E 02	.9166E 01
150	.1147E-02	-.6770E 01	.3327E 01	.1515E-02	.1795E-02	.4340E 02	.8218E 01
155	.1280E-02	-.6661E 01	.3436E 01	.1690E-02	.2001E-02	.3892E 02	.7369E 01
160	.1427E-02	-.6552E 01	.3545E 01	.1885E-02	.2232E-02	.3490E 02	.6608E 01
165	.1592E-02	-.6443E 01	.3654E 01	.2102E-02	.2489E-02	.3129E 02	.5928E 01
170	.1775E-02	-.6334E 01	.3763E 01	.2344E-02	.2776E-02	.2806E 02	.5312E 01
175	.1980E-02	-.6225E 01	.3872E 01	.2614E-02	.3096E-02	.2516E 02	.4763E 01
180	.2208E-02	-.6116E 01	.0000E 00	.0000E 00	.0000E 00	.2256E 02	.4272E 01

SCAT= .4980E-01   30/45= .3504E 01   45/135= .2303E 01   SCAT30-130= .9430E-02

CH42/144 1500H 25164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.4222E 00	-.8624E 00	-.1486E 00	-.2613E 01	.0000E 00	.1194E 00	.2852E-01
5	.1941E 00	-.1639E 01	-.1041E 01	-.1143E 01	.1685E 02	.2596E 00	.6203E-01
10	.9436E-01	-.2361E 01	-.1642E 01	-.5256E 00	.7076E 01	.5340E 00	.1276E 00
15	.4849E-01	-.3026E 01	-.2121E 01	-.2538E 00	.3115E 01	.1039E 01	.2483E 00
20	.2634E-01	-.3637E 01	-.2485E 01	-.1285E 00	.1436E 01	.1913E 01	.4571E 00
25	.1513E-01	-.4191E 01	-.2810E 01	-.6950E-01	.6761E 00	.3331E 01	.7959E 00
30	.9064E-02	-.4703E 01	-.2964E 01	-.3809E-01	.3599E 00	.5559E 01	.1329E 01
35	.5740E-02	-.5160E 01	-.2855E 01	-.2085E-01	.1974E 00	.8779E 01	.2098E 01
40	.3920E-02	-.5542E 01	-.2818E 01	-.1269E-01	.9352E-01	.1285E 02	.3072E 01
45	.2813E-02	-.5873E 01	-.2732E 01	-.8063E-02	.5500E-01	.1791E 02	.4280E 01
50	.2109E-02	-.6161E 01	-.1038E 02	-.1519E-01	-.8182E-01	.2389E 02	.5708E 01
55	.7842E-03	-.7151E 01	.6217E 01	.6449E-02	.2479E 00	.6425E 02	.1536E 02
60	.1347E-02	-.6610E 01	-.2294E 01	-.2382E-02	-.1013E 00	.3741E 02	.8939E 01
65	.1139E-02	-.6778E 01	-.2446E 01	-.2164E-02	.2500E-03	.4423E 02	.1057E 02
70	.9507E-03	-.6959E 01	-.2108E 01	-.1474E-02	.7919E-02	.5303E 02	.1267E 02
75	.8216E-03	-.7104E 01	-.2093E 01	-.1190E-02	.3255E-02	.6135E 02	.1466E 02
80	.7178E-03	-.7239E 01	-.1599E 01	-.7593E-03	.4951E-02	.7020E 02	.1677E 02
85	.6516E-03	-.7336E 01	-.9178E 00	-.3816E-03	.4329E-02	.7735E 02	.1848E 02
90	.6183E-03	-.7389E 01	-.1315E 01	-.4861E-03	-.1190E-02	.8150E 02	.1948E 02
95	.5758E-03	-.7460E 01	.2011E 00	.6842E-04	.6354E-02	.8750E 02	.2092E 02
100	.5818E-03	-.7449E 01	.2344E 00	.7670E-04	.9483E-04	.8661E 02	.2070E 02
105	.5885E-03	-.7438E 01	-.3788E 00	-.1178E-03	-.2239E-02	.8562E 02	.2046E 02
110	.5782E-03	-.7456E 01	-.4930E 00	-.1436E-03	-.2962E-03	.8714E 02	.2082E 02
115	.5657E-03	-.7477E 01	.1120E 01	.3165E-03	.5279E-02	.8907E 02	.2129E 02
120	.5933E-03	-.7430E 01	.3461E 01	.1032E-02	.8195E-02	.8495E 02	.2029E 02
125	.6833E-03	-.7289E 01	-.5642E 00	-.1714E-03	-.1379E-01	.7374E 02	.1762E 02
130	.6684E-03	-.7311E 01	.2750E 01	.8377E-03	.1156E-01	.7539E 02	.1802E 02
135	.7415E-03	-.7207E 01	.1749E 01	.6581E-03	-.3206E-02	.6795E 02	.1624E 02
140	.7902E-03	-.7143E 01	.1882E 01	.6180E-03	.6072E-03	.6377E 02	.1524E 02
145	.8441E-03	-.7077E 01	.1948E 01	.6602E-03	.4034E-03	.5969E 02	.1426E 02
150	.9017E-03	-.7011E 01	.2014E 01	.7053E-03	.5164E-03	.5588E 02	.1335E 02
155	.9633E-03	-.6945E 01	.2080E 01	.7534E-03	.5514E-03	.5231E 02	.1250E 02
160	.1029E-02	-.6879E 01	.2146E 01	.8049E-03	.5895E-03	.4897E 02	.1170E 02
165	.1099E-02	-.6813E 01	.2212E 01	.8598E-03	.6295E-03	.4584E 02	.1095E 02
170	.1174E-02	-.6747E 01	.2278E 01	.9185E-03	.6725E-03	.4291E 02	.1025E 02
175	.1254E-02	-.6681E 01	.2344E 01	.9812E-03	.7184E-03	.4017E 02	.9599E 01
180	.1340E-02	-.6615E 01	.0000E 00	.0000E 00	.0000E 00	.3760E 02	.8986E 01

SCAT= .5039E-01   30/45= .3222E 01   45/135= .3794E 01   SCAT30-130= .1204E-01

CH42/145 1530H 25164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3215E 00	-.1135E 01	-.1910E 00	-.1738E 01	.0000E 00	.1256E 00	.3036E-01
5	.1523E 00	-.1882E 01	-.1006E 01	-.8763E 00	.1217E 02	.2650E 00	.6405E-01
10	.7582E-01	-.2579E 01	-.1598E 01	-.4143E 00	.5294E 01	.5324E 00	.1287E 00
15	.3967E-01	-.3227E 01	-.2079E 01	-.2044E 00	.2402E 01	.1018E 01	.2459E 00
20	.2181E-01	-.3825E 01	-.2459E 01	-.1055E 00	.1136E 01	.1851E 01	.4473E 00
25	.1260E-01	-.4374E 01	-.2988E 01	-.6064E-01	.5149E 00	.3204E 01	.7742E 00
30	.7308E-02	-.4919E 01	-.2759E 01	-.2901E-01	.3424E 00	.5523E 01	.1336E 01
35	.4776E-02	-.5344E 01	-.3320E 01	-.1960E-01	.1074E 00	.8451E 01	.2042E 01
40	.3066E-02	-.5787E 01	-.2861E 01	-.1005E-01	.1094E 00	.1317E 02	.3182E 01
45	.2189E-02	-.6124E 01	-.2911E 01	-.6624E-02	.3925E-01	.1844E 02	.4457E 01
50	.1611E-02	-.6431E 01	-.2639E 01	-.4105E-02	.2887E-01	.2506E 02	.6057E 01
55	.1252E-02	-.6683E 01	-.2418E 01	-.2723E-02	.1584E-01	.3223E 02	.7789E 01
60	.1015E-02	-.6893E 01	-.2408E 01	-.2039E-02	.7843E-02	.3978E 02	.9613E 01
65	.8368E-03	-.7086E 01	-.2022E 01	-.1335E-02	.8086E-02	.4823E 02	.1166E 02
70	.7204E-03	-.7236E 01	-.2009E 01	-.1069E-02	.3049E-02	.5603E 02	.1354E 02
75	.6271E-03	-.7374E 01	-.2057E 01	-.8934E-03	.2008E-02	.6437E 02	.1556E 02
80	.5492E-03	-.7507E 01	-.1835E 01	-.6626E-03	.2645E-02	.7350E 02	.1776E 02
85	.4913E-03	-.7618E 01	-.1448E 01	-.4474E-03	.2464E-02	.8215E 02	.1985E 02
90	.4573E-03	-.7701E 01	-.5724E 00	-.1580E-03	.3316E-02	.8824E 02	.2133E 02
95	.4385E-03	-.7732E 01	-.3731E-01	-.9606E-05	.1700E-02	.9205E 02	.2225E 02
100	.4377E-03	-.7734E 01	.1193E 00	.2928E-04	.4458E-03	.9223E 02	.2229E 02
105	.4402E-03	-.7728E 01	.1084E 01	.2608E-03	.2659E-02	.9169E 02	.2216E 02
110	.4630E-03	-.7678E 01	-.5284E 00	-.1232E-03	-.4400E-02	.8718E 02	.2107E 02
115	.4522E-03	-.7701E 01	-.2540E 00	-.5572E-04	.7730E-03	.8926E 02	.2157E 02
120	.4474E-03	-.7712E 01	.7258E 00	.1542E-03	.2405E-02	.9023E 02	.2181E 02
125	.4608E-03	-.7682E 01	.1491E 01	.3180E-03	.1870E-02	.8759E 02	.2117E 02
130	.4946E-03	-.7624E 01	.1665E 01	.3632E-03	.5175E-03	.8262E 02	.1997E 02
135	.5203E-03	-.7561E 01	.4620E 00	.1010E-03	-.3004E-02	.7758E 02	.1875E 02
140	.5291E-03	-.7544E 01	.1350E 01	.2275E-03	.1449E-02	.7629E 02	.1844E 02
145	.5489E-03	-.7508E 01	.1087E 01	.2360E-03	.9782E-04	.7353E 02	.1777E 02
150	.5695E-03	-.7471E 01	.1123E 01	.2449E-03	.1015E-03	.7087E 02	.1713E 02
155	.5909E-03	-.7434E 01	.1160E 01	.2541E-03	.1053E-03	.6831E 02	.1651E 02
160	.6131E-03	-.7397E 01	.1197E 01	.2636E-03	.1092E-03	.6584E 02	.1591E 02
165	.6361E-03	-.7360E 01	.1234E 01	.2735E-03	.1133E-03	.6346E 02	.1534E 02
170	.6600E-03	-.7323E 01	.1271E 01	.2838E-03	.1176E-03	.6116E 02	.1478E 02
175	.6847E-03	-.7286E 01	.1308E 01	.2944E-03	.1220E-03	.5895E 02	.1425E 02
180	.7104E-03	-.7250E 01	.0000E 00	.0000E 00	.0000E 00	.5682E 02	.1373E 02

SCAT= .4036E-01   30/45= .3339E 01   45/135= .4207E 01   SCAT30-130= .9755E-02

CH42/146 2340H 25164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00–160	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
165	.6504E-03	-.7338E 01	.6370E 00	.1431E-03	.3087E-04	.7425E 02	.2116E 02
170	.6629E-03	-.7319E 01	.6560E 00	.1458E-03	.3149E-04	.7285E 02	.2076E 02
175	.6756E-03	-.7300E 01	.6750E 00	.1486E-03	.3207E-04	.7148E 02	.2037E 02
180	.6886E-03	-.7281E 01	.0000E 00	.0000E 00	.0000E 00	.7013E 02	.1998E 02

SCAT= .4829E-01   30/45= .3091E 01   45/135= .5459E 01   SCAT30-130= .1376E-01

CH42/147 0005H 26164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00–160	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
165	.8744E-03	-.7042E 01	.7303E 00	.2209E-03	.5457E-04	.8936E 02	.2319E 02
170	.8937E-03	-.7020E 01	.7521E 00	.2257E-03	.5580E-04	.8743E 02	.2269E 02
175	.9134E-03	-.6998E 01	.7739E 00	.2307E-03	.5700E-04	.8555E 02	.2220E 02
180	.9335E-03	-.6977E 01	.0000E 00	.0000E 00	.0000E 00	.8370E 02	.2172E 02

SCAT= .7813E-01   30/45= .3033E 01   45/135= .6432E 01   SCAT30-130= .2028E-01

CH42/148 0020H 26164   ~~SF~~ 604 20m

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00–155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	.9263E-03	-.6984E 01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
165	.9837E-03	-.6924E 01	.2014E 01	.6984E-03	.4689E-03	[illegible]	.1514E 02
170	.1045E-02	-.6864E 01	.2074E 01	.7417E-03	.4959E-03	.6021E 02	.1430E 02
175	.1109E-02	-.6804E 01	.2134E 01	.7876E-03	.5260E-03	.5670E 02	.1340E 02
180	.1178E-02	-.6744E 01	.0000E 00	.0000E 00	.0000E 00	.5339E 02	.1266E 02

SCAT= .6240E-01   30/45= .3204E 01   45/135= .4982E 01   SCAT30-130= .1490E-01

CH42/149 0035H 26164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.6772E 00	-.3898E 00	-.2069E 00	-.4305E 01	.0000E 00	.1050E 00	.2282E-01
5	.3015E 00	-.1199E 01	-.1084E 01	-.1825E 01	.2842E 02	.2360E 00	.5128E-01
10	.1422E 00	-.1951E 01	-.1711E 01	-.8152E 00	.1157E 02	.5009E 00	.1086E 00
15	.7106E-01	-.2644E 01	-.2211E 01	-.3832E 00	.4951E 01	.1001E 01	.2174E 00
20	.3767E-01	-.3280E 01	-.2591E 01	-.1893E 00	.2222E 01	.1891E 01	.4107E 00
25	.2110E-01	-.3858E 01	-.2852E 01	-.9006E-01	.1049E 01	.3371E 01	.7321E 00
30	.1255E-01	-.4378E 01	-.3177E 01	-.5566E-01	.4850E 00	.5670E 01	.1231E 01
35	.7689E-02	-.4868E 01	-.2934E 01	-.2856E-01	.3100E 00	.9252E 01	.2009E 01
40	.5196E-02	-.5260E 01	-.2750E 01	-.1648E-01	.1505E 00	.1369E 02	.2973E 01
45	.3758E-02	-.5594E 01	-.3052E 01	-.1184E-01	.5308E-01	.1893E 02	.4112E 01
50	.2725E-02	-.5905E 01	-.2734E 01	-.7163E-02	.5582E-01	.2610E 02	.5670E 01
55	.2100E-02	-.6166E 01	-.2498E 01	-.4684E-02	.2841E-01	.3388E 02	.7357E 01
60	.1691E-02	-.6382E 01	-.2560E 01	-.3590E-02	.1254E-01	.4206E 02	.9150E 01
65	.1378E-02	-.6587E 01	-.2291E 01	-.2465E-02	.1289E-01	.5163E 02	.1121E 02
70	.1163E-02	-.6757E 01	-.2801E 01	-.2342E-02	.1414E-02	.6110E 02	.1329E 02
75	.9584E-03	-.6950E 01	-.2612E 01	-.1704E-02	.7507E-02	.7423E 02	.1612E 02
80	.8097E-03	-.7119E 01	-.1457E 01	-.7739E-03	.1066E-01	.8786E 02	.1908E 02
85	.7421E-03	-.7206E 01	-.1510E 01	-.7030E-03	.8125E-03	.9585E 02	.2082E 02
90	.6808E-03	-.7292E 01	-.1246E 01	-.5084E-03	.2230E-02	.1045E 03	.2269E 02
95	.6364E-03	-.7360E 01	-.9842E 00	-.3597E-03	.1705E-02	.1118E 03	.2428E 02
100	.6050E-03	-.7410E 01	-.5118E 00	-.1710E-03	.2169E-02	.1176E 03	.2554E 02
105	.5901E-03	-.7435E 01	-.5058E 00	-.1818E-03	-.1239E-03	.1205E 03	.2618E 02
110	.5742E-03	-.7462E 01	-.9147E 00	-.2622E-03	-.9216E-03	.1239E 03	.2690E 02
115	.5514E-03	-.7503E 01	.5113E 00	.1390E-03	.4897E-02	.1290E 03	.2802E 02
120	.5635E-03	-.7481E 01	.6896E 00	.1844E-03	.2005E-03	.1262E 03	.2742E 02
125	.5796E-03	-.7453E 01	.8437E 00	.2234E-03	.4478E-03	.1227E 03	.2666E 02
130	.5991E-03	-.7420E 01	.1918E 01	.5154E-03	.3348E-02	.1187E 03	.2579E 02
135	.6440E-03	-.7348E 01	.5373E 00	.1456E-03	-.4237E-02	.1105E 03	.2399E 02
140	.6568E-03	-.7328E 01	.1060E 01	.2852E-03	.1699E-02	.1083E 03	.2362E 02
145	.6816E-03	-.7291E 01	.1097E 01	.2960E-03	.1259E-03	.1044E 03	.2267E 02
150	.7075E-03	-.7254E 01	.1134E 01	.3072E-03	.1285E-03	.1005E 03	.2184E 02
155	.7343E-03	-.7217E 01	.1172E 01	.3189E-03	.1334E-03	.9680E 02	.2104E 02
160	.7621E-03	-.7179E 01	.1209E 01	.3309E-03	.1386E-03	.9334E 02	.2027E 02
165	.7910E-03	-.7142E 01	.1246E 01	.3435E-03	.1437E-03	.8993E 02	.1953E 02
170	.8210E-03	-.7105E 01	.1283E 01	.3565E-03	.1491E-03	.8665E 02	.1882E 02
175	.8521E-03	-.7068E 01	.1320E 01	.3700E-03	.1548E-03	.8349E 02	.1813E 02
180	.8844E-03	-.7031E 01	.0000E 00	.0000E 00	.0000E 00	.8044E 02	.1747E 02

SCAT= .7114E-01   30/45= .3338E 01   45/135= .5856E 01   SCAT30-130= .1645E-01

CH42/150 0050H 26164

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.5778E 00	-.5485E 00	-.2062E 00	-.3665E 01	.0000E 00	.1085E 00	.2469E-01
5	.2560E 00	-.1355E 01	-.1077E 01	-.1555E 01	.2419E 02	.2429E 00	.5526E-01
10	.1223E 00	-.2101E 01	-.1692E 01	-.6958E 00	.9840E 01	.5124E 00	.1183E 00
15	.6158E-01	-.2787E 01	-.2176E 01	-.3283E 00	.4211E 01	.1018E 01	.2511E 00
20	.3293E-01	-.3414E 01	-.2536E 01	-.1631E 00	.1894E 01	.1909E 01	.4322E 00
25	.1870E-01	-.3979E 01	-.2914E 01	-.8830E-01	.8687E 00	.3352E 01	.7621E 00
30	.1099E-01	-.4511E 01	-.2987E 01	-.4647E-01	.4799E 00	.5702E 01	.1299E 01
35	.6935E-02	-.4971E 01	-.2670E 01	-.2383E-01	.2594E 00	.9036E 01	.2052E 01
40	.4855E-02	-.5328E 01	-.3162E 01	-.1730E-01	.7486E-01	.1291E 02	.2931E 01
45	.3345E-02	-.5700E 01	-.2306E 01	-.8269E-02	.1095E 00	.1873E 02	.4250E 01
50	.2624E-02	-.5943E 01	-.2921E 01	-.7305E-02	.1104E-01	.2389E 02	.5429E 01
55	.1986E-02	-.6221E 01	-.2726E 01	-.4806E-02	.2884E-01	.3155E 02	.7164E 01
60	.1567E-02	-.6459E 01	-.2588E 01	-.3360E-02	.1688E-01	.4000E 02	.9082E 01
65	.1274E-02	-.6666E 01	-.1999E 01	-.2010E-02	.1547E-01	.4921E 02	.1117E 02
70	.1098E-02	-.6814E 01	-.2888E 01	-.2274E-02	-.3026E-02	.5706E 02	.1296E 02
75	.8999E-03	-.7013E 01	-.1734E 01	-.1092E-02	.1554E-01	.6965E 02	.1581E 02
80	.8046E-03	-.7125E 01	-.2303E 01	-.1201E-02	-.1252E-02	.7790E 02	.1769E 02
85	.6997E-03	-.7265E 01	-.2373E 01	-.1017E-02	.2109E-02	.8956E 02	.2034E 02
90	.6110E-03	-.7400E 01	-.8675E 00	-.3208E-03	.7900E-02	.1026E 03	.2329E 02
95	.5830E-03	-.7447E 01	-.5282E 00	-.1786E-03	.1650E-02	.1075E 03	.2441E 02
100	.5674E-03	-.7474E 01	-.7217E 00	-.2249E-03	-.5316E-03	.1105E 03	.2508E 02
105	.5477E-03	-.7510E 01	-.5829E 00	-.1679E-03	.6810E-03	.1144E 03	.2598E 02
110	.5331E-03	-.7537E 01	-.4335E 00	-.1166E-03	.5800E-03	.1176E 03	.2669E 02
115	.5229E-03	-.7556E 01	.6452E 00	.1668E-03	.3248E-02	.1198E 03	.2721E 02
120	.5375E-03	-.7529E 01	.7305E 00	.1864E-03	.2245E-03	.1166E 03	.2647E 02
125	.5537E-03	-.7499E 01	.1518E 01	.3893E-03	.2324E-02	.1132E 03	.2570E 02
130	.5877E-03	-.7439E 01	.2665E 01	.7126E-03	.3708E-02	.1066E 03	.2421E 02
135	.6499E-03	-.7339E 01	.6859E 00	.1881E-03	-.6010E-02	.9645E 02	.2189E 02
140	.6663E-03	-.7314E 01	.1493E 01	.4108E-03	.2662E-02	.9408E 02	.2136E 02
145	.7022E-03	-.7261E 01	.1546E 01	.4329E-03	.2533E-03	.8925E 02	.2026E 02
150	.7400E-03	-.7209E 01	.1598E 01	.4562E-03	.2669E-03	.8470E 02	.1923E 02
155	.7798E-03	-.7157E 01	.1651E 01	.4807E-03	.2813E-03	.8037E 02	.1825E 02
160	.8217E-03	-.7104E 01	.1703E 01	.5066E-03	.2964E-03	.7627E 02	.1732E 02
165	.8659E-03	-.7052E 01	.1755E 01	.5339E-03	.3125E-03	.7237E 02	.1643E 02
170	.9125E-03	-.6999E 01	.1808E 01	.5626E-03	.3292E-03	.6868E 02	.1559E 02
175	.9616E-03	-.6947E 01	.1860E 01	.5929E-03	.3469E-03	.6517E 02	.1480E 02
180	.1013E-02	-.6894E 01	.0000E 00	.0000E 00	.0000E 00	.6185E 02	.1404E 02

SCAT= .6267E-01   30/45= .3285E 01   45/135= .5140E 01   SCAT30-130= .1423E-01

CH42/151 0105H 26164   ~~SF~~ 604-60m

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1176E 01	.1621E 00	-.2523E 00	-.8452E 01	.0000E 00	.6779E-01	.1077E-01
5	.4385E 00	-.8245E 00	-.1307E 01	-.2996E 01	.8264E 02	.1817E 00	.2890E-01
10	.1772E 00	-.1731E 01	-.2037E 01	-.1141E 01	.2124E 02	.4496E 00	.7152E-01
15	.7756E-01	-.2557E 01	-.2592E 01	-.4471E 00	.7728E 01	.1027E 01	.1634E 00
20	.3680E-01	-.3302E 01	-.2981E 01	-.2049E 00	.3008E 01	.2168E 01	.3443E 00
25	.1897E-01	-.3967E 01	-.3281E 01	-.9761E-01	.1229E 01	.4210E 01	.6696E 00
30	.1040E-01	-.4566E 01	-.3317E 01	-.4772E-01	.5717E 00	.7657E 01	.1219E 01
35	.6238E-02	-.5077E 01	-.3093E 01	-.2419E-01	.2697E 00	.1277E 02	.2032E 01
40	.4127E-02	-.5490E 01	-.3097E 01	-.1445E-01	.1115E 00	.1930E 02	.3070E 01
45	.2866E-02	-.5855E 01	-.2424E 01	-.7403E-02	.8081E-01	.2779E 02	.4421E 01
50	.2270E-02	-.6110E 01	-.3038E 01	-.6396E-02	.1164E-01	.3508E 02	.5707E 01
55	.1662E-02	-.6400E 01	-.2356E 01	-.3530E-02	.3284E-01	.4795E 02	.7624E 01
60	.1354E-02	-.6605E 01	-.2400E 01	-.2712E-02	.9570E-02	.5894E 02	.9380E 01
65	.1117E-02	-.6797E 01	-.1776E 01	-.1579E-02	.1290E-01	.7131E 02	.1104E 02
70	.9793E-03	-.6929E 01	-.2640E 01	-.1997E-02	-.4791E-02	.8134E 02	.1294E 02
75	.8050E-03	-.7125E 01	-.1971E 01	-.1102E-02	.1026E-01	.9895E 02	.1574E 02
80	.7089E-03	-.7252E 01	-.2189E 01	-.1009E-02	.1061E-02	.1124E 03	.1787E 02
85	.6208E-03	-.7385E 01	-.1768E 01	-.6837E-03	.3782E-02	.1283E 03	.2041E 02
90	.5611E-03	-.7486E 01	-.5425E 00	-.1858E-03	.5706E-02	.1420E 03	.2250E 02
95	.5449E-03	-.7515E 01	-.8434E 00	-.2644E-03	-.8990E-03	.1462E 03	.2330E 02
100	.5218E-03	-.7558E 01	-.1669E-01	-.4867E-05	.2974E-02	.1527E 03	.2428E 02
105	.5214E-03	-.7559E 01	-.1201E 00	-.3330E-04	-.3260E-03	.1528E 03	.2430E 02
110	.5185E-03	-.7565E 01	-.6536E 00	-.1701E-03	-.1560E-02	.1536E 03	.2444E 02
115	.5034E-03	-.7594E 01	.5747E 00	.1429E-03	.3587E-02	.1583E 03	.2516E 02
120	.5161E-03	-.7569E 01	.1265E 01	.3133E-03	.1969E-02	.1545E 03	.2458E 02
125	.5434E-03	-.7518E 01	.1306E 01	.3273E-03	.1599E-02	.1466E 03	.2332E 02
130	.5720E-03	-.7466E 01	.3161E 01	.8306E-03	.5769E-02	.1398E 03	.2218E 02
135	.6445E-03	-.7347E 01	.7405E 00	.2126E-03	-.7081E-02	.1230E 03	.1960E 02
140	.6630E-03	-.7319E 01	.1698E 01	.4666E-03	.2910E-02	.1201E 03	.1921E 02
145	.7038E-03	-.7259E 01	.1758E 01	.4952E-03	.3209E-03	.1132E 03	.1808E 02
150	.7470E-03	-.7199E 01	.1817E 01	.5256E-03	.3406E-03	.1066E 03	.1698E 02
155	.7928E-03	-.7140E 01	.1877E 01	.5579E-03	.3699E-03	.1005E 03	.1590E 02
160	.8415E-03	-.7080E 01	.1937E 01	.5922E-03	.3926E-03	.9468E 02	.1500E 02
165	.8932E-03	-.7021E 01	.1996E 01	.6285E-03	.4187E-03	.8918E 02	.1418E 02
170	.9481E-03	-.6961E 01	.2056E 01	.6671E-03	.4429E-03	.8402E 02	.1336E 02
175	.1006E-02	-.6902E 01	.2115E 01	.7081E-03	.4694E-03	.7916E 02	.1269E 02
180	.1068E-02	-.6842E 01	.0000E 00	.0000E 00	.0000E 00	.7456E 02	.1186E 02

SCAT= .7965E-01   30/45= .3630E 01   45/135= .4447E 01   SCAT30-130= .1267E-01

CH42/161 26164 0445H ST610 4-60M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1369E 01	.3139E 00	-.2542E 00	-.9881E 01	.0000E 00	.6552E-01	.9796E-02
5	.5065E 00	-.6802E 00	-.1318E 01	-.3476E 01	.7339E 02	.1771E 00	.2647E-01
10	.2031E 00	-.1594E 01	-.2055E 01	-.1316E 01	.2476E 02	.4415E 00	.6601E-01
15	.8829E-01	-.2427E 01	-.2617E 01	-.5352E 00	.8948E 01	.1016E 01	.1519E 00
20	.4159E-01	-.3180E 01	-.3013E 01	-.2333E 00	.3459E 01	.2157E 01	.3224E 00
25	.2123E-01	-.3852E 01	-.3406E 01	-.1125E 00	.1384E 01	.4225E 01	.6316E 00
30	.1141E-01	-.4473E 01	-.3258E 01	-.5161E-01	.6980E 00	.7861E 01	.1175E 01
35	.6905E-02	-.4976E 01	-.3301E 01	-.2821E-01	.2682E 00	.1299E 02	.1942E 01
40	.4443E-02	-.5416E 01	-.3185E 01	-.1593E-01	.1407E 00	.2019E 02	.3018E 01
45	.3053E-02	-.5792E 01	-.2424E 01	-.7886E-02	.9214E-01	.2937E 02	.4392E 01
50	.2365E-02	-.6047E 01	-.2666E 01	-.6081E-02	.2068E-01	.3792E 02	.5670E 01
55	.1834E-02	-.6301E 01	-.2372E 01	-.3921E-02	.2476E-01	.4889E 02	.7310E 01
60	.1492E-02	-.6508E 01	-.2528E 01	-.3132E-02	.9035E-02	.6010E 02	.8986E 01
65	.1219E-02	-.6710E 01	-.2731E 01	-.2559E-02	.6567E-02	.7358E 02	.1100E 02
70	.9955E-03	-.6912E 01	-.2438E 01	-.1766E-02	.9088E-02	.9009E 02	.1347E 02
75	.8414E-03	-.7080E 01	-.2693E 01	-.1538E-02	.2611E-02	.1066E 03	.1594E 02
80	.7072E-03	-.7254E 01	-.2383E 01	-.1090E-02	.5132E-02	.1268E 03	.1896E 02
85	.6121E-03	-.7399E 01	-.1559E 01	-.5980E-03	.5640E-02	.1465E 03	.2191E 02
90	.5599E-03	-.7488E 01	-.1505E 01	-.5013E-03	.1108E-02	.1602E 03	.2395E 02
95	.5161E-03	-.7569E 01	.1743E 00	.5312E-04	.6354E-02	.1738E 03	.2598E 02
100	.5208E-03	-.7560E 01	-.8665E 00	-.2470E-03	-.3439E-02	.1722E 03	.2575E 02
105	.4992E-03	-.7602E 01	.3430E 00	.9202E-04	.3885E-02	.1797E 03	.2686E 02
110	.5072E-03	-.7587E 01	-.9565E 00	-.2419E-03	-.3827E-02	.1768E 03	.2643E 02
115	.4861E-03	-.7629E 01	.8847E-01	.2101E-04	.3013E-02	.1845E 03	.2758E 02
120	.4880E-03	-.7625E 01	.1250E 01	.2927E-03	.3113E-02	.1830E 03	.2748E 02
125	.5135E-03	-.7574E 01	.1184E 01	.2797E-03	-.1486E-03	.1747E 03	.2611E 02
130	.5379E-03	-.7528E 01	.2902E 01	.7343E-03	.5209E-02	.1667E 03	.2493E 02
135	.6020E-03	-.7415E 01	.5437E 00	.1378E-03	-.6836E-02	.1490E 03	.2227E 02
140	.6140E-03	-.7395E 01	.1496E 01	.3792E-03	.2767E-02	.1461E 03	.2184E 02
145	.6471E-03	-.7343E 01	.1548E 01	.3997E-03	.2342E-03	.1386E 03	.2072E 02
150	.6820E-03	-.7290E 01	.1601E 01	.4212E-03	.2469E-03	.1315E 03	.1966E 02
155	.7187E-03	-.7238E 01	.1653E 01	.4439E-03	.2602E-03	.1248E 03	.1866E 02
160	.7575E-03	-.7186E 01	.1706E 01	.4678E-03	.2742E-03	.1184E 03	.1770E 02
165	.7983E-03	-.7133E 01	.1758E 01	.4931E-03	.2890E-03	.1123E 03	.1680E 02
170	.8413E-03	-.7081E 01	.1811E 01	.5196E-03	.3045E-03	.1066E 03	.1594E 02
175	.8867E-03	-.7028E 01	.1863E 01	.5476E-03	.3209E-03	.1011E 03	.1512E 02
180	.9345E-03	-.6976E 01	.0000E 00	.0000E 00	.0000E 00	.9597E 02	.1435E 02

SCAT= .8968E-01 30/45= .3737E 01 45/135= .5072E 01 SCAT30-130= .1341E-01

CH42/162 26164 0500H ST610 5-80M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1492E 01	.4001E 00	-.2691E 00	-.1113E 02	.0000E 00	.5759E-01	.7838E-02
5	.5208E 00	-.6524E 00	-.1192E 01	-.3694E 01	.8520E 02	.1650E 00	.2246E-01
10	.1984E 00	-.1617E 01	-.2284E 01	-.1328E 01	.2711E 02	.4331E 00	.5895E-01
15	.8249E-01	-.2495E 01	-.2746E 01	-.5163E 00	.9503E 01	.1042E 01	.1418E 00
20	.3744E-01	-.3285E 01	-.3148E 01	-.2169E 00	.3435E 01	.2295E 01	.3124E 00
25	.1874E-01	-.3986E 01	-.3312E 01	-.9761E-01	.1362E 01	.4634E 01	.6307E 00
30	.1022E-01	-.4603E 01	-.3605E 01	-.4898E-01	.5574E 00	.8571E 01	.1167E 01
35	.5751E-02	-.5159E 01	-.3077E 01	-.2221E-01	.3068E 00	.1494E 02	.2034E 01
40	.3813E-02	-.5569E 01	-.3074E 01	-.1327E-01	.1024E 00	.2254E 02	.3067E 01
45	.2655E-02	-.5931E 01	-.2604E 01	-.7901E-02	.6841E-01	.3237E 02	.4405E 01
50	.2018E-02	-.6206E 01	-.2404E 01	-.4735E-02	.2940E-01	.4259E 02	.5796E 01
55	.1605E-02	-.6435E 01	-.2409E 01	-.3477E-02	.1442E-01	.5355E 02	.7289E 01
60	.1321E-02	-.6645E 01	-.2651E 01	-.2851E-02	.7179E-02	.6404E 02	.8989E 01
65	.1052E-02	-.6857E 01	-.2756E 01	-.2228E-02	.7139E-02	.8164E 02	.1111E 02
70	.8379E-03	-.7061E 01	-.2034E 01	-.1287E-02	.1078E-01	.1002E 03	.1363E 02
75	.7455E-03	-.7201E 01	-.2664E 01	-.1349E-02	-.7108E-03	.1153E 03	.1569E 02
80	.6278E-03	-.7373E 01	-.2183E 01	-.8866E-03	.5306E-02	.1369E 03	.1863E 02
85	.5504E-03	-.7505E 01	-.1389E 01	-.4813E-03	.4443E-02	.1561E 03	.2125E 02
90	.5084E-03	-.7584E 01	-.1282E 01	-.3863E-03	.1111E-02	.1690E 03	.2300E 02
95	.4769E-03	-.7652E 01	-.2641E 00	-.7421E-04	.3254E-02	.1809E 03	.2463E 02
100	.4814E-03	-.7639E 01	-.8478E 00	-.2235E-03	-.3411E-02	.1785E 03	.2430E 02
105	.4610E-03	-.7680E 01	-.5710E 00	-.1425E-03	-.4194E-02	.1866E 03	.2532E 02
110	.4743E-03	-.7654E 01	-.8410E 00	-.1994E-03	-.3918E-02	.1812E 03	.2466E 02
115	.4569E-03	-.7691E 01	.2839E 00	.6766E-04	.3015E-02	.1881E 03	.2560E 02
120	.4624E-03	-.7679E 01	.7962E 00	.1746E-03	.1272E-02	.1858E 03	.2529E 02
125	.4777E-03	-.7647E 01	.1089E 01	.2232E-03	.2844E-02	.1798E 03	.2447E 02
130	.4912E-03	-.7618E 01	.2564E 01	.5942E-03	.1959E-02	.1670E 03	.2273E 02
135	.5665E-03	-.7476E 01	.7018E 00	.1678E-03	-.4984E-02	.1517E 03	.2065E 02
140	.5812E-03	-.7450E 01	.1451E 01	.3472E-03	.2283E-02	.1479E 03	.2013E 02
145	.6132E-03	-.7397E 01	.1583E 01	.3874E-03	.2320E-03	.1401E 03	.1907E 02
150	.6408E-03	-.7353E 01	.1583E 01	.4086E-03	.2283E-03	.1328E 03	.1808E 02
155	.6826E-03	-.7290E 01	.1691E 01	.4313E-03	.2583E-03	.1259E 03	.1713E 02
160	.7203E-03	-.7236E 01	.1744E 01	.4551E-03	.2713E-03	.1193E 03	.1624E 02
165	.7600E-03	-.7182E 01	.1798E 01	.4802E-03	.2876E-03	.1131E 03	.1539E 02
170	.8019E-03	-.7129E 01	.1852E 01	.5067E-03	.3034E-03	.1072E 03	.1458E 02
175	.8461E-03	-.7075E 01	.1905E 01	.5346E-03	.3202E-03	.1016E 03	.1382E 02
180	.8928E-03	-.7021E 01	.0000E 00	.0000E 00	.0000E 00	.9625E 02	.1310E 02

SCAT= .8593E-01 30/45= .3776E 01 45/135= .4687E 01 SCAT30-130= .1170E-01

CH42/163 26164 0510H ST610 6-100M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3444E 00	-.1066E 01	-.1397E 00	-.2137E 01	.0000E 00	.1207E 00	.3048E-01
5	.1580E 00	-.1845E 01	-.1741E 01	-.9303E 00	.7382E 02	.2632E 00	.6647E-01
10	.7678E-01	-.2567E 01	-.1636E 01	-.4266E 00	.2058E 01	.5417E 00	.1368E 00
15	.3955E-01	-.3230E 01	-.2104E 01	-.2058E 00	.2530E 01	.1051E 01	.2655E 00
20	.2155E-01	-.3838E 01	-.2453E 01	-.1043E 00	.1163E 01	.1926E 01	.4864E 00
25	.1249E-01	-.4383E 01	-.2785E 01	-.5698E-01	.5420E 00	.3329E 01	.8408E 00
30	.7535E-02	-.4891E 01	-.2659E 01	-.3188E-01	.2876E 00	.5532E 01	.1397E 01
35	.4733E-02	-.5353E 01	-.2628E 01	-.1605E-01	.1819E 00	.8784E 01	.2218E 01
40	.3332E-02	-.5704E 01	-.2467E 01	-.1029E-01	.6610E-01	.1248E 02	.3151E 01
45	.2435E-02	-.6018E 01	-.2657E 01	-.8797E-02	.3997E-01	.1708E 02	.4313E 01
50	.1861E-02	-.6287E 01	-.2368E 01	-.4211E-02	.2964E-01	.2256E 02	.5702E 01
55	.1442E-02	-.6541E 01	-.2603E 01	-.3244E-02	.1106E-01	.2871E 02	.7248E 01
60	.1191E-02	-.6733E 01	-.2631E 01	-.2413E-02	.9944E-02	.3492E 02	.8818E 01
65	.9801E-03	-.6928E 01	-.2478E 01	-.2161E-02	.2883E-02	.4242E 02	.1071E 02
70	.8126E-03	-.7142E 01	-.2448E 01	-.1214E-02	.1084E-01	.5253E 02	.1327E 02
75	.7015E-03	-.7264E 01	-.2045E 01	-.1120E-02	.1092E-02	.6066E 02	.1532E 02
80	.5876E-03	-.7439E 01	-.1208E 01	-.4794E-03	.7392E-02	.7076E 02	.1787E 02
85	.5461E-03	-.7513E 01	-.1671E 01	-.5694E-03	-.1084E-02	.7613E 02	.1925E 02
90	.4966E-03	-.7608E 01	-.5554E 00	-.1683E-03	.4602E-02	.8376E 02	.2118E 02
95	.4817E-03	-.7638E 01	-.7496E 00	-.2082E-03	-.4570E-03	.8631E 02	.2180E 02
100	.4695E-03	-.7677E 01	-.4751E 00	-.1248E-03	.3813E-02	.8970E 02	.2265E 02
105	.4744E-03	-.7654E 01	-.1852E 00	-.4663E-04	-.1967E-02	.8764E 02	.2213E 02
110	.4703E-03	-.7662E 01	-.7791E 00	-.2021E-03	-.2663E-02	.8840E 02	.2232E 02
115	.4460E-03	-.7715E 01	.1327E 00	.2894E-04	.3529E-02	.9323E 02	.2354E 02
120	.4465E-03	-.7710E 01	.1075E 01	.2306E-03	.2310E-02	.9270E 02	.2341E 02
125	.4703E-03	-.7662E 01	.1583E 01	.3444E-03	.1304E-02	.8872E 02	.2242E 02
130	.4987E-03	-.7604E 01	.2647E 01	.5527E-03	.2987E-02	.8437E 02	.2104E 02
135	.5328E-03	-.7511E 01	.2008E 01	.5349E-03	-.4682E-03	.7602E 02	.1920E 02
140	.5611E-03	-.7486E 01	.1465E 01	.3732E-03	.2014E-02	.7409E 02	.1871E 02
145	.5907E-03	-.7434E 01	.1424E 01	.3710E-03	.2050E-03	.7058E 02	.1782E 02
150	.6219E-03	-.7383E 01	.1568E 01	.3759E-03	.2188E-03	.6704E 02	.1693E 02
155	.6572E-03	-.7331E 01	.1619E 01	.3957E-03	.2272E-03	.6350E 02	.1604E 02
160	.6892E-03	-.7280E 01	.1670E 01	.4166E-03	.2392E-03	.6032E 02	.1523E 02
165	.7256E-03	-.7229E 01	.1722E 01	.4386E-03	.2518E-03	.6730E 02	.1447E 02
170	.7639E-03	-.7177E 01	.1773E 01	.4617E-03	.2651E-03	.5443E 02	.1378E 02
175	.8047E-03	-.7126E 01	.1825E 01	.4860E-03	.2790E-03	.5170E 02	.1306E 02
180	.8466E-03	-.7074E 01	.0000E 00	.0000E 00	.0000E 00	.4911E 02	.1240E 02

SCAT= .4157E-01 30/45= .3087E 01 45/135= .4453E 01 SCAT30-130= .1050E-01

CH42/164 26164 0525H ST610 7-120

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1813E 00	-.1708E 01	-.1693E 00	-.1006E 01	.0000E 00	.1697E 00	.5006E-01
5	.9350E-01	-.2370E 01	-.8927E 00	-.4944E 00	.5866E 01	.3290E 00	.9861E-01
10	.5036E-01	-.2989E 01	-.1419E 01	-.2525E 00	.2772E 01	.6109E 00	.1831E 00
15	.2833E-01	-.3564E 01	-.1849E 01	-.1339E 00	.1589E 01	.1086E 01	.3255E 00
20	.1664E-01	-.4096E 01	-.2189E 01	-.7369E-01	.6900E 00	.1849E 01	.5540E 00
25	.1021E-01	-.4584E 01	-.2600E 01	-.4417E-01	.3583E 00	.3015E 01	.9029E 00
30	.6357E-02	-.5058E 01	-.2753E 01	-.2519E-01	.2176E 00	.4839E 01	.1450E 01
35	.4159E-02	-.5483E 01	-.2574E 01	-.1386E-01	.1298E 00	.7397E 01	.2217E 01
40	.2949E-02	-.5826E 01	-.2750E 01	-.9349E-02	.5172E-01	.1043E 02	.3126E 01
45	.2133E-02	-.6150E 01	-.2691E 01	-.6035E-02	.3798E-01	.1442E 02	.4322E 01
50	.1607E-02	-.6434E 01	-.2674E 01	-.4142E-02	.2170E-01	.1915E 02	.5739E 01
55	.1245E-02	-.6689E 01	-.2600E 01	-.2888E-02	.1456E-01	.2471E 02	.7405E 01
60	.9930E-03	-.6915E 01	-.2087E 01	-.1751E-02	.1904E-01	.3098E 02	.9285E 01
65	.8402E-03	-.7082E 01	-.2681E 01	-.1735E-02	.1847E-03	.3661E 02	.1097E 02
70	.6889E-03	-.7280E 01	-.1610E 01	-.8796E-03	.1057E-01	.4466E 02	.1308E 02
75	.6165E-03	-.7392E 01	-.2191E 01	-.9315E-03	-.1168E-02	.4990E 02	.1496E 02
80	.5352E-03	-.7533E 01	-.1682E 01	-.5944E-03	.3864E-02	.5748E 02	.1723E 02
85	.4833E-03	-.7635E 01	-.1194E 01	-.3653E-03	.2628E-02	.6365E 02	.1908E 02
90	.4514E-03	-.7703E 01	-.9814E 00	-.2673E-03	.1122E-02	.6815E 02	.2042E 02
95	.4281E-03	-.7756E 01	-.4405E 00	-.1096E-03	.1807E-02	.7186E 02	.2154E 02
100	.4185E-03	-.7779E 01	.5923E 00	.1406E-03	.2867E-02	.7350E 02	.2203E 02
105	.4308E-03	-.7750E 01	.3962E 00	.9182E-04	-.5693E-03	.7141E 02	.2140E 02
110	.4388E-03	-.7731E 01	-.1563E 01	-.3375E-03	-.4920E-02	.7011E 02	.2102E 02
115	.4094E-03	-.7801E 01	.4574E 00	.9221E-04	.4924E-02	.7515E 02	.2252E 02
120	.4174E-03	-.7781E 01	.4654E 00	.9174E-04	-.5379E-05	.7370E 02	.2209E 02
125	.4254E-03	-.7762E 01	.1081E 01	.3732E-03	.3228E-02	.7231E 02	.2167E 02
130	.4580E-03	-.7689E 01	.1220E 01	.2473E-03	-.1442E-02	.6717E 02	.2013E 02
135	.4796E-03	-.7643E 01	.6686E 00	.1764E-03	-.8132E-03	.6415E 02	.1923E 02
140	.4950E-03	-.7611E 01	.1166E 01	.2369E-03	.6941E-03	.6215E 02	.1863E 02
145	.5156E-03	-.7570E 01	.1207E 01	.2468E-03	.1134E-03	.5966E 02	.1788E 02
150	.5372E-03	-.7529E 01	.1248E 01	.2572E-03	.1182E-03	.5727E 02	.1716E 02
155	.5596E-03	-.7488E 01	.1289E 01	.2679E-03	.1231E-03	.5497E 02	.1648E 02
160	.5830E-03	-.7447E 01	.1330E 01	.2791E-03	.1285E-03	.5277E 02	.1581E 02
165	.6074E-03	-.7406E 01	.1371E 01	.2908E-03	.1336E-03	.5065E 02	.1518E 02
170	.6327E-03	-.7365E 01	.1412E 01	.3029E-03	.1392E-03	.4862E 02	.1457E 02
175	.6592E-03	-.7325E 01	.1453E 01	.3156E-03	.1450E-03	.4667E 02	.1399E 02
180	.6867E-03	-.7284E 01	.0000E 00	.0000E 00	.0000E 00	.4480E 02	.1343E 02

SCAT= .3076E-01 30/45= .2980E 01 45/135= .4448E 01 SCAT30-130= .9220E-02

CH42/165 26164 0540H ST610 8-140M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2879E 00	-.1245E 01	-.1831E 00	-.1667E 01	.0000E 00	.1425E 00	.3874E-01
5	.1407E 00	-.1961E 01	-.9606E 00	-.7837E 00	.1035E 02	.2916E 00	.7927E-01
10	.7228E-01	-.2627E 01	-.1518E 01	-.3808E 00	.4617E 01	.5675E 00	.1543E 00
15	.3906E-01	-.3243E 01	-.1965E 01	-.1933E 00	.2148E 01	.1050E 01	.2858E 00
20	.2219E-01	-.3808E 01	-.2309E 01	-.1024E 00	.1042E 01	.1849E 01	.5028E 00
25	.1325E-01	-.4323E 01	-.2665E 01	-.5845E-01	.5033E 00	.3098E 01	.8414E 00
30	.8153E-02	-.4809E 01	-.2823E 01	-.3297E-01	.2920E 00	.5031E 01	.1368E 01
35	.5276E-02	-.5245E 01	-.2602E 01	-.1775E-01	.1744E 00	.7775E 01	.2114E 01
40	.3727E-02	-.5592E 01	-.2810E 01	-.1204E-01	.6544E-01	.1101E 02	.2993E 01
45	.2677E-02	-.5923E 01	-.2559E 01	-.7249E-02	.5486E-01	.1532E 02	.4166E 01
50	.2044E-02	-.6193E 01	-.2873E 01	-.5611E-02	.1877E-01	.2007E 02	.5466E 01
55	.1555E-02	-.6466E 01	-.2657E 01	-.3678E-02	.2216E-01	.2638E 02	.7172E 01
60	.1234E-02	-.6698E 01	-.2620E 01	-.2675E-02	.1149E-01	.3325E 02	.9038E 01
65	.1000E-02	-.6907E 01	-.2501E 01	-.1940E-02	.8427E-02	.4101E 02	.1115E 02
70	.8311E-03	-.7093E 01	-.2377E 01	-.1412E-02	.6043E-02	.4936E 02	.1342E 02
75	.7079E-03	-.7253E 01	-.2372E 01	-.1129E-02	.3240E-02	.5795E 02	.1575E 02
80	.6093E-03	-.7403E 01	-.1678E 01	-.6755E-03	.5196E-02	.6732E 02	.1830E 02
85	.5504E-03	-.7505E 01	-.1380E 01	-.4785E-03	.2257E-02	.7453E 02	.2026E 02
90	.5086E-03	-.7584E 01	-.1253E 01	-.3818E-03	.1108E-02	.8065E 02	.2192E 02
95	.4753E-03	-.7652E 01	-.4849E-01	-.1353E-04	.4220E-02	.8630E 02	.2346E 02
100	.4741E-03	-.7654E 01	-.3709E 00	-.9744E-04	-.9625E-03	.8652E 02	.2352E 02
105	.4656E-03	-.7672E 01	-.2753E 00	-.6789E-04	.3388E-03	.8810E 02	.2395E 02
110	.4597E-03	-.7685E 01	-.1164E 01	-.2656E-03	-.2269E-02	.8924E 02	.2424E 02
115	.4365E-03	-.7737E 01	.4360E 00	.9368E-04	.4117E-02	.9397E 02	.2556E 02
120	.4447E-03	-.7718E 01	.4273E 00	.8967E-04	-.4609E-04	.9225E 02	.2508E 02
125	.4525E-03	-.7701E 01	.1439E 01	.3011E-03	.2424E-02	.9065E 02	.2464E 02
130	.4788E-03	-.7644E 01	.2243E 01	.4848E-03	.2108E-02	.8568E 02	.2329E 02
135	.5211E-03	-.7560E 01	.4818E 00	.1056E-03	-.4345E-02	.7872E 02	.2140E 02
140	.5303E-03	-.7542E 01	.1220E 01	.2657E-03	.1836E-02	.7735E 02	.2103E 02
145	.5535E-03	-.7499E 01	.1262E 01	.2774E-03	.1332E-03	.7411E 02	.2028E 02
150	.5777E-03	-.7456E 01	.1305E 01	.2895E-03	.1390E-03	.7101E 02	.1930E 02
155	.6030E-03	-.7414E 01	.1348E 01	.3022E-03	.1461E-03	.6803E 02	.1849E 02
160	.6293E-03	-.7371E 01	.1391E 01	.3154E-03	.1514E-03	.6518E 02	.1772E 02
165	.6569E-03	-.7328E 01	.1434E 01	.3292E-03	.1580E-03	.6245E 02	.1698E 02
170	.6856E-03	-.7285E 01	.1477E 01	.3435E-03	.1649E-03	.5983E 02	.1627E 02
175	.7156E-03	-.7242E 01	.1519E 01	.3586E-03	.1722E-03	.5739E 02	.1558E 02
180	.7469E-03	-.7200E 01	.0000E 00	.0000E 00	.0000E 00	.5493E 02	.1493E 02

SCAT= .4102E-01 30/45= .3046E 01 45/135= .5137E 01 SCAT30-130= .1115E-01

CH42/166 26164 0555H ST610 9-160M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1801E 00	-.1714E 01	-.2162E 00	-.1178E 01	.0000E 00	.1104E 00	.2839E-01
5	.7730E-01	-.2560E 01	-.1120E 01	-.4783E 00	.8013E 01	.2571E 00	.6613E-01
10	.3557E-01	-.3336E 01	-.1744E 01	-.2066E 00	.3115E 01	.5588E 00	.1437E 00
15	.1754E-01	-.4043E 01	-.2217E 01	-.9477E-01	.1287E 01	.1133E 01	.2913E 00
20	.9267E-02	-.4681E 01	-.2548E 01	-.4606E-01	.5582E 00	.2145E 01	.5517E 00
25	.5248E-02	-.5250E 01	-.2903E 01	-.2471E-01	.2445E 00	.3787E 01	.9742E 00
30	.3091E-02	-.5779E 01	-.2821E 01	-.1249E-01	.1401E 00	.6430E 01	.1654E 01
35	.2001E-02	-.6214E 01	-.2724E 01	-.6993E-02	.6290E-01	.9933E 01	.2555E 01
40	.1391E-02	-.6578E 01	-.2516E 01	-.4088E-02	.3329E-01	.1429E 02	.3678E 01
45	.1034E-02	-.6874E 01	-.2158E 01	-.2410E-02	.1923E-01	.1922E 02	.4944E 01
50	.8237E-03	-.7102E 01	-.2435E 01	-.1955E-02	.5219E-02	.2413E 02	.6208E 01
55	.6531E-03	-.7334E 01	-.2409E 01	-.1415E-02	.6181E-02	.3043E 02	.7827E 01
60	.5296E-03	-.7543E 01	-.2672E 01	-.1168E-02	.2831E-02	.3753E 02	.9655E 01
65	.4276E-03	-.7757E 01	-.1204E 01	-.4184E-03	.8596E-02	.4648E 02	.1195E 02
70	.3911E-03	-.7847E 01	-.2451E 01	-.6972E-03	-.3195E-02	.5082E 02	.1307E 02
75	.3303E-03	-.8016E 01	-.1431E 01	-.3339E-03	.4165E-02	.6018E 02	.1548E 02
80	.3011E-03	-.8108E 01	-.2121E 00	-.4409E-04	.3321E-02	.6600E 02	.1698E 02
85	.2973E-03	-.8171E 01	-.1156E 01	-.2179E-03	-.1992E-02	.6685E 02	.1720E 02
90	.2783E-03	-.8187E 01	.4467E 00	.7796E-04	.3390E-02	.7142E 02	.1837E 02
95	.2851E-03	-.8163E 01	.1563E 01	.2728E-03	.2232E-02	.6972E 02	.1793E 02
100	.3089E-03	-.8083E 01	.9615E 00	.1700E-03	-.1178E-02	.6434E 02	.1656E 02
105	.3237E-03	-.8036E 01	.4503E 00	.7852E-04	-.1048E-02	.6140E 02	.1579E 02
110	.3306E-03	-.8015E 01	.8509E-01	.1435E-04	-.7359E-03	.6012E 02	.1546E 02
115	.3318E-03	-.8011E 01	.5762E 00	.9440E-04	.9179E-03	.5990E 02	.1541E 02
120	.3401E-03	-.7986E 01	.1108E 01	.1803E-03	.9842E-03	.5845E 02	.1503E 02
125	.3558E-03	-.7941E 01	.2199E 01	.3672E-03	.2142E-02	.5586E 02	.1437E 02
130	.3878E-03	-.7855E 01	.3891E 01	.7030E-03	.3847E-02	.5125E 02	.1318E 02
135	.4492E-03	-.7708E 01	.8336E 00	.1584E-03	-.6240E-02	.4425E 02	.1138E 02
140	.4630E-03	-.7678E 01	.2100E 01	.4058E-03	.2835E-02	.4293E 02	.1104E 02
145	.4984E-03	-.7604E 01	.2174E 01	.4368E-03	.3587E-03	.3988E 02	.1026E 02
150	.5365E-03	-.7530E 01	.2248E 01	.4703E-03	.3829E-03	.3704E 02	.9528E 01
155	.5776E-03	-.7457E 01	.2321E 01	.5062E-03	.4122E-03	.3441E 02	.8851E 01
160	.6218E-03	-.7383E 01	.2395E 01	.5449E-03	.4437E-03	.3197E 02	.8222E 01
165	.6693E-03	-.7309E 01	.2469E 01	.5866E-03	.4776E-03	.2969E 02	.7638E 01
170	.7205E-03	-.7236E 01	.2542E 01	.6315E-03	.5141E-03	.2758E 02	.7095E 01
175	.7756E-03	-.7162E 01	.2616E 01	.6798E-03	.5535E-03	.2562E 02	.6591E 01
180	.8349E-03	-.7088E 01	.0000E 00	.0000E 00	.0000E 00	.2380E 02	.6123E 01

SCAT= .1987E-01 30/45= .2989E 01 45/135= .2302E 01 SCAT30-130= .5112E-02

CH42/167 26164 0610H ST610 10-200M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1896E 00	-.1663E 01	-.1736E 00	-.1071E 01	.0000E 00	.1586E 00	.4403E-01
5	.9618E-01	-.2342E 01	-.9179E 00	-.5188E 00	.6526E 01	.3126E 00	.8039E-01
10	.5091E-01	-.2978E 01	-.1464E 01	-.2611E 00	.2952E 01	.5906E 00	.1670E 00
15	.2812E-01	-.3571E 01	-.1915E 01	-.1365E 00	.1420E 01	.1069E 01	.3024E 00
20	.1621E-01	-.4122E 01	-.2278E 01	-.7401E-01	.7140E 00	.1855E 01	.5246E 00
25	.9747E-02	-.4631E 01	-.2600E 01	-.4216E-01	.3649E 00	.3088E 01	.8722E 00
30	.6068E-02	-.5105E 01	-.2759E 01	-.2408E-01	.2077E 00	.4955E 01	.1401E 01
35	.3966E-02	-.5530E 01	-.2819E 01	-.1424E-01	.1128E 00	.7581E 01	.2144E 01
40	.2723E-02	-.5906E 01	-.2991E 01	-.9267E-02	.5700E-01	.1104E 02	.3122E 01
45	.1915E-02	-.6258E 01	-.2737E 01	-.5497E-02	.4320E-01	.1570E 02	.4441E 01
50	.1435E-02	-.6547E 01	-.2592E 01	-.3599E-02	.2175E-01	.2095E 02	.5925E 01
55	.1121E-02	-.6794E 01	-.2559E 01	-.2564E-02	.1186E-01	.2683E 02	.7588E 01
60	.8971E-03	-.7016E 01	-.2771E 01	-.2045E-02	.5941E-02	.3352E 02	.9477E 01
65	.7186E-03	-.7238E 01	-.2111E 01	-.1193E-02	.9764E-02	.4184E 02	.1183E 02
70	.6145E-03	-.7395E 01	-.2640E 01	-.1172E-02	.2306E-03	.4893E 02	.1383E 02
75	.5122E-03	-.7577E 01	-.7771E 00	-.2871E-03	.1015E-01	.5870E 02	.1660E 02
80	.4872E-03	-.7627E 01	-.1413E 01	-.4584E-03	-.1963E-02	.6172E 02	.1746E 02
85	.4472E-03	-.7713E 01	-.1251E 01	-.3537E-03	.1200E-02	.6724E 02	.1901E 02
90	.4163E-03	-.7784E 01	-.1027E 01	-.2577E-03	.1100E-02	.7222E 02	.2042E 02
95	.3938E-03	-.7840E 01	.5104E 00	.1197E-03	.4325E-02	.7635E 02	.2159E 02
100	.4043E-03	-.7813E 01	.8302E 00	.1915E-03	.8224E-03	.7437E 02	.2108E 02
105	.4210E-03	-.7773E 01	-.1545E 01	-.3346E-03	-.6029E-02	.7142E 02	.2020E 02
110	.3918E-03	-.7845E 01	.5813E 00	.1175E-03	.5181E-02	.7675E 02	.2170E 02
115	.4020E-03	-.7819E 01	-.1026E 00	-.2006E-04	-.1676E-02	.7479E 02	.2118E 02
120	.4003E-03	-.7823E 01	.2419E 01	.4760E-03	.5685E-02	.7612E 02	.2124E 02
125	.4418E-03	-.7725E 01	.3383E 00	.6763E-04	-.4680E-02	.6805E 02	.1924E 02
130	.4477E-03	-.7711E 01	.2919E 01	.5975E-03	.6077E-02	.6716E 02	.1890E 02
135	.4999E-03	-.7601E 01	.8505E 00	.1799E-03	-.4785E-02	.6015E 02	.1702E 02
140	.5156E-03	-.7570E 01	.1560E 01	.3325E-03	.1749E-02	.5832E 02	.1649E 02
145	.5446E-03	-.7516E 01	.1615E 01	.3512E-03	.2148E-03	.5521E 02	.1561E 02
150	.5752E-03	-.7461E 01	.1670E 01	.3710E-03	.2268E-03	.5227E 02	.1478E 02
155	.6076E-03	-.7406E 01	.1725E 01	.3919E-03	.2395E-03	.4948E 02	.1399E 02
160	.6418E-03	-.7351E 01	.1779E 01	.4139E-03	.2528E-03	.4685E 02	.1326E 02
165	.6779E-03	-.7296E 01	.1834E 01	.4372E-03	.2670E-03	.4435E 02	.1254E 02
170	.7161E-03	-.7242E 01	.1889E 01	.4618E-03	.2820E-03	.4199E 02	.1187E 02
175	.7564E-03	-.7187E 01	.1944E 01	.4878E-03	.2979E-03	.3975E 02	.1124E 02
180	.7990E-03	-.7132E 01	.0000E 00	.0000E 00	.0000E 00	.3763E 02	.1064E 02

SCAT= .3007E-01 30/45= .3169E 01 45/135= .3830E 01 SCAT30-130= .8501E-02

CH42/168 27164 2335H 28 51N 66 36.5W T=21.0

THETA	SIGMA THETA	LN SIGMA THE''	N-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3913E 00	-.9383E 00	-.2229E 00	-.2609E 01	.0000E 00	.9252E-01	.1930E-01
5	.1636E 00	-.1810E 01	-.1161E 01	-.1037E 01	.1802E 02	.2213E 00	.4618E-01
10	.7316E-01	-.2615E 01	-.1819E 01	-.4375E 00	.6865E 01	.4948E 00	.1032E 00
15	.3499E-01	-.3353E 01	-.2331E 01	-.1959E 00	.2780E 01	.1035E 01	.2158E 00
20	.1789E-01	-.4023E 01	-.2704E 01	-.9290E-01	.1180E 01	.2025E 01	.4220E 00
25	.9786E-02	-.4627E 01	-.3022E 01	-.4750E-01	.5202E 00	.3700E 01	.7716E 00
30	.5641E-02	-.5178E 01	-.3119E 01	-.2467E-01	.2616E 00	.6418E 01	.1339E 01
35	.3488E-02	-.5658E 01	-.2767E 01	-.1235E-01	.1423E 00	.1038E 02	.2165E 01
40	.2410E-02	-.6028E 01	-.3328E 01	-.6956E-02	.3886E-01	.1502E 02	.3133E 01
45	.1629E-02	-.6420E 01	-.2223E 01	-.3920E-02	.5771E-01	.2223E 02	.4638E 01
50	.1287E-02	-.6656E 01	-.3037E 01	-.3706E-02	.2452E-02	.2814E 02	.5868E 01
55	.9634E-03	-.6945E 01	-.2248E 01	-.1961E-02	.1999E-01	.3758E 02	.7838E 01
60	.7922E-03	-.7141E 01	-.2591E 01	-.1700E-02	.2937E-02	.4570E 02	.9532E 01
65	.6438E-03	-.7348E 01	-.1773E 01	-.9086E-03	.9074E-02	.5623E 02	.1173E 02
70	.5645E-03	-.7480E 01	-.1943E 01	-.8115E-03	.1112E-02	.6413E 02	.1338E 02
75	.4937E-03	-.7614E 01	-.2731E 01	-.9142E-03	-.1176E-02	.7333E 02	.1529E 02
80	.4139E-03	-.7790E 01	-.5222E 00	-.1478E-03	.8782E-02	.8746E 02	.1824E 02
85	.4010E-03	-.7821E 01	-.1832E 01	-.4569E-03	-.3542E-02	.9028E 02	.1883E 02
90	.3612E-03	-.7926E 01	-.2092E 00	-.4654E-04	.4702E-02	.1002E 03	.2091E 02
95	.3571E-03	-.7937E 01	.7544E 00	.1615E-03	.2384E-02	.1014E 03	.2114E 02
100	.3712E-03	-.7899E 01	-.4671E 00	-.8365E-04	-.2809E-02	.9753E 02	.2034E 02
105	.3633E-03	-.7919E 01	.1338E 00	.2604E-04	.1257E-02	.9949E 02	.2078E 02
110	.3662E-03	-.7912E 01	-.5325E 00	-.9815E-04	-.1423E-02	.9887E 02	.2062E 02
115	.3576E-03	-.7936E 01	.1022E 01	.1822E-03	.3212E-02	.1012E 03	.2112E 02
120	.3735E-03	-.7893E 01	.1424E 01	.2562E-03	.8482E-03	.9693E 02	.2022E 02
125	.3959E-03	-.7834E 01	.3104E 00	.5556E-04	-.2299E-02	.9146E 02	.1907E 02
130	.4007E-03	-.7822E 01	.3442E 01	.6369E-03	.6681E-02	.9035E 02	.1884E 02
135	.4563E-03	-.7692E 01	.7026E 00	.1353E-03	-.5747E-02	.7935E 02	.1658E 02
140	.4681E-03	-.7667E 01	.1509E 01	.3076E-03	.1974E-02	.7734E 02	.1613E 02
145	.4949E-03	-.7611E 01	.1645E 01	.3252E-03	.2021E-03	.7315E 02	.1526E 02
150	.5233E-03	-.7555E 01	.1701E 01	.3439E-03	.2137E-03	.6918E 02	.1443E 02
155	.5533E-03	-.7500E 01	.1756E 01	.3636E-03	.2260E-03	.6543E 02	.1365E 02
160	.5851E-03	-.7444E 01	.1812E 01	.3845E-03	.2389E-03	.6188E 02	.1291E 02
165	.6186E-03	-.7388E 01	.1868E 01	.4065E-03	.2527E-03	.5853E 02	.1221E 02
170	.6541E-03	-.7332E 01	.1924E 01	.4298E-03	.2671E-03	.5535E 02	.1154E 02
175	.6916E-03	-.7277E 01	.1979E 01	.4545E-03	.2826E-03	.5235E 02	.1092E 02
180	.7313E-03	-.7221E 01	.0000E 00	.0000E 00	.0000E 00	.4951E 02	.1033E 02

SCAT= .3620E-01 30/45= .3463E 01 45/135= .3570E 01 SCAT30-130= .7551E-02

CH42/169 28164 0030H 28 49.5N 66 27W T=21.3

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.5393E 00	-.6175E 00	-.2203E 00	-.3569E 01	.0000E 00	.9343E-01	.1938E-01
5	.2278E 00	-.1479E 01	-.1148E 01	-.1433E 01	.2449E 02	.2212E 00	.4564E-01
10	.1028E 00	-.2275E 01	-.1800E 01	-.6102E 00	.9424E 01	.4901E 00	.1011E 00
15	.4956E-01	-.3005E 01	-.2307E 01	-.2755E 00	.3836E 01	.1017E 01	.2098E 00
20	.2552E-01	-.3668E 01	-.2678E 01	-.1316E 00	.1649E 01	.1974E 01	.4074E 00
25	.1404E-01	-.4266E 01	-.3046E 01	-.6856E-01	.7221E 00	.3589E 01	.7406E 00
30	.8057E-02	-.4821E 01	-.3029E 01	-.3445E-01	.3909E 00	.6254E 01	.1291E 01
35	.5051E-02	-.5288E 01	-.3032E 01	-.1927E-01	.1739E 00	.9976E 01	.2059E 01
40	.3369E-02	-.5693E 01	-.2888E 01	-.1113E-01	.9327E-01	.1495E 02	.3086E 01
45	.2398E-02	-.6033E 01	-.2560E 01	-.6497E-02	.5511E-01	.2101E 02	.4336E 01
50	.1831E-02	-.6303E 01	-.2658E 01	-.4696E-02	.2064E-01	.2752E 02	.5679E 01
55	.1421E-02	-.6556E 01	-.2326E 01	-.2984E-02	.1962E-01	.3546E 02	.7317E 01
60	.1161E-02	-.6759E 01	-.2272E 01	-.2712E-02	.8846E-02	.4341E 02	.8958E 01
65	.9679E-03	-.6940E 01	-.3266E 01	-.2384E-02	-.1975E-02	.5206E 02	.1074E 02
70	.7598E-03	-.7182E 01	-.2124E 01	-.1167E-02	.1373E-01	.6632E 02	.1369E 02
75	.6563E-03	-.7329E 01	-.2639E 01	-.1095E-02	.1050E-02	.7678E 02	.1585E 02
80	.5607E-03	-.7486E 01	-.1193E 01	-.4482E-03	.7414E-02	.8987E 02	.1855E 02
85	.5216E-03	-.7559E 01	-.2632E 01	-.8347E-03	-.4429E-02	.9661E 02	.1994E 02
90	.4467E-03	-.7709E 01	-.3035E 00	-.8369E-04	.8606E-02	.1123E 03	.2317E 02
95	.4414E-03	-.7725E 01	-.3829E 00	-.9837E-04	-.1687E-03	.1142E 03	.2356E 02
100	.4328E-03	-.7745E 01	-.1964E 00	-.4731E-04	.5852E-03	.1164E 03	.2402E 02
105	.4287E-03	-.7755E 01	-.1470E 00	-.3348E-04	.1508E-03	.1175E 03	.2424E 02
110	.4258E-03	-.7762E 01	-.5358E 00	-.1148E-03	-.9322E-03	.1183E 03	.2442E 02
115	.4158E-03	-.7785E 01	.1273E 00	.2587E-04	.1613E-02	.1212E 03	.2501E 02
120	.4180E-03	-.7780E 01	.5993E 00	.1186E-03	.1063E-02	.1205E 03	.2488E 02
125	.4284E-03	-.7755E 01	.2645E 01	.5366E-03	.4789E-02	.1176E 03	.2427E 02
130	.4752E-03	-.7652E 01	.1222E 01	.2571E-03	-.3208E-02	.1060E 03	.2188E 02
135	.4976E-03	-.7606E 01	.1035E 01	.2108E-03	-.6507E-03	.1013E 03	.2090E 02
140	.5167E-03	-.7568E 01	.1389E 01	.2459E-03	.8894E-03	.9752E 02	.2012E 02
145	.5426E-03	-.7519E 01	.1438E 01	.3106E-03	.1694E-03	.9287E 02	.1917E 02
150	.5697E-03	-.7470E 01	.1487E 01	.3262E-03	.1779E-03	.8846E 02	.1825E 02
155	.5981E-03	-.7422E 01	.1536E 01	.3425E-03	.1867E-03	.8425E 02	.1739E 02
160	.6280E-03	-.7373E 01	.1584E 01	.3596E-03	.1961E-03	.8024E 02	.1656E 02
165	.6594E-03	-.7324E 01	.1633E 01	.3775E-03	.2089E-03	.7642E 02	.1577E 02
170	.6923E-03	-.7275E 01	.1682E 01	.3964E-03	.2162E-03	.7278E 02	.1502E 02
175	.7269E-03	-.7227E 01	.1731E 01	.4162E-03	.2270E-03	.6932E 02	.1431E 02
180	.7633E-03	-.7178E 01	.0000E 00	.0000E 00	.0000E 00	.6602E 02	.1362E 02

SCAT= .5039E-01 30/45= .3360E 01 45/135= .4819E 01 SCAT30-130= .1040E-01

CH42/170 29164 0130H 28 35.5N 66 19.5W T=22.3

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3052E 00	-.1187E 01	-.1913E 00	-.1842E 01	.0000E 00	.1276E 00	.3195E-01
5	.1445E 00	-.1935E 01	-.1005E 01	-.8303E 00	.1160E 02	.2696E 00	.6752E-01
10	.7200E-01	-.2631E 01	-.1590E 01	-.3920E 00	.5023E 01	.5408E 00	.1365E 00
15	.3780E-01	-.3276E 01	-.2060E 01	-.1937E 00	.2272E 01	.1030E 01	.2581E 00
20	.2089E-01	-.3868E 01	-.2424E 01	-.1000E 00	.1079E 01	.1864E 01	.4668E 00
25	.1216E-01	-.4409E 01	-.2853E 01	-.5654E-01	.4989E 00	.3201E 01	.8018E 00
30	.7231E-02	-.4924E 01	-.2737E 01	-.2852E-01	.3211E 00	.5386E 01	.1349E 01
35	.4742E-02	-.5351E 01	-.3009E 01	-.1798E-01	.1208E 00	.8212E 01	.2087E 01
40	.3173E-02	-.5753E 01	-.2955E 01	-.1069E-01	.8564E-01	.1227E 02	.3074E 01
45	.2240E-02	-.6101E 01	-.2546E 01	-.6041E-02	.8326E-01	.1738E 02	.4394E 01
50	.1713E-02	-.6369E 01	-.3395E 01	-.5426E-02	.7040E-02	.2273E 02	.5694E 01
55	.1239E-02	-.6693E 01	-.1557E 01	-.1799E-02	.4158E-01	.3142E 02	.7869E 01
60	.1082E-02	-.6829E 01	-.3219E 01	-.2818E-02	-.1167E-01	.3597E 02	.9010E 01
65	.8366E-03	-.7086E 01	-.1672E 01	-.1117E-02	.1949E-01	.4655E 02	.1166E 02
70	.7391E-03	-.7210E 01	-.2976E 01	-.1572E-02	-.5221E-02	.5269E 02	.1320E 02
75	.6019E-03	-.7415E 01	-.1641E 01	-.6932E-03	.1007E-01	.6470E 02	.1620E 02
80	.5414E-03	-.7521E 01	-.1686E 01	-.6029E-03	.1084E-02	.7192E 02	.1801E 02
85	.4888E-03	-.7624E 01	-.1527E 01	-.4682E-03	.1564E-02	.7967E 02	.1995E 02
90	.4480E-03	-.7711E 01	-.2030E 00	-.5602E-04	.4723E-02	.8695E 02	.2177E 02
95	.4431E-03	-.7722E 01	-.1442E 00	-.3741E-04	.2158E-03	.8789E 02	.2201E 02
100	.4398E-03	-.7729E 01	-.9704E 00	-.2330E-03	-.2243E-02	.8854E 02	.2217E 02
105	.4195E-03	-.7777E 01	.5643E-01	.1263E-04	.2824E-02	.9284E 02	.2326E 02
110	.4206E-03	-.7774E 01	.2603E 00	.5609E-04	.4979E-03	.9259E 02	.2319E 02
115	.4255E-03	-.7762E 01	-.8083E-01	-.1674E-04	-.8346E-03	.9153E 02	.2292E 02
120	.4240E-03	-.7766E 01	.1940E 01	.4804E-03	.4780E-02	.9184E 02	.2300E 02
125	.4589E-03	-.7687E 01	-.4457E 00	-.9113E-04	-.6632E-03	.8485E 02	.2126E 02
130	.4510E-03	-.7704E 01	.2414E 01	.4930E-03	.6699E-02	.8635E 02	.2163E 02
135	.4940E-03	-.7613E 01	.4429E 00	.9192E-04	-.4599E-02	.7883E 02	.1974E 02
140	.5020E-03	-.7597E 01	.1027E 01	.2111E-03	.1980E-02	.7757E 02	.1943E 02
145	.5204E-03	-.7561E 01	.1063E 01	.2188E-03	.8077E-04	.7482E 02	.1874E 02
150	.5395E-03	-.7525E 01	.1099E 01	.2249E-03	.9205E-04	.7217E 02	.1808E 02
155	.5593E-03	-.7489E 01	.1135E 01	.2352E-03	.9541E-04	.6962E 02	.1744E 02
160	.5799E-03	-.7453E 01	.1171E 01	.2438E-03	.9890E-04	.6716E 02	.1682E 02
165	.6011E-03	-.7417E 01	.1207E 01	.2528E-03	.1025E-03	.6478E 02	.1622E 02
170	.6232E-03	-.7381E 01	.1243E 01	.2621E-03	.1069E-03	.6249E 02	.1565E 02
175	.6461E-03	-.7345E 01	.1279E 01	.2717E-03	.1102E-03	.6027E 02	.1510E 02
180	.6698E-03	-.7309E 01	.0000E 00	.0000E 00	.0000E 00	.5814E 02	.1456E 02

SCAT= .3894E-01 30/45= .3228E 01 45/135= .4535E 01 SCAT30-130= .9853E-02

CH42/171 28/64 0215H 28 28.5N 66 12.5W T=23.3

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
165	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
170	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
175	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
180	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SCAT= .3780E-01 30/45= .3499E 01 45/135= .4026E 01 SCAT30-130= .9169E-02

CH42/172 29164 0330H 28 34N 66 07W T=22.8

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	.6174E-03	-.7390E 01	.6016E 00	.1364E-03	[illegible]	[illegible]	[illegible]
160	.6293E-03	-.7371E 01	.6207E 00	.1391E-03	.9015E-04	.8400E 02	.2223E 02
165	.6414E-03	-.7352E 01	.6398E 00	.1417E-03	.5074E-04	.8249E 02	.2191E 02
170	.6538E-03	-.7333E 01	.6589E 00	.1445E-03	.3132E-04	.8093E 02	.2149E 02
175	.6664E-03	-.7314E 01	.6780E 00	.1473E-03	.3192E-04	.7940E 02	.2109E 02
180	.6793E-03	-.7294E 01	.0000E 00	.0000E 00	.0000E 00	.7790E 02	.2069E 02

SCAT= .5291E-01 30/45= .3151E 01 45/135= .6047E 01 SCAT30-130= .1405E-01

CH42/173 29164 1230H 28 51N 63 07W ST611 PIPE SURF

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	.4840E-03	-.7633E 01	.1266E 01	.2275E-03	.1027E-03	.6560E 02	.1589E 02
160	.5039E-03	-.7593E 01	.1306E 01	.2368E-03	.1069E-03	.6301E 02	.1527E 02
165	.5246E-03	-.7553E 01	.1346E 01	.2465E-03	.1119E-03	.6053E 02	.1467E 02
170	.5461E-03	-.7513E 01	.1386E 01	.2566E-03	.2190E-03	.5819E 02	.1409E 02
175	.5685E-03	-.7473E 01	.1427E 01	.2671E-03	.1200E-03	.5586E 02	.1353E 02
180	.5918E-03	-.7432E 01	.0000E 00	.0000E 00	.0000E 00	.5368E 02	.1300E 02

SCAT= .3175E-01 30/45= .3336E 01 45/135= .4021E 01 SCAT30-130= .7693E-02

CH42/174 29164 1255H ST611 1-SURFACE

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	.5771E-03	-.7457E 01	.3724E 00	[illegible]	[illegible]	[illegible]	[illegible]
160	.5840E-03	-.7446E 01	.3842E 00	.7950E-04	.1071E-04	.1124E 03	.2620E 02
165	.5909E-03	-.7434E 01	.3960E 00	.8053E-04	.1088E-04	.1110E 03	.2590E 02
170	.5980E-03	-.7422E 01	.4078E 00	.8149E-04	.1090E-04	.1097E 03	.2589E 02
175	.6051E-03	-.7410E 01	.4197E 00	.8245E-04	.1120E-04	.1084E 03	.2529E 02
180	.6123E-03	-.7398E 01	.0000E 00	.0000E 00	.0000E 00	.1072E 03	.2499E 02

SCAT= .6561E-01 30/45= .3273E 01 45/135= .6522E 01 SCAT30-130= .2530E-01

CH42/175 29164 1315H ST611 2-60M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.7056E 01	.7210E 00	-.2901E 00	-.1599E 02	.0000E 00	.8129E-01	.7720E-02
5	.6613E 00	-.4136E 00	-.1400E 01	-.4861E 01	.1275E 03	.1595E 00	.2401E-01
10	.2371E 00	-.1439E 01	-.2261E 01	-.1631E 01	.3701E 02	.4448E 00	.6690E-01
15	.9479E-01	-.2356E 01	-.2808E 01	-.6020E 00	.1179E 02	.1113E 01	.1670E 00
20	.4226E-01	-.3164E 01	-.3133E 01	-.2435E 00	.4108E 01	.2496E 01	.3757E 00
25	.2101E-01	-.3863E 01	-.2814E 01	-.9661E-01	.1604E 01	.5021E 01	.7556E 00
30	.1257E-01	-.4376E 01	-.5125E 01	-.7069E-01	.2063E 00	.8388E 01	.1263E 01
35	.5707E-02	-.5166E 01	-.2122E 00	-.1827E-02	.8808E 00	.1848E 02	.2782E 01
40	.5540E-02	-.5194E 01	-.2901E 01	-.1840E-01	-.1899E 00	.1901E 02	.2862E 01
45	.3942E-02	-.5536E 01	-.2398E 01	-.1008E-01	.9527E-01	.2676E 02	.4027E 01
50	.3062E-02	-.5789E 01	-.2878E 01	-.8416E-02	.1921E-01	.3445E 02	.5186E 01
55	.2327E-02	-.6063E 01	-.1692E 01	-.3651E-02	.5660E-01	.4532E 02	.6821E 01
60	.2009E-02	-.6210E 01	-.2652E 01	-.4403E-02	-.8609E-02	.5250E 02	.7903E 01
65	.1625E-02	-.6473E 01	-.2623E 01	-.3288E-02	.1297E-01	.6492E 02	.9772E 01
70	.1338E-02	-.6617E 01	-.3254E 01	-.3083E-02	.2357E-02	.7885E 02	.1187E 02
75	.1069E-02	-.6841E 01	-.8723E 00	-.6703E-03	.2764E-01	.9870E 02	.1486E 02
80	.1010E-02	-.6898E 01	-.2416E 01	-.1577E-02	-.1089E-01	.1044E 03	.1572E 02
85	.8725E-03	-.7044E 01	-.1799E 01	-.9772E-03	.6075E-02	.1209E 03	.1820E 02
90	.7872E-03	-.7147E 01	-.1975E 01	-.9134E-03	.7904E-03	.1340E 03	.2017E 02
95	.7075E-03	-.7254E 01	-.7210E 00	-.2944E-03	.7094E-02	.1491E 03	.2244E 02
100	.6818E-03	-.7291E 01	-.1966E 00	-.7458E-04	.2619E-02	.1547E 03	.2328E 02
105	.6753E-03	-.7300E 01	-.4496E 00	-.3344E-03	-.2977E-02	.1562E 03	.2351E 02
110	.6461E-03	-.7345E 01	-.4017E 00	-.2909E-03	.4904E-03	.1632E 03	.2457E 02
115	.6207E-03	-.7385E 01	-.1138E 01	-.3364E-03	-.5216E-03	.1699E 03	.2558E 02
120	.5914E-03	-.7433E 01	.7916E 00	.2226E-03	.6405E-02	.1783E 03	.2684E 02
125	.6108E-03	-.7401E 01	-.3949E 00	-.1076E-03	-.3785E-02	.1727E 03	.2599E 02
130	.6014E-03	-.7416E 01	.1759E 01	.4729E-03	.6652E-02	.1754E 03	.2640E 02
135	.6427E-03	-.7350E 01	-.5449E 00	-.1445E-03	-.7078E-02	.1641E 03	.2470E 02
140	.6301E-03	-.7370E 01	.2460E 00	.6259E-04	.2673E-02	.1674E 03	.2520E 02
145	.6355E-03	-.7361E 01	.2546E 00	.6313E-04	.8209E-06	.1660E 03	.2498E 02
150	.6411E-03	-.7352E 01	.2632E 00	.6368E-04	.6281E-05	.1645E 03	.2477E 02
155	.6466E-03	-.7344E 01	.2719E 00	.6423E-04	.6524E-06	.1631E 03	.2458E 02
160	.6522E-03	-.7335E 01	.2805E 00	.6479E-04	.8578E-05	.1617E 03	.2436E 02
165	.6579E-03	-.7327E 01	.2891E 00	.6535E-04	.6440E-06	.1603E 03	.2413E 02
170	.6636E-03	-.7318E 01	.2978E 00	.6592E-04	.6487E-06	.1589E 03	.2393E 02
175	.6693E-03	-.7309E 01	.3064E 00	.6649E-04	.6582E-05	.1576E 03	.2372E 02
180	.6751E-03	-.7301E 01	.0000E 00	.0000E 00	.0000E 00	.1562E 03	.2352E 02

SCAT= .1055E 00 30/45= .3190E 01 45/135= .6133E 01 SCAT30-130= .1588E-01

CH42/176 29164 1330H ST611 3-100M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2771E 00	-.1283E 01	-.1400E 00	-.1339E 01	.0000E 00	.2326E 00	.7925E-01
5	.1603E 00	-.1831E 01	-.7494E 00	-.7441E 00	.8617E 01	.4022E 00	.1370E 00
10	.9535E-01	-.2350E 01	-.1212E 01	-.4241E 00	.3687E 01	.6762E 00	.2303E 00
15	.5833E-01	-.2842E 01	-.1610E 01	-.2478E 00	.2020E 01	.1105E 01	.3766E 00
20	.3671E-01	-.3305E 01	-.1950E 01	-.1484E 00	.1119E 01	.1756E 01	.5983E 00
25	.2376E-01	-.3740E 01	-.2295E 01	-.9309E-01	.6398E 00	.2714E 01	.9244E 00
30	.1564E-01	-.4158E 01	-.2617E 01	-.5940E-01	.3851E 00	.4125E 01	.1405E 01
35	.1045E-01	-.4562E 01	-.2333E 01	-.3203E-01	.3140E 00	.6173E 01	.2103E 01
40	.7650E-02	-.4873E 01	-.3090E 01	-.2674E-01	.6061E-01	.8428E 01	.2872E 01
45	.5316E-02	-.5237E 01	-.2650E 01	-.1484E-01	.1984E 00	.1213E 02	.4132E 01
50	.4021E-02	-.5516E 01	-.2789E 01	-.1076E-01	.4681E-01	.1604E 02	.5462E 01
55	.3082E-02	-.5782E 01	-.2287E 01	-.6373E-02	.5022E-01	.2092E 02	.7126E 01
60	.2526E-02	-.5981E 01	-.2220E 01	-.4712E-02	.1984E-01	.2553E 02	.8696E 01
65	.2115E-02	-.6159E 01	-.2616E 01	-.4270E-02	.6064E-02	.3049E 02	.1039E 02
70	.1742E-02	-.6353E 01	-.2219E 01	-.2834E-02	.1640E-01	.3701E 02	.1261E 02
75	.1495E-02	-.6506E 01	-.2846E 01	-.2874E-02	-.4624E-03	.4319E 02	.1469E 02
80	.1244E-02	-.6689E 01	-.1663E 01	-.1367E-02	.1726E-01	.5183E 02	.1766E 02
85	.1125E-02	-.6790E 01	-.2763E 01	-.1564E-02	-.3263E-02	.5732E 02	.1953E 02
90	.9881E-03	-.6920E 01	-.1014E 01	-.6040E-03	.1100E-01	.6526E 02	.2223E 02
95	.9354E-03	-.6975E 01	-.1131E 01	-.6039E-03	.1887E-05	.6892E 02	.2348E 02
100	.8827E-03	-.7033E 01	-.1837E 01	-.8670E-03	-.5014E-02	.7304E 02	.2488E 02
105	.8070E-03	-.7122E 01	-.6957E 00	-.2945E-03	.6560E-02	.7989E 02	.2722E 02
110	.7813E-03	-.7155E 01	-.9339E 00	-.3641E-03	-.7973E-03	.8251E 02	.2811E 02
115	.7496E-03	-.7196E 01	-.3256E 00	-.1182E-03	.2820E-02	.8601E 02	.2930E 02
120	.7393E-03	-.7210E 01	.6020E 00	.2108E-03	.3770E-02	.8721E 02	.2971E 02
125	.7576E-03	-.7185E 01	-.3838E 00	-.1297E-03	-.5902E-02	.8510E 02	.2899E 02
130	.7463E-03	-.7200E 01	.1513E 01	.5025E-03	.7244E-02	.8639E 02	.2943E 02
135	.7902E-03	-.7143E 01	-.2166E 00	-.7108E-04	-.6578E-02	.8159E 02	.2779E 02
140	.7840E-03	-.7151E 01	.3270E 00	.1039E-03	.3008E-02	.8224E 02	.2802E 02
145	.7930E-03	-.7140E 01	.3393E 00	.1091E-03	.1877E-04	.8130E 02	.2769E 02
150	.8022E-03	-.7128E 01	.3500E 00	.1063E-03	.1994E-04	.8037E 02	.2738E 02
155	.8115E-03	-.7117E 01	.3623E 00	.1076E-03	.1410E-04	.7945E 02	.2708E 02
160	.8209E-03	-.7105E 01	.3738E 00	.1088E-03	.1428E-04	.7854E 02	.2676E 02
165	.8304E-03	-.7094E 01	.3853E 00	.1101E-03	.1442E-04	.7764E 02	.2645E 02
170	.8400E-03	-.7082E 01	.3968E 00	.1113E-03	.1460E-04	.7675E 02	.2616E 02
175	.8497E-03	-.7071E 01	.4083E 00	.1126E-03	.1478E-04	.7588E 02	.2585E 02
180	.8595E-03	-.7059E 01	.0000E 00	.0000E 00	.0000E 00	.7501E 02	.2556E 02

SCAT= .6447E-01 30/45= .2941E 01 45/135= .6727E 01 SCAT30-130= .2196E-01

CH42/177 29164 1350H ST611 4-210M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1710E 00	-.1766E 01	-.1439E 00	-.8431E 00	.0000E 00	.2275E 00	.7744E-01
5	.9741E-01	-.2329E 01	-.7666E 00	-.4601E 00	.4389E 01	.3993E 00	.1359E 00
10	.5726E-01	-.2860E 01	-.1233E 01	-.2582E 00	.2514E 01	.6793E 00	.2312E 00
15	.3473E-01	-.3360E 01	-.1629E 01	-.1489E 00	.1252E 01	.1120E 01	.3812E 00
20	.2173E-01	-.3829E 01	-.1960E 01	-.8823E-01	.6965E 00	.1790E 01	.6092E 00
25	.1403E-01	-.4266E 01	-.2323E 01	-.6552E-01	.3748E 00	.2771E 01	.9434E 00
30	.9189E-02	-.4690E 01	-.2688E 01	-.3572E-01	.2289E 00	.4233E 01	.1441E 01
35	.6071E-02	-.5104E 01	-.2311E 01	-.1847E-01	.1977E 00	.6406E 01	.2181E 01
40	.4459E-02	-.5413E 01	-.2820E 01	-.1444E-01	.4617E-01	.8721E 01	.2969E 01
45	.3199E-02	-.5745E 01	-.2797E 01	-.9358E-02	.5827E-01	.1216E 02	.4139E 01
50	.2382E-02	-.6040E 01	-.2413E 01	-.5609E-02	.4296E-01	.1632E 02	.5558E 01
55	.1893E-02	-.6270E 01	-.2450E 01	-.4316E-02	.1482E-01	.2056E 02	.6995E 01
60	.1516E-02	-.6491E 01	-.2309E 01	-.2932E-02	.1585E-01	.2568E 02	.8732E 01
65	.1260E-02	-.6676E 01	-.2448E 01	-.2396E-02	.6149E-02	.3088E 02	.1050E 02
70	.1051E-02	-.6858E 01	-.2925E 01	-.2202E-02	.2224E-02	.3699E 02	.1259E 02
75	.8592E-03	-.7060E 01	-.1662E 01	-.1001E-02	.1376E-01	.4527E 02	.1541E 02
80	.7718E-03	-.7167E 01	-.2351E 01	-.1175E-02	-.2984E-02	.5039E 02	.1716E 02
85	.6693E-03	-.7309E 01	-.1397E 01	-.5888E-03	.6714E-02	.5811E 02	.1978E 02
90	.6179E-03	-.7384E 01	-.1618E 01	-.5929E-03	-.4754E-04	.6296E 02	.2143E 02
95	.5662E-03	-.7477E 01	-.2978E 00	-.9833E-04	.6660E-02	.6869E 02	.2338E 02
100	.5576E-03	-.7492E 01	-.6958E 00	-.2133E-03	-.1317E-02	.6975E 02	.2374E 02
105	.5390E-03	-.7526E 01	-.2728E 00	-.7769E-04	.1581E-02	.7216E 02	.2456E 02
110	.5322E-03	-.7539E 01	-.8730E 00	-.2321E-03	-.1767E-02	.7308E 02	.2488E 02
115	.5119E-03	-.7577E 01	-.7762E-01	-.1935E-04	.2438E-02	.7597E 02	.2586E 02
120	.5102E-03	-.7581E 01	.3038E 00	.7297E-04	.1068E-02	.7622E 02	.2594E 02
125	.5166E-03	-.7568E 01	.9256E 00	.2189E-03	.1672E-02	.7529E 02	.2563E 02
130	.5357E-03	-.7532E 01	.1181E 01	.2798E-03	.6901E-03	.7260E 02	.2472E 02
135	.5601E-03	-.7487E 01	.2256E 00	.5288E-04	-.3600E-02	.6944E 02	.2364E 02
140	.5647E-03	-.7479E 01	.6515E 00	.1496E-03	.2110E-02	.6887E 02	.2345E 02
145	.5778E-03	-.7456E 01	.6744E 00	.1531E-03	.3906E-04	.6731E 02	.2292E 02
150	.5912E-03	-.7433E 01	.6972E 00	.1567E-03	.4000E-04	.6579E 02	.2240E 02
155	.6048E-03	-.7411E 01	.7201E 00	.1603E-03	.4151E-04	.6430E 02	.2189E 02
160	.6188E-03	-.7388E 01	.7429E 00	.1640E-03	.4247E-04	.6285E 02	.2140E 02
165	.6331E-03	-.7365E 01	.7658E 00	.1678E-03	.4346E-04	.6143E 02	.2091E 02
170	.6478E-03	-.7342E 01	.7887E 00	.1717E-03	.4446E-04	.6004E 02	.2044E 02
175	.6627E-03	-.7319E 01	.8115E 00	.1756E-03	.4548E-04	.5868E 02	.1998E 02
180	.6781E-03	-.7296E 01	.0000E 00	.0000E 00	.0000E 00	.5736E 02	.1953E 02

SCAT= .3889E-01 30/45= .2872E 01 45/135= .5711E 01 SCAT30-130= .1324E-01

CH42/178 ST 611 5-300M 29164 1400H

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1883E 00	-.1670E 01	-.1754E 00	-.1071E 01	.0000E 00	.1659E 00	.5160E-01
5	.9485E-01	-.2355E 01	-.9188E 00	-.5120E 00	.6408E 01	.3298E 00	.1024E 00
10	.5017E-01	-.2992E 01	-.1450E 01	-.2555E 00	.2939E 01	.6229E 00	.1938E 00
15	.2787E-01	-.3580E 01	-.1873E 01	-.1330E 00	.1404E 01	.1121E 01	.3487E 00
20	.1626E-01	-.4119E 01	-.2195E 01	-.7216E-01	.6977E 00	.1922E 01	.5978E 00
25	.9963E-02	-.4609E 01	-.2485E 01	-.4159E-01	.3503E 00	.3137E 01	.9753E 00
30	.6334E-02	-.5062E 01	-.2668E 01	-.2447E-01	.1967E 00	.4934E 01	.1534E 01
35	.4198E-02	-.5473E 01	-.2317E 01	-.1280E-01	.1357E 00	.7444E 01	.2315E 01
40	.3081E-02	-.5782E 01	-.2064E 01	-.1011E-01	.3084E-01	.1014E 02	.3154E 01
45	.2199E-02	-.6120E 01	-.2156E 01	-.5120E-02	.5719E-01	.1421E 02	.4420E 01
50	.1752E-02	-.6347E 01	-.2818E 01	-.4729E-02	.4404E-02	.1784E 02	.5546E 01
55	.1339E-02	-.6616E 01	-.1962E 01	-.2408E-02	.2659E-01	.2338E 02	.7255E 01
60	.1129E-02	-.6786E 01	-.2382E 01	-.2246E-02	.1868E-02	.2768E 02	.8606E 01
65	.9331E-03	-.6977E 01	-.2602E 01	-.1875E-02	.4265E-02	.3349E 02	.1041E 02
70	.7695E-03	-.7170E 01	-.2252E 01	-.1269E-02	.6948E-02	.4061E 02	.1263E 02
75	.6588E-03	-.7325E 01	-.2109E 01	-.9607E-03	.3632E-02	.4744E 02	.1475E 02
80	.5749E-03	-.7461E 01	-.1983E 01	-.6029E-03	.4099E-02	.5436E 02	.1690E 02
85	.5223E-03	-.7557E 01	-.1460E 01	-.4793E-03	.1427E-02	.5983E 02	.1860E 02
90	.4805E-03	-.7641E 01	-.7008E 00	-.2047E-03	.3144E-02	.6504E 02	.2022E 02
95	.4626E-03	-.7679E 01	-.4117E 00	-.1108E-03	.1077E-02	.6758E 02	.2100E 02
100	.4529E-03	-.7700E 01	-.1452E 00	-.3665E-04	.1049E-02	.6899E 02	.2145E 02
105	.4497E-03	-.7707E 01	.1264E 00	.3039E-04	.7682E-03	.6948E 02	.2161E 02
110	.4524E-03	-.7701E 01	-.9553E 00	-.2155E-03	-.2810E-02	.6908E 02	.2148E 02
115	.4336E-03	-.7743E 01	.4291E 00	.9157E-04	.3519E-02	.7207E 02	.2241E 02
120	.4416E-03	-.7725E 01	.1076E 01	.2273E-03	.1565E-02	.7077E 02	.2202E 02
125	.4614E-03	-.7681E 01	.1197E 01	.2542E-03	.3005E-03	.6773E 02	.2106E 02
130	.4836E-03	-.7634E 01	.2279E 01	.4978E-03	.2792E-02	.6462E 02	.2009E 02
135	.5270E-03	-.7548E 01	.7564E 00	.1684E-03	-.3774E-02	.5929E 02	.1844E 02
140	.5417E-03	-.7521E 01	.1371E 01	.3060E-03	.1574E-02	.5769E 02	.1794E 02
145	.5684E-03	-.7473E 01	.1419E 01	.3211E-03	.1720E-03	.5498E 02	.1709E 02
150	.5965E-03	-.7425E 01	.1467E 01	.3369E-03	.1814E-03	.5239E 02	.1629E 02
155	.6259E-03	-.7376E 01	.1515E 01	.3535E-03	.1909E-03	.4993E 02	.1552E 02
160	.6567E-03	-.7328E 01	.1564E 01	.3709E-03	.1997E-03	.4759E 02	.1480E 02
165	.6891E-03	-.7280E 01	.1612E 01	.3892E-03	.2095E-03	.4535E 02	.1410E 02
170	.7230E-03	-.7232E 01	.1660E 01	.4084E-03	.2190E-03	.4322E 02	.1344E 02
175	.7587E-03	-.7184E 01	.1708E 01	.4285E-03	.2307E-03	.4119E 02	.1281E 02
180	.7961E-03	-.7136E 01	.0000E 00	.0000E 00	.0000E 00	.3926E 02	.1221E 02

SCAT= .3125E-01 30/45= .2881E 01 45/135= .4172E 01 SCAT30-130= .9717E-02

CH42/179 29164 1415H ST611 6-400M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1526E 00	-.1880E 01	-.1335E 00	-.7114E 00	.0000E 00	.2733E 00	.1042E 00
5	.9051E-01	-.2402E 01	-.7116E 00	-.4038E 00	.3524E 01	.4607E 00	.1758E 00
10	.5527E-01	-.2896E 01	-.1145E 01	-.2352E 00	.1932E 01	.7546E 00	.2878E 00
15	.3474E-01	-.3360E 01	-.1513E 01	-.1405E 00	.1085E 01	.1200E 01	.4579E 00
20	.2248E-01	-.3795E 01	-.1820E 01	-.8599E-01	.6243E 00	.1854E 01	.7075E 00
25	.1498E-01	-.4201E 01	-.2142E 01	-.5551E-01	.3493E 00	.2783E 01	.1062E 01
30	.1014E-01	-.4592E 01	-.2500E 01	-.3714E-01	.2104E 00	.4114E 01	.1569E 01
35	.6895E-02	-.4977E 01	-.2066E 01	-.1905E-01	.2079E 00	.6047E 01	.2307E 01
40	.5233E-02	-.5253E 01	-.2666E 01	-.1616E-01	.3310E-01	.7969E 01	.3040E 01
45	.3822E-02	-.5567E 01	-.2518E 01	-.1321E-01	.6822E-01	.1091E 02	.4162E 01
50	.2932E-02	-.5832E 01	-.2431E 01	-.6948E-02	.5735E-01	.1422E 02	.5424E 01
55	.2325E-02	-.6064E 01	-.2307E 01	-.4846E-02	.2409E-01	.1793E 02	.6842E 01
60	.1907E-02	-.6265E 01	-.2506E 01	-.3962E-02	.1013E-01	.2192E 02	.8362E 01
65	.1557E-02	-.6465E 01	-.2366E 01	-.2532E-02	.1638E-01	.2679E 02	.1022E 02
70	.1336E-02	-.6618E 01	-.2782E 01	-.2673E-02	-.1609E-02	.3122E 02	.1191E 02
75	.1102E-02	-.6810E 01	-.1855E 01	-.1426E-02	.1429E-01	.3782E 02	.1443E 02
80	.9780E-03	-.6930E 01	-.2307E 01	-.1462E-02	-.4220E-03	.4264E 02	.1627E 02
85	.8503E-03	-.7070E 01	-.1385E 01	-.7416E-03	.8260E-02	.4904E 02	.1871E 02
90	.7856E-03	-.7149E 01	-.1143E 01	-.5395E-03	.2516E-02	.5300E 02	.2028E 02
95	.7385E-03	-.7211E 01	-.6932E 00	-.2956E-03	.2794E-02	.5646E 02	.2164E 02
100	.7127E-03	-.7246E 01	-.1692E 01	-.6472E-03	-.4029E-02	.5850E 02	.2232E 02
105	.6563E-03	-.7329E 01	-.8782E 00	-.3010E-03	.3967E-02	.6354E 02	.2424E 02
110	.6300E-03	-.7370E 01	-.1160E 01	-.3629E-03	-.7091E-03	.6619E 02	.2528E 02
115	.5983E-03	-.7421E 01	.7646E 00	.2268E-03	.6788E-02	.6969E 02	.2689E 02
120	.6181E-03	-.7389E 01	-.2109E 00	-.6072E-04	-.9295E-02	.6746E 02	.2574E 02
125	.6128E-03	-.7397E 01	.6466E 00	.1804E-03	.2703E-02	.6804E 02	.2596E 02
130	.6285E-03	-.7372E 01	.1269E 01	.3533E-03	.1902E-02	.6634E 02	.2531E 02
135	.6594E-03	-.7324E 01	.2213E 00	.6104E-04	-.3349E-02	.6324E 02	.2412E 02
140	.6647E-03	-.7316E 01	.6015E 00	.1625E-03	.1163E-02	.6273E 02	.2393E 02
145	.6789E-03	-.7295E 01	.6226E 00	.1659E-03	.3972E-04	.6142E 02	.2343E 02
150	.6934E-03	-.7274E 01	.6437E 00	.1695E-03	.4058E-04	.6014E 02	.2294E 02
155	.7081E-03	-.7253E 01	.6648E 00	.1731E-03	.4149E-04	.5888E 02	.2246E 02
160	.7233E-03	-.7232E 01	.6859E 00	.1768E-03	.4251E-04	.5765E 02	.2199E 02
165	.7387E-03	-.7211E 01	.7070E 00	.1806E-03	.4321E-04	.5645E 02	.2153E 02
170	.7544E-03	-.7190E 01	.7281E 00	.1844E-03	.4413E-04	.5527E 02	.2108E 02
175	.7705E-03	-.7168E 01	.7492E 00	.1883E-03	.4508E-04	.5411E 02	.2064E 02
180	.7870E-03	-.7147E 01	.0000E 00	.0000E 00	.0000E 00	.5298E 02	.2021E 02

SCAT= .4170E-01 30/45= .2652E 01 45/135= .5797E 01 SCAT30-130= .1591E-01

CH42/180 29164 1435H ST611 7-500M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
165	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
170	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
175	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
180	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SCAT= [illegible] 30/45= [illegible] 45/135= [illegible] SCAT30-130= [illegible]

CH42/181 29164 1455H ST611 8-700M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	.7321E-03	-.7220E 01	.1233E 00	.3399E-04	.1582E-05	.9630E 02	.2714E 02
155	.7350E-03	-.7216E 01	.1273E 00	.3412E-04	.1570E-05	.9591E 02	.2703E 02
160	.7380E-03	-.7212E 01	.1314E 00	.3426E-04	.1583E-05	.9552E 02	.2692E 02
165	.7410E-03	-.7208E 01	.1354E 00	.3440E-04	.1588E-05	.9514E 02	.2681E 02
170	.7440E-03	-.7203E 01	.1395E 00	.3454E-04	.1601E-05	.9475E 02	.2670E 02
175	.7470E-03	-.7199E 01	.1435E 00	.3468E-04	.1605E-05	.9437E 02	.2659E 02
180	.7500E-03	-.7195E 01	.0000E 00	.0000E 00	.0000E 00	.9399E 02	.2649E 02

SCAT= .7050E-01 30/45= .2859E 01 45/135= .7162E 01 SCAT30-130= .1987E-01

CH42/182 29164 1515H ST611 9-1000M QUE + 90

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	.7174E-03	-.7240E 01	.9366E 00	.2404E-03	.7824E-04	.5009E 02	.1603E 02
165	.7383E-03	-.7211E 01	.9654E 00	.2474E-03	.8058E-04	.4861E 02	.1558E 02
170	.7599E-03	-.7182E 01	.9942E 00	.2546E-03	.8289E-04	.4723E 02	.1513E 02
175	.7821E-03	-.7153E 01	.1023E 01	.2621E-03	.8550E-04	.4589E 02	.1470E 02
180	.8050E-03	-.7125E 01	.0000E 00	.0000E 00	.0000E 00	.4458E 02	.1428E 02

SCAT= .1589E-01 30/45= .2764E 01 45/135= .4081E 01 SCAT30-130= .1150E-01

CH42/183 29164 2320H ST612 29 STN 64 04M PIPE SURFAC

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	.6797E-03	-.7294E 01	.7246E 00	.1812E-03	[illegible]	[illegible]	[illegible]
160	.6955E-03	-.7271E 01	.7476E 00	.1855E-03	.4859E-04	.7464E 02	.2096E 02
165	.7117E-03	-.7248E 01	.7706E 00	.1898E-03	.4964E-04	.7294E 02	.2048E 02
170	.7282E-03	-.7225E 01	.7936E 00	.1942E-03	[illegible]	.7128E 02	.2001E 02
175	.7452E-03	-.7202E 01	.8166E 00	.1987E-03	[illegible]	.6966E 02	.1956E 02
180	.7625E-03	-.7179E 01	.0000E 00	.0000E 00	.0000E 00	.6808E 02	.1912E 02

SCAT= .5191E-01 30/45= .3118E 01 45/135= .5470E 01 SCAT30-130= .1467E-01

CH42/184 29164 2350H ST612 1-SURFACE

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.4461E 00	-.8072E 00	-.1745E 00	-.2529E 01	.0000E 00	.1550E 00	.4396E-01
5	.2254E 00	-.1490E 01	-.9203E 00	-.1218E 01	.1502E 02	.3068E 00	.8702E-01
10	.1191E 00	-.2128E 01	-.1463E 01	-.6107E 00	.6961E 01	.5807E 00	.1647E 00
15	[illegible]	-.2721E 01	-.1907E 01	-.3184E 00	.3360E 01	.1051E 01	.2980E 00
20	[illegible]	-.3269E 01	-.2258E 01	-.1725E 00	.1672E 01	.1819E 01	.5152E 00
25	.2298E-01	-.3773E 01	-.2611E 01	-.9972E-01	.8394E 00	.3010E 01	.8535E 00
30	.1428E-01	-.4249E 01	-.2660E 01	-.5502E-01	.5122E 00	.4845E 01	.1374E 01
35	.9474E-02	-.4659E 01	-.2830E 01	-.3416E-01	.2390E 00	.7300E 01	.2070E 01
40	.6493E-02	-.5037E 01	-.2765E 01	-.2068E-01	.1545E 00	.1065E 02	.3021E 01
45	.4688E-02	-.5363E 01	-.2657E 01	-.1312E-01	.8660E-01	.1475E 02	.4184E 01
50	.3543E-02	-.5643E 01	-.3104E 01	-.1040E-01	.3116E-01	.1952E 02	.5535E 01
55	.2636E-02	-.5939E 01	-.2307E 01	-.5494E-02	.5620E-01	.2624E 02	.7441E 01
60	.2156E-02	-.6139E 01	-.2294E 01	-.4145E-02	.1845E-01	.3208E 02	.9096E 01
65	.1795E-02	-.6323E 01	-.2518E 01	-.3500E-02	.7390E-02	.3854E 02	.1093E 02
70	.1489E-02	-.6510E 01	-.1631E 01	-.1816E-02	.1931E-01	.4645E 02	.1317E 02
75	.1331E-02	-.6622E 01	-.2339E 01	-.2137E-02	-.3677E-02	.5190E 02	.1474E 02
80	.1144E-02	-.6773E 01	-.2504E 01	-.1847E-02	.3320E-02	.6045E 02	.1714E 02
85	.9830E-03	-.6925E 01	-.1480E 01	-.9137E-03	.1069E-01	.7036E 02	.1995E 02
90	.9033E-03	-.7009E 01	-.1572E 01	-.8436E-03	.8091E-03	.7657E 02	.2171E 02
95	.8297E-03	-.7094E 01	-.8803E 00	-.4234E-03	.4815E-02	.8336E 02	.2364E 02
100	.7927E-03	-.7140E 01	-.2761E 00	-.1215E-03	.3460E-02	.8725E 02	.2474E 02
105	.7821E-03	-.7154E 01	-.1022E 01	-.4163E-03	-.3377E-02	.8845E 02	.2508E 02
110	.7458E-03	-.7201E 01	-.2687E 00	-.1015E-03	.3609E-02	.9274E 02	.2630E 02
115	.7369E-03	-.7213E 01	.6239E 00	.2272E-03	.3766E-02	.9386E 02	.2662E 02
120	.7567E-03	-.7186E 01	.1138E 01	.4124E-03	.2173E-02	.9140E 02	.2592E 02
125	.7927E-03	-.7140E 01	-.4944E 00	-.1744E-03	-.6735E-02	.8725E 02	.2474E 02
130	.7775E-03	-.7159E 01	.1564E 01	.5418E-03	.8207E-02	.8896E 02	.2522E 02
135	.8248E-03	-.7100E 01	.4815E 00	.1670E-03	-.4295E-02	.8386E 02	.2378E 02
140	.8394E-03	-.7083E 01	.7191E 00	.2458E-03	.9034E-03	.8240E 02	.2336E 02
145	.8608E-03	-.7058E 01	.7444E 00	.2521E-03	.7199E-04	.8035E 02	.2278E 02
150	.8828E-03	-.7032E 01	.7696E 00	.2585E-03	.7385E-04	.7834E 02	.2221E 02
155	.9054E-03	-.7007E 01	.7948E 00	.2651E-03	.7671E-04	.7639E 02	.2166E 02
160	.9285E-03	-.6982E 01	.8201E 00	.2719E-03	.7746E-04	.7449E 02	.2112E 02
165	.9527E-03	-.6957E 01	.8453E 00	.2789E-03	.7963E-04	.7263E 02	.2060E 02
170	.9766E-03	-.6931E 01	.8706E 00	.2860E-03	.8160E-04	.7082E 02	.2008E 02
175	.1002E-02	-.6906E 01	.8958E 00	.2933E-03	.8374E-04	.6906E 02	.1958E 02
180	.1027E-02	-.6881E 01	.0000E 00	.0000E 00	.0000E 00	.6734E 02	.1909E 02

SCAT= .6916E-01 30/45= .3045E 01 45/135= .5684E 01 SCAT30-130= .1961E-01

CH42/185 30164 0005H ST 612 2-60M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.4009E 00	-.9141E 00	-.1894E 00	-.2403E 01	.0000E 00	.1321E 00	.3443E-01
5	.1911E 00	-.1655E 01	-.9939E 00	-.1090E 01	.1504E 02	.2770E 00	.7220E-01
10	.9598E-01	-.2344E 01	-.1571E 01	-.5183E 00	.6657E 01	.5516E 00	.1438E 00
15	.5075E-01	-.2981E 01	-.2035E 01	-.2577E 00	.2906E 01	.1043E 01	.2719E 00
20	.2826E-01	-.3566E 01	-.2392E 01	-.1339E 00	.1418E 01	.1873E 01	.4883E 00
25	.1657E-01	-.4100E 01	-.2772E 01	-.7441E-01	.6022E 00	.3194E 01	.8327E 00
30	.1008E-01	-.4597E 01	-.2801E 01	-.4050E-01	.3080E 00	.5252E 01	.1369E 01
35	.6545E-02	-.5029E 01	-.2860E 01	-.2381E-01	.1919E 00	.8089E 01	.2109E 01
40	.4467E-02	-.5411E 01	-.2765E 01	-.1423E-01	.1090E 00	.1185E 02	.3089E 01
45	.3225E-02	-.5737E 01	-.2652E 01	-.9008E-02	.5904E-01	.1641E 02	.4279E 01
50	.2439E-02	-.6016E 01	-.2599E 01	-.6133E-02	.3294E-01	.2170E 02	.5658E 01
55	.1904E-02	-.6264E 01	-.2641E 01	-.4175E-02	.2244E-01	.2781E 02	.7248E 01
60	.1540E-02	-.6476E 01	-.2505E 01	-.3205E-02	.1112E-01	.3439E 02	.8964E 01
65	.1260E-02	-.6677E 01	-.1922E 01	-.1917E-02	.1478E-01	.4203E 02	.1096E 02
70	.1093E-02	-.6819E 01	-.2526E 01	-.2003E-02	-.9023E-03	.4846E 02	.1263E 02
75	.9178E-03	-.6994E 01	-.2630E 01	-.1642E-02	.4150E-02	.5770E 02	.1504E 02
80	.7745E-03	-.7163E 01	-.1853E 01	-.9431E-03	.8007E-02	.6838E 02	.1782E 02
85	.6922E-03	-.7276E 01	-.1605E 01	-.6955E-03	.2898E-02	.7647E 02	.1994E 02
90	.6316E-03	-.7367E 01	-.1049E 01	-.3992E-03	.3998E-02	.8382E 02	.2185E 02
95	.5967E-03	-.7424E 01	.1045E-01	.6475E-05	.4640E-02	.8872E 02	.2313E 02
100	.5973E-03	-.7423E 01	-.5725E 00	-.1885E-03	-.2238E-02	.8863E 02	.2310E 02
105	.5808E-03	-.7451E 01	-.4044E 00	-.1240E-03	.3380E-03	.9114E 02	.2376E 02
110	.5700E-03	-.7470E 01	-.9244E 00	-.2630E-03	-.1592E-02	.9287E 02	.2421E 02
115	.5471E-03	-.7511E 01	.4566E 00	.1339E-03	.4540E-02	.9677E 02	.2523E 02
120	.5587E-03	-.7490E 01	.2383E 00	.6259E-04	-.8172E-03	.9475E 02	.2470E 02
125	.5642E-03	-.7480E 01	.1906E 01	.5019E-03	.5054E-02	.9383E 02	.2446E 02
130	.6080E-03	-.7405E 01	.2282E 01	.6265E-03	.1428E-02	.8707E 02	.2270E 02
135	.6627E-03	-.7319E 01	.5453E 00	.1521E-03	-.5434E-02	.7989E 02	.2082E 02
140	.6760E-03	-.7299E 01	.1333E 01	.3710E-03	.3508E-02	.7832E 02	.2043E 02
145	.7083E-03	-.7253E 01	.1380E 01	.3808E-03	.2036E-04	.7474E 02	.1948E 02
150	.7423E-03	-.7206E 01	.1427E 01	.4074E-03	.2134E-04	.7132E 02	.1859E 02
155	.7778E-03	-.7159E 01	.1474E 01	.4269E-03	.2236E-03	.6806E 02	.1774E 02
160	.8151E-03	-.7112E 01	.1520E 01	.4474E-03	.2343E-03	.6495E 02	.1693E 02
165	.8541E-03	-.7065E 01	.1567E 01	.4688E-03	.2468E-04	.6198E 02	.1616E 02
170	.8950E-03	-.7019E 01	.1614E 01	.4912E-03	.2673E-04	.5915E 02	.1542E 02
175	.9379E-03	-.6972E 01	.1661E 01	.5148E-03	.2696E-03	.5645E 02	.1471E 02
180	.9828E-03	-.6925E 01	.0000E 00	.0000E 00	.0000E 00	.5387E 02	.1404E 02

SCAT= .5294E-01 30/45= .3125E 01 45/135= .4867E 01 SCAT30-130= .1380E-01

CH42/186 30164 0025H ST612 3-100M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3569E 00	-.1031E 01	-.1733E 00	-.2011E 01	.0000E 00	.1551E 00	.4308E-01
5	.1810E 00	-.1709E 01	-.9158E 00	-.9749E 00	.1187E 02	.3054E 00	.8483E-01
10	.9596E-01	-.2344E 01	-.1460E 01	-.4912E 00	.5649E 01	.5761E 00	.1600E 00
15	.5309E-01	-.2936E 01	-.1909E 01	-.2570E 00	.2684E 01	.1041E 01	.2893E 00
20	.3066E-01	-.3485E 01	-.2268E 01	-.1396E 00	.1346E 01	.1803E 01	.5009E 00
25	.1848E-01	-.3991E 01	-.2614E 01	-.8028E-01	.6793E 00	.2991E 01	.8309E 00
30	.1148E-01	-.4467E 01	-.2798E 01	-.4607E-01	.3919E 00	.4817E 01	.1338E 01
35	.7456E-02	-.4899E 01	-.2790E 01	-.2657E-01	.2235E 00	.7414E 01	.2060E 01
40	.5137E-02	-.5271E 01	-.2886E 01	-.1696E-01	.1101E 00	.1076E 02	.2990E 01
45	.3656E-02	-.5611E 01	-.2833E 01	-.1081E-01	.7049E-01	.1512E 02	.4200E 01
50	.2713E-02	-.5910E 01	-.2862E 01	-.7420E-02	.3880E-01	.2038E 02	.5661E 01
55	.2065E-02	-.6183E 01	-.2199E 01	-.4121E-02	.3700E-01	.2677E 02	.7436E 01
60	.1705E-02	-.6374E 01	-.2573E 01	-.3637E-02	.5569E-02	.3241E 02	.9006E 01
65	.1380E-02	-.6580E 01	-.2341E 01	-.2539E-02	.1288E-01	.3905E 02	.1106E 02
70	.1167E-02	-.6753E 01	-.2154E 01	-.1847E-02	.7869E-02	.4737E 02	.1316E 02
75	.1006E-02	-.6902E 01	-.2110E 01	-.1467E-02	.4348E-02	.5498E 02	.1527E 02
80	.8778E-03	-.7038E 01	-.2113E 01	-.1209E-02	.2958E-02	.6298E 02	.1750E 02
85	.7722E-03	-.7166E 01	-.1677E 01	-.8071E-03	.4687E-02	.7158E 02	.1989E 02
90	.7016E-03	-.7262E 01	-.1589E 01	-.6618E-03	.1688E-02	.7879E 02	.2189E 02
95	.6439E-03	-.7348E 01	-.7171E 00	-.2665E-03	.4630E-02	.8585E 02	.2385E 02
100	.6206E-03	-.7385E 01	-.8123E-01	-.2813E-04	.2791E-02	.8907E 02	.2474E 02
105	.6182E-03	-.7389E 01	-.3960E 00	-.1293E-03	-.1159E-02	.8942E 02	.2484E 02
110	.6069E-03	-.7407E 01	-.6027E 00	-.1838E-03	-.6249E-03	.9109E 02	.2530E 02
115	.5909E-03	-.7434E 01	-.2484E 00	-.7121E-04	.1291E-02	.9356E 02	.2599E 02
120	.5846E-03	-.7445E 01	.8643E 00	.2408E-03	.3578E-02	.9456E 02	.2627E 02
125	.6056E-03	-.7409E 01	.6215E 00	.1713E-03	-.7946E-03	.9128E 02	.2536E 02
130	.6206E-03	-.7385E 01	.2236E 01	.6263E-03	.5214E-02	.8908E 02	.2479E 02
135	.6757E-03	-.7300E 01	.1425E 00	.4020E-04	-.6716E-02	.8187E 02	.2274E 02
140	.6787E-03	-.7295E 01	.7307E 00	.2582E-03	.2498E-02	.8144E 02	.2263E 02
145	.7013E-03	-.7263E 01	.9433E 00	.2668E-03	.9822E-04	.7883E 02	.2190E 02
150	.7246E-03	-.7230E 01	.9960E 00	.2756E-03	.1015E-03	.7629E 02	.2120E 02
155	.7486E-03	-.7197E 01	.1029E 01	.2848E-03	.1048E-03	.7384E 02	.2052E 02
160	.7735E-03	-.7165E 01	.1061E 01	.2942E-03	.1084E-03	.7147E 02	.1985E 02
165	.7991E-03	-.7132E 01	.1094E 01	.3040E-03	.1129E-03	.6917E 02	.1922E 02
170	.8257E-03	-.7099E 01	.1127E 01	.3141E-03	.1159E-03	.6695E 02	.1860E 02
175	.8531E-03	-.7067E 01	.1159E 01	.3245E-03	.1195E-03	.6480E 02	.1800E 02
180	.8814E-03	-.7034E 01	.0000E 00	.0000E 00	.0000E 00	.6272E 02	.1743E 02

SCAT= .5528E-01 30/45= .3139E 01 45/135= .5415E 01 SCAT30-130= .1856E-01

CH42/187 30164 0045H ST612 4-210

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.4714E 00	-.7520E 00	-.1829E 00	-.2760E 01	.0000E 00	.1415E 00	.3796E-01
5	.2305E 00	-.1467E 01	-.9607E 00	-.1284E 01	.1691E 02	.2895E 00	.7764E-01
10	.1185E 00	-.2133E 01	-.1520E 01	-.6246E 00	.7561E 01	.5630E 00	.1511E 00
15	.6395E-01	-.2750E 01	-.1971E 01	-.3171E 00	.3523E 01	.1043E 01	.2798E 00
20	.3627E-01	-.3317E 01	-.2319E 01	-.1679E 00	.1710E 01	.1839E 01	.4933E 00
25	.2162E-01	-.3834E 01	-.2646E 01	-.9480E-01	.8381E 00	.3085E 01	.8277E 00
30	.1334E-01	-.4317E 01	-.2800E 01	-.5360E-01	.4721E 00	.4998E 01	.1341E 01
35	.8667E-02	-.4748E 01	-.2696E 01	-.3003E-01	.2701E 00	.7695E 01	.2064E 01
40	.6046E-02	-.5108E 01	-.2774E 01	-.1931E-01	.1220E 00	.1103E 02	.2959E 01
45	.4361E-02	-.5435E 01	-.2623E 01	-.1207E-01	.8904E-01	.1529E 02	.4103E 01
50	.3308E-02	-.5711E 01	-.2911E 01	-.9166E-02	.3300E-01	.2016E 02	.5409E 01
55	.2507E-02	-.5989E 01	-.2206E 01	-.5018E-02	.4776E-01	.2661E 02	.7138E 01
60	.2069E-02	-.6181E 01	-.2651E 01	-.4637E-02	.2084E-02	.3224E 02	.8649E 01
65	.1647E-02	-.6409E 01	-.2575E 01	-.3278E-02	.1787E-01	.4051E 02	.1087E 02
70	.1361E-02	-.6600E 01	-.2475E 01	-.2447E-02	.9612E-02	.4902E 02	.1315E 02
75	.1147E-02	-.6771E 01	-.2177E 01	-.1723E-02	.8300E-02	.5815E 02	.1560E 02
80	.9966E-03	.6911E 01	-.2505E 01	-.1609E-02	.1305E-02	.6692E 02	.1795E 02
85	.8562E-03	-.7063E 01	-.1213E 01	-.6572E-03	.1091E-01	.7790E 02	.2090E 02
90	.7988E-03	-.7132E 01	-.1557E 01	-.7392E-03	-.9994E-03	.8349E 02	.2240E 02
95	.7343E-03	-.7217E 01	-.5395E 00	-.2296E-03	.5039E-02	.9083E 02	.2437E 02
100	.7143E-03	-.7244E 01	-.1202E 01	-.4664E-03	-.2713E-02	.9338E 02	.2505E 02
105	.6736E-03	-.7303E 01	-.3310E 00	-.1179E-03	.3993E-02	.9902E 02	.2656E 02
110	.6613E-03	-.7318E 01	-.1040E 01	-.3435E-03	-.2505E-02	.1006E 03	.2698E 02
115	.6333E-03	-.7365E 01	.6717E-01	.2070E-04	.4174E-02	.1053E 03	.2826E 02
120	.6351E-03	-.7362E 01	.1303E 01	.3975E-03	.4317E-02	.1050E 03	.2817E 02
125	.6698E-03	-.7309E 01	.1524E 01	.4727E-03	.8630E-03	.9957E 02	.2671E 02
130	.7111E-03	-.7249E 01	.2813E 01	.9125E-03	.5040E-02	.9380E 02	.2516E 02
135	.7907E-03	-.7143E 01	.7074E 00	.2361E-03	-.7751E-02	.8435E 02	.2263E 02
140	.8113E-03	-.7117E 01	.1587E 01	.5323E-03	.3394E-02	.8221E 02	.2206E 02
145	.8578E-03	-.7061E 01	.1642E 01	.5620E-03	.3492E-03	.7776E 02	.2086E 02
150	.9069E-03	-.7006E 01	.1698E 01	.5950E-03	.3692E-03	.7355E 02	.1973E 02
155	.9588E-03	-.6950E 01	.1754E 01	.6290E-03	.3904E-03	.6956E 02	.1866E 02
160	.1014E-02	-.6894E 01	.1809E 01	.6651E-03	.4127E-03	.6580E 02	.1766E 02
165	.1072E-02	-.6838E 01	.1865E 01	.7031E-03	.4584E-03	.6223E 02	.1670E 02
170	.1133E-02	-.6783E 01	.1921E 01	.7434E-03	.4613E-03	.5886E 02	.1579E 02
175	.1198E-02	-.6727E 01	.1976E 01	.7860E-03	.4877E-03	.5567E 02	.1494E 02
180	.1267E-02	-.6671E 01	.0000E 00	.0000E 00	.0000E 00	.5266E 02	.1413E 02

SCAT= .6670E-01 30/45= .3060E 01 45/135= .5516E 01 SCAT30-130= .1789E-01

CH42/188 30164 C100H ST612 6-400M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-180/SIGMA
00	.3553E 00	-.1035E 01	-.1941E 00	-.2166E 01	.0000E 00	.1278E 00	.3248E-01
5	.1663E 00	-.1794E 01	-.1018E 01	-.9641E 00	.1577E 02	.2730E 00	.6941E-01
10	.8212E-01	-.2500E 01	-.1606E 01	-.4504E 00	.5886E 01	.5527E 00	.1405E 00
15	.4202E-01	-.3151E 01	-.2076E 01	-.2206E 00	.2635E 01	.1060E 01	.2695E 00
20	.2357E-01	-.3748E 01	-.2434E 01	-.1132E 00	.1251E 01	.1926E 01	.4898E 00
25	.1369E-01	-.4291E 01	-.2707E 01	-.6112E-01	.5965E 00	.3316E 01	.8428E 00
30	.8358E-02	-.4785E 01	-.2925E 01	-.3381E-01	.3128E 00	.5431E 01	.1380E 01
35	.5407E-02	-.5220E 01	-.2758E 01	-.1909E-01	.1687E 00	.8395E 01	.2134E 01
40	.3741E-02	-.5588E 01	-.3033E 01	-.1288E-01	.7117E-01	.1213E 02	.3084E 01
45	.2617E-02	-.5946E 01	-.2398E 01	-.6698E-02	.7085E-01	.1734E 02	.4409E 01
50	.2033E-02	-.6198E 01	-.2022E 01	-.5494E-02	.1303E-01	.2233E 02	.5676E 01
55	.1554E-02	-.6467E 01	-.2604E 01	-.3609E-02	.2159E-01	.2922E 02	.7427E 01
60	.1233E-02	-.6694E 01	-.2149E 01	-.2242E-02	.1567E-01	.3665E 02	.9316E 01
65	.1043E-02	-.6866E 01	-.2646E 01	-.2128E-02	.1504E-02	.4352E 02	.1106E 02
70	.8573E-03	-.7062E 01	-.2099E 01	-.1325E-02	.9208E-02	.5295E 02	.1346E 02
75	.7417E-03	-.7207E 01	-.1867E 01	-.9648E-03	.4129E-02	.6120E 02	.1556E 02
80	.6575E-03	-.7327E 01	-.1886E 01	-.8141E-03	.1728E-02	.6904E 02	.1766E 02
85	.5865E-03	-.7441E 01	-.1237E 01	-.4589E-03	.4010E-02	.7740E 02	.1968E 02
90	.5464E-03	-.7512E 01	-.1179E 01	-.3468E-03	.8269E-03	.8307E 02	.2113E 02
95	.5127E-03	-.7576E 01	.8354E-01	.2523E-04	.4721E-02	.8854E 02	.2251E 02
100	.5149E-03	-.7572E 01	.1339E 00	.3869E-04	.1562E-03	.8816E 02	.2247E 02
105	.5183E-03	-.7565E 01	-.4680E 00	-.1279E-03	-.1909E-02	.8759E 02	.2227E 02
110	.5071E-03	-.7587E 01	-.6896E 00	-.1754E-03	-.5440E-03	.8952E 02	.2270E 02
115	.4918E-03	-.7617E 01	.7190E 00	.1751E-03	.4017E-02	.9230E 02	.2346E 02
120	.5071E-03	-.7587E 01	.1724E 01	.4236E-03	.2847E-02	.8952E 02	.2276E 02
125	.5440E-03	-.7517E 01	.3009E 01	.7809E-03	.4095E-02	.8344E 02	.2121E 02
130	.6122E-03	-.7398E 01	.3759E 01	.1069E-02	.5504E-03	.7415E 02	.1885E 02
135	.7055E-03	-.7257E 01	.1534E 01	.4638E-03	-.8938E-02	.6434E 02	.1636E 02
140	.7660E-03	-.7201E 01	.2593E 01	.8143E-03	.4016E-02	.6008E 02	.1547E 02
145	.8170E-03	-.7110E 01	.2684E 01	.8919E-03	.8889E-04	.5556E 02	.1412E 02
150	.8949E-03	-.7019E 01	.2775E 01	.9768E-03	.9736E-05	.5073E 02	.1290E 02
155	.9801E-03	-.6928E 01	.2866E 01	.1070E-02	.1066E-02	.4632E 02	.1177E 02
160	.1073E-02	-.6837E 01	.2957E 01	.1172E-02	.1116E-02	.4229E 02	.1098E 02
165	.1176E-02	-.6746E 01	.3048E 01	.1283E-02	.1279E-02	.3861E 02	.9828E 01
170	.1288E-02	-.6655E 01	.3139E 01	.1406E-02	.1401E-02	.3526E 02	.8961E 01
175	.1410E-02	-.6564E 01	.3230E 01	.1540E-02	.1534E-02	.3219E 02	.8182E 01
180	.1545E-02	-.6473E 01	.0000E 00	.0000E 00	.0000E 00	.2939E 02	.7470E 01

SCAT= .4539E-01 30/45= .3194E 01 45/135= .3719E 01 SCAT30-180= .1194E-01

CH42/189 30164 /15H ST612 9-700M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-180/SIGMA
00	.1495E 00	-.1901E 01	-.1750E 00	-.8490E 00	.0000E 00	.1696E 00	.5243E-01
5	.7537E-01	-.2585E 01	-.9193E 00	-.4070E 00	.5064E 01	.3362E 00	.1040E 00
10	.3985E-01	-.3223E 01	-.1455E 01	-.2035E 00	.2552E 01	.6359E 00	.1966E 00
15	.2209E-01	-.3812E 01	-.1886E 01	-.1060E 00	.1117E 01	.1147E 01	.3547E 00
20	.1284E-01	-.4355E 01	-.2219E 01	-.5748E-01	.5569E 00	.1974E 01	.6102E 00
25	.7826E-02	-.4850E 01	-.2526E 01	-.3109E-01	.2794E 00	.3238E 01	.1001E 01
30	.4938E-02	-.5311E 01	-.2864E 01	-.2023E-01	.1474E 00	.5132E 01	.1587E 01
35	.3173E-02	-.5751E 01	-.2332E 01	-.9730E-02	.1209E 00	.7987E 01	.2470E 01
40	.2324E-02	-.6064E 01	-.2743E 01	-.7953E-02	.2725E-01	.1091E 02	.3372E 01
45	.1682E-02	-.6388E 01	-.2582E 01	-.4592E-02	.3104E-01	.1507E 02	.4660E 01
50	.1282E-02	-.6660E 01	-.2214E 01	-.2799E-02	.2085E-01	.1978E 02	.6115E 01
55	.1037E-02	-.6871E 01	-.2506E 01	-.2329E-02	.9188E-02	.2443E 02	.7556E 01
60	.8361E-03	-.7089E 01	-.1730E 01	-.1236E-02	.1252E-01	.3039E 02	.9396E 01
65	.7262E-03	-.7228E 01	-.2900E 01	-.1609E-02	-.4277E-02	.3490E 02	.1079E 02
70	.5857E-03	-.7443E 01	-.1931E 01	-.8372E-03	.8084E-02	.4327E 02	.1338E 02
75	.5127E-03	-.7576E 01	-.1211E 01	-.4418E-03	.4651E-02	.4943E 02	.1528E 02
80	.4741E-03	-.7654E 01	-.7476E 00	-.2407E-03	.2504E-02	.5345E 02	.1659E 02
85	.4531E-03	-.7699E 01	-.1217E 01	-.3489E-03	-.1259E-02	.5598E 02	.1729E 02
90	.4227E-03	-.7769E 01	-.4864E 00	-.1257E-03	.2659E-02	.5996E 02	.1864E 02
95	.4117E-03	-.7795E 01	.9838E 00	.2442E-03	.4291E-02	.6156E 02	.1903E 02
100	.4330E-03	-.7745E 01	.8303E-01	.2014E-04	-.2567E-02	.5850E 02	.1810E 02
105	.4348E-03	-.7741E 01	-.2577E 00	-.5926E-04	-.4909E-03	.5829E 02	.1802E 02
110	.4296E-03	-.7753E 01	-.1026E 00	-.2240E-04	.6224E-03	.5899E 02	.1824E 02
115	.4276E-03	-.7757E 01	.7169E 00	.1523E-03	.2001E-02	.5926E 02	.1832E 02
120	.4409E-03	-.7727E 01	.1449E 01	.3079E-03	.1799E-02	.5748E 02	.1777E 02
125	.4678E-03	-.7667E 01	.2277E 01	.5007E-03	.2210E-02	.5418E 02	.1675E 02
130	.5115E-03	-.7578E 01	.2604E 01	.6054E-03	.1199E-02	.4955E 02	.1532E 02
135	.5643E-03	-.7480E 01	.1382E 01	.3334E-03	-.5117E-02	.4491E 02	.1389E 02
140	.5934E-03	-.7430E 01	.2003E 01	.4952E-03	.1066E-02	.4271E 02	.1321E 02
145	.6366E-03	-.7359E 01	.2074E 01	.5313E-03	.4109E-03	.3981E 02	.1231E 02
150	.6830E-03	-.7289E 01	.2144E 01	.5700E-03	.4434E-03	.3711E 02	.1147E 02
155	.7327E-03	-.7219E 01	.2214E 01	.6115E-03	.4767E-03	.3459E 02	.1069E 02
160	.7861E-03	-.7148E 01	.2284E 01	.6560E-03	.5109E-03	.3224E 02	.9968E 01
165	.8434E-03	-.7078E 01	.2355E 01	.7038E-03	.5479E-03	.3005E 02	.9292E 01
170	.9048E-03	-.7008E 01	.2425E 01	.7551E-03	.5874E-03	.2801E 02	.8661E 01
175	.9707E-03	-.6938E 01	.2495E 01	.8101E-03	.6302E-03	.2611E 02	.8073E 01
180	.1041E-02	-.6867E 01	.0000E 00	.0000E 00	.0000E 00	.2434E 02	.7526E 01

SCAT= .2534E-01 30/45= .2936E 01 45/135= .2981E 01 SCAT30-180= .7836E-02

CH42/190 30164 0130H ST612 5-300M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-180/SIGMA
00	.2516E 00	-.1380E 01	-.1933E 00	-.1529E 01	.0000E 00	.1301E 00	.3439E-01
5	.1182E 00	-.2136E 01	-.1012E 01	-.6829E 00	.7704E 01	.2770E 00	.7324E-01
10	.5860E-01	-.2837E 01	-.1595E 01	-.3198E 00	.4156E 01	.5586E 00	.1477E 00
15	.3069E-01	-.3484E 01	-.2058E 01	-.1572E 00	.1664E 01	.1067E 01	.2820E 00
20	.1698E-01	-.4076E 01	-.2409E 01	-.8090E-01	.8740E 00	.1928E 01	.5097E 00
25	.9917E-02	-.4613E 01	-.2659E 01	-.4367E-01	.4267E 00	.3301E 01	.8728E 00
30	.6107E-02	-.5098E 01	-.2932E 01	-.2545E-01	.2088E 00	.5360E 01	.1417E 01
35	.3886E-02	-.5550E 01	-.2562E 01	-.1290E-01	.1430E 00	.8423E 01	.2227E 01
40	.2760E-02	-.5892E 01	-.2910E 01	-.9180E-02	.4269E-01	.1186E 02	.3136E 01
45	.1959E-02	-.6235E 01	-.2476E 01	-.5156E-02	.4611E-01	.1671E 02	.4417E 01
50	.1509E-02	-.6496E 01	-.2530E 01	-.3716E-02	.1651E-01	.2169E 02	.5733E 01
55	.1185E-02	-.6738E 01	-.2703E 01	-.2846E-02	.9969E-02	.2762E 02	.7302E 01
60	.9368E-03	-.6973E 01	-.2285E 01	-.1794E-02	.1206E-01	.3495E 02	.9238E 01
65	.7802E-03	-.7156E 01	-.2528E 01	-.1527E-02	.3069E-02	.4196E 02	.1109E 02
70	.6469E-03	-.7343E 01	-.2419E 01	-.1139E-02	.4449E-02	.5060E 02	.1338E 02
75	.5475E-03	-.7510E 01	-.1803E 01	-.6892E-03	.5159E-02	.5980E 02	.1581E 02
80	.4873E-03	-.7627E 01	-.1803E 01	-.6703E-03	.1271E-02	.6718E 02	.1776E 02
85	.4369E-03	-.7736E 01	-.6781E 00	-.1903E-03	.4446E-02	.7494E 02	.1981E 02
90	.4203E-03	-.7775E 01	-.7622E 00	-.1944E-03	-.4710E-04	.7790E 02	.2059E 02
95	.4033E-03	-.7816E 01	.5955E 00	.1433E-03	.3070E-02	.8117E 02	.2146E 02
100	.4158E-03	-.7785E 01	-.3102E 00	-.7156E-04	-.2409E-02	.7873E 02	.2081E 02
105	.4095E-03	-.7800E 01	.2502E-01	.5466E-05	.8026E-03	.7995E 02	.2113E 02
110	.4100E-03	-.7799E 01	-.3836E 00	-.7944E-04	-.9730E-03	.7984E 02	.2111E 02
115	.4031E-03	-.7816E 01	.6386E 00	.1273E-03	.3369E-02	.8121E 02	.2147E 02
120	.4142E-03	-.7789E 01	.7925E 00	.1561E-03	.1301E-03	.7905E 02	.2090E 02
125	.4278E-03	-.7757E 01	.1713E 01	.3408E-03	.2117E-02	.7652E 02	.2023E 02
130	.4576E-03	-.7690E 01	.2137E 01	.4404E-03	.1142E-02	.7155E 02	.1892E 02
135	.4960E-03	-.7609E 01	.8919E 00	.1874E-03	-.2900E-02	.6600E 02	.1745E 02
140	.5123E-03	-.7577E 01	.1465E 01	.3090E-03	.1409E-02	.6390E 02	.1689E 02
145	.5394E-03	-.7525E 01	.1517E 01	.3262E-03	.1879E-03	.6069E 02	.1604E 02
150	.5678E-03	-.7474E 01	.1568E 01	.3434E-03	.1972E-03	.5768E 02	.1524E 02
155	.5978E-03	-.7422E 01	.1620E 01	.3615E-03	.2070E-03	.5476E 02	.1448E 02
160	.6294E-03	-.7371E 01	.1671E 01	.3806E-03	.2180E-03	.5202E 02	.1375E 02
165	.6626E-03	-.7319E 01	.1723E 01	.4006E-03	.2902E-03	.4941E 02	.1306E 02
170	.6975E-03	-.7268E 01	.1774E 01	.4218E-03	.2429E-03	.4693E 02	.1241E 02
175	.7343E-03	-.7217E 01	.1825E 01	.4440E-03	.2550E-03	.4458E 02	.1178E 02
180	.7731E-03	-.7165E 01	.0000E 00	.0000E 00	.0000E 00	.4234E 02	.1119E 02

SCAT= .3274E-01 30/45= .3117E 01 45/135= .3950E 01 SCAT30-180= .8654E-02

CH42/191 30164 0145H ST612 9-1000M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-180/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	.7529E-03	-.7192E 01	.1199E 01	.3347E-03	.1492E-03	.1090E 03	.1697E 02
160	.7821E-03	-.7154E 01	.1237E 01	.3477E-03	.1400E-03	.1049E 03	.1633E 02
165	.8125E-03	-.7115E 01	.1275E 01	.3612E-03	.1646E-03	.1010E 03	.1572E 02
170	.8440E-03	-.7077E 01	.1313E 01	.3752E-03	.1606E-03	.9721E 02	.1514E 02
175	.8767E-03	-.7034E 01	.1351E 01	.3898E-03	.1668E-03	.9358E 02	.1457E 02
180	.9107E-03	-.7001E 01	.0000E 00	.0000E 00	.0000E 00	.9009E 02	.1402E 02

SCAT= .8205E-01 30/45= .3317E 01 45/135= .4206E 01 SCAT30-180= .1277E-01

CH42/192 30164 0200H ST612 M-600M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-180/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	.2323E 01	.7523E-03	[illegible]	.5121E 02	.1271E 02
160	.9238E-03	-.6987E 01	.2396E 01	.8101E-03	.6899E-03	.4757E 02	.1180E 02
165	.9945E-03	-.6913E 01	.2470E 01	.8721E-03	.7104E-03	.4419E 02	.1096E 02
170	.1071E-02	-.6840E 01	.2544E 01	.9388E-03	.7647E-03	.4106E 02	.1018E 02
175	.1153E-02	-.6766E 01	.2618E 01	.1011E-02	.8209E-03	.3815E 02	.9461E 01
180	.1241E-02	-.6692E 01	.0000E 00	.0000E 00	.0000E 00	.3542E 02	.8788E 01

SCAT= .4395E-01 30/45= .3166E 01 45/135= .3624E 01 SCAT30-180= .1090E-01

CH42/193 30164 0740H ST613 31 3N 64 47W PIPE SURFACE

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-180/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	.7738E-03	-.7164E 01	.6190E 00	.1751E-03	.3800E-04	.8015E 02	.2180E 02
160	.7891E-03	-.7145E 01	.6394E 00	.1789E-03	.3961E-04	.7860E 02	.2160E 02
165	.8047E-03	-.7125E 01	.6549E 00	.1821E-03	.4040E-04	.7708E 02	.2099E 02
170	.8206E-03	-.7105E 01	.6745E 00	.1857E-03	.4110E-04	.7559E 02	.2060E 02
175	.8368E-03	-.7086E 01	.6440E 00	.1893E-03	.4200E-04	.7413E 02	.2018E 02
180	.8533E-03	-.7066E 01	.0000E 00	.0000E 00	.0000E 00	.7269E 02	.1979E 02

SCAT= .6202E-01 30/45= .3296E 01 45/135= .5313E 01 SCAT30-180= .1689E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-180/SIGMA
00	.2230E 00	-.1501E 01	-.1268E 00	-.9990E 00	.0000E 00	.2712E 00	.9684E-01
5	.1358E 00	-.1996E 01	-.6855E 00	-.5887E 00	.4702E 01	.4452E 00	.1590E 00
10	.8446E-01	-.2472E 01	-.1121E 01	-.3535E 00	.2609E 01	.7160E 00	.2554E 00
15	.5361E-01	-.2926E 01	-.1500E 01	-.2162E 00	.1573E 01	.1128E 01	.4008E 00
20	.3474E-01	-.3360E 01	-.1852E 01	-.1347E 00	.9539E 00	.1741E 01	.6105E 00
25	.2298E-01	-.3773E 01	-.2259E 01	-.8889E-01	.5255E 00	.2632E 01	.9350E 00
30	.1522E-01	-.4185E 01	-.2499E 01	-.5576E-01	.3790E 00	.3973E 01	.1412E 01
35	.1035E-01	-.4570E 01	-.2294E 01	-.3130E-01	.2803E 00	.5840E 01	.2076E 01
40	.7623E-02	-.4877E 01	-.3451E 01	-.2918E-01	.2434E-01	.7933E 01	.2819E 01
45	.5077E-02	-.5283E 01	-.2504E 01	-.1349E-01	.1790E 00	.1191E 02	.4282E 01
50	.3900E-02	-.5547E 01	-.2814E 01	-.1053E-01	.3994E-01	.1551E 02	.5510E 01
55	.2981E-02	-.5816E 01	-.2502E 01	-.6683E-02	.4406E-01	.2029E 02	.7307E 01
60	.2398E-02	-.6033E 01	-.2453E 01	-.4897E-02	.2047E-01	.2522E 02	.8962E 01
65	.1970E-02	-.6230E 01	-.2711E 01	-.3412E-02	.2701E-01	.3069E 02	.1090E 02
70	.1673E-02	-.6393E 01	-.2785E 01	-.3351E-02	.7098E-03	.3616E 02	.1280E 02
75	.1380E-02	-.6586E 01	-.1761E 01	-.1236E-02	.2429E-01	.4381E 02	.1557E 02
80	.1272E-02	-.6667E 01	-.2088E 01	-.1733E-02	-.5700E-02	.4755E 02	.1689E 02
85	.1121E-02	-.6793E 01	-.2061E 01	-.1428E-02	.5502E-02	.5394E 02	.1916E 02
90	.9965E-03	-.6911E 01	-.2064E 01	-.1206E-02	.2649E-02	.6069E 02	.2160E 02
95	.8912E-03	-.7023E 01	-.8104E 00	-.4158E-03	.9009E-02	.6785E 02	.2412E 02
100	.8550E-03	-.7064E 01	-.4603E 00	-.2176E-03	.2272E-02	.7073E 02	.2519E 02
105	.8360E-03	-.7087E 01	-.7141E 00	-.3130E-03	-.1096E-02	.7234E 02	.2570E 02
110	.8087E-03	-.7120E 01	-.8406E 00	-.3399E-03	-.9077E-03	.7478E 02	.2657E 02
115	.7790E-03	-.7158E 01	.2146E 00	.8190E-04	.4889E-02	.7763E 02	.2758E 02
120	.7861E-03	-.7148E 01	.2406E 00	.1030E-03	.2807E-03	.7692E 02	.2733E 02
125	.7952E-03	-.7137E 01	.5638E 00	.2037E-03	.1145E-02	.7605E 02	.2702E 02
130	.8130E-03	-.7115E 01	.6906E 00	.2460E-03	.4084E-03	.7438E 02	.2643E 02
135	.8344E-03	-.7089E 01	.3320E 00	.1161E-03	-.1480E-02	.7247E 02	.2575E 02
140	.8446E-03	-.7077E 01	.4875E 00	.1670E-03	.5820E-03	.7160E 02	.2544E 02
145	.8592E-03	-.7060E 01	.5046E 00	.1699E-03	.3302E-04	.7039E 02	.2501E 02
150	.8740E-03	-.7042E 01	.5217E 00	.1728E-03	.3387E-04	.6919E 02	.2459E 02
155	.8891E-03	-.7025E 01	.5388E 00	.1758E-03	.3420E-04	.6802E 02	.2417E 02
160	.9044E-03	-.7008E 01	.5559E 00	.1788E-03	.3475E-04	.6686E 02	.2376E 02
165	.9200E-03	-.6991E 01	.5730E 00	.1819E-03	.3595E-04	.6573E 02	.2335E 02
170	.9359E-03	-.6974E 01	.5901E 00	.1850E-03	.3696E-04	.6462E 02	.2296E 02
175	.9520E-03	-.6957E 01	.6072E 00	.1882E-03	.3669E-04	.6352E 02	.2257E 02
180	.9684E-03	-.6940E 01	.0000E 00	.0000E 00	.0000E 00	.6244E 02	.2219E 02

SCAT= .6047E-01 30/45= .2998E 01 45/135= .4084E 01 SCAT30-180= .2149E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-180/SIGMA
00	.4310E 00	-.8417E 00	-.1902E 00	-.2663E 01	.0000E 00	.1192E 00	.2081E-01
5	.1985E 00	-.1617E 01	-.1039E 01	-.1160E 01	.1714E 02	.2588E 00	.6256E-01
10	.9665E-01	-.2337E 01	-.1640E 01	-.5379E 00	.7217E 01	.5317E 00	.1285E 00
15	.4971E-01	-.3002E 01	-.2120E 01	-.2601E 00	.3184E 01	.1034E 01	.2490E 00
20	.2702E-01	-.3611E 01	-.2486E 01	-.1318E 00	.1470E 01	.1902E 01	.4587E 00
25	.1551E-01	-.4166E 01	-.2878E 01	-.7258E-01	.6787E 00	.3313E 01	.8000E 00
30	.9180E-02	-.4691E 01	-.2920E 01	-.3821E-01	.3999E 00	.5598E 01	.1353E 01
35	.5845E-02	-.5142E 01	-.2859E 01	-.2125E-01	.1949E 00	.8792E 01	.2128E 01
40	.3990E-02	-.5524E 01	-.3017E 01	-.1367E-01	.8804E-01	.1288E 02	.3112E 01
45	.2797E-02	-.5879E 01	-.2586E 01	-.7644E-02	.6914E-01	.1837E 02	.4446E 01
50	.2130E-02	-.6152E 01	-.2355E 01	-.4908E-02	.3139E-01	.2412E 02	.5830E 01
55	.1702E-02	-.6376E 01	-.2508E 01	-.3824E-02	.1243E-01	.3020E 02	.7290E 01
60	.1368E-02	-.6594E 01	-.2398E 01	-.2738E-02	.1244E-01	.3757E 02	.9077E 01
65	.1129E-02	-.6786E 01	-.2397E 01	-.2106E-02	.7249E-02	.4552E 02	.1108E 02
70	.9453E-03	-.6964E 01	-.2454E 01	-.1687E-02	.4008E-02	.5438E 02	.1314E 02
75	.7981E-03	-.7133E 01	-.2026E 01	-.1121E-02	.6468E-02	.6439E 02	.1566E 02
80	.7003E-03	-.7264E 01	-.1382E 01	-.6450E-03	.5481E-02	.7339E 02	.1779E 02
85	.6440E-03	-.7348E 01	-.1791E 01	-.7179E-03	-.8987E-03	.7900E 02	.1920E 02
90	.5814E-03	-.7450E 01	-.1418E 01	-.4410E-03	.2691E-02	.8840E 02	.2136E 02
95	.5385E-03	-.7527E 01	.1085E 00	.3443E-04	.6038E-02	.9446E 02	.2206E 02
100	.5415E-03	-.7521E 01	.6688E-01	.2020E-04	-.1623E-04	.9498E 02	.2296E 02
105	.5432E-03	-.7518E 01	.2317E 00	.6747E-04	.5407E-03	.9461E 02	.2294E 02
110	.5491E-03	-.7507E 01	-.9800E 00	-.2682E-03	-.5067E-02	.9399E 02	.2268E 02
115	.5257E-03	-.7551E 01	.7242E 00	.1806E-03	.5295E-02	.9776E 02	.2363E 02
120	.5422E-03	-.7520E 01	.1459E 01	.3812E-03	.2207E-02	.9479E 02	.2292E 02
125	.5754E-03	-.7460E 01	.1800E 01	.4823E-03	.1184E-02	.8931E 02	.2160E 02
130	.6175E-03	-.7390E 01	.1890E 01	.5231E-03	.4678E-03	.8329E 02	.2011E 02
135	.6632E-03	-.7318E 01	.1384E 01	.3922E-03	-.2609E-02	.7790E 02	.1869E 02
140	.6974E-03	-.7268E 01	.1694E 01	.4896E-03	.1118E-02	.7369E 02	.1782E 02
145	.7401E-03	-.7209E 01	.1754E 01	.5196E-03	.3497E-03	.6944E 02	.1670E 02
150	.7854E-03	-.7149E 01	.1813E 01	.5514E-03	.3647E-03	.6543E 02	.1581E 02
155	.8336E-03	-.7090E 01	.1873E 01	.5852E-03	.3872E-03	.6165E 02	.1480E 02
160	.8846E-03	-.7030E 01	.1932E 01	.6210E-03	.4100E-03	.5810E 02	.1404E 02
165	.9388E-03	-.6971E 01	.1992E 01	.6591E-03	.4359E-03	.5474E 02	.1323E 02
170	.9963E-03	-.6911E 01	.2051E 01	.6994E-03	.4627E-03	.5160E 02	.1246E 02
175	.1057E-02	-.6852E 01	.2111E 01	.7423E-03	.4920E-03	.4860E 02	.1174E 02
180	.1122E-02	-.6793E 01	.0000E 00	.0000E 00	.0000E 00	.4580E 02	.1107E 02

SCAT= .5139E-01 30/45= .3282E 01 45/135= .4210E 01 SCAT30-180= .1342E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-180/SIGMA
00	.4092E 00	-.8934E 00	-.1057E 00	-.2422E 01	.0000E 00	.1355E 00	.3961E-01
5	.1979E 00	-.1620E 01	-.9761E 00	-.1115E 01	.1497E 02	.2803E 00	.7321E-01
10	.1006E 00	-.2296E 01	-.1546E 01	-.5369E 00	.6025E 01	.5513E 00	.1440E 00
15	.5376E-01	-.2923E 01	-.2005E 01	-.2701E 00	.3050E 01	.1032E 01	.2695E 00
20	.3020E-01	-.3500E 01	-.2342E 01	-.1417E 00	.1470E 01	.1837E 01	.4799E 00
25	.1783E-01	-.4027E 01	-.2714E 01	-.7975E-01	.7104E 00	.3112E 01	.8128E 00
30	.1087E-01	-.4522E 01	-.2877E 01	-.4461E-01	.4026E 00	.5104E 01	.1333E 01
35	.6975E-02	-.4965E 01	-.2604E 01	-.2496E-01	.2252E 00	.7953E 01	.2077E 01
40	.4797E-02	-.5340E 01	-.2730E 01	-.1511E-01	.1129E 00	.1156E 02	.3021E 01
45	.3478E-02	-.5661E 01	-.2814E 01	-.1023E-01	.5608E-01	.1595E 02	.4166E 01
50	.2586E-02	-.5958E 01	-.2371E 01	-.5994E-02	.4850E-01	.2145E 02	.5604E 01
55	.2063E-02	-.6184E 01	-.2653E 01	-.4071E-02	.1206E-01	.2689E 02	.7025E 01
60	.1637E-02	-.6415E 01	-.2462E 01	-.3357E-02	.1734E-01	.3388E 02	.8849E 01
65	.1345E-02	-.6612E 01	-.2861E 01	-.2943E-02	.4737E-02	.4126E 02	.1078E 02
70	.1088E-02	-.6824E 01	-.2260E 01	-.1000E-02	.1310E-01	.5100E 02	.1332E 02
75	.9307E-03	-.6980E 01	-.2768E 01	-.1749E-02	.6300E-03	.5960E 02	.1557E 02
80	.7784E-03	-.7158E 01	-.1712E 01	-.8792E-03	.9917E-02	.7126E 02	.1862E 02
85	.7017E-03	-.7262E 01	-.1422E 01	-.6278E-03	.2084E-02	.7905E 02	.2065E 02
90	.6469E-03	-.7343E 01	-.1239E 01	-.4602E-03	.1689E-02	.8575E 02	.2240E 02
95	.6050E-03	-.7410E 01	-.1918E 00	-.6700E-04	.4725E-02	.9168E 02	.2395E 02
100	.5991E-03	-.7420E 01	-.5906E 00	-.1950E-03	-.1457E-02	.9259E 02	.2418E 02
105	.5821E-03	-.7449E 01	-.9965E 00	-.1825E-03	.1429E-03	.9530E 02	.2489E 02
110	.5661E-03	-.7477E 01	-.1203E 01	-.3379E-03	-.1700E-02	.9798E 02	.2559E 02
115	.5367E-03	-.7530E 01	.5105E 00	.1351E-03	.9420E-02	.1034E 03	.2700E 02
120	.5484E-03	-.7508E 01	.8851E-01	.2279E-04	-.1207E-02	.1011E 03	.2642E 02
125	.5504E-03	-.7505E 01	.1362E 01	.3462E-03	.3707E-02	.1008E 03	.2633E 02
130	.5806E-03	-.7451E 01	.1551E 01	.4010E-03	.6279E-03	.9553E 02	.2496E 02
135	.6156E-03	-.7393E 01	.4430E 00	.1146E-03	-.3207E-02	.9010E 02	.2354E 02
140	.6256E-03	-.7377E 01	.9449E 00	.2417E-03	.1457E-02	.8866E 02	.2316E 02
145	.6467E-03	-.7344E 01	.9780E 00	.2490E-03	.9337E-04	.8577E 02	.2241E 02
150	.6685E-03	-.7310E 01	.1011E 01	.2583E-03	.9652E-04	.8297E 02	.2167E 02
155	.6911E-03	-.7277E 01	.1044E 01	.2670E-03	.9970E-04	.8027E 02	.2097E 02
160	.7144E-03	-.7244E 01	.1078E 01	.2760E-03	.1031E-03	.7765E 02	.2028E 02
165	.7385E-03	-.7211E 01	.1111E 01	.2853E-03	.1066E-03	.7512E 02	.1962E 02
170	.7633E-03	-.7178E 01	.1144E 01	.2949E-03	.1102E-03	.7267E 02	.1898E 02
175	.7891E-03	-.7145E 01	.1177E 01	.3040E-03	.1139E-03	.7030E 02	.1836E 02
180	.8157E-03	-.7111E 01	.0000E 00	.0000E 00	.0000E 00	.6801E 02	.1776E 02

SCAT= .5547E-01 30/45= .3125E 01 45/135= .5650E 01 SCAT30-180= .1449E-01

CH42/197 30164 0910H ST613 4-210M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
165	[illegible]	[illegible]	[illegible]	.2861E-03	.7773E-04	.7986E 02	.2330E 02
170	.1053E-02	-.6856E 01	.8270E 00	.2930E-03	.7962E-04	.7797E 02	.2274E 02
175	.1079E-02	-.6832F 01	.8518E 00	.3002E-03	.8155E-04	.7612E 02	.2220E 02
180	.1105E-02	-.6808E 01	.0000E 00	.0000E 00	.0000F 00	.7432E 02	.2168E 02

SCAT= .8210E-01 30/45= .2930F 01 45/135= .6518E 01 SCAT30-130= .2395E-01

CH42/198 30164 0925H ST613 10-1000M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.4310E 00	-.8417E 00	-.2067E 00	-.2738E 01	.0000E 00	.1124F 00	.2758E-01
5	.1920E 00	-.1650E 01	-.1078E 01	-.1158E 01	.1811E 02	.2523E 00	.6280E-01
10	.9098E-01	-.2397E 01	-.1691E 01	-.5173E 00	.7341E 01	.5325E 00	.1325E 00
15	.4584E-01	-.3083F 01	-.2169E 01	-.2438E 00	.3133E 01	.1057E 01	.2631E 00
20	.2456E-01	-.3707E 01	-.2521E 01	-.1211E 00	.1407E 01	.1973E 01	.4910E 00
25	.1399E-01	-.4269F 01	-.2839E 01	-.6478E-01	.6451E 00	.3463E 01	.8618E 00
30	.8339E-02	-.4787E 01	-.2787E 01	-.3338E-01	.3598E 00	.5810E 01	.1446E 01
35	.5426F-02	-.5217F 01	-.3006E 01	-.2056E-01	.1469E 00	.8929E 01	.2222E 01
40	.3632E-02	-.5618E 01	-.2584E 01	-.1092E-01	.1104E 00	.1334E 02	.3320E 01
45	.2679E-02	-.5922E 01	-.2507E 01	-.7126E-02	.4350E-01	.1809E 02	.4501E 01
50	.2057E-02	-.6186F 01	-.2752E 01	-.5439E-02	.1933E-01	.2355E 02	.5862E 01
55	.1582E-02	-.6449E 01	-.1846E 01	-.2690E-02	.3149E-01	.3062E 02	.7620E 01
60	.1348E-02	-.6609F 01	-.2265E 01	-.2564E-02	.1446E-02	.3595E 02	.8947E 01
65	.1124E-02	-.6791F 01	-.2258E 01	-.1984E-02	.6649E-02	.4311E 02	.1073E 02
70	.9507E-03	-.6958E 01	-.2193E 01	-.1530E-02	.5204E-02	.5096E 02	.1268E 02
75	.8172E-03	-.7110E 01	-.1748E 01	-.9989E-03	.6085E-02	.5928E 02	.1475E 02
80	.7301E-03	-.7222E 01	-.2194E 01	-.1042E-02	-.4921E-03	.6636E 02	.1652E 02
85	.6392E-03	-.7355E 01	-.5418E 00	-.2234E-03	.9378E-02	.7580E 02	.1887E 02
90	.6197E-03	-.7386E 01	-.1437E 01	-.5307E-03	-.3521E-02	.7818E 02	.1946E 02
95	.5734E-03	-.7464E 01	-.9194E-02	-.3097E-05	.6046E-02	.8450E 02	.2103E 02
100	.5731E-03	-.7464E 01	.7804E 00	.2549E-03	.2956E-02	.8454E 02	.2104E 02
105	.5953E-03	-.7426E 01	-.1048E 01	-.3247E-03	-.6642E-02	.8138E 02	.2025E 02
110	.5670F-03	-.7475E 01	-.4220E 00	-.1207E-03	.2337E-02	.8545E 02	.2127E 02
115	.5565E-03	-.7494E 01	.1323E 00	.3600E-04	.1796E-02	.8707E 02	.2167E 02
120	.5596E-03	-.7488E 01	.6710E 00	.1781E-03	.1628E-02	.8658E 02	.2155E 02
125	.5751E-03	-.7461F 01	.1153E 01	.3049E-03	.1453E-02	.8424E 02	.2097E 02
130	.6017E-03	-.7416E 01	.1019E 01	.2703E-03	-.3964E-03	.8051E 02	.2004E 02
135	.6253F-03	-.7377E 01	.6358E 00	.1676E-03	-.1177E-02	.7748E 02	.1928E 02
140	.6400E-03	-.7354E 01	.8719E 00	.2278E-03	.6898E-03	.7571E 02	.1884E 02
145	.6598F-03	-.7324E 01	.9025E 00	.2349E-03	.8112E-04	.7342E 02	.1827E 02
150	.6803E-03	-.7293E 01	.9331E 00	.2422E-03	.8362E-04	.7121E 02	.1772E 02
155	.7015E-03	-.7262E 01	.9637E 00	.2497E-03	.8623E-04	.6907E 02	.1719E 02
160	.7233E-03	-.7232E 01	.9942E 00	.2575E-03	.8891E-04	.6698E 02	.1667E 02
165	.7457E-03	-.7201E 01	.1025E 01	.2655E-03	.9167E-04	.6497E 02	.1617E 02
170	.7689E-03	-.7171E 01	.1055E 01	.2737E-03	.9452E-04	.6301E 02	.1568E 02
175	.7928F-03	-.7140F 01	.1086E 01	.2822E-03	.9745E-04	.6111E 02	.1521E 02
180	.8174E-03	-.7109E 01	.0000E 00	.0000E 00	.0000E 00	.5927E 02	.1475E 02

SCAT= .4845E-01 30/45= .3113E 01 45/135= .4284E 01 SCAT30-130= .1206E-01

CH42/199 30164 0945H ST613 5-300M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3339E 00	-.1097E 01	-.1775E 00	-.1915E 01	.0000E 00	.1578E 00	.4635E-01
5	.1667F 00	-.1791E 01	-.9305E 00	-.9082E 00	.1154E 02	.3159E 00	.9281E-01
10	.8748E-01	-.2436E 01	-.1469E 01	-.4499E 00	.5252E 01	.6021E 00	.1769E 00
15	.4822E-01	-.3032E 01	-.1859E 01	-.2326E 00	.2490E 01	.1092E 01	.3209E 00
20	.2793E-01	-.3578E 01	-.2227E 01	-.1253E 00	.1229E 01	.1886E 01	.5541E 00
25	.1699E-01	-.4075F 01	-.2594E 01	-.7336E-01	.5954E 00	.3100E 01	.9108E 00
30	.1059E-01	-.4546E 01	-.2761E 01	-.4206E-01	.3507E 00	.4975E 01	.1462E 01
35	.6917E-02	-.4974E 01	-.2431E 01	-.2197E-01	.2302E 00	.7614E 01	.2237E 01
40	.5000E-02	-.5298E 01	-.2717E 01	-.1569E-01	.7201E-01	.1053E 02	.3095E 01
45	.3631F-02	-.5618E 01	-.2441E 01	-.9433E-02	.7168E-01	.1451E 02	.4262E 01
50	.2808E-02	-.5875E 01	-.2881E 01	-.7724E-02	.1959E-01	.1876E 02	.5512E 01
55	.2134E-02	-.6150E 01	-.2463E 01	-.4716E-02	.3447E-01	.2469E 02	.7253E 01
60	.1722E-02	-.6364E 01	-.2334E 01	-.3362E-02	.1557E-01	.3059E 02	.8987E 01
65	.1429E-02	-.6551E 01	-.2454E 01	-.2722E-02	.7335E-02	.3687E 02	.1083E 02
70	.1191E-02	-.6733E 01	-.2070E 01	-.1775E-02	.1085E-01	.4422F 02	.1299E 02
75	.1036F-02	-.6872E 01	-.1965E 01	-.1414E-02	.4144E-02	.5083E 02	.1494E 02
80	.9127E-03	-.6999E 01	-.1732E 01	-.1043E-02	.4253E-02	.5771E 02	.1695E 02
85	.8217E-03	-.7104E 01	-.1741E 01	-.8919E-03	.1728E-02	.6410E 02	.1883E 02
90	.7439E-03	-.7204E 01	-.1148E 01	-.5130E-03	.4341E-02	.7080E 02	.2080E 02
95	.6991E-03	-.7266E 01	-.2452E 00	-.1001E-03	.4732E-02	.7534E 02	.2213E 02
100	.6904E-03	-.7278E 01	-.5189E 00	-.1970E-03	-.1119E-02	.7629E 02	.2241E 02
105	.6731E-03	-.7304F 01	.4403E-01	.1582E-04	.2448E-02	.7825E 02	.2299E 02
110	.6745E-03	-.7302E 01	-.6620E 00	-.2241E-03	-.2749E-02	.7809E 02	.2294E 02
115	.6550F-03	-.7331E 01	.4240E 00	.1367E-03	.4134E-02	.8042E 02	.2363E 02
120	.6669E-03	-.7313E 01	.1530E 01	.4924E-03	.4077E-02	.7898E 02	.2320E 02
125	.7099F-03	-.7250E 01	.1405E 01	.4609E-03	-.3614E-03	.7420E 02	.2180E 02
130	.7501E-03	-.7195E 01	.2780E 01	.9508E-03	.5614E-02	.7022E 02	.2063E 02
135	.8331E-03	-.7090F 01	.9654E 00	.3429E-03	-.6970E-02	.6323E 02	.1858E 02
140	.8629F-03	-.7055E 01	.1706E 01	.6099E-03	.3064E-02	.6104E 02	.1793E 02
145	.9162E-03	-.6995E 01	.1765E 01	.6475E-03	.4311E-03	.5749E 02	.1689E 02
150	.9727E-03	-.6935F 01	.1825E 01	.6875E-03	.4577E-03	.5415E 02	.1591E 02
155	.1033E-02	-.6876E 01	.1885E 01	.7299E-03	.4859E-03	.5100E 02	.1499E 02
160	.1096E-02	-.6816E 01	.1945F 01	.7749E-03	.5159E-03	.4804E 02	.1411E 02
165	.1164E-02	-.6756E 01	.2005E 01	.8227E-03	.5477E-03	.4525E 02	.1329E 02
170	.1236E-02	-.6696E 01	.2065E 01	.8734E-03	.5814E-03	.4262E 02	.1252E 02
175	.1317F-02	-.6636E 01	.2125E 01	.9273E-03	.6173E-03	.4019E 02	.1179E 02
180	.1393E-02	-.6576E 01	.0000E 00	.0000F 00	.0000E 00	.3781E 02	.1111E 02

SCAT= .5267E-01 30/45= .2916E 01 45/135= .4358E 01 SCAT30-130= .1547E-01

CH42/200 30164 1000H ST613 7-500M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1166E 00	-.2149E 01	-.1460F 00	-.5812E 00	.0000F 00	.2401E 00	.8432E-01
5	.6588E-01	-.2720E 01	-.7742E 00	-.3135E 00	.3067E 01	.4249E 00	.1528E 00
10	.3852E-01	-.3257E 01	-.1239E 01	-.1743E 00	.1595E 01	.7266E 00	.2613E 00
15	.2331F-01	-.3759E 01	-.1627E 01	-.9984E-01	.8553F 00	.1201F 01	.4318E 00
20	.1460E-01	-.4227F 01	-.1944E 01	-.5887E-01	.4695F 00	.1918E 01	.6895E 00
25	.9459E-02	-.4661E 01	-.2275E 01	-.3479E-01	.2529E 00	.2959E 01	.1064E 01
30	.6248E-02	-.5076E 01	-.2515E 01	-.2301E-01	.1580F 00	.4480E 01	.1611E 01
35	.4240E-02	-.5463E 01	-.2335E 01	-.1302E-01	.1145E 00	.6601E 01	.2374E 01
40	.3104E-02	-.5775F 01	-.2577E 01	-.9311E-02	.4245F-01	.9017E 01	.3242E 01
45	.2291E-02	-.6079E 01	-.2585E 01	-.6261E-02	.3495E-01	.1221E 02	.4392E 01
50	.1745E-02	-.6351E 01	-.2216E 01	-.3807E-02	.2812E-01	.1604E 02	.5767E 01
55	.1413E-02	-.6562F 01	-.2463E 01	-.3122E-02	.7850F-02	.1981E 02	.7124E 01
60	.1140E-02	-.6777E 01	-.2506E 01	-.2375F-02	.8564E-02	.2455E 02	.8826E 01
65	.9330E-03	-.6977E 01	-.2352E 01	-.1710E-02	.7618E-02	.3000E 02	.1079E 02
70	.7837E-03	-.7151E 01	-.2194E 01	-.1261E-02	.5144F-02	.3571E 02	.1284E 02
75	.6736E-03	-.7303F 01	-.1395F 01	-.6644E-03	.6840E-02	.4155E 02	.1494E 02
80	.6157F-03	-.7393E 01	-.9740E 00	-.4045E-03	.2978E-02	.4546E 02	.1635E 02
85	.5804E-03	-.7452E 01	-.7155F 01	-.7704E-03	-.4195E-02	.4823E 02	.1734E 02
90	.5131E-03	-.7575E 01	-.5216E 00	-.1635E-03	.6956E-02	.5459E 02	.1961E 02
95	.4988E-03	-.7603E 01	.1998E 00	.5887E-04	.2548E-02	.5611E 02	.2017E 02
100	.5040E-03	-.7593F 01	-.3359E 00	-.9388E-04	-.1750E-02	.5553E 02	.1997E 02
105	.4958E-03	-.7609E 01	-.1405E 00	-.3700E-04	.6518E-03	.5645E 02	.2030E 02
110	.4926E-03	-.7616E 01	-.8503E 00	-.2094E-03	-.1975E-02	.5682E 02	.2043E 02
115	.4743E-03	-.7654E 01	.1533E 00	.3557E-04	.2807E-02	.5901E 02	.2122E 02
120	.4776E-03	-.7647E 01	.6521E 00	.1476E-03	.1284E-02	.5863E 02	.2108E 02
125	.4903E-03	-.7621E 01	.2252E 01	.5187E-03	.4253E-02	.5709E 02	.2053E 02
130	.5355E-03	-.7532E 01	.3183E 01	.7834E-03	.3033E-02	.5276E 02	.1879E 02
135	.6039E-03	-.7412E 01	.5417E 00	.1377E-03	-.7399E-02	.4635F 02	.1666E 02
140	.6159F-03	-.7392E 01	.1704E 01	.4349E-03	.3407E-02	.4544E 02	.1634E 02
145	.6539E-03	-.7333E 01	.1764E 01	.4618E-03	.3072E-03	.4280E 02	.1539E 02
150	.6942E-03	-.7273E 01	.1824E 01	.4902E-03	.3261E-03	.4032E 02	.1450E 02
155	.7369F-03	-.7213E 01	.1884E 01	.5204E-03	.3462E-03	.3798E 02	.1366E 02
160	.7824E-03	-.7153F 01	.1943F 01	.5525E-03	.3675E-03	.3577E 02	.1286E 02
165	.8306E-03	-.7093E 01	.2003E 01	.5865E-03	.3902E-03	.3370E 02	.1212E 02
170	.8818E-03	-.7034E 01	.2063E 01	.6227E-03	.4142E-03	.3174E 02	.1141E 02
175	.9361E-03	-.6974F 01	.2123E 01	.6611E-03	.4397E-03	.2990E 02	.1075E 02
180	.9938F-03	-.6914E 01	.0000F 00	.0000E 00	.0000E 00	.2816E 02	.1013E 02

SCAT= .2799E-01 30/45= .2727E 01 45/135= .3794E 01 SCAT30-130= .1006E-01

CH42/201 30164 1015H ST613 9-800M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.7654E-01	-.2570E 01	-.1570E 00	-.4024E 00	.0000F 00	.2248E 00	.8172E-01
5	.4149E-01	-.3184E 01	-.8267E 00	-.2070E 00	.2298E 01	.4154E 00	.1510E 00
10	.2936E-01	-.3757E 01	-.1312E 01	-.1104E 00	.1107F 01	.7307E 00	.2678F 00
15	.1972E-01	-.4209E 01	-.1709E 01	-.6401E-01	.5664E 00	.1294E 01	.4559E 00
20	.8398E-02	-.4780E 01	-.2018F 01	-.3687E-01	.2995F 00	.2050F 01	.7451F 00
25	.5562E-02	-.5230E 01	-.2256E 01	-.2063E-01	.1692F 00	.3215F 01	.1149E 01
30	.3551E-02	-.5640E 01	-.2777E 01	-.1415E-01	.7427E-01	.4848E 01	.1761F 01
35	.2526F-02	-.6008E 01	-.2008F 01	-.6459E-02	.8816E-01	.7430E 01	.2701E 01
40	.1753E-02	-.6347E 01	-.2338E 01	-.4834E-02	.1862F-01	.9819E 01	.3569F 01
45	.1351E-02	-.6622E 01	-.2740E 01	-.3797E-02	.1189E-04	.1293E 02	.4701E 01
50	.9994E-03	-.6900E 01	-.2130E 01	-.2104E-02	.1959E-01	.1722E 02	.6259F 01
55	.8150E-03	-.7111E 01	-.1801E 01	-.1356F-02	.8575E-02	.2109E 02	.7668E 01
60	.6974E-03	-.7268E 01	-.2537E 01	-.1469E-02	-.1292F-02	.2467E 02	.8969E 01
65	.5699E-03	-.7471E 01	-.1474E 01	-.6749E-03	.9096E-02	.3028E 02	.1099E 02
70	.5104E-03	-.7580E 01	-.2068E 01	-.7775E-03	-.1175E-02	.3372E 02	.1226F 02
75	.4420E-03	-.7723E 01	-.1746E 01	-.5403E-03	.2718E-02	.3899E 02	.1414F 02
80	.3954E-03	-.7836E 01	-.9681F 00	-.2583E-03	.3297E-02	.4353F 02	.1587F 02
85	.3720E-03	-.7896E 01	-.7371E 00	-.1762E-03	.9397E-03	.4616E 02	.1679E 02
90	.3674E-03	-.7937E 01	-.1286E 00	-.2837E-04	.1695E-02	.4814E 02	.1750E 02
95	.3660E-03	-.7943E 01	.8041E 00	.1713E-03	.2208E-02	.4848E 02	.1762E 02
100	.3690E-03	-.7902E 01	.1383E 00	.2807E-04	-.1641F-02	.4652E 02	.1691F 02
105	.3724F-03	-.7880E 01	.2109E 00	.4967E-04	.1780F-03	.4621E 02	.1680E 02
110	.3762E-03	-.7885E 01	.3086E-02	.7447E-04	-.4919E-03	.4575E 02	.1663E 02
115	.3762E-03	-.7885E 01	.5229E 00	.9692E-04	.1102E-02	.4574E 02	.1663F 02
120	.3847E-03	-.7863E 01	.8680E 00	.1586E-03	.7068F-03	.4473E 02	.1676F 02
125	.3986E-03	-.7820E 01	.1665E 01	.3081E-03	.1713E-02	.4318E 02	.1570E 02
130	.4254E-03	-.7762E 01	.2756E 01	.6343E-03	.2597E-02	.4046E 02	.1470F 02
135	.4720E-03	-.7650E 01	.7348F 00	.1464F-03	-.4445E-02	.3645E 02	.1325F 02
140	.4848E-03	-.7632E 01	.1379E 01	.3160E-03	.1951F-02	.3549E 02	.1290F 02
145	.5126F-03	-.7576E 01	.1639F 01	.3347E-03	.2068F-03	.3358E 02	.1221F 02
150	.5427E-03	-.7521E 01	.1690E 01	.3537E-03	.2106E-03	.3177E 02	.1155F 02
155	.5726E-03	-.7469E 01	.1746E 01	.3739E-03	.2310E-03	.3006E 02	.1093F 02
160	.6052E-03	-.7410E 01	.1801E 01	.3952E-03	.2442E-03	.2844E 02	.1034F 02
165	.6386E-03	-.7355E 01	.1857E 01	.4177E-03	.2581E-03	.2690E 02	.9779E 01
170	.6741E-03	-.7299E 01	.1912E 01	.4415E-03	.2728E-03	.2546E 02	.9252F 01
175	.7146E-03	-.7244E 01	.1967E 01	.4667E-03	.2884E-03	.2408E 02	.8753F 01
180	.7564E-03	-.7188E 01	.0000E 00	.0000E 00	.0000F 00	.2278F 02	.8281F 01

SCAT= .1721E-01 30/45= .2869E 01 45/135= .2819E 01 SCAT30-130= .6255F-02

CH42/202 30164 1030H ST613 H2O

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2177E 00	-.1625E 01	-.1931E 00	-.1322E 01	.0000F 00	.1370E 00	.7864E-01
5	.1029E 00	-.2280E 01	-.1007E 01	-.5891F 00	.8402E 01	.2915E 00	.8723F-01
10	.5088E-01	-.2978E 01	-.1582E 01	-.2760E 00	.3587E 01	.5861E 00	.1653F 00
15	.2699F-01	-.3620E 01	-.2037F 01	-.1359E 00	.1606F 01	.1113E 01	.3169F 00
20	.1493E-01	-.4204F 01	-.2364F 01	-.7016F-01	.7592F 00	.1997E 01	.5632F 00
25	.8815E-02	-.4732E 01	-.2626E 01	-.3842F-01	.3696F 00	.3384E 01	.9544F 00
30	.5460E-02	-.5210E 01	-.2868E 01	-.2236F-01	.1841F 00	.5462F 01	.1541F 01
35	.3600F-02	-.5652E 01	-.2608E 01	-.1172E-01	.1207F 00	.8499F 01	.2397F 01
40	.2477E-02	-.6001F 01	-.2409F 01	-.7013F-02	.5513F-01	.1204F 02	.3396F 01
45	.1866E-02	-.6289E 01	-.2629E 01	-.5171F-02	.2111E-01	.1599E 02	.4510F 01
50	.1414E-02	-.6562E 01	-.2609E 01	-.3567E-02	.1828F-01	.2109E 02	.5949F 01
55	.1102F-02	-.6810E 01	-.2081E 01	-.2065E-02	.1721F-01	.2706E 02	.7629F 01
60	.9223E-03	-.6989E 01	-.2661F 01	-.2028E-02	.4221F-03	.3233F 02	.9119F 01
65	.7459E-03	-.7202E 01	-.2262E 01	-.1818E-02	.8131E-02	.4001F 02	.1128E 02
70	.6909E-03	-.7369E 01	-.1981E 01	-.9097E-03	.4682F-02	.4731F 02	.1335F 02
75	.5600E-03	-.7504E 01	-.1339E 01	-.5218E-03	.4445F-02	.5413F 02	.1527F 02
80	.5094E-03	-.7590F 01	-.1136F 01	-.3856F-03	.1667F-02	.5901F 02	.1664F 02
85	.4717E-03	-.7659F 01	-.1916F 01	-.3917F-03	-.6982F-04	.6322E 02	.1783F 02
90	.4375E-03	-.7734F 01	-.5115E 00	-.1368F-03	.2921F-02	.6816F 02	.1922F 02
95	.4258E-03	-.7762F 01	.5680E 00	.1447E-03	.3219E-02	.7007E 02	.1976F 02
100	.4382F-03	-.7733E 01	.3408F 00	.8419E-04	-.6876E-03	.6806F 02	.1919F 02
105	.4459E-03	-.7716E 01	.3210F 00	.7681E-04	-.8446F-04	.6693E 02	.1888E 02
110	.4522E-03	-.7701E 01	-.7961F-01	-.1810F-04	-.1090F-02	.6594F 02	.1860F 02
115	.4806E-03	-.7709E 01	.1724E 01	.3931E-03	.4715E-02	.6618E 02	.1866E 02
120	.4860E-03	-.7631E 01	-.9225F-01	-.2089F-04	-.4744F-02	.6149F 02	.1734E 02
125	.4852E-03	-.7635E 01	.1568F 01	.3648F-03	.4238E-02	.6173E 02	.1741F 02
130	.5130E-03	-.7574F 01	.3440E 01	.8160F-03	.5352F-02	.5807F 02	.1638F 02
135	.5840E-03	-.7444E 01	.5816E 00	.1433F-03	-.7709F-02	.5100F 02	.1438E 02
140	.5973E-03	-.7423E 01	.1648F 01	.4075E-03	.3029E-02	.4993F 02	.1408E 02
145	.6329F-03	-.7365E 01	.1706E 01	.4318F-03	.2781E-03	.4712F 02	.1329F 02
150	.6705E-03	-.7307E 01	.1764F 01	.4575F-03	.2946E-03	.4447E 02	.1254F 02
155	.7105E-03	-.7250F 01	.1822E 01	.4848F-03	.3122F-03	.4197E 02	.1184F 02
160	.7528F-03	-.7192F 01	.1880E 01	.5136F-03	.3308F-03	.3982E 02	.1117F 02
165	.7976E-03	-.7134E 01	.1937F 01	.5442E-03	.3505F-03	.3739F 02	.1055F 02
170	.8461E-03	-.7076E 01	.1995E 01	.5766F-03	.3713F-03	.3529E 02	.9953F 01
175	.8954E-03	-.7018E 01	.2053E 01	.6110F-03	.3934F-03	.3331E 02	.9393F 01
180	.9481E-03	-.6960E 01	.0000F 00	.0000F 00	.0000F 00	.3143F 02	.8866F 01

SCAT= .2982E-01 30/45= .2428E 01 45/135= .3189E 01 SCAT30-130= .8511E-02

CH42/203 30164 1050H ST613 8-600M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1381E 00	-.1980E 01	-.1684E 00	-.7633E 00	.0000F 00	.1853E 00	.6077E-01
5	.7145E-01	-.2639E 01	-.8862E 00	-.3755E 00	.4449E 01	.3580E 00	.1174F 00
10	.3868E-01	-.3252E 01	-.1402E 01	-.1922E 00	.2100E 01	.6613E 00	.2169F 00
15	.2108E-01	-.3802E 01	-.1814E 01	-.1023F 00	.1090E 01	.1168E 01	.3879E 00
20	.1298F-01	-.4344E 01	-.2143E 01	-.5655E-01	.5249E 00	.1970E 01	.6462F 00
25	.8040E-02	-.4822E 01	-.2459E 01	-.3333E-01	.2661E 00	.3178E 01	.1042F 01
30	.5141E-02	-.5271E 01	-.2732E 01	-.2025E-01	.1498E 00	.4976E 01	.1632F 01
35	.3574E-02	-.5692E 01	-.2334E 01	-.1035E-01	.1134F 00	.7583E 01	.2487E 01
40	.2470E-02	-.6003E 01	-.2625E 01	-.7528E-02	.3294E-01	.1036E 02	.3396F 01
45	.1815E-02	-.6313E 01	-.2524E 01	-.4847E-02	.3072E-01	.1411E 02	.4627F 01
50	.1398E-02	-.6570E 01	-.2372E 01	-.3224E-02	.1859F-01	.1840F 02	.6034E 01
55	.1109E-02	-.6804E 01	-.2107E 01	-.2129E-02	.1255E-01	.2307E 02	.7565F 01
60	.9232E-03	-.6988E 01	-.2106E 01	-.1641F-02	.5596E-02	.2771E 02	.9087F 01
65	.7808E-03	-.7150E 01	-.2469E 01	-.1495E-02	.1677E-02	.3280E 02	.1076E 02
70	.6498E-03	-.7339E 01	-.2034E 01	-.9748F-03	.5956E-02	.3938E 02	.1291E 02
75	.5648E-03	-.7479E 01	-.1669E 01	-.6607E-03	.3600E-02	.4531E 02	.1486F 02
80	.5069E-03	-.7587E 01	-.9493E 00	-.3249E-03	.3848E-02	.5047E 02	.1655F 02
85	.4788E-03	-.7649E 01	-.6451E 00	-.1985E-03	.1448E-02	.5346E 02	.1753F 02
90	.4612E-03	-.7682E 01	-.1000F 01	-.2782F-03	-.9128F-03	.5547E 02	.1819E 02
95	.4509E-03	-.7736E 01	.5853E 00	.1626E-03	.4936E-02	.5856E 02	.1920E 02
100	.4609E-03	-.7708E 01	.4068E 00	.1550F-03	.2802E-04	.5682F 02	.1863F 02
105	.4690E-03	-.7670E 01	-.3510E 00	-.8121E-04	-.2707E-02	.5516E 02	.1809F 02
110	.4567E-03	-.7691E 01	.5079E 00	.1195E-03	.2300E-02	.5601E 02	.1837E 02
115	.4671E-03	-.7669F 01	.1145E 00	.2615F-04	-.1070E-02	.5476E 02	.1796F 02
120	.4694E-03	-.7664E 01	.1372F 01	.2983F-03	.3119E-02	.5450E 02	.1787F 02
125	.4994E-03	-.7610E 01	.1374E 01	.3142E-03	.1827E-03	.5163E 02	.1693E 02
130	.5220E-03	-.7556E 01	.2378E 01	.5676E-03	.2846E-02	.4893E 02	.1605E 02
135	.5720E-03	-.7466E 01	.7834E 00	.1894F-03	-.4276E-02	.4473E 02	.1467E 02
140	.5885E-03	-.7438E 01	.1461E 01	.3548E-03	.1895E-02	.4347E 02	.1426F 02
145	.6196E-03	-.7387E 01	.1512E 01	.3734E-03	.2139E-03	.4130E 02	.1354E 02
150	.6520E-03	-.7335E 01	.1564F 01	.3931E-03	.2251E-03	.3923E 02	.1287E 02
155	.6869E-03	-.7284E 01	.1616F 01	.4137E-03	.2370E-03	.3727F 02	.1222F 02
160	.7224E-03	-.7233F 01	.1666F 01	.4355F-03	.2494E-03	.3541F 02	.1161F 02
165	.7604E-03	-.7182F 01	.1717E 01	.4584E-03	.2625E-03	.3364E 02	.1103E 02
170	.8006E-03	-.7130E 01	.1769E 01	.4825E-03	.2763F-03	.3196F 02	.1048F 02
175	.8426E-03	-.7079E 01	.1820E 01	.5079E-03	.2909E-03	.3036E 02	.9957F 01
180	.8869E-03	-.7028E 01	.0000F 00	.0000E 00	.0000E 00	.2884E 02	.9460F 01

SCAT= .2558E-01 30/45= .2835E 01 45/135= .3170E 01 SCAT30-130= .8390F-02

CH42/204 30164 1410HST414 32 4.5M 65 20.3M PIPE SURF

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3690E 00	-.9969E 00	-.1961E 00	-.2264E 01	.0000E 00	.1218E 00	.2996F-01
5	.1714E 00	-.1764E 01	-.1028E 01	-.1001E 01	.1448E 02	.2622E 00	.6450F-01
10	.8405E-01	-.2474E 01	-.1624E 01	-.4645E 00	.8147E 01	.5346F 00	.1315F 00
15	.4551E-01	-.3113E 01	-.2100E 01	-.2261E 00	.2732E 01	.1033F 01	.2541F 00
20	.2378E-01	-.3739E 01	-.2464E 01	-.1153E 00	.1270F 01	.1889E 01	.4649F 00
25	.1372E-01	-.4289E 01	-.2828E 01	-.6326E-01	.5860F 00	.3275F 01	.8056F 00
30	.8202E-02	-.4803E 01	-.2967F 01	-.3450E-01	.3298E 00	.5478E 01	.1348F 01
35	.5192E-02	-.5261E 01	-.2744F 01	-.1829E-01	.1862E 00	.8656F 01	.2130F 01
40	.3699E-02	-.5627E 01	-.3135E 01	-.1273E-01	.6326E-01	.1249E 02	.3072F 01
45	.2488E-02	-.5998E 01	-.2547F 01	-.6708E-02	.6902E-01	.1806F 02	.4444E 01
50	.1902E-02	-.6265E 01	-.2312E 01	-.4310E-02	.2740F-01	.2362F 02	.5812F 01
55	.1526E-02	-.6485E 01	-.2238E 01	-.3094E-02	.1394E-01	.2945E 02	.7245F 01
60	.1256E-02	-.6680E 01	-.2553E 01	-.2661E-02	.4962E-02	.3578E 02	.8807F 01
65	.1034E-02	-.6884E 01	-.2418E 01	-.1924E-02	.8456E-02	.4389E 02	.1080F 02
70	.8550E-03	-.7061E 01	-.2844E 01	-.1635E-02	.3312E-02	.5250F 02	.1292F 02
75	.7252E-03	-.7249E 01	-.2349F 01	-.1149E-02	.5579F-02	.6401F 02	.1550E 02
80	.6250E-03	-.7397E 01	-.1697F 01	-.6868E-03	.5297F-02	.7311E 02	.1804F 02
85	.5590E-03	-.7500E 01	-.1302F 01	-.4546E-03	.2660E-02	.8126F 02	.1999F 02
90	.5133E-03	-.7575F 01	-.9819E 00	-.3042E-03	.1724F-02	.8754E 02	.2154F 02
95	.4888E-03	-.7620E 01	-.1024E 01	-.2859E-03	.2139E-03	.9231F 02	.2271E 02
100	.4619E-03	-.7680E 01	.1640E 00	.4251E-04	.3759E-02	.9724E 02	.2394E 02
105	.4656E-03	-.7672E 01	.1031F 01	.2621E-03	.2616F-02	.9651F 02	.2375F 02
110	.4886E-03	-.7624E 01	-.5958E 00	-.1463E-03	-.4679F-02	.9200F 02	.2263F 02
115	.4757E-03	-.7651E 01	-.2301E 00	-.5513F-04	.1068F-02	.9446E 02	.2324F 02
120	.4712E-03	-.7661E 01	.1322E 01	.2494F-03	.4040F-02	.9539E 02	.2347F 02
125	.4973E-03	-.7607E 01	.1305E 01	.2992E-03	-.2508E-03	.9038F 02	.2224F 02
130	.5295E-03	-.7555E 01	.1827E 01	.4251E-03	.1477E-02	.8587E 02	.2113F 02
135	.5687E-03	-.7480E 01	.7143F 00	.1691E-03	-.2968E-02	.8015E 02	.1972F 02
140	.5784E-03	-.7460E 01	.1236E 01	.2923E-03	.1412E-02	.7809E 02	.1921E 02
145	.6008E-03	-.7417E 01	.1279E 01	.3052E-03	.1485E-03	.7478E 02	.1840E 02
150	.6276E-03	-.7374E 01	.1323E 01	.3188F-03	.1550E-03	.7161E 02	.1762F 02
155	.6554E-03	-.7330E 01	.1366E 01	.3329E-03	.1619E-03	.6857E 02	.1687F 02
160	.6844F-03	-.7287E 01	.1409E 01	.3477E-03	.1691E-03	.6566F 02	.1615F 02
165	.7148E-03	-.7244E 01	.1453E 01	.3631E-03	.1766E-03	.6287E 02	.1547F 02
170	.7465E-03	-.7200E 01	.1496F 01	.3792E-03	.1844E-03	.6020E 02	.1481F 02
175	.7795E-03	-.7157E 01	.1540E 01	.3960E-03	.1926F-03	.5765E 02	.1418F 02
180	.8141E-03	-.7113E 01	.0000F 00	.0000E 00	.0000E 00	.55[illegible] 02	.1358F 02

SCAT= .4494E-01 30/45= .3297E 01 45/135= .4437E 01 SCAT30-130= .1106F-01

CH42/206 30164 1446H ST614 1-SURFACE

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.6191E 00	-.4796E 00	-.2115F 00	-.3593F 01	.0000F 00	.1050E 00	.2450F-01
5	.2707E 00	-.1307E 01	-.1100F 01	-.1655F 01	.2679F 02	.2402E 00	.5605F-01
10	.1262E 00	-.2070F 01	-.1722F 01	-.7269F 00	.1064E 02	.5151F 00	.1202F 00
15	.6279E-01	-.2768F 01	-.2202E 01	-.3377E 00	.4459E 01	.1036E 01	.2416F 00
20	.3332E-01	-.3402F 01	-.2550E 01	-.1657F 00	.1971F 01	.1951F 01	.4552F 00
25	.1886E-01	-.3971E 01	-.2861E 01	-.8785E-01	.8920F 00	.3447E 01	.8042F 00
30	.1120E-01	-.4492E 01	-.3045F 01	-.4808F-01	.4559E 00	.5807E 01	.1355F 01
35	.7009F-02	-.4961E 01	-.2710F 01	-.2436E-01	.2716F 00	.9284F 01	.2166F 01
40	.4877E-02	-.5323E 01	-.2604F 01	-.1476F-01	.1100F 00	.1333F 02	.3110F 01
45	.3600E-02	-.5630E 01	-.2904E 01	-.9901E-02	.5684F-01	.1812F 02	.4227F 01
50	.2739E-02	-.5902E 01	-.2358F 01	-.6305E-02	.4006E-01	.2379F 02	.5550F 01
55	.2189E-02	-.6127E 01	-.2812E 01	-.5431E-02	.1002E-01	.2978E 02	.6948F 01
60	.1708E-02	-.6372E 01	-.2439E 01	-.3674E-02	.2242F-01	.3804E 02	.8875F 01
65	.1400E-02	-.6567E 01	-.2536E 01	-.2780E-02	.8177E-02	.4624F 02	.1079F 02
70	.1165E-02	-.6755E 01	-.2270E 01	-.1935F-02	.9454F-02	.5580E 02	.1302E 02
75	.9904F-03	-.6911E 01	-.1739E 01	-.1211E-02	.8307E-02	.6575F 02	.1529F 02
80	.8907E-03	-.7023E 01	-.2525F 01	-.1449F-02	-.2732F-02	.7299E 02	.1703F 02
85	.7649E-03	-.7177E 01	-.1148F 01	-.5562F-03	.1023F-01	.8507F 02	.1985F 02
90	.7158F-03	-.7242E 01	-.7945F 00	-.3279F-03	.2617E-02	.9084F 02	.2119F 02
95	.6871E-03	-.7283E 01	-.1020E 01	-.6280E-03	-.3489F-02	.9462E 02	.2208F 02
100	.6329E-03	-.7360E 01	-.7234E 00	-.2513F-03	.4317F-02	.1028F 03	.2398F 02
105	.6104E-03	-.7401E 01	-.9048F 00	-.2883F-03	-.4242E-03	.1066F 03	.2486F 02
110	.5853E-03	-.7443E 01	.3893E 00	.1171E-03	.4645E-02	.1111E 03	.2592F 02
115	.5958E-03	-.7420E 01	-.1710F 00	-.4947E-04	-.1908F-02	.1092E 03	.2548F 02
120	.5922F-03	-.7433E 01	.1048E 01	.2960F-03	.3599F-02	.1100F 03	.2566F 02
125	.6270E-03	-.7391E 01	.9680E 00	.2736F-03	-.2569F-03	.1054E 03	.2459F 02
130	.6409F-03	-.7353E 01	.1346E 01	.3827F-03	.1250F-02	.1015E 03	.2367F 02
135	.6749E-03	-.7302E 01	.5770E 00	.1638E-03	-.2500F-02	.9643E 02	.2250F 02
140	.6886E-03	-.7281E 01	.9381E 00	.2641E-03	.1149F-02	.9443F 02	.2203F 02
145	.7216E-03	-.7240E 01	.9710F 00	.2779F-03	.1053F-03	.9137F 02	.2132F 02
150	.7354E-03	-.7215E 01	.1004F 01	.2820E-03	.1047E-03	.8841F 02	.2063F 02
155	.7608E-03	-.7182F 01	.1037F 01	.2915E-03	.1082E-03	.8556F 02	.1996F 02
160	.7855E-03	-.7149E 01	.1070E 01	.3012F-03	.1118F-03	.8278E 02	.1931F 02
165	.8127E-03	-.7116E 01	.1103F 01	.3113E-03	.1155E-03	.8010E 02	.1869F 02
170	.8389E-03	-.7083F 01	.1136F 01	.3217F-03	.1194F-03	.7750E 02	.1808F 02
175	.8670E-03	-.7050F 01	.1169F 01	.3325E-03	.1234F-03	.7499E 02	.1750F 02
180	.8960F-03	-.7018F 01	.0000E 00	.0000F 00	.0000F 00	.7256E 02	.1693F 02

SCAT= .6502E-01 30/45= .7120E 01 45/135= .5323F 01 SCAT30-130= .1517F-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.4897E 00	-.7141E 00	-.1916E 00	-.2959E 01	.0000E 00	.1282E 00	.3290E-01
5	.2515E 00	-.1403E 01	-.1004E 01	-.1330E 01	.1866E 02	.2711E 00	.6961E-01
10	.1154E 00	-.2160E 01	-.1586E 01	-.6271E 00	.8056E 01	.5439E 00	.1396E 00
15	.6005E-01	-.2803E 01	-.2050E 01	-.3097E 00	.3697E 01	.1035E 01	.2656E 00
20	.3363E-01	-.3392E 01	-.2405E 01	-.1600E 00	.1715E 01	.1866E 01	.4791E 00
25	.1966E-01	-.3929E 01	-.2738E 01	-.8852E-01	.8196E 00	.3192E 01	.8195E 00
30	.1193E-01	-.4428E 01	-.2748E 01	-.4723E-01	.4732E 00	.5258E 01	.1350E 01
35	.7815E-02	-.4852E 01	-.2818E 01	-.2807E-01	.2195E 00	.8032E 01	.2062E 01
40	.5389E-02	-.5228E 01	-.2919E 01	-.1788E-01	.1168E 00	.117CE 02	.3004E 01
45	.3803E-02	-.5572E 01	-.2412E 01	-.9774E-02	.9282E-01	.1650E 02	.4236E 01
50	.2960E-02	-.5828E 01	-.2752E 01	-.7798E-02	.2270E-01	.2128E 02	.5462E 01
55	.2269E-02	-.6088E 01	-.2727E 01	-.5493E-02	.2641E-01	.2746E 02	.7100E 01
60	.1790E-02	-.6326E 01	-.2359E 01	-.3529E-02	.2250E-01	.3508E 02	.9001E 01
65	.1482E-02	-.6514E 01	-.2418E 01	-.2786E-02	.8615E-02	.4236E 02	.1087E 02
70	.1259E-02	-.6694E 01	-.2846E 01	-.2531E-02	.2921E-02	.5066E 02	.1301E 02
75	.1010E-02	-.6890E 01	-.2035E 01	-.1436E-02	.1055E-01	.6105E 02	.1565E 02
80	.8828E-03	-.7021E 01	-.1998E 01	-.1167E-02	.3079E-02	.7031E 02	.1805E 02
85	.7907E-03	-.7143E 01	-.1811E 01	-.8909E-03	.3164E-02	.7936E 02	.2037E 02
90	.7190E-03	-.7240E 01	-.8130E 00	-.3513E-03	.6182E-02	.8802E 02	.2260E 02
95	.6828E-03	-.7298E 01	-.9065E 00	-.3552E-03	-.4484E-04	.9197E 02	.2361E 02
100	.6513E-03	-.7337E 01	-.3038E 00	-.1098E-03	.2812E-02	.9635E 02	.2474E 02
105	.6417E-03	-.7351E 01	-.8468E-01	-.2891E-04	.9278E-03	.9779E 02	.2511E 02
110	.6392E-03	-.7355E 01	-.1900E 01	-.5934E-03	-.6468E-02	.9817E 02	.2520E 02
115	.5874E-03	-.7440E 01	.1297E 01	.3871E-03	.1118E-01	.1008E 03	.2748E 02
120	.6208E-03	-.7389E 01	.6735E 00	.1983E-03	-.2106E-02	.1011E 03	.2595E 02
125	.6381E-03	-.7357E 01	.2469E 00	.7087E-04	-.1460E-02	.9835E 02	.2825E 02
130	.6442E-03	-.7347E 01	.1634E 01	.4696E-03	.4670E-02	.9740E 02	.2501E 02
135	.6062E-03	-.7280E 01	.7619E 00	.2206E-03	-.2054E-02	.9158E 02	.2351E 02
140	.7045E-03	-.7258E 01	.9835E 00	.2835E-03	.7204E-03	.8908E 02	.2287E 02
145	.7292E-03	-.7224E 01	.1018E 01	.2934E-03	.1141E-03	.8605E 02	.2209E 02
150	.7648E-03	-.7189E 01	.1053E 01	.3037E-03	.1181E-03	.8314E 02	.2134E 02
155	.7895E-03	-.7155E 01	.1007E 01	.3144E-03	.1292E-03	.8032E 02	.2062E 02
160	.8088E-03	-.7120E 01	.1122E 01	.3254E-03	.1268E-03	.7759E 02	.1992E 02
165	.8972E-03	-.7005E 01	.1156E 01	.3364E-03	.1310E-03	.7496E 02	.1924E 02
170	.8666E-03	-.7051E 01	.1191E 01	.3487E-03	.1356E-03	.7242E 02	.1859E 02
175	.8970E-03	-.7016E 01	.1225E 01	.3609E-03	.1403E-03	.6996E 02	.1796E 02
180	.9286E-03	-.6982E 01	.0000E 00	.0000E 00	.0000E 00	.6759E 02	.1735E 02

SCAT= .6275E-01 30/45= .3138E 01 45/135= .5550E 01 SCAT30-130= .1611E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	-.7820E 01	.1330E 01	.2847E-03	.1889E-04	.5607E 02	.1590E 02
160	.6862E-03	-.7288E 01	.1373E 01	.3387E-03	.1606E-03	.5279E 02	.1532E 02
165	[illegible]	[illegible]	.1415E 01	[illegible]	[illegible]	[illegible]	.1469E 02
170	.7468E-03	-.7201E 01	.1457E 01	.3686E-03	.1747E-03	.4851E 02	.1408E 02
175	.7770E-03	-.7159E 01	.1499E 01	.3845E-03	.1822E-04	.4651E 02	.1350E 02
180	.8125E-03	-.7117E 01	.0000E 00	.0000E 00	.0000E 00	.4450E 02	.1294E 02

SCAT= .9817E-01 30/45= .3144E 01 45/135= .4880E 01 SCAT30-130= .1050E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	-.1140E 00	[illegible]	[illegible]	.9471E 02	[illegible]
155	.8976E-03	-.7095E 01	-.1176E 00	-.3454E-04	.1428E-05	.9505E 02	.2974E 02
160	.8546E-03	-.7064E 01	-.1212E 00	-.3441E-04	.1445E-05	.9540E 02	.2984E 02
165	.8918E-03	-.7092E 01	-.1748E 00	-.3429E-04	.1425E-05	.9574E 02	.2995E 02
170	.8266E-03	-.7098E 01	-.1204E 00	-.3417E-04	.1413E-05	.9609E 02	.3006E 02
175	.8256E-03	-.7103E 01	.0000E 00	.0000E 00	.0000E 00	[illegible]	[illegible]
180	.8236E-03	-.7103E 01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SCAT= .7906E-01 30/45= .2842E 01 45/135= .6992E 01 SCAT30-130= .2473E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.4221E 00	-.8865E 00	-.2097E 00	-.2643E 01	.0000E 00	.1129E 00	.7829E-01
5	.1016E 00	-.1707E 01	-.1009E 01	-.1102E 01	.1765E 02	.2582E 00	.6411E-01
10	.8550E-01	-.2462E 01	-.1701E 01	-.4871E 00	.7047E 01	.5450E 00	.1364E 00
15	.4200E-01	-.3459E 01	-.2171E 01	-.2278E 00	.2971E 01	.1086E 01	.2710E 00
20	.2292E-01	-.3774E 01	-.2507E 01	-.1125E 00	.1321E 01	.2029E 01	.5074E 00
25	.1510E-01	-.4339E 01	-.2823E 01	-.6039E-01	.5973E 00	.3544E 01	.8881E 00
30	.7829E-02	-.4850E 01	-.2874E 01	-.3211E-01	.3841E 00	.5930E 01	.1486E 01
35	.5027E-02	-.5293E 01	-.2478E 01	-.1623E-01	.1819E 00	.9248E 01	.2314E 01
40	.3611E-02	-.5624E 01	-.3023E 01	-.1240E-01	.4393E-01	.1288E 02	.3227E 01
45	.2629E-02	-.5940E 01	-.1924E 01	-.6330E-02	.6098E-01	.1838E 02	.4600E 01
50	.2004E-02	-.6103E 01	-.3063E 01	-.5908E-02	-.7537E-02	.2253E 02	.5637E 01
55	.1541E-02	-.6475E 01	-.2336E 01	-.3240E-02	.3140E-04	.3016E 02	.7540E 01
60	.1268E-02	-.6670E 01	-.2328E 01	-.2451E-02	.9134E-02	.3696E 02	.9248E 01
65	.1044E-02	-.6865E 01	-.2256E 01	-.1842E-02	.6980E-02	.4493E 02	.1114E 02
70	.8835E-03	-.7032E 01	-.1834E 01	-.1203E-02	.7318E-02	.5243E 02	.1317E 02
75	.7705E-03	-.7190E 01	-.2029E 01	-.1095E-02	.1043E-02	.5973E 02	.1496E 02
80	.6829E-03	-.7289E 01	-.1137E 01	-.5211E-03	.8671E-02	.6609E 02	.1704E 02
85	.6575E-03	-.7350E 01	-.2006E 01	-.7910E-03	-.3091E-02	.7295E 02	.1826E 02
90	.5685E-03	-.7473E 01	.2482E 00	.8797E-04	.1C7E-01	.8181E 02	.2047E 02
95	.6706E-03	-.7460E 01	-.3647E 00	-.1223E-03	-.2410E-02	.8072E 02	.2620E 02
100	.5685E-03	-.7470E 01	.3501E 00	.1142E-03	.2710E-02	.8225E 02	.2058E 02
105	.5062E-03	-.7460E 01	.6946E 00	.1974E-03	-.4667E-02	.8082E 02	.2023E 02
110	.5426E-03	-.7431E 01	-.3261E 00	-.9770E-04	-.3309E-02	.7847E 02	.1964E 02
115	.5098E-03	-.7440E 01	.5100E 00	.1460E-03	.2002E-02	.7962E 02	.1992E 02
120	.5908E-03	-.7424E 01	.1091E 01	.3115E-03	.1807E-02	.7791E 02	.1950E 02
125	.6259E-03	-.7379E 01	.2413E 01	.7096E-03	.4662E-02	.7451E 02	.1865E 02
130	.6089E-03	-.7285E 01	.4034E 01	.1292E-02	.6677E-02	.6779E 02	.1696E 02
135	.7006E-03	-.7135E 01	.8308E 00	.2006E-03	-.1150E-01	.6022E 02	.1497E 02
140	.8292E-03	-.7102E 01	.2181E 01	.7501E-03	.5301E-02	.5648E 02	.1413E 02
145	.8806E-03	-.7020E 01	.2287E 01	.8098E-03	.8006E-03	.5232E 02	.1309E 02
150	.9602E-03	-.6949E 01	.2334E 01	.8742E-03	.7300E-03	.4847E 02	.1213E 02
155	.1050E-02	-.6879E 01	.2410E 01	.9437E-03	.7967E-03	.4490E 02	.1123E 02
160	.1120E-02	-.6790E 01	.2487E 01	.1019E-02	.8600E-03	.4159E 02	.1041E 02
165	.1209E-02	-.6720E 01	.2503E 01	.1100E-02	.9284E-03	.3853E 02	.9641E 01
170	.1908E-02	-.6649E 01	.2640E 01	.1187E-02	.1002E-02	.3569E 02	.8930E 01
175	.1406E-02	-.6567E 01	.2716E 01	.1282E-02	.1082E-02	.3306E 02	.8272E 01
180	.1618E-02	-.6490E 01	.0000E 00	.0000E 00	.0000E 00	.3062E 02	.7663E 01

SCAT= .4649E-01 30/45= .3096E 01 45/135= .3147E 01 SCAT30-130= .1161E-01

CH42/210 30164 1605H ST614 9-600M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1956E 00	-.1642E 01	-.1657E 00	-.1058E 01	.0000E 00	.1817E 00	.5700E-01
5	.1012E 00	-.2290E 01	-.8741E 00	-.5872E 00	.6006E 01	.3474E 00	.1090E 00
10	.5524E-01	-.2896E 01	-.1390E 01	-.2727E 00	.2916E 01	.6367E 00	.1998E 00
15	.3244E-01	-.3400E 01	-.1818E 01	-.1463E 00	.1448E 01	.1119E 01	.3510E 00
20	.1867E-01	-.3981E 01	-.2146E 01	-.8140E-01	.7441E 00	.1884E 01	.5911E 00
25	.1157E-01	-.4400E 01	-.2540E 01	-.4925E-01	.3688E 00	.3040E 01	.9541E 00
30	.7269E-02	-.4924E 01	-.2473E 01	-.2640E-01	.2618E 00	.4838E 01	.1518E 01
35	.4966E-02	-.5305E 01	-.2784E 01	-.1769E-01	.9977E-01	.7082E 01	.2223E 01
40	.3421E-02	-.5678E 01	-.2607E 01	-.1036E-01	.8399E-01	.1028E 02	.3226E 01
45	.2627E-02	-.5909E 01	-.1951E 01	-.6750E-02	.4142E-01	.1397E 02	.4386E 01
50	.1920E-02	-.6251E 01	-.2671E 01	-.4965E-02	.2046E-01	.1824E 02	.5725E 01
55	.1499E-02	-.6500E 01	-.2319E 01	-.3122E-02	.2112E-01	.2353E 02	.7384E 01
60	.1222E-02	-.6707E 01	-.2428E 01	-.2471E-02	.7466E-02	.2878E 02	.9031E 01
65	.1006E-02	-.6901E 01	-.2380E 01	-.1856E-02	.7044E-02	.3494E 02	.1097E 02
70	.8444E-03	-.7077E 01	-.1718E 01	-.1079E-02	.8906E-02	.4166E 02	.1307E 02
75	.7600E-03	-.7195E 01	-.2149E 01	-.1113E-02	-.3970E-02	.4687E 02	.1471E 02
80	.6531E-03	-.7334E 01	-.1764E 01	-.7600E-03	.4040E-02	.5384E 02	.1690E 02
85	.5000E-03	-.7441E 01	-.9000E 00	-.3221E-03	.5818E-02	.5995E 02	.1881E 02
90	.5587E-03	-.7490E 01	-.1712E 01	-.8660E-03	-.2795E-02	.6294E 02	.1975E 02
95	.5099E-03	-.7582E 01	.6750E 00	.2056E-03	.8842E-02	.6905E 02	.2167E 02
100	.5272E-03	-.7548E 01	-.1678E 00	-.4926E-04	-.2981E-02	.6670E 02	.2095E 02
105	.5200E-03	-.7554E 01	-.7770E 00	-.1060E-03	-.1057E-02	.6725E 02	.2110E 02
110	.5047E-03	-.7580E 01	-.2613E 00	-.6706E-04	.1361E-02	.6940E 02	.2178E 02
115	.5000E-03	-.7599E 01	.1348E 00	.3803E-04	.1147E-02	.7021E 02	.2203E 02
120	.5057E-03	-.7593E 01	.1526E 01	.3711E-03	.3873E-02	.6981E 02	.2191E 02
125	.5001E-03	-.7531E 01	.1271E 01	.3140E-03	-.6036E-02	.6559E 02	.2058E 02
130	.5050E-03	-.7461E 01	.3208E 01	.8815E-03	.6159E-02	.6240E 02	.1958E 02
135	.6070E-03	-.7391E 01	.8884E 00	.1840E-03	-.7044E-02	.5613E 02	.1760E 02
140	.6840E-03	-.7232E 01	.1697E 01	.4599E-03	.3152E-02	.5370E 02	.1680E 02
145	.6941E-03	-.7275E 01	.1789E 01	.4801E-03	.3294E-03	.5007E 02	.1580E 02
150	.7587E-03	-.7215E 01	.1816E 01	.5180E-03	.3432E-03	.4774E 02	.1498E 02
155	.7019E-03	-.7154E 01	.1870E 01	.5490E-03	.3648E-03	.4490E 02	.1411E 02
160	.8290E-03	-.7094E 01	.1939E 01	.5836E-03	.3866E-03	.4238E 02	.1330E 02
165	.8000E-03	-.7035E 01	.1990E 01	.6194E-03	.4100E-03	.3998E 02	.1255E 02
170	.9840E-03	-.6975E 01	.2085E 01	.6574E-03	.4355E-03	.3762E 02	.1180E 02
175	.9022E-03	-.6916E 01	.2114E 01	.6977E-03	.4672E-03	.3544E 02	.1112E 02
180	.1060E-02	-.6858E 01	.0000E 00	.0000E 00	.0000E 00	.3339E 02	.1040E 02

SCAT= .9917E-01 30/45= .2080E 01 45/135= .3946E 01 SCAT30-130= .1104E-01

CH42/211 30164 1620H ST614 10-1000M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.8660E-01	-.2446E 01	-.1433E 00	-.4261E 00	.0000E 00	.7698E 00	.1050E 00
5	.4040E-01	-.3000E 01	-.7507E 00	-.2319E 00	.2226E 01	.4723E 00	.1840E 00
10	.2924E-01	-.3532E 01	-.1212E 01	-.1301E 00	.1167E 01	.7990E 00	.3112E 00
15	.1700E-01	-.4023E 01	-.1507E 01	-.7616E-01	.8292E 00	.1306E 01	.5087E 00
20	.1159E-01	-.4480E 01	-.1891E 01	-.4471E-01	.3490E 00	.2062E 01	.8031E 00
25	.7451E-02	-.4902E 01	-.2260E 01	-.2876E-01	.1828E 00	.3144E 01	.1228E 01
30	.4821E-02	-.5314E 01	-.2147E 01	-.1589E-01	.1474E 00	.4748E 01	.1849E 01
35	.3504E-02	-.5649E 01	-.2631E 01	-.1200E-01	.4442E-01	.6611E 01	.2575E 01
40	.2487E-02	-.5997E 01	-.2305E 01	-.6777E-02	.5985E-01	.9394E 01	.3659E 01
45	.1804E-02	-.6260E 01	-.2377E 01	-.4814E-02	.2849E-01	.1232E 02	.4801E 01
50	.1476E-02	-.6519E 01	-.2319E 01	-.3354E-02	.1673E-01	.1583E 02	.6167E 01
55	.1200E-02	-.6740E 01	-.1988E 01	-.2153E-02	.1376E-01	.1975E 02	.7693E 01
60	.9962E-03	-.6813E 01	-.2329E 01	-.1936E-02	.2487E-02	.2348E 02	.9146E 01
65	.8202E-03	-.7099E 01	-.1661E 01	-.1090E-02	.9693E-02	.2828E 02	.1102E 02
70	.7970E-03	-.7221E 01	-.1831E 01	-.9941E-03	.1103E-02	.3196E 02	.1245E 02
75	.6440E-03	-.7347E 01	-.9900E 00	-.4341E-03	.6417E-02	.3627E 02	.1413E 02
80	.6004E-03	-.7400E 01	-.1933E 01	-.7682E-03	-.3029E-02	.3853E 02	.1501E 02
85	.5504E-03	-.7629E 01	-.7702E-01	-.2715E-04	.8492E-02	.4332E 02	.1688E 02
90	.5970E-03	-.7530E 01	-.3390E 00	-.1121E-03	-.9730E-03	.4351E 02	.1695E 02
95	.6272E-03	-.7640E 01	.9700E-01	.3016E-04	.1640E-02	.4432E 02	.1726E 02
100	.5790E-03	-.7543E 01	.2769E 00	.8258E-04	.6007E-03	.4410E 02	.1718E 02
105	.5870E-03	-.7520E 01	.1463E 00	.6616E-04	-.3028E-03	.4351E 02	.1695E 02
110	.5419E-03	-.7520E 01	-.8654E-01	-.2385E-04	-.9168E-03	.4312E 02	.1679E 02
115	.5509E-03	-.7524E 01	.2012E 00	.5320E-04	.8029E-03	.4320E 02	.1686E 02
120	.5646E-03	-.7516E 01	.1066E 01	.2774E-03	.2670E-02	.4291E 02	.1672E 02
125	.5857E-03	-.7472E 01	.1008E 01	.4790E-03	.2810E-02	.4160E 02	.1600E 02
130	.6205E-03	-.7401E 01	.2391E 01	.6606E-03	.7C81E-02	.3827E 02	.1491E 02
135	.6605E-03	-.7311E 01	.8170E 00	.2811E-03	-.4401E-02	.3449E 02	.1343E 02
140	.6985E-03	-.7281E 01	.1541E 01	.4383E-03	.2374E-02	.3395E 02	.1322E 02
145	.7206E-03	-.7227E 01	.1596E 01	.4626E-03	.2791E-03	.3216E 02	.1253E 02
150	.7670E-03	-.7173E 01	.1649E 01	.4883E-03	.2946E-03	.3047E 02	.1187E 02
155	.8006E-03	-.7119E 01	.1703E 01	.5159E-03	.3109E-03	.2886E 02	.1124E 02
160	.8546E-03	-.7049E 01	.1787E 01	.6441E-03	.3282E-03	.2734E 02	.1065E 02
165	.9000E-03	-.7011E 01	.1814E 01	.5749E-03	.3464E-03	.2590E 02	.1009E 02
170	.9632E-03	-.6857E 01	.1868E 01	.6063E-03	.3657E-03	.2454E 02	.9559E 01
175	.1000E-02	-.6903E 01	.1920E 01	.6399E-03	.3860E-03	.2325E 02	.9056E 01
180	.1081E-02	-.6849E 01	.0000E 00	.0000E 00	.0000E 00	.2202E 02	.8579E 01

SCAT= .2599E-01 30/45= .2596E 01 45/135= .2837E 01 SCAT30-130= .9102E-02

CH42/212 30164 1635H ST614 9-900M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2011E 00	-.1604E 01	-.1863E 00	-.1192E 01	.0000E 00	.1463E 00	.4265E-01
5	.9700E-01	-.2333E 01	-.9764E 00	-.5460E 00	.7597E 01	.3032E 00	.8838E-01
10	.4952E-01	-.3009E 01	-.1541E 01	-.2624E 00	.3256E 01	.5940E 00	.1739E 00
15	.2640E-01	-.3634E 01	-.1998E 01	-.1320E 00	.1497E 01	.1114E 01	.3249E 00
20	.1409E-01	-.4207E 01	-.2339E 01	-.6978E-01	.7182E 00	.1977E 01	.5762E 00
25	.8000E-02	-.4729E 01	-.2684E 01	-.3851E-01	.3826E 00	.3370E 01	.9702E 00
30	.5470E-02	-.5207E 01	-.2747E 01	-.2168E-01	.1929E 00	.5370E 01	.1565E 01
35	.3807E-02	-.5630E 01	-.2820E 01	-.1293E-01	.1002E 00	.8202E 01	.2391E 01
40	.2480E-02	-.6008E 01	-.2468E 01	-.7108E-02	.8672E-01	.1197E 02	.3488E 01
45	.1850E-02	-.6290E 01	-.2716E 01	-.4842E-02	.2138E-01	.1600E 02	.4665E 01
50	.1501E-02	-.6585E 01	-.2190E 01	-.2981E-02	.2891E-01	.2130E 02	.6210E 01
55	.1121E-02	-.6794E 01	-.2289E 01	-.2520E-02	.7677E-02	.2626E 02	.7651E 01
60	.9100E-03	-.6993E 01	-.1893E 01	-.1400E-02	.9624E-02	.3203E 02	.9337E 01
65	.7894E-03	-.7144E 01	-.2446E 01	-.1511E-02	-.3667E-03	.3727E 02	.1086E 02
70	.6575E-03	-.7327E 01	-.1718E 01	-.8473E-03	.7642E-02	.4474E 02	.1304E 02
75	.5040E-03	-.7440E 01	-.1957E 01	-.7065E-03	.4399E-03	.5037E 02	.1468E 02
80	.5154E-03	-.7571E 01	-.5136E 00	-.1811E-03	.8930E-02	.5708E 02	.1664E 02
85	.4996E-03	-.7602E 01	-.1147E 01	-.3633E-03	-.2088E-02	.5889E 02	.1717E 02
90	.4679E-03	-.7667E 01	-.4582E 00	-.1112E-03	.2660E-02	.6288E 02	.1833E 02
95	.4604E-03	-.7692E 01	.2137E-01	.5737E-05	.1849E-02	.6446E 02	.1879E 02
100	.4609E-03	-.7691E 01	-.1947E-01	-.4972E-05	-.1227E-03	.6439E 02	.1877E 02
105	.4600E-03	-.7690E 01	.4035E 00	.4013E-04	.2190E-02	.6449E 02	.1879E 02
110	.4652E-03	-.7673E 01	-.7366E 00	-.1722E-03	-.3109E-02	.6325E 02	.1844E 02
115	.4901E-03	-.7700E 01	.1280E 01	.2089E-03	.8203E-02	.5530E 02	.1905E 02
120	.4753E-03	-.7651E 01	.1392E 01	.3106E-03	.3405E-03	.6109E 02	.1804E 02
125	.5017E-03	-.7595E 01	.7800E 00	.1791E-03	-.1698E-02	.5847E 02	.1704E 02
130	.5188E-03	-.7564E 01	.1839E 01	.4273E-03	.2044E-02	.5671E 02	.1653E 02
135	.5661E-03	-.7400E 01	.1200E 01	.3056E-03	-.1394E-02	.5291E 02	.1542E 02
140	.5827E-03	-.7448E 01	.1453E 01	.3494E-03	.5010E-03	.5049E 02	.1472E 02
145	.6137E-03	-.7397E 01	.1504E 01	.3677E-03	.2098E-03	.4798E 02	.1399E 02
150	.6469E-03	-.7346E 01	.1558E 01	.3869E-03	.2208E-03	.4559E 02	.1329E 02
155	.6793E-03	-.7295E 01	.1606E 01	.4072E-03	.2320E-03	.4332E 02	.1263E 02
160	.7246E-03	-.7244E 01	.1657E 01	.4285E-03	.2441E-03	.4117E 02	.1200E 02
165	.7020E-03	-.7193E 01	.1708E 01	.4509E-03	.2569E-03	.3912E 02	.1140E 02
170	.7914E-03	-.7142E 01	.1759E 01	.4745E-03	.2704E-03	.3718E 02	.1084E 02
175	.8320E-03	-.7091E 01	.1810E 01	.4993E-03	.2849E-03	.3533E 02	.1030E 02
180	.8785E-03	-.7040E 01	.0000E 00	.0000E 00	.0000E 00	.3357E 02	.9786E 01

SCAT= .2942E-01 30/45= .2900E 01 45/135= .3706E 01 SCAT30-130= .8576E-02

CH42/218 30164 1680H ST614 4-210M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2509E 00	-.1432E 01	-.1600E 00	-.1319E 01	.0000E 00	.1743E 00	.5429E-01
5	.1129E 00	-.2180E 01	-.8043E 00	-.6604E 00	.7658E 01	.3368E 00	.1047E 00
10	.6710E-01	-.2702E 01	-.1403E 01	-.3336E 00	.3631E 01	.6208E 00	.1933E 00
15	.3990E-01	-.3220E 01	-.1824E 01	-.1977E 00	.1906E 01	.1096E 01	.3414E 00
20	.2248E-01	-.3795E 01	-.2154E 01	-.9830E-01	.9109E 00	.1853E 01	.5769E 00
25	.1900E-01	-.4276E 01	-.2460E 01	-.6739E-01	.4687E 00	.2996E 01	.9329E 00
30	.8800E-02	-.4722E 01	-.2738E 01	-.3609E-01	.2655E 00	.4683E 01	.1458E 01
35	.5099E-02	-.5144E 01	-.2472E 01	-.1079E-01	.1868E 00	.7142E 01	.2224E 01
40	.4199E-02	-.5474E 01	-.2564E 01	-.1253E-01	.7180E-01	.9938E 01	.3094E 01
45	.3090E-02	-.5777E 01	-.2660E 01	-.8746E-02	.4311E-01	.1344E 02	.4185E 01
50	.2938E-02	-.6060E 01	-.2427E 01	-.6824E-02	.3713E-01	.1784E 02	.5556E 01
55	.1852E-02	-.6291E 01	-.2629E 01	-.4341E-02	.1386E-01	.2249E 02	.7002E 01
60	.1474E-02	-.6520E 01	-.2569E 01	-.3127E-02	.1391E-01	.2827E 02	.8802E 01
65	.1202E-02	-.6729E 01	-.2379E 01	-.2224E-02	.1835E-01	.3469E 02	.1080E 02
70	.1007E-02	-.6901E 01	-.2002E 01	-.1408E-02	.8438E-02	.4138E 02	.1289E 02
75	.9097E-03	-.7039E 01	-.2330E 01	-.1407E-02	.9800E-03	.4791E 02	.1479E 02
80	.7540E-03	-.7190E 01	-.1906E 01	-.9427E-03	.5820E-02	.5825E 02	.1720E 02
85	.6729E-03	-.7304E 01	-.1312E 01	-.5561E-03	.4480E-02	.6202E 02	.1931E 02
90	.6252E-03	-.7381E 01	-.8629E 00	-.3255E-03	.2648E-02	.6685E 02	.2081E 02
95	.5947E-03	-.7427E 01	-.9620E 00	-.3281E-03	-.3014E-04	.7004E 02	.2181E 02
100	.5661E-03	-.7477E 01	-.5302E 00	-.1685E-03	.1810E-02	.7359E 02	.2291E 02
105	.5629E-03	-.7505E 01	-.2507E 00	-.7003E-04	.1004E-02	.7555E 02	.2352E 02
110	.5400E-03	-.7519E 01	-.7335E 00	-.2003E-03	-.1460E-02	.7644E 02	.2380E 02
115	.5290E-03	-.7547E 01	-.1900E 00	-.6092E-04	.1918E-02	.7897E 02	.2459E 02
120	.5250E-03	-.7556E 01	.6586E 00	.1620E-03	.2440E-02	.7964E 02	.2480E 02
125	.5972E-03	-.7529E 01	.1428E 01	.3526E-03	.2184E-02	.7759E 02	.2415E 02
130	.5800E-03	-.7473E 01	.5810E 00	.1443E-03	-.2387E-02	.7335E 02	.2284E 02
135	.6000E-03	-.7452E 01	.6409E 00	.1509E-03	.1670E-03	.7176E 02	.2234E 02
140	.5944E-03	-.7420E 01	.7809E 00	.1092E-03	.3401E-03	.7008E 02	.2182E 02
145	.6200E-03	-.7401E 01	.8083E 00	.1945E-03	.8024E-04	.6819E 02	.2123E 02
150	.6779E-03	-.7373E 01	.8357E 00	.1999E-03	.8192E-04	.6634E 02	.2066E 02
155	.6489E-03	-.7340E 01	.8631E 00	.2054E-03	.8369E-04	.6495E 02	.2010E 02
160	.6986E-03	-.7310E 01	.8906E 00	.2112E-03	.6641E-04	.6281E 02	.1956E 02
165	.6829E-03	-.7291E 01	.9179E 00	.2170E-03	.6700E-04	.6111E 02	.1900E 02
170	.7006E-03	-.7264E 01	.9453E 00	.2231E-03	.6409E-04	.5940E 02	.1851E 02
175	.7301E-03	-.7234E 01	.9727E 00	.2292E-03	.7101E-04	.5786E 02	.1801E 02
180	.7401E-03	-.7209E 01	.0000E 00	.0000E 00	.0000E 00	.5629E 02	.1753E 02

SCAT= .4166E-01 30/45= .2070E 01 45/135= .5330E 01 SCAT30-130= .1297E-01

CH42/224 30164 1710M ST614 3-100M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.4096E 00	-.9072E 00	-.7309E 00	-.2410E 01	.0000E 00	.1175E 00	.2909E-01
5	.1899E 00	-.1693E 01	-.1050E 01	-.1090E 01	.1636E 02	.2579E 00	.6382E-01
10	.8804E-01	-.2421E 01	-.1682E 01	-.4969E 00	.6794E 01	.5340E 00	.1321E 00
15	.4647E-01	-.3001E 01	-.2126E 01	-.2384E 00	.2962E 01	.1043E 01	.2582E 00
20	.2467E-01	-.3702E 01	-.2480E 01	-.1202E 00	.1388E 01	.1923E 01	.4750E 00
25	.1410E-01	-.4250E 01	-.2869E 01	-.6621E-01	.6192E 00	.3345E 01	.8277E 00
30	.8406E-02	-.4779E 01	-.2804E 01	-.3380E-01	.3713E 00	.5644E 01	.1397E 01
35	.5487E-02	-.5211E 01	-.2923E 01	-.2020E-01	.1650E 00	.8694E 01	.2152E 01
40	.3699E-02	-.5601E 01	-.2801E 01	-.1189E-01	.9524E-01	.1284E 02	.3179E 01
45	.2006E-02	-.5958E 01	-.2447E 01	-.6964E-02	.5047E-01	.1746E 02	.4421E 01
50	.2048E-02	-.6191E 01	-.2437E 01	-.4863E-02	.2408E-01	.2317E 02	.5733E 01
55	.1624E-02	-.6423E 01	-.2444E 01	-.3646E-02	.1407E-01	.2922E 02	.7231E 01
60	.1512E-02	-.6636E 01	-.2769E 01	-.2989E-02	.6011E-02	.3615E 02	.8946E 01
65	.1081E-02	-.6850E 01	-.1954E 01	-.1624E-02	.1564E-01	.4512E 02	.1117E 02
70	.9097E-03	-.7002E 01	-.2600E 01	-.1765E-02	-.1611E-02	.5215E 02	.1290E 02
75	.7607E-03	-.7100E 01	-.1748E 01	-.9810E-03	.9671E-02	.6270E 02	.1554E 02
80	.6765E-03	-.7300E 01	-.1499E 01	-.6720E-03	.2069E-02	.7025E 02	.1738E 02
85	.6107E-03	-.7391E 01	-.1844E 01	-.7870E-03	-.4007E-03	.7693E 02	.1904E 02
90	.5600E-03	-.7497E 01	-.4772E 00	-.1620E-03	.8246E-02	.8548E 02	.2115E 02
95	.5600E-03	-.7522E 01	-.1440E 00	-.4685E-04	.1391E-02	.8772E 02	.2171E 02
100	.5860E-03	-.7530E 01	-.4007E 00	-.1191E-03	-.8394E-03	.8837E 02	.2187E 02
105	.5806E-03	-.7544E 01	-.5770E 00	-.1594E-03	-.4660E-03	.9012E 02	.2230E 02
110	.5120E-03	-.7876E 01	-.2173E 00	-.5646E-04	.1188E-02	.9257E 02	.2291E 02
115	.5070E-03	-.7666E 01	.5115E 00	.1279E-03	.2119E-02	.9347E 02	.2319E 02
120	.5107E-03	-.7584E 01	.4141E 00	.1013E-03	-.3044E-03	.9140E 02	.2263E 02
125	.5276E-03	-.7547E 01	.1853E 01	.3046E-03	.2389E-02	.8992E 02	.2225E 02
130	.5642E-03	-.7490E 01	.2036E 01	.5073E-03	.2329E-02	.8501E 02	.2119E 02
135	.5904E-03	-.7421E 01	.4012E 00	.1236E-03	-.4297E-02	.7970E 02	.1962E 02
140	.6092E-03	-.7403E 01	.1127E 01	.2815E-03	.1909E-02	.7787E 02	.1927E 02
145	.6590E-03	-.7364E 01	.1160E 01	.2928E-03	.1301E-03	.7480E 02	.1852E 02
150	.6595E-03	-.7324E 01	.1208E 01	.3046E-03	.1353E-03	.7195E 02	.1781E 02
155	.6889E-03	-.7285E 01	.1245E 01	.3169E-03	.1400E-03	.6917E 02	.1712E 02
160	.7196E-03	-.7245E 01	.1286E 01	.3297E-03	.1465E-03	.6648E 02	.1645E 02
165	.7425E-03	-.7200E 01	.1324E 01	.3430E-03	.1520E-03	.6395E 02	.1581E 02
170	.7729E-03	-.7166E 01	.1364E 01	.3568E-03	.1588E-03	.6143E 02	.1520E 02
175	.8094E-03	-.7127E 01	.1403E 01	.3712E-03	.1649E-03	.5905E 02	.1461E 02
180	.8358E-03	-.7087E 01	.0000E 00	.0000E 00	.0000E 00	.5670E 02	.1405E 02

SCAT= .4744E-01 30/45= .3166E 01 45/135= .4430E 01 SCAT30-130= .1174E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.4618E 00	-.7727E 00	-.1817E 00	-.2692E 01	.0000E 00	.1451E 00	.4068E-01
5	.2209E 00	-.1483E 01	-.9537E 00	-.1257E 01	.1643E 02	.2953E 00	.8279E-01
10	.1171E 00	-.2144E 01	-.1508E 01	-.6140E 00	.7374E 01	.5720E 00	.1603E 00
15	.6565E-01	-.2750E 01	-.1963E 01	-.3130E 00	.3449E 01	.1054E 01	.2955E 00
20	.3624E-01	-.3319E 01	-.2296E 01	-.1664E 00	.1680E 01	.1849E 01	.5183E 00
25	.2171E-01	-.3830E 01	-.2615E 01	-.9436E-01	.8263E 00	.3086E 01	.8651E 00
30	.1348E-01	-.4307E 01	-.2663E 01	-.5201E-01	.4851E 00	.4971E 01	.1394E 01
35	.8940E-02	-.4717E 01	-.2816E 01	-.3211E-01	.2280E 00	.7495E 01	.2101E 01
40	.6138E-02	-.5093E 01	-.2578E 01	-.1842E-01	.1569E 00	.1092E 02	.3060E 01
45	.4630E-02	-.5389E 01	-.2602E 01	-.1245E-01	.8846E-01	.1479E 02	.4146E 01
50	.3444E-02	-.5671E 01	-.2745E 01	-.9086E-02	.3850E-01	.1945E 02	.5453E 01
55	.2651E-02	-.5933E 01	-.2613E 01	-.6178E-02	.3833E-01	.2527E 02	.7084E 01
60	.2112E-02	-.6160E 01	-.2353E 01	-.4155E-02	.2318E-01	.3172E 02	.8893E 01
65	.1750E-02	-.6348E 01	-.2356E 01	-.3212E-02	.1080E-01	.3830E 02	.1074E 02
70	.1469E-02	-.6523E 01	-.2457E 01	-.2625E-02	.6730E-02	.4560E 02	.1278E 02
75	.1240E-02	-.6693E 01	-.2540E 01	-.2140E-02	.5664E-02	.5403E 02	.1515E 02
80	.1053E-02	-.6856E 01	-.1947E 01	-.1278E-02	.9978E-02	.6365E 02	.1784E 02
85	.9412E-03	-.6968E 01	-.1743E 01	-.1023E-02	.2919E-02	.7119E 02	.1996E 02
90	.8519E-03	-.7068E 01	-.1232E 01	-.6289E-03	.4816E-02	.7865E 02	.2205E 02
95	.7970E-03	-.7135E 01	-.1215E 01	-.5418E-03	.8831E-03	.8407E 02	.2357E 02
100	.7489E-03	-.7197E 01	-.3493E-01	-.1461E-04	.8156E-02	.8947E 02	.2508E 02
105	.7476E-03	-.7199E 01	-.1200E 01	-.4651E-03	-.5162E-02	.8962E 02	.2512E 02
110	.7070E-03	-.7254E 01	.5484E 00	.1599E-03	.7671E-02	.9477E 02	.2657E 02
115	.7365E-03	-.7230E 01	-.6773E 00	-.2359E-03	-.4994E-02	.9249E 02	.2593E 02
120	.7039E-03	-.7259E 01	.5588E 00	.1861E-03	.4836E-02	.9519E 02	.2668E 02
125	.7201E-03	-.7236E 01	.5993E 00	.1962E-03	.1161E-03	.9304E 02	.2608E 02
130	.7372E-03	-.7213E 01	.1110E 01	.3813E-03	.1891E-02	.9088E 02	.2548E 02
135	.7600E-03	-.7171E 01	-.4745E-02	-.1520E-05	-.4157E-02	.8716E 02	.2443E 02
140	.7686E-03	-.7171E 01	.4702E 00	.1466E-03	.1697E-02	.8717E 02	.2444E 02
145	.7814E-03	-.7154E 01	.4867E 00	.1490E-03	.2794E-04	.8574E 02	.2404E 02
150	.7964E-03	-.7138E 01	.5032E 00	.1515E-03	.2840E-04	.8434E 02	.2364E 02
155	.8077E-03	-.7121E 01	.5198E 00	.1540E-03	.2884E-04	.8296E 02	.2326E 02
160	.8211E-03	-.7105E 01	.5363E 00	.1566E-03	.2936E-04	.8160E 02	.2288E 02
165	.8340E-03	-.7088E 01	.5528E 00	.1592E-03	.2985E-04	.8027E 02	.2250E 02
170	.8484E-03	-.7072E 01	.5693E 00	.1618E-03	.3034E-04	.7895E 02	.2213E 02
175	.8620E-03	-.7055E 01	.5858E 00	.1645E-03	.3085E-04	.7766E 02	.2177E 02
180	.8771E-03	-.7039E 01	.0000E 00	.0000E 00	.0000E 00	.7639E 02	.2141E 02

SCAT= .6700E-01 30/45= .2975E 01 45/135= .5893E 01 SCAT30-130= .1878E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.5840E 00	-.6728E 00	-.1900E 00	-.3390E 01	.0000E 00	.1323E 00	.3436E-01
5	.2682E 00	-.1316E 01	-.9963E 00	-.1553E 01	.2188E 02	.2781E 00	.7226E-01
10	.1346E 00	-.2007E 01	-.1573E 01	-.7266E 00	.9239E 01	.5549E 00	.1441E 00
15	.7206E-01	-.2644E 01	-.2034E 01	-.3606E 00	.4198E 01	.1090E 01	.2780E 00
20	.3957E-01	-.3230E 01	-.2386E 01	-.1872E 00	.1987E 01	.1885E 01	.4897E 00
25	.2524E-01	-.3762E 01	-.2710E 01	-.1030E 00	.9888E 00	.3211E 01	.8341E 00
30	.1428E-01	-.4256E 01	-.2813E 01	-.5717E-01	.5344E 00	.5262E 01	.1367E 01
35	.9209E-02	-.4690E 01	-.2867E 01	-.3344E-01	.2719E 00	.8119E 01	.2109E 01
40	.6270E-02	-.5072E 01	-.2676E 01	-.1943E-01	.1606E 00	.1190E 02	.3091E 01
45	.4675E-02	-.5368E 01	-.2701E 01	-.1390E-01	.7386E-01	.1631E 02	.4236E 01
50	.3442E-02	-.5672E 01	-.2752E 01	-.9100E-02	.4480E-01	.2167E 02	.5630E 01
55	.2640E-02	-.5934E 01	-.2043E 01	-.4942E-02	.4769E-01	.2817E 02	.7319E 01
60	.2227E-02	-.6112E 01	-.2863E 01	-.5202E-02	-.2977E-02	.3365E 02	.8743E 01
65	.1769E-02	-.6341E 01	-.2362E 01	-.3244E-02	.2844E-01	.4232E 02	.1099E 02
70	.1400E-02	-.6516E 01	-.2912E 01	-.3086E-02	.1804E-02	.5042E 02	.1310E 02
75	.1280E-02	-.6717E 01	-.1904E 01	-.1109E-02	.2179E-01	.6163E 02	.1601E 02
80	.1107E-02	-.6806E 01	-.1588E 01	-.1164E-02	.2362E-03	.6739E 02	.1751E 02
85	.1005E-02	-.6902E 01	-.1686E 01	-.1058E-02	.1217E-02	.7420E 02	.1928E 02
90	.9131E-03	-.6999E 01	-.1825E 01	-.9630E-03	.8645E-03	.8171E 02	.2173E 02
95	.8279E-03	-.7097E 01	-.4459E 00	-.2144E-03	.8008E-02	.9018E 02	.2348E 02
100	.8086E-03	-.7120E 01	-.2848E 00	-.1277E-03	.9929E-03	.9228E 02	.2397E 02
105	.7974E-03	-.7134E 01	-.4085E 00	-.2798E-03	-.1743E-02	.9355E 02	.2430E 02
110	.7730E-03	-.7165E 01	-.1672E 00	-.7342E-04	.2368E-02	.9651E 02	.2507E 02
115	.7606E-03	-.7174E 01	.8421E 00	.3206E-03	.4816E-02	.9732E 02	.2528E 02
120	.7946E-03	-.7138E 01	.1810E 01	.6942E-03	.4327E-02	.9399E 02	.2439E 02
125	.8565E-03	-.7064E 01	.1699E 01	.6756E-03	-.2608E-03	.8720E 02	.2265E 02
130	.9145E-03	-.6997E 01	.2499E 01	.1037E-02	.4136E-02	.8150E 02	.2119E 02
135	.1008E-02	-.6903E 01	.1475E 01	.6347E-03	-.4604E-02	.7424E 02	.1928E 02
140	.1088E-02	-.6849E 01	.1943E 01	.8873E-03	.2850E-02	.7036E 02	.1828E 02
145	.1138E-02	-.6741E 01	.2011E 01	.9177E-03	.4931E-03	.6572E 02	.1707E 02
150	.1215E-02	-.6713E 01	.2079E 01	.9875E-03	.7420E-03	.6139E 02	.1595E 02
155	.1301E-02	-.6645E 01	.2147E 01	.1052E-02	.7964E-03	.5735E 02	.1490E 02
160	.1398E-02	-.6576E 01	.2216E 01	.1126E-02	.8504E-03	.5357E 02	.1392E 02
165	.1494E-02	-.6508E 01	.2284E 01	.1205E-02	.9104E-03	.5004E 02	.1300E 02
170	.1598E-02	-.6440E 01	.2352E 01	.1291E-02	.9746E-03	.4674E 02	.1214E 02
175	.1709E-02	-.6372E 01	.2420E 01	.1382E-02	.1043E-02	.4366E 02	.1134E 02
180	.1829E-02	-.6304E 01	.0000E 00	.0000E 00	.0000E 00	.4078E 02	.1059E 02

SCAT= .7460E-01 30/45= .3099E 01 45/135= .4559E 01 SCAT30-130= .1938E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.4863E 00	-.7210E 00	-.2157E 00	-.3176E 01	.0000E 00	.9982E-01	.2202E-01
5	.2092E 00	-.1565E 01	-.1124E 01	-.1297E 01	.2152E 02	.2321E 00	.5120E-01
10	.9596E-01	-.2344E 01	-.1769E 01	-.5616E 00	.8431E 01	.5059E 00	.1116E 00
15	.4695E-01	-.3059E 01	-.2261E 01	-.2573E 00	.3487E 01	.1034E 01	.2281E 00
20	.2450E-01	-.3709E 01	-.2626E 01	-.1245E 00	.1521E 01	.1981E 01	.4371E 00
25	.1366E-01	-.4295E 01	-.2866E 01	-.6359E-01	.6070E 00	.3559E 01	.7854E 00
30	.8087E-02	-.4817E 01	-.3217E 01	-.3623E-01	.3136E 00	.6002E 01	.1324E 01
35	.4926E-02	-.5313E 01	-.2730E 01	-.1720E-01	.2171E 00	.9855E 01	.2174E 01
40	.3427E-02	-.5679E 01	-.2647E 01	-.1049E-01	.7791E-01	.1421E 02	.3134E 01
45	.2602E-02	-.5951E 01	-.2627E 01	-.7384E-02	.3887E-01	.1840E 02	.4281E 01
50	.1857E-02	-.6289E 01	-.2429E 01	-.4391E-02	.3430E-01	.2613E 02	.5766E 01
55	.1474E-02	-.6520E 01	-.2318E 01	-.3046E-02	.1496E-01	.3293E 02	.7265E 01
60	.1205E-02	-.6721E 01	-.2891E 01	-.2857E-02	.2684E-02	.4029E 02	.8889E 01
65	.9809E-03	-.6959E 01	-.2772E 01	-.2035E-02	.9364E-02	.5078E 02	.1120E 02
70	.7784E-03	-.7158E 01	-.2017E 01	-.1159E-02	.1004E-01	.6236E 02	.1376E 02
75	.6770E-03	-.7298E 01	-.2199E 01	-.1027E-02	.1514E-02	.7167E 02	.1581E 02
80	.5877E-03	-.7439E 01	-.1597E 01	-.6213E-03	.4647E-02	.8260E 02	.1822E 02
85	.5395E-03	-.7525E 01	-.1132E 01	-.4482E-03	.1884E-02	.9099E 02	.2008E 02
90	.4943E-03	-.7612E 01	-.1775E 00	-.5410E-04	.4616E-02	.9819E 02	.2167E 02
95	.4886E-03	-.7622E 01	-.7190E 00	-.2015E-03	-.1649E-02	.9914E 02	.2187E 02
100	.4720E-03	-.7658E 01	.2147E 00	.5697E-04	.2962E-02	.1028E 03	.2269E 02
105	.4770E-03	-.7648E 01	-.4344E-01	-.1104E-04	-.7704E-04	.1018E 03	.2246E 02
110	.4780E-03	-.7646E 01	-.9223E 00	-.2191E-03	-.2384E-02	.1020E 03	.2250E 02
115	.4609E-03	-.7682E 01	.6017E 00	.1357E-03	.4066E-02	.1062E 03	.2344E 02
120	.4680E-03	-.7667E 01	.1642E 01	.3724E-03	-.2712E-02	.1036E 03	.2285E 02
125	.5015E-03	-.7598E 01	.1100E 01	.2721E-03	-.1149E-02	.9684E 02	.2137E 02
130	.5260E-03	-.7552E 01	.2246E 01	.5321E-03	.2979E-02	.9246E 02	.2040E 02
135	.5714E-03	-.7467E 01	.1156E 01	.2808E-03	-.2878E-02	.8495E 02	.1874E 02
140	.5969E-03	-.7425E 01	.1597E 01	.3937E-03	.1293E-02	.8145E 02	.1797E 02
145	.6300E-03	-.7370E 01	.1653E 01	.4164E-03	.2601E-03	.7701E 02	.1699E 02
150	.6606E-03	-.7313E 01	.1709E 01	.4404E-03	.2750E-03	.7291E 02	.1607E 02
155	.7061E-03	-.7257E 01	.1765E 01	.4658E-03	.2909E-03	.6885E 02	.1519E 02
160	.7457E-03	-.7201E 01	.1821E 01	.4926E-03	.3077E-03	.6509E 02	.1436E 02
165	.7904E-03	-.7145E 01	.1877E 01	.5210E-03	.3254E-03	.6155E 02	.1348E 02
170	.8342E-03	-.7089E 01	.1933E 01	.5510E-03	.3442E-03	.5819E 02	.1284E 02
175	.8822E-03	-.7033E 01	.1990E 01	.5828E-03	.3640E-03	.5502E 02	.1214E 02
180	.9331E-03	-.6977E 01	.0000E 00	.0000E 00	.0000E 00	.5202E 02	.1148E 02

SCAT= .4854E-01 30/45= .3233E 01 45/135= .4378E 01 SCAT30-130= .1071E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2025E 00	-.1597E 01	-.1693E 00	-.1123E 01	.0000E 00	.1814E 00	.5949E-01
5	.1044E 00	-.2259E 01	-.8901E 00	-.5510E 00	.6959E 01	.3520E 00	.1153E 00
10	.5636E-01	-.2876E 01	-.1410E 01	-.2813E 00	.3091E 01	.6524E 00	.2137E 00
15	.3181E-01	-.3448E 01	-.1831E 01	-.1493E 00	.1518E 01	.1156E 01	.3786E 00
20	.1878E-01	-.3975E 01	-.2159E 01	-.8279E-01	.7677E 00	.1957E 01	.6412E 00
25	.1160E-01	-.4457E 01	-.2523E 01	-.4902E-01	.3018E 00	.3169E 01	.1038E 01
30	.7326E-02	-.4917E 01	-.2772E 01	-.2876E-01	.2321E 00	.5019E 01	.1644E 01
35	.4814E-02	-.5336E 01	-.2414E 01	-.1520E-01	.1864E 00	.7638E 01	.2502E 01
40	.3488E-02	-.5658E 01	-.2710E 01	-.1092E-01	.4907E-01	.1054E 02	.3453E 01
45	.2555E-02	-.5970E 01	-.2516E 01	-.6764E-02	.4768E-01	.1450E 02	.4752E 01
50	.1944E-02	-.6243E 01	-.2203E 01	-.4357E-02	.2759E-01	.1891E 02	.6194E 01
55	.1584E-02	-.6460E 01	-.2051E 01	-.2929E-02	.1636E-01	.2350E 02	.7700E 01
60	.1309E-02	-.6639E 01	-.1898E 01	-.2113E-02	.9353E-02	.2809E 02	.9204E 01
65	.1124E-02	-.6791E 01	-.1370E 01	-.1244E-02	.9964E-02	.3270E 02	.1071E 02
70	.1016E-02	-.6892E 01	-.2255E 01	-.1677E-02	-.4962E-02	.3620E 02	.1186E 02
75	.8694E-03	-.7048E 01	-.1683E 01	-.1008E-02	.7660E-02	.4229E 02	.1385E 02
80	.7814E-03	-.7154E 01	-.5953E 00	-.3121E-03	.7975E-02	.4705E 02	.1541E 02
85	.7541E-03	-.7190E 01	-.1763E 01	-.8284E-03	-.5916E-02	.4875E 02	.1597E 02
90	.6819E-03	-.7291E 01	-.8488E 00	-.3555E-03	.5477E-02	.5397E 02	.1766E 02
95	.6513E-03	-.7337E 01	.3644E 00	.1408E-03	.5629E-02	.5645E 02	.1849E 02
100	.6636E-03	-.7318E 01	-.4139E 00	-.1570E-03	-.3385E-02	.5540E 02	.1815E 02
105	.6509E-03	-.7330E 01	.1616E 00	.5623E-04	.3806E-02	.5654E 02	.1852E 02
110	.6552E-03	-.7331E 01	-.7196E 00	-.2364E-03	-.3383E-02	.5611E 02	.1838E 02
115	.6346E-03	-.7363E 01	.7086E 00	.2226E-03	.5760E-02	.5794E 02	.1898E 02
120	.6540E-03	-.7332E 01	.7452E 00	.2115E-03	.1012E-03	.5621E 02	.1842E 02
125	.6742E-03	-.7302E 01	.1302E 01	.5048E-03	.1886E-02	.5453E 02	.1786E 02
130	.7098E-03	-.7251E 01	.1207E 01	.3789E-03	-.2963E-02	.5182E 02	.1698E 02
135	.7426E-03	-.7205E 01	.9566E 00	.3012E-03	-.8902E-03	.4951E 02	.1622E 02
140	.7684E-03	-.7171E 01	.1128E 01	.3557E-03	.6245E-03	.4782E 02	.1566E 02
145	.7999E-03	-.7131E 01	.1168E 01	.3701E-03	.1646E-03	.4596E 02	.1506E 02
150	.8322E-03	-.7091E 01	.1207E 01	.3850E-03	.1712E-03	.4418E 02	.1447E 02
155	.8658E-03	-.7052E 01	.1247E 01	.4006E-03	.1782E-03	.4246E 02	.1391E 02
160	.9008E-03	-.7012E 01	.1286E 01	.4168E-03	.1853E-03	.4081E 02	.1337E 02
165	.9372E-03	-.6973E 01	.1326E 01	.4336E-03	.1928E-03	.3923E 02	.1285E 02
170	.9750E-03	-.6933E 01	.1366E 01	.4511E-03	.2006E-03	.3771E 02	.1235E 02
175	.1014E-02	-.6894E 01	.1408E 01	.4693E-03	.2087E-03	.3624E 02	.1187E 02
180	.1055E-02	-.6854E 01	.0000E 00	.0000E 00	.0000E 00	.3484E 02	.1141E 02

SCAT= .3676E-01 30/45= .2890E 01 45/135= .3413E 01 SCAT30-130= .1204E-01

CH42/219 30164 2130H ST815 9-800M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2290E 00	-.1474E 01	-.1779E 00	-.1286E 01	.0000E 00	.1571E 00	.4713E-01
5	.1116E 00	-.2193E 01	-.9337E 00	-.6093E 00	.7749E 01	.3151E 00	.9450E-01
10	.5842E-01	-.2840E 01	-.1476E 01	-.3015E 00	.3627E 01	.6019E 00	.1805E 00
15	.3211E-01	-.3439E 01	-.1912E 01	-.1656E 00	.1670E 01	.1095E 01	.3285E 00
20	.1862E-01	-.3984E 01	-.2247E 01	-.8370E-01	.8244E 00	.1898E 01	.5693E 00
25	.1122E-01	-.4490E 01	-.2609E 01	-.4861E-01	.4021E 00	.3134E 01	.9400E 00
30	.6977E-02	-.4965E 01	-.2586E 01	-.2628E-01	.2658E 00	.5040E 01	.1511E 01
35	.4684E-02	-.5364E 01	-.2803E 01	-.1676E-01	.1092E 00	.7507E 01	.2252E 01
40	.3221E-02	-.5738E 01	-.2493E 01	-.9392E-02	.8438E-01	.1091E 02	.3274E 01
45	.2402E-02	-.6032E 01	-.2467E 01	-.6601E-02	.3313E-01	.1464E 02	.4391E 01
50	.1855E-02	-.6290E 01	-.2176E 01	-.3937E-02	.2930E-01	.1917E 02	.5748E 01
55	.1491E-02	-.6508E 01	-.2677E 01	-.3650E-02	.4429E-02	.2358E 02	.7073E 01
60	.1181E-02	-.6741E 01	-.2403E 01	-.2368E-02	.1355E-01	.2977E 02	.8928E 01
65	.9746E-03	-.6934E 01	-.1980E 01	-.1624E-02	.9670E-02	.3608E 02	.1082E 02
70	.8415E-03	-.7080E 01	-.2848E 01	-.1720E-02	-.2240E-02	.4178E 02	.1253E 02
75	.7014E-03	-.7262E 01	-.1599E 01	-.7677E-03	.1092E-01	.5006E 02	.1501E 02
80	.6246E-03	-.7379E 01	-.1626E 01	-.6717E-03	.1100E-02	.5631E 02	.1689E 02
85	.5650E-03	-.7477E 01	-.1079E 01	-.3878E-03	.3284E-02	.6215E 02	.1864E 02
90	.5329E-03	-.7539E 01	-.1229E 01	-.3920E-03	-.4059E-04	.6610E 02	.1983E 02
95	.4997E-03	-.7605E 01	.4304E 00	.1291E-03	.5978E-02	.7065E 02	.2119E 02
100	.5090E-03	-.7583E 01	-.6026E-01	-.1712E-04	-.1676E-02	.6908E 02	.2072E 02
105	.5076E-03	-.7586E 01	-.5527E 00	-.1476E-03	-.1405E-02	.6924E 02	.2078E 02
110	.4946E-03	-.7612E 01	-.7720E 00	-.1914E-03	-.5018E-03	.7109E 02	.2132E 02
115	.4779E-03	-.7646E 01	-.9478E-01	-.2205E-04	.1941E-02	.7357E 02	.2207E 02
120	.4780E-03	-.7650E 01	.8507E-02	.1893E-05	.2748E-03	.7307E 02	.2192E 02
125	.4781E-03	-.7650E 01	.1658E 01	.3645E-03	.4178E-02	.7309E 02	.2193E 02
130	.5081E-03	-.7585E 01	.1377E 01	.3105E-03	-.8417E-03	.6920E 02	.2075E 02
135	.5382E-03	-.7533E 01	.2406E 00	.6649E-04	-.2920E-02	.6570E 02	.1970E 02
140	.5401E-03	-.7524E 01	.8318E 00	.1833E-03	.1462E-02	.6510E 02	.1953E 02
145	.5601E-03	-.7489E 01	.8610E 00	.1887E-03	.6222E-04	.6323E 02	.1896E 02
150	.5726E-03	-.7465E 01	.8902E 00	.1943E-03	.6405E-04	.6141E 02	.1842E 02
155	.5895E-03	-.7430E 01	.9194E 00	.2001E-03	.6596E-04	.5965E 02	.1789E 02
160	.6070E-03	-.7407E 01	.9485E 00	.2060E-03	.6790E-04	.5793E 02	.1737E 02
165	.6249E-03	-.7378E 01	.9777E 00	.2121E-03	.6989E-04	.5626E 02	.1687E 02
170	.6436E-03	-.7349E 01	.1007E 01	.2184E-03	.7199E-04	.5464E 02	.1639E 02
175	.6625E-03	-.7319E 01	.1036E 01	.2249E-03	.7412E-04	.5307E 02	.1592E 02
180	.6821E-03	-.7290E 01	.0000E 00	.0000E 00	.0000E 00	.5155E 02	.1546E 02

SCAT= .3516E-01 30/45= .2905E 01 45/135= .4488E 01 SCAT30-130= .1055E-01

CH42/220 30164 2150H ST815 3-100M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3492E 00	-.1052E 01	-.1916E 00	-.2110E 01	.0000E 00	.1299E 00	.3371E-01
5	.1661E 00	-.1801E 01	-.1004E 01	-.9462E 00	.1331E 02	.2748E 00	.7131E-01
10	.8291E-01	-.2497E 01	-.1584E 01	-.4470E 00	.5744E 01	.5510E 00	.1430E 00
15	.4770E-01	-.3044E 01	-.2046E 01	-.2206E 00	.2690E 01	.1047E 01	.2718E 00
20	.2404E-01	-.3728E 01	-.2398E 01	-.1141E 00	.1222E 01	.1887E 01	.4897E 00
25	.1400E-01	-.4269E 01	-.2784E 01	-.6367E-01	.5703E 00	.3222E 01	.8364E 00
30	.8519E-02	-.4765E 01	-.2764E 01	-.3309E-01	.3412E 00	.5324E 01	.1382E 01
35	.5562E-02	-.5192E 01	-.2779E 01	-.1976E-01	.1619E 00	.8155E 01	.2116E 01
40	.3837E-02	-.5563E 01	-.2932E 01	-.1284E-01	.7920E-01	.1182E 02	.3067E 01
45	.2727E-02	-.5905E 01	-.2401E 01	-.6957E-02	.8944E-01	.1664E 02	.4318E 01
50	.2110E-02	-.6161E 01	-.2666E 01	-.5474E-02	.1756E-01	.2150E 02	.5580E 01
55	.1630E-02	-.6419E 01	-.2320E 01	-.3478E-02	.2288E-01	.2772E 02	.7194E 01
60	.1337E-02	-.6617E 01	-.2573E 01	-.2852E-02	.6599E-02	.3392E 02	.8803E 01
65	.1088E-02	-.6823E 01	-.2737E 01	-.2289E-02	.6461E-02	.4168E 02	.1082E 02
70	.8884E-03	-.7026E 01	-.2610E 01	-.1682E-02	.6953E-02	.5105E 02	.1325E 02
75	.7410E-03	-.7207E 01	-.2138E 01	-.1094E-02	.6730E-02	.6116E 02	.1587E 02
80	.6461E-03	-.7344E 01	-.1590E 01	-.6804E-03	.4742E-02	.7019E 02	.1822E 02
85	.5860E-03	-.7441E 01	-.1724E 01	-.6311E-03	.5649E-03	.7718E 02	.2006E 02
90	.5317E-03	-.7539E 01	-.7425E 00	-.2997E-03	.4484E-02	.8530E 02	.2214E 02
95	.5100E-03	-.7580E 01	-.1386E 00	-.4056E-04	.2282E-02	.8848E 02	.2296E 02
100	.5072E-03	-.7587E 01	-.1465E 00	-.4141E-04	-.9638E-03	.8942E 02	.2321E 02
105	.5094E-03	-.7582E 01	.3903E 00	.9700E-04	.1606E-02	.9006E 02	.2337E 02
110	.5121E-03	-.7577E 01	-.1328E 01	-.3356E-03	-.4957E-02	.8857E 02	.2299E 02
115	.4820E-03	-.7630E 01	.3401E 00	.8250E-04	.4792E-02	.9594E 02	.2490E 02
120	.4900E-03	-.7621E 01	.8848E 00	.2065E-03	.1420E-02	.9256E 02	.2402E 02
125	.5000E-03	-.7601E 01	.1497E 01	.3570E-03	.1667E-02	.9028E 02	.2317E 02
130	.5387E-03	-.7526E 01	.2436E 01	.5944E-03	.2777E-02	.8419E 02	.2185E 02
135	.5906E-03	-.7434E 01	.6760E 00	.1602E-03	-.4066E-02	.7674E 02	.1992E 02
140	.6055E-03	-.7410E 01	.1419E 01	.3541E-03	.2190E-02	.7493E 02	.1946E 02
145	.6302E-03	-.7360E 01	.1469E 01	.3771E-03	.2071E-03	.7129E 02	.1850E 02
150	.6607E-03	-.7310E 01	.1518E 01	.3911E-03	.2177E-03	.6763E 02	.1760E 02
155	.7020E-03	-.7260E 01	.1568E 01	.4111E-03	.2288E-03	.6459E 02	.1676E 02
160	.7387E-03	-.7211E 01	.1618E 01	.4321E-03	.2405E-03	.6140E 02	.1593E 02
165	.7764E-03	-.7161E 01	.1668E 01	.4541E-03	.2528E-03	.5842E 02	.1516E 02
170	.8160E-03	-.7111E 01	.1718E 01	.4773E-03	.2656E-03	.5558E 02	.1442E 02
175	.8577E-03	-.7061E 01	.1767E 01	.5017E-03	.2792E-03	.5288E 02	.1372E 02
180	.9015E-03	-.7011E 01	.0000E 00	.0000E 00	.0000E 00	.5031E 02	.1306E 02

SCAT= .4539E-01 30/45= .3186E 01 45/135= .4600E 01 SCAT30-130= .1177E-01

CH42/221 30164 2205H ST815 8-600M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3082E 00	-.1187E 01	-.2019E 00	-.1910E 01	.0000E 00	.1198E 00	.3081E-01
5	.1386E 00	-.1976E 01	-.1052E 01	-.8222E 00	.1246E 02	.2634E 00	.6786E-01
10	.6689E-01	-.2705E 01	-.1650E 01	-.3735E 00	.5142E 01	.5463E 00	.1407E 00
15	.3429E-01	-.3373E 01	-.2116E 01	-.1780E 00	.2291E 01	.1067E 01	.2747E 00
20	.1882E-01	-.3983E 01	-.2458E 01	-.9008E-01	.1017E 01	.1961E 01	.5050E 00
25	.1076E-01	-.4532E 01	-.2797E 01	-.4926E-01	.4678E 00	.3393E 01	.8740E 00
30	.6481E-02	-.5042E 01	-.2830E 01	-.2618E-01	.2646E 00	.5650E 01	.1455E 01
35	.4177E-02	-.5478E 01	-.2718E 01	-.1457E-01	.1381E 00	.8740E 01	.2252E 01
40	.2905E-02	-.5841E 01	-.2669E 01	-.8982E-02	.6399E-01	.1256E 02	.3237E 01
45	.2122E-02	-.6156E 01	-.2379E 01	-.5890E-02	.4116E-01	.1721E 02	.4432E 01
50	.1651E-02	-.6408E 01	-.2658E 01	-.4234E-02	.1324E-01	.2211E 02	.5695E 01
55	.1282E-02	-.6660E 01	-.2415E 01	-.2704E-02	.1862E-01	.2848E 02	.7337E 01
60	.1039E-02	-.6870E 01	-.2507E 01	-.2226E-02	.6386E-02	.3514E 02	.9052E 01
65	.8446E-03	-.7077E 01	-.1739E 01	-.1170E-02	.1210E-01	.4323E 02	.1118E 02
70	.7424E-03	-.7206E 01	-.2709E 01	-.1489E-02	-.3654E-02	.4917E 02	.1267E 02
75	.6184E-03	-.7388E 01	-.1869E 01	-.7974E-03	.7929E-02	.5903E 02	.1535E 02
80	.5429E-03	-.7519E 01	-.1158E 01	-.4217E-03	.4305E-02	.6725E 02	.1732E 02
85	.5061E-03	-.7589E 01	-.1697E 01	-.5360E-03	-.1309E-02	.7214E 02	.1868E 02
90	.4849E-03	-.7632E 01	-.5044E 00	-.1416E-03	.4620E-02	.7940E 02	.2048E 02
95	.4469E-03	-.7713E 01	.6089E 00	.1625E-03	.3484E-02	.8168E 02	.2104E 02
100	.4611E-03	-.7682E 01	-.6614E 00	-.1678E-03	-.3785E-02	.7917E 02	.2039E 02
105	.4408E-03	-.7724E 01	.2484E 00	.5946E-04	.2604E-02	.8177E 02	.2106E 02
110	.4517E-03	-.7703E 01	-.6036E 00	-.1370E-03	-.2251E-02	.8083E 02	.2082E 02
115	.4397E-03	-.7729E 01	.1092E 00	.2340E-04	.1839E-02	.8303E 02	.2139E 02
120	.4417E-03	-.7725E 01	.8236E 00	.1731E-03	.1714E-02	.8264E 02	.2129E 02
125	.4580E-03	-.7691E 01	.9151E 00	.1913E-03	.2089E-03	.7971E 02	.2058E 02
130	.4755E-03	-.7655E 01	.2725E 01	.5878E-03	.4843E-02	.7709E 02	.1986E 02
135	.5240E-03	-.7552E 01	.2041E 00	.6179E-04	-.6027E-02	.6950E 02	.1792E 02
140	.5502E-03	-.7505E 01	.1207E 01	.2628E-03	.2303E-02	.6885E 02	.1774E 02
145	.5532E-03	-.7500E 01	.1249E 01	.2742E-03	.1302E-03	.6600E 02	.1700E 02
150	.5771E-03	-.7458E 01	.1291E 01	.2860E-03	.1359E-03	.6320E 02	.1630E 02
155	.6020E-03	-.7415E 01	.1334E 01	.2984E-03	.1418E-03	.6064E 02	.1562E 02
160	.6281E-03	-.7373E 01	.1376E 01	.3113E-03	.1479E-03	.5812E 02	.1497E 02
165	.6552E-03	-.7330E 01	.1418E 01	.3248E-03	.1543E-03	.5571E 02	.1436E 02
170	.6856E-03	-.7288E 01	.1461E 01	.3389E-03	.1610E-03	.5340E 02	.1376E 02
175	.7132E-03	-.7246E 01	.1503E 01	.3535E-03	.1679E-03	.5119E 02	.1319E 02
180	.7440E-03	-.7203E 01	.0000E 00	.0000E 00	.0000E 00	.4907E 02	.1264E 02

SCAT= .9651E-01 30/45= .3045E 01 45/135= .4042E 01 SCAT30-130= .9404E-02

CH42/222 30164 2220H ST815 4-210M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.8019E 00	-.2208E 00	-.2128E 00	-.5141E 01	.0000E 00	.1028E 00	.2347E-01
5	.3489E 00	-.1053E 01	-.1106E 01	-.2141E 01	.3496E 02	.2362E 00	.5396E-01
10	.1621E 00	-.1820E 01	-.1729E 01	-.7559E 00	.1380E 02	.5085E 00	.1161E 00
15	.8090E-01	-.2514E 01	-.2209E 01	-.3230E 00	.5760E 01	.1025E 01	.2341E 00
20	.4288E-01	-.3150E 01	-.2554E 01	-.2120E 00	.2536E 01	.1935E 01	.4420E 00
25	.2409E-01	-.3726E 01	-.2881E 01	-.1119E 00	.1147E 01	.3422E 01	.7814E 00
30	.1432E-01	-.4246E 01	-.2924E 01	-.5955E-01	.5996E 00	.5754E 01	.1314E 01
35	.9126E-02	-.4697E 01	-.2622E 01	-.3089E-01	.3286E 00	.9031E 01	.2063E 01
40	.6430E-02	-.5047E 01	-.2900E 01	-.2132E-01	.1096E 00	.1282E 02	.2927E 01
45	.4609E-02	-.5380E 01	-.2140E 01	-.1061E-01	.1220E 00	.1804E 02	.4119E 01
50	.3644E-02	-.5615E 01	-.3244E 01	-.1110E-01	-.5699E-02	.2262E 02	.5165E 01
55	.2675E-02	-.5924E 01	-.2595E 01	-.5766E-02	.8117E-01	.3081E 02	.7037E 01
60	.2177E-02	-.6132E 01	-.3006E 01	-.5322E-02	.5090E-02	.3795E 02	.8667E 01
65	.1907E-02	-.6273E 01	-.2972E 01	-.3395E-02	.2208E-01	.4827E 02	.1102E 02
70	.1411E-02	-.6564E 01	-.2209E 01	-.2285E-02	.1272E-01	.5841E 02	.1334E 02
75	.1212E-02	-.6716E 01	-.3430E 01	-.2539E-02	-.2912E-01	.6802E 02	.1553E 02
80	.9899E-03	-.6918E 01	-.1764E 01	-.1150E-02	.1592E-01	.8326E 02	.1901E 02
85	.8896E-03	-.7025E 01	-.1662E 01	-.9230E-03	.2594E-02	.9264E 02	.2116E 02
90	.8089E-03	-.7120E 01	-.1266E 01	-.6129E-03	.3563E-02	.1019E 03	.2327E 02
95	.7866E-03	-.7148E 01	-.2504E 00	-.1105E-03	.5957E-02	.1091E 03	.2491E 02
100	.7466E-03	-.7201E 01	-.1128E 01	-.4577E-03	-.3478E-02	.1105E 03	.2524E 02
105	.7209E-03	-.7236E 01	-.2736E 00	-.1023E-03	.4072E-02	.1140E 03	.2604E 02
110	.6989E-03	-.7264E 01	-.1027E 01	-.3566E-03	-.2914E-02	.1182E 03	.2701E 02
115	.6680E-03	-.7314E 01	-.2549E 00	-.7509E-04	.3016E-02	.1230E 03	.2809E 02
120	.6592E-03	-.7324E 01	.7466E 00	.2338E-03	.3640E-02	.1250E 03	.2855E 02
125	.6796E-03	-.7294E 01	-.2997E-01	-.9140E-05	-.2708E-02	.1213E 03	.2769E 02
130	.6700E-03	-.7309E 01	.2098E 01	.6409E-03	.7449E-02	.1214E 03	.2773E 02
135	.7047E-03	-.7258E 01	-.9984E-01	-.3052E-04	-.7694E-02	.1122E 03	.2562E 02
140	.7321E-03	-.7220E 01	.4447E 00	.1919E-03	.2549E-02	.1126E 03	.2571E 02
145	.7480E-03	-.7197E 01	.6673E 00	.1963E-03	.5051E-04	.1101E 03	.2519E 02
150	.7660E-03	-.7174E 01	.6899E 00	.2008E-03	.5149E-04	.1076E 03	.2457E 02
155	.7895E-03	-.7152E 01	.7125E 00	.2054E-03	.5264E-04	.1052E 03	.2402E 02
160	.8014E-03	-.7129E 01	.7352E 00	.2101E-03	.5387E-04	.1028E 03	.2349E 02
165	.8197E-03	-.7107E 01	.7578E 00	.2149E-03	.5500E-04	.1005E 03	.2296E 02
170	.8505E-03	-.7084E 01	.7804E 00	.2198E-03	.5636E-04	.9828E 02	.2245E 02
175	.8677E-03	-.7061E 01	.8030E 00	.2249E-03	.5762E-04	.9609E 02	.2194E 02
180	.8779E-03	-.7039E 01	.0000E 00	.0000E 00	.0000E 00	.9394E 02	.2146E 02

SCAT= .8242E-01 30/45= .3134E 01 45/135= .6219E 01 SCAT30-130= .1882E-01

CH42/223 30164 ST815 7-500M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2406E 00	-.1425E 01	-.1637E 00	-.1304E 01	.0000E 00	.1805E 00	.5606E-01
5	.1260E 00	-.2069E 01	-.8046E 00	-.6651E 00	.7432E 01	.3479E 00	.1063E 00
10	.6966E-01	-.2664E 01	-.1377E 01	-.3414E 00	.3590E 01	.6230E 00	.1936E 00
15	.3905E-01	-.3243E 01	-.1790E 01	-.1804E 00	.1790E 01	.1096E 01	.3384E 00
20	.2376E-01	-.3740E 01	-.2134E 01	-.1032E 00	.9314E 00	.1828E 01	.5677E 00
25	.1476E-01	-.4216E 01	-.2544E 01	-.6275E-01	.4630E 00	.2943E 01	.9138E 00
30	.9201E-02	-.4688E 01	-.2561E 01	-.3469E-01	.3215E 00	.4600E 01	.1453E 01
35	.6260E-02	-.5079E 01	-.2717E 01	-.2181E-01	.1477E 00	.6946E 01	.2157E 01
40	.4351E-02	-.5437E 01	-.2684E 01	-.1351E-01	.9602E-01	.9984E 01	.3100E 01
45	.3174E-02	-.5753E 01	-.2600E 01	-.8745E-02	.5441E-01	.1370E 02	.4263E 01
50	.2406E-02	-.6030E 01	-.2352E 01	-.6537E-02	.3699E-01	.1805E 02	.5605E 01
55	.1929E-02	-.6250E 01	-.2935E 01	-.4966E-02	.8646E-02	.2259E 02	.7018E 01
60	.1490E-02	-.6509E 01	-.2280E 01	-.2854E-02	.2420E-01	.2916E 02	.9053E 01
65	.1241E-02	-.6692E 01	-.2102E 01	-.2050E-02	.9207E-02	.3501E 02	.1087E 02
70	.1002E-02	-.6906E 01	-.2353E 01	-.1823E-02	.2602E-02	.4091E 02	.1270E 02
75	.8980E-03	-.7016E 01	-.2205E 01	-.1417E-02	.4665E-02	.4812E 02	.1494E 02
80	.7789E-03	-.7158E 01	-.1299E 01	-.6758E-03	.5497E-02	.5570E 02	.1731E 02
85	.7200E-03	-.7236E 01	-.2067E 01	-.9195E-03	-.2790E-02	.6033E 02	.1873E 02
90	.6507E-03	-.7334E 01	-.1178E 01	-.5251E-03	.4520E-02	.6790E 02	.2108E 02
95	.5990E-03	-.7420E 01	-.3967E 00	-.1371E-03	.4446E-02	.7314E 02	.2271E 02
100	.5819E-03	-.7449E 01	-.5210E 00	-.1676E-03	-.3499E-03	.7464E 02	.2318E 02
105	.5679E-03	-.7473E 01	-.5230E 00	-.9710E-04	.4002E-02	.7650E 02	.2377E 02
110	.5580E-03	-.7490E 01	-.6431E 00	-.1860E-03	-.1019E-02	.7773E 02	.2413E 02
115	.5426E-03	-.7519E 01	.1040E 00	.4090E-04	.2694E-02	.8005E 02	.2486E 02
120	.5469E-03	-.7511E 01	.1917E 00	.4924E-04	.1747E-05	.7942E 02	.2466E 02
125	.5612E-03	-.7485E 01	.1100E 01	.3016E-03	.2092E-02	.7881E 02	.2447E 02
130	.5775E-03	-.7457E 01	.2045E 01	.5311E-03	.2629E-02	.7521E 02	.2335E 02
135	.6209E-03	-.7384E 01	.1914E 00	.6000E-04	-.5518E-02	.6962E 02	.2162E 02
140	.6282E-03	-.7373E 01	.9504E 00	.2441E-03	.2225E-02	.6914E 02	.2147E 02
145	.6490E-03	-.7339E 01	.9837E 00	.2524E-03	.9400E-04	.6687E 02	.2076E 02
150	.6716E-03	-.7306E 01	.1017E 01	.2610E-03	.9809E-04	.6468E 02	.2008E 02
155	.6940E-03	-.7273E 01	.1050E 01	.2698E-03	.1014E-03	.6256E 02	.1942E 02
160	.7179E-03	-.7239E 01	.1084E 01	.2790E-03	.1049E-03	.6051E 02	.1879E 02
165	.7428E-03	-.7206E 01	.1117E 01	.2884E-03	.1084E-03	.5852E 02	.1817E 02
170	.7674E-03	-.7173E 01	.1151E 01	.2982E-03	.1121E-03	.5660E 02	.1758E 02
175	.7934E-03	-.7139E 01	.1184E 01	.3083E-03	.1159E-03	.5475E 02	.1700E 02
180	.8203E-03	-.7106E 01	.0000E 00	.0000E 00	.0000E 00	.5295E 02	.1644E 02

SCAT= .4944E-01 30/45= .2927E 01 45/135= .5088E 01 SCAT30-130= .1349E-01

CH42/224 30164 2255H ST415 5-950M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2245E 00	-.1494E 01	-.1831E 00	-.1316E 01	.0000E 00	.1454E 00	.4100E-01
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
165	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
170	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
175	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
180	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SCAT= .3260E-01 30/45= .3058E 01 45/135= .4178E 01 SCAT30-130= .9204E-02

CH42/228 31164 2310H ST416 0-400M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	.1080E-02	-.6850E 01	.2565E 01	.9976E-03	.8676E-03	.3815E 02	.9349E 01
165	.1147E-02	-.6771E 01	.2644E 01	.1079E-02	.9308E-03	.3526E 02	.8634E 01
170	.1241E-02	-.6692E 01	.2723E 01	.1164E-02	.1016E-02	.3258E 02	.7979E 01
175	.1345E-02	-.6613E 01	.2802E 01	.1264E-02	.1099E-02	.3011E 02	.7373E 01
180	.1453E-02	-.6534E 01	.0000E 00	.0000E 00	.0000E 00	.2782E 02	.6814E 01

SCAT= .4044E-01 30/45= .3059E 01 45/136= .3004E 01 SCAT30-130= .9904E-02

CH42/226 31164 0630H ST41637 59.7N 46 34.1W PIPE SUR

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	.6714E-03	-.7306E 01	.4089E 00	.9742E-04	.1396E-04	.9847E 02	.2308E 02
165	.6799E-03	-.7294E 01	.4216E 00	.9865E-04	.1414E-04	.9724E 02	.2279E 02
170	.6885E-03	-.7281E 01	.4341E 00	.9990E-04	.1432E-04	.9603E 02	.2251E 02
175	.6972E-03	-.7268E 01	.4467E 00	.1012E-03	.1449E-04	.9482E 02	.2222E 02
180	.7060E-03	-.7256E 01	.0000E 00	.0000E 00	.0000E 00	.9364E 02	.2195E 02

SCAT= .6611E-01 30/45= .3104E 01 45/135= .5815E 01 SCAT30-130= .1550E-01

CH42/227 31164 0725H ST416 1-SURFACE

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	.6021E-03	-.7415E 01	.5129E 00	.1098E-03	.1969E-04	.8258E 02	.2239E 02
165	.6126E-03	-.7399E 01	.5287E 00	.1115E-03	.2001E-04	.8124E 02	.2204E 02
170	.6224E-03	-.7384E 01	.5446E 00	.1133E-03	.2032E-04	.8002E 02	.2169E 02
175	.6312E-03	-.7368E 01	.5603E 00	.1151E-03	.2065E-04	.7876E 02	.2135E 02
180	.6418E-03	-.7352E 01	.0000E 00	.0000E 00	.0000E 00	.7753E 02	.2102E 02

SCAT= .4972E-01 30/45= .2930E 01 45/136= .5886E 01 SCAT30-130= .1348E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1243E 01	.2173E 00	-.2914E 00	-.9685E 01	.0000E 00	.5108E-01	.7533E-02
5	.3976E 00	-.9225E 00	-.1492E 01	-.2937E 01	.7738E 02	.1590E 00	.2355E-01
10	.1419E 00	-.1957E 01	-.2292E 01	-.9799E 00	.2242E 02	.4490E 00	.6675E-01
15	.5079E-01	-.2980E 01	-.2660E 01	-.3589E 00	.7116E 01	.1133E 01	.1678E 00
20	.2447E-01	-.3710E 01	-.3222E 01	-.1438E 00	.2465E 01	.2593E 01	.3875E 00
25	.1199E-01	-.4429E 01	-.3448E 01	-.6377E-01	.9169E 00	.5421E 01	.7851E 00
30	.5560E-02	-.5058E 01	-.3805E 01	-.3234E-01	.3601E 00	.9974E 01	.1472E 01
35	.3590E-02	-.5644E 01	-.2571E 01	-.1170E-01	.7356E 00	.1793E 02	.7644E 01
40	.2810E-02	-.5987E 01	-.2370E 01	-.7007E-02	.5469E-01	.2528E 02	.3730E 01
45	.1099E-02	-.6267E 01	-.2308E 01	-.4029E-02	.2496E-01	.3842E 02	.4931E 01
50	.1477E-02	-.6510E 01	-.2658E 01	-.3788E-02	.1192E-01	.4295E 02	.6337E 01
55	.1147E-02	-.6771E 01	-.1608E 01	-.1716E-02	.2379E-01	.5534E 02	.8165E 01
60	.9860E-03	-.6911E 01	-.2293E 01	-.1916E-02	-.2291E-02	.6365E 02	.9391E 01
65	.8297E-03	-.7094E 01	-.1684E 01	-.1097E-02	.9301E-02	.7647E 02	.1128E 02
70	.7540E-03	-.7217E 01	-.1688E 01	-.9745E-03	.1978E-02	.8644E 02	.1275E 02
75	.6699E-03	-.7039E 01	-.1914E 01	-.6087E-03	.3618E-02	.9712E 02	.1433E 02
80	.6002E-03	-.7418E 01	-.6003E 00	-.2458E-03	.4159E-02	.1057E 03	.1560E 02
85	.5788E-03	-.7455E 01	-.9282E 00	-.1972E-03	.5568E-03	.1096E 03	.1618E 02
90	.5625E-03	-.7485E 01	-.3591E 00	-.1237E-03	.8424E-03	.1130E 03	.1667E 02
95	.5807E-03	-.7004E 01	.4790E 00	.1859E-03	.3205E-02	.1152E 03	.1700E 02
100	.5646E-03	-.7480E 01	-.5067E-01	-.1597E-04	-.1970E-02	.1124E 03	.1659E 02
105	.6080E-03	-.7402E 01	-.9416E 00	-.1017E-03	-.4028E-03	.1127E 03	.1663E 02
110	.5841E-03	-.7498E 01	-.3606E 00	-.1009E-03	.8466E-05	.1145E 03	.1690E 02
115	.5483E-03	-.7014E 01	.1309E 01	.3568E-03	.5246E-02	.1164E 03	.1717E 02
120	.5784E-03	-.7459E 01	.1348E 01	.3735E-03	.1913E-03	.1101E 03	.1624E 02
125	.6090E-03	-.7404E 01	.1764E 01	.4999E-03	.1448E-02	.1047E 03	.1597E 02
130	.6826E-03	-.7234E 01	.1794E 01	.5238E-03	.2736E-03	.9722E 02	.1434E 02
135	.6000E-03	-.7267E 01	.1601E 01	.4799E-03	-.5031E-03	.9086E 02	.1341E 02
140	.7402E-03	-.7209E 01	.1764E 01	.5415E-03	.7070E-03	.8572E 02	.1265E 02
145	.7878E-03	-.7147E 01	.1826E 01	.8761E-03	.3962E-03	.8057E 02	.1189E 02
150	.8378E-03	-.7085E 01	.1887E 01	.6129E-03	.4216E-03	.7574E 02	.1118E 02
155	.8812E-03	-.7023E 01	.1949E 01	.6820E-03	.4404E-03	.7119E 02	.1060E 02
160	.9401E-03	-.6961E 01	.2011E 01	.6937E-03	.4770E-03	.6692E 02	.9874E 01
165	.1000E-02	-.6899E 01	.2073E 01	.7300E-03	.5078E-03	.6291E 02	.9281E 01
170	.1070E-02	-.6837E 01	.2136E 01	.7851E-03	.5399E-03	.5913E 02	.8724E 01
175	.1142E-02	-.6779E 01	.2197E 01	.8352E-03	.5744E-03	.5558E 02	.8201E 01
180	.1214E-02	-.6713E 01	.0000E 00	.0000E 00	.0000E 00	.5225E 02	.7709E 01

SCAT= .6348E-01 30/45= .3380E 01 45/136= .2719E 01 SCAT30-130= .9382E-02

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.8607E-01	-.2453E 01	-.1696E 00	-.4781E 00	.0000E 00	.1897E 00	.6512E-01
5	.4434E-01	-.3116E 01	-.8904E 00	-.2340E 00	.2797E 01	.3683E 00	.1264E 00
10	.2392E-01	-.3733E 01	-.1409E 01	-.1193E 00	.1315E 01	.6827E 00	.2343E 00
15	.1364E-01	-.4304E 01	-.1826E 01	-.6326E-01	.6420E 00	.1209E 01	.4147E 00
20	.7992E-02	-.4829E 01	-.2146E 01	-.3487E-01	.3254E 00	.2043E 01	.7012E 00
25	.4849E-02	-.5309E 01	-.2348E 01	-.1975E-01	.1733E 00	.3300E 01	.1132E 01
30	.3226E-02	-.5737E 01	-.2786E 01	-.1291E-01	.7839E-01	.5063E 01	.1737E 01
35	.2099E-02	-.6166E 01	-.2282E 01	-.6320E-02	.7648E-01	.7779E 01	.2669E 01
40	.1848E-02	-.6471E 01	-.2504E 01	-.4530E-02	.2051E-01	.105[illegible]E 02	.3621E 01
45	.1159E-02	-.6760E 01	-.2608E 01	-.3174E-02	.1566E-01	.1417E 02	.4863E 01
50	.8766E-03	-.7041E 01	-.1806E 01	-.1587E-02	.1818E-01	.1865E 02	.6401E 01
55	.7971E-03	-.7213E 01	-.2632E 01	-.1729E-02	-.1628E-02	.2216E 02	.7603E 01
60	.5882E-03	-.7442E 01	-.1673E 01	-.8417E-03	.1017E-01	.2786E 02	.9560E 01
65	.5187E-03	-.7574E 01	-.1626E 01	-.6679E-03	.2001E-02	.3185E 02	.1093E 02
70	.4546E-03	-.7690E 01	-.2573E 01	-.8472E-03	-.2064E-02	.3593E 02	.1233E 02
75	[illegible]	-.7874E 01	-.9113E 00	-.2491E-03	.6863E-02	.4291E 02	.1472E 02
80	.3609E-03	-.7933E 01	-.3682E 00	-.9078E-04	.1914E-02	.4551E 02	.1562E 02
85	.3610E-03	-.7955E 01	-.1243E 01	-.2757E-03	-.2180E-02	.4653E 02	.1597E 02
90	.3269E-03	-.8026E 01	-.5989E 00	-.1194E-03	.1792E-02	.4998E 02	.1714E 02
95	.3106E-03	-.8058E 01	.1905E 01	.3723E-03	.5634E-02	.5160E 02	.1771E 02
100	.3490E-03	-.7961E 01	-.9193E-01	-.1790E-04	-.4471E-02	.4680E 02	.1606E 02
105	.3474E-03	-.7965E 01	-.1093E 00	-.2020E-04	-.2636E-04	.4701E 02	.1613E 02
110	.3456E-03	-.7970E 01	-.2840E 00	-.4949E-04	-.3380E-03	.4725E 02	.1621E 02
115	.3419E-03	-.7983E 01	.2389E 00	.3991E-04	.1027E-02	.4785E 02	.1642E 02
120	.3448E-03	-.7973E 01	.7249E 00	.1187E-03	.9028E-03	.4737E 02	.1625E 02
125	.3551E-03	-.7943E 01	.1798E 01	.2974E-03	.2048E-02	.4590E 02	.1578E 02
130	.3811E-03	-.7872E 01	.1256E 01	.2120E-03	-.9785E-03	.4285E 02	.1471E 02
135	.3906E-03	-.7829E 01	.8701E 00	.1486E-03	-.7269E-03	.4087E 02	.1402E 02
140	.4126E-03	-.7793E 01	.1104E 01	.2005E-03	.5953E-03	.3958E 02	.1358E 02
145	.4381E-03	-.7752E 01	.1225E 01	.2090E-03	.9749E-04	.3797E 02	.1309E 02
150	.4403E-03	-.7710E 01	.1267E 01	.2179E-03	.1016E-03	.3643E 02	.1250E 02
155	.4073E-03	-.9660E 01	.1309E 01	.2272E-03	.1059E-03	.3495E 02	.1199E 02
160	.4871E-03	-.7627E 01	.1350E 01	.2368E-03	.1104E-03	.3352E 02	.1150E 02
165	.5070E-03	-.7605E 01	.1392E 01	.2466E-03	.1151E-03	.3210E 02	.1104E 02
170	.5294E-03	-.7544E 01	.1433E 01	.2573E-03	.1200E-03	.3089E 02	.1059E 02
175	.5518E-03	-.7502E 01	.1475E 01	.2682E-03	.1251E-03	.2960E 02	.1016E 02
180	.5752E-03	-.7461E 01	.0000E 00	.0000E 00	.0000E 00	.2839E 02	.9743E 01

SCAT= .1639E-01 30/45= .2799E 01 45/135= .2884E 01 SCAT30-130= .5604E-02

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1409E 00	-.1918E 01	-.1822E 00	-.8679E 00	.0000E 00	.1587E 00	.4845E-01
5	.7204E-01	-.2631E 01	-.9536E 00	-.3993E 00	.5256E 01	.3236E 00	.9801E-01
10	.3720E-01	-.3292E 01	-.1503E 01	-.1945E 00	.2346E 01	.6266E 00	.1914E 00
15	.2028E-01	-.3901E 01	-.1990E 01	-.9907E-01	.1093E 01	.1153E 01	.3520E 00
20	.1158E-01	-.4459E 01	-.2268E 01	-.5269E-01	.5314E 00	.2013E 01	.6148E 00
25	.6900E-02	-.4965E 01	-.2663E 01	-.3076E-01	.2813E 00	.3340E 01	.1020E 01
30	.4290E-02	-.5450E 01	-.2662E 01	-.1667E-01	.1618E 00	.5427E 01	.1657E 01
35	.2041E-02	-.5804E 01	-.2376E 01	-.8690E-02	.9143E-01	.8206E 01	.2506E 01
40	.2082E-02	-.6174E 01	-.3236E 01	-.7561E-02	.1293E-01	.1119E 02	.3418E 01
45	.1422E-02	-.6559E 01	-.1088E 01	-.2441E-02	.8295E-04	.1639E 02	.5004E 01
50	.1160E-02	-.6754E 01	-.2148E 01	-.2473E-02	.5358E-02	.1999E 02	.6106E 01
55	.9000E-03	-.6959E 01	-.1739E 01	-.1529E-02	.1083E-01	.2454E 02	.7495E 01
60	.8105E-03	-.7110E 01	-.2982E 01	-.1987E-02	-.5247E-02	.2855E 02	.8718E 01
65	.6492E-03	-.7349E 01	-.2242E 01	-.1178E-02	.9038E-02	.3624E 02	.1107E 02
70	.5447E-03	-.7515E 01	-.1415E 01	-.5805E-03	.8277E-02	.4279E 02	.1307E 02
75	.4944E-03	-.7617E 01	-.1627E 01	-.9643E-03	.1052E-03	.4718E 02	.1441E 02
80	.4448E-03	-.7718E 01	-.6452E 00	-.1955E-03	.4226E-02	.5240E 02	.1600E 02
85	.4270E-03	-.7757E 01	-.1368E 01	-.3662E-03	-.1955E-02	.5449E 02	.1664E 02
90	.3968E-03	-.7839E 01	-.2101E 00	-.5123E-04	.3609E-02	.5889E 02	.1798E 02
95	.3921E-03	-.7840E 01	.3929E 00	.9120E-04	.1633E-02	.5956E 02	.1819E 02
100	.3998E-03	-.7826E 01	.4518E 00	.1020E-03	.1226E-03	.5838E 02	.1783E 02
105	.4002E-03	-.7804E 01	-.1396E 00	-.5070E-04	-.1615E-02	.5710E 02	.1744E 02
110	.4055E-03	-.7810E 01	-.9054E 00	-.1992E-03	-.1935E-02	.5747E 02	.1755E 02
115	.3002E-03	-.7854E 01	.1064E 01	.2060E-03	.4443E-02	.6005E 02	.1834E 02
120	.4061E-03	-.7809E 01	.1772E 01	.3492E-03	.1641E-02	.5739E 02	.1753E 02
125	.4900E-03	-.7736E 01	.1630E 01	.3320E-03	-.1975E-03	.6338E 02	.1630E 02
130	.4656E-03	-.7672E 01	.3657E 01	.6824E-03	.3671E-02	.5008E 02	.1529E 02
135	.5220E-03	-.7557E 01	.1426E 01	.3187E-03	-.3824E-02	.4461E 02	.1362E 02
140	.5609E-03	-.7585E 01	.2083E 01	.4782E-03	.1828E-02	.4235E 02	.1293E 02
145	.5924E-03	-.7432E 01	.2156E 01	.5145E-03	.4156E-03	.3937E 02	.1202E 02
150	.6970E-03	-.7359E 01	.2227E 01	.5535E-03	.4471E-03	.3659E 02	.1118E 02
155	.6060E-03	-.7286E 01	.2302E 01	.5955E-03	.4810E-03	.3401E 02	.1039E 02
160	.7572E-03	-.7213E 01	.2375E 01	.6406E-03	.5175E-03	.3162E 02	.9655E 01
165	.9994E-03	-.7140E 01	.2448E 01	.6892E-03	.5567E-03	.2839E 02	.8975E 01
170	.8839E-03	-.7066E 01	.2522E 01	.7415E-03	.5989E-03	.2732E 02	.8342E 01
175	.9100E-03	-.6993E 01	.2595E 01	.7977E-03	.6443E-03	.2539E 02	.7794E 01
180	.9876E-03	-.6920E 01	.0000E 00	.0000E 00	.0000E 00	.2360E 02	.7208E 01

SCAT= .2333E-01 30/45= .3020E 01 45/135= .2722E 01 SCAT30-130= .7118E-02

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2429E 00	-.1418E 01	-.1736E 00	-.1366E 01	.0000E 00	.1633E 00	.4962E-01
5	.1229E 00	-.2097E 01	-.9121E 00	-.6597E 00	.8118E 01	.3221E 00	.9784E-01
10	.6629E-01	-.2729E 01	-.1444E 01	-.3316E 00	.3760E 01	.6060E 00	.1841E 00
15	.3686E-01	-.3314E 01	-.1873E 01	-.1739E 00	.1815E 01	.1088E 01	.3306E 00
20	.2131E-01	-.3853E 01	-.2205E 01	-.9446E-01	.9060E 00	.1865E 01	.5666E 00
25	.1207E-01	-.4349E 01	-.2511E 01	-.5459E-01	.4569E 00	.3051E 01	.9267E 00
30	.8207E-02	-.4803E 01	-.2644E 01	-.3148E-01	.2649E 00	.4821E 01	.1465E 01
35	.5460E-02	-.5210E 01	-.2664E 01	-.1873E-01	.1461E 00	.7247E 01	.2202E 01
40	.3825E-02	-.5566E 01	-.2449E 01	-.1098E-01	.8874E-01	.1034E 02	.3142E 01
45	.2067E-02	-.5859E 01	-.2442E 01	-.7981E-02	.3440E-01	.1380E 02	.4193E 01
50	.2170E-02	-.6133E 01	-.2593E 01	-.5445E-02	.2906E-01	.1823E 02	.5538E 01
55	.1695E-02	-.6380E 01	-.2579E 01	-.3895E-02	.1776E-01	.2334E 02	.7091E 01
60	.1356E-02	-.6604E 01	-.2233E 01	-.2542E-02	.1550E-01	.2919E 02	.8869E 01
65	.1199E-02	-.6783E 01	-.2404E 01	-.2119E-02	.4849E-02	.3491E 02	.1061E 02
70	.9486E-03	-.6961E 01	-.2592E 01	-.1780E-02	.3088E-02	.4172E 02	.1267E 02
75	.7951E-03	-.7130E 01	-.1993E 01	-.1097E-02	.7026E-02	.4909E 02	.1616E 02
80	.6974E-03	-.7268E 01	-.1676E 01	-.7721E-03	.3723E-02	.5673E 02	.1724E 02
85	.6500E-03	-.7370E 01	-.1424E 01	-.8646E-03	.2378E-02	.6288E 02	.1908E 02
90	.5800E-03	-.7451E 01	-.1177E 01	-.4102E-03	.1769E-02	.6813E 02	.2070E 02
95	.5480E-03	-.7519E 01	-.4414E 00	-.1390E-03	.3099E-02	.7260E 02	.2206E 02
100	.5530E-03	-.7537E 01	-.4539E 00	-.1337E-03	.7011E-04	.7427E 02	.2256E 02
105	.6311E-03	-.7660E 01	-.7066E 00	-.1931E-03	-.8014E-03	.7593E 02	.2307E 02
110	.5043E-03	-.7592E 01	-.1109E 01	-.2779E-03	-.9715E-03	.7847E 02	.2384E 02
115	.4800E-03	-.7642E 01	.9836E 00	.2352E-03	.5970E-02	.8243E 02	.2504E 02
120	.5085E-03	-.7600E 01	-.2207E 00	-.5145E-04	-.3204E-02	.7905E 02	.2402E 02
125	.4900E-03	-.7609E 01	.3936E 00	.8843E-04	.1603E-02	.7977E 02	.2423E 02
130	.5058E-03	-.7593E 01	.1569E 01	.3822E-03	.1023E-02	.7855E 02	.2386E 02
135	.5045E-03	-.7534E 01	.1781E 00	.3914E-04	-.3507E-02	.7403E 02	.2249E 02
140	.5579E-03	-.7528E 01	.6310E 00	.1380E-03	.1139E-02	.7350E 02	.2235E 02
145	.5499E-03	-.7806E 01	.6531E 00	.1411E-03	.3530E-04	.7495E 02	.2186E 02
150	.5620E-03	-.7484E 01	.6752E 00	.1442E-03	.3620E-04	.7037E 02	.2138E 02
155	.5940E-03	-.7461E 01	.6974E 00	.1475E-03	.3701E-04	.6883E 02	.2091E 02
160	.5877E-03	-.7439E 01	.7195E 00	.1508E-03	.3783E-04	.6732E 02	.2045E 02
165	.6009E-03	-.7417E 01	.7417E 00	.1542E-03	.3864E-04	.6585E 02	.2000E 02
170	.6243E-03	-.7395E 01	.7638E 00	.1576E-03	.3954E-04	.6441E 02	.1957E 02
175	.6281E-03	-.7373E 01	.7860E 00	.1611E-03	.4044E-04	.6300E 02	.1914E 02
180	.6421E-03	-.7351E 01	.0000E 00	.0000E 00	.0000E 00	.6162E 02	.1872E 02

SCAT= .3967E-01 30/45= .2863E 01 45/135= .5364E 01 SCAT30-130= .1202E-01

CH42/232 31164 0910H ST416 0-400M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1029E 00	-.2280E 01	-.1791E 00	-.5901E 00	.0000E 00	.1721E 00	.9683E-01
5	.5077E-01	-.2981E 01	-.9363E 00	-.2777E 00	.3480E 01	.3464E 00	.1145E 00
10	.2669E-01	-.3629E 01	-.1474E 01	-.1368E 00	.1615E 01	.6638E 00	.2191E 00
15	.1400E-01	-.4227E 01	-.1090E 01	-.7039E-01	.7606E 00	.1206E 01	.3907E 00
20	.8489E-02	-.4779E 01	-.2718E 01	-.3781E-01	.3734E 00	.2083E 01	.6876E 00
25	.5169E-02	-.5260E 01	-.2430E 01	-.2119E-01	.1904E 00	.3418E 01	.1128E 01
30	.3304E-02	-.5713E 01	-.2760E 01	-.1312E-01	.9254E-01	.5329E 01	.1759E 01
35	.2199E-02	-.6130E 01	-.2291E 01	-.6621E-02	.7659E-01	.8194E 01	.2692E 01
40	.1590E-02	-.6444E 01	-.2574E 01	-.4766E-02	.7012E-01	.1107E 02	.3655E 01
45	.1174E-02	-.6747E 01	-.2352E 01	-.2853E-02	.7070E-04	.1499E 02	.4950E 01
50	.9164E-03	-.6995E 01	-.2480E 01	-.2210E-02	.8507E-02	.1921E 02	.6347E 01
55	.7235E-03	-.7231E 01	-.1945E 01	-.1291E-02	.1059E-01	.2433E 02	.8039E 01
60	.6109E-03	-.7401E 01	-.1736E 01	-.9082E-03	.4307E-02	.2882E 02	.9514E 01
65	.5516E-03	-.7640E 01	-.1794E 01	-.7685E-03	.1716E-02	.3311E 02	.1093E 02
70	.4654E-03	-.7673E 01	-.2445E 01	-.8280E-03	-.7961E-03	.3782E 02	.1249E 02
75	.4092E-03	-.7041E 01	-.8500E 00	-.2432E-03	.6700E-02	.4478E 02	.1478E 02
80	.3719E-03	-.7897E 01	-.2484E-01	-.6336E-05	.2719E-02	.4733E 02	.1563E 02
85	.3714E-03	-.7898E 01	-.5306E 00	-.1271E-03	-.1384E-02	.4740E 02	.1566E 02
90	.3609E-03	-.7929E 01	-.1726E 01	-.3680E-03	-.2760E-02	.4886E 02	.1613E 02
95	.3202E-03	-.8022E 01	.1037E 01	.3716E-03	.8479E-02	.5364E 02	.1771E 02
100	.3606E-03	-.7928E 01	.2872E 00	.5832E-04	-.3590E-02	.4887E 02	.1612E 02
105	.3457E-03	-.7914E 01	.1058E 01	.2114E-03	.1756E-02	.4014E 02	.1589E 02
110	.3042E-03	-.7864E 01	-.1220E 01	-.2324E-03	-.5086E-02	.4583E 02	.1513E 02
115	.3039E-03	-.7919E 01	.5036E 00	.9033E-04	.3698E-02	.4838E 02	.1547E 02
120	.3720E-03	-.7897E 01	.1104E 01	.1963E-03	.1215E-02	.4735E 02	.1563E 02
125	.3089E-03	-.7852E 01	.1194E 01	.2137E-03	.1904E-03	.4627E 02	.1494E 02
130	.4075E-03	-.7809E 01	.2956E 01	.6511E-03	.3867E-02	.4370E 02	.1476E 02
135	.4666E-03	-.7694E 01	.6607E 00	.1879E-03	-.4049E-02	.3864E 02	.1276E 02
140	.4608E-03	-.7670E 01	.1543E 01	.2977E-03	.1948E-02	.3771E 02	.1245E 02
145	.4920E-03	-.7615E 01	.1597E 01	.3142E-03	.1890E-03	.3573E 02	.1179E 02
150	.5202E-03	-.7861E 01	.1651E 01	.3317E-03	.2004E-03	.3384E 02	.1117E 02
155	.8491E-03	-.7807E 01	.1706E 01	.3502E-03	.2115E-03	.3206E 02	.1058E 02
160	.5797E-03	-.7453E 01	.1760E 01	.3696E-03	.2235E-03	.3037E 02	.1003E 02
165	.6120E-03	-.7900E 01	.1814E 01	.3902E-03	.2357E-03	.2877E 02	.9497E 01
170	.6460E-03	-.7349E 01	.1868E 01	.4119E-03	.2488E-03	.2725E 02	.8997E 01
175	.6030E-03	-.7291E 01	.1922E 01	.4348E-03	.2627E-03	.2581E 02	.8520E 01
180	.7199E-03	-.7236E 01	.0000E 00	.0000E 00	.0000E 00	.2445E 02	.8073E 01

SCAT= .1960E-01 30/45= .2814E 01 45/136= .2577E 01 SCAT30-130= .5812E-02

CH42/233 31164 0930N ST616 5-300M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1400E 00	-.1966E 01	-.1761E 00	-.7992E 00	.0C0CE 00	.1630E 00	.4967E-01
5	.7032E-01	-.2655E 01	-.9266E 00	-.3819E 00	.4771E 01	.3244E 00	.9857E-01
10	.3700E-01	-.3297E 01	-.1470E 01	-.1904E 00	.2194E 01	.6167E 00	.1670E 00
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
165	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
170	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
175	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
180	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SCAT= .2282E-01 30/45= .2491E 01 45/135= .3355E C1 SCAT30-130= .6717E-02

CH42/234 31164 0945N ST616 4-210M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1985E 00	-.1628E 01	-.1713E 00	-.1098E 01	.0CC0E 00	.1777E C0	.5640E-01
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
165	.1100E-02	-.6760E 01	.2050E 01	.8419E-03	.5740E-03	.3008E 02	.9644E 01
170	.1298E-02	-.6698E 01	.2119E 01	.8952E-03	.6112E-03	.2828E 02	.8978E 01
175	.1311E-02	-.6637E 01	.2181E 01	.9520E-03	.6499E-03	.2660E 02	.8443E 01
180	.1394E-02	-.6675E 01	.0000E 00	.0000E 00	.0000E 00	.2501E 02	.7940E 01

SCAT= .3480E-01 30/45= .2097E 01 45/135= .2853E 01 SCAT30-130= .1107E-01

CH42/235 31164 1005N ST616 3-100M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2689E 00	-.1359E 01	-.1636E 00	-.1391E 01	.0C00E 00	.1820E C0	.5756E-01
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
165	.6705E-03	-.7299E 01	.7155E 00	.1674E-03	.4052E-04	.6911E 02	.2106E 02
170	.6911E-03	-.7277E 01	.7369E 00	.1710E-03	.4141E-04	.6765E 02	.2139E 02
175	.7060E-03	-.7256E 01	.7582E 00	.1747E-03	.4230E-04	.6622E 02	.2094E 02
180	.7219E-03	-.7234E 01	.0000E 00	.0000E 00	.0000E 00	.6482E 02	.2050E 02

SCAT= .4675E-01 30/45= .2924E 01 45/135= .6003E 01 SCAT30-130= .1479E-01

CH42/236 31164 1025N ST616 2-60M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3492E 00	-.1052E 01	-.1845E 00	-.2057E 01	.0000E 00	.1391E 00	.3759E-01
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
165	[illegible]	-.7351E 01	.8582E 00	.1903F-03	.5497E-04	.7561E 02	.2044E 02
170	.6609E-03	-.7325E 01	.8808E 00	.1952E-03	.5639F-04	.7371E 02	.1993E 02
175	.6789E-03	-.7299E 01	.9063E 00	.2003E-03	.5786E-04	.7185E 02	.1942E 02
180	.6934E-03	-.7274E 01	.0000E 00	.C000E 00	.00C0E 00	.7004E 02	.1893F 02

SCAT= .4856E-01 30/45= .3045F 01 45/135= .5451E 01 SCAT30-130= .1313F-01

CH42/237 31164 1040N ST616 10-1000M REPEAT

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1125E 00	-.2187E 01	-.1756E 00	-.6390E 00	.0CC0F 00	.1785E 00	.5974E-01
5	.5449E-01	-.2874E 01	-.9179E 00	-.3047E 00	.3831F 01	.3540E 00	.1187F 00
10	.2490E-01	-.3510E 01	-.1444F 01	-.1519E 00	.1751E 01	.6700E 00	.2243E 00
15	.1604E-01	-.4090E 01	-.1860E 01	-.7904E-01	.8346E 00	.1203E 01	.4029F 00
20	.9747E-02	-.4631E 01	-.2172E 01	-.4270E-01	.4142E 00	.2055E 01	.6880E 00
25	.6089E-02	-.5115E 01	-.2579E 01	-.2581E-01	.1958E 00	.3557E 01	.1117F 01
30	.3751E-02	-.5586E 01	-.2428E 01	-.1342E-01	.1419E 00	.5340E 01	.1788E 01
35	.2680E-02	-.5960E 01	-.2615E 01	-.8714E-02	.5396E-01	.7764E 01	.2590F 01
40	.1819E-02	-.6309E 01	-.2474E 01	-.5270E-02	.3947E-01	.1101E 02	.3686F 01
45	.1360E-02	-.6601E 01	-.2109E 01	-.3170E-02	.2406F-01	.1473E 02	.4932F 01
50	.1089E-02	-.6824E 01	-.2317E 01	-.2459E-02	.8142E-02	.1850E 02	.6192E 01
55	.8089E-03	-.7049E 01	-.1906E 01	-.1570E-02	.1076E-01	.2307E 02	.7722F 01
60	.7357E-03	-.7215E 01	-.1932E 01	-.1208E-02	.3686E-02	.2723E 02	.9115F 01
65	.6303E-03	-.7369E 01	-.1525E 01	-.7717E-03	.4994E-02	.3178E 02	.1064F 02
70	.5629E-03	-.7482E 01	-.2579E 01	-.1052E-02	-.3207E-02	.3558E 02	.1191E 02
75	.4718E-03	-.7660E 01	-.1303E 01	-.4611E-03	.6786E-02	.4251E 02	.1423F 02
80	.4309E-03	-.7750E 01	-.1242E 01	-.3983E-03	.1179F-02	.4648E 02	.1556E 02
85	.3997E-03	-.7825E 01	-.4098E 00	-.1060E-03	.2090E-02	.5012E 02	.1678F 02
90	.3904E-03	-.7848E 01	-.4608E 00	-.1101E-03	-.4656E-04	.5131E 02	.1718E 02
95	.3888E-03	-.7873E 01	.3609E 00	.8335E-04	.2217E-02	.5268E 02	.1761F 02
100	.3801E-03	-.7854E 01	.8873E 00	.1967E-03	.1299E-02	.5162E 02	.1728F 02
105	.4052E-03	-.7811E 01	-.2878E 00	-.6177E-04	-.2968E-02	.4943E 02	.1668F 02
110	.3999E-03	-.7824E 01	-.4404E 00	-.8892E-04	-.3100E-03	.5010E 02	.1677E 02
115	.3931E-03	-.7844E 01	.6148E 00	.1191E-03	.2382E-02	.5109E 02	.1710E 02
120	.4026E-03	-.7818E 01	.2161E 01	.4254E-03	.3810F-02	.4977E 02	.1666E 02
125	.4398E-03	-.7730E 01	.3893E 00	.7751E-04	-.3986E-02	.4557E 02	.1525E 02
130	.4464E-03	-.7714E 01	.2367E 01	.4781E-03	.4890E-02	.4487E 02	.1502E 02
135	.4881E-03	-.7625E 01	.1172E 01	.2436E-03	-.2087E-02	.4104E 02	.1374E 02
140	.5094E-03	-.7582E 01	.1543E 01	.3247E-03	.9290F-03	.3933E 02	.1316E 02
145	.5377E-03	-.7528E 01	.1599E 01	.3428E-03	.2070E-03	.3725E 02	.1247F 02
150	.5676E-03	-.7474E 01	.1651E 01	.3618E-03	.2185F-03	.3529E 02	.1181E 02
155	.5992E-03	-.7420E 01	.1708E 01	.3819E-03	.2306E-03	.3343E 02	.1119F 02
160	.6326E-03	-.7366E 01	.1759E 01	.4032E-03	.2418E-03	.3167E 02	.1060F 02
165	.6677E-03	-.7312E 01	.1813E 01	.4256E-03	.2870E-03	.3000E 02	.1004F 02
170	.7048E-03	-.7258E 01	.1868E 01	.4493E-03	.2713E-03	.2842E 02	.9514F 01
175	.7440E-03	-.7203E 01	.1922E 01	.4743E-03	.2864E-03	.2692E 02	.9012F 01
180	.7854E-03	-.7149E 01	.0000E 00	.0000E 00	.0CC0E 00	.255CE 02	.8538E 01

SCAT= .2003E-01 30/45= .2769E 01 45/135= .2785E 01 SCAT30-130= .6706E-02

CH42/238 31164 1410N ST617 34 57.5N 67 4.2W PIPE

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3690E 00	-.9969E 00	-.1819E 00	-.2153E 01	.C000E 0C	.1435E 00	.3960F-01
5	.1871E 00	-.1708E 01	-.9557E 00	-.1005E 01	.1415E 02	.2924E 00	.8067F-01
10	.9343E-01	-.2371E 01	-.1511E 01	-.4904E 00	.5098F 01	.5670E 0C	.1564F 00
15	.5065E-01	-.2983E 01	-.1960F 01	-.2498E 00	.2757F 01	.1040E 01	.2866F 00
20	.2889E-01	-.3547E 01	-.2303E 01	-.1327E 00	.1342E 01	.1838E 01	.5069E 00
25	.1724E-01	-.4060E 01	-.2632F 01	-.7550E-01	.8579E 00	.3072E 01	.8474F 00
30	.1067E-01	-.4540E 01	-.2815E 01	[illegible]	.3695E 00	.4963E 01	.1369E 01
35	.6915E-02	-.4974E 01	-.2609E 01	-.2390F-01	.2195F 00	.7646E 01	.2118F 01
40	.4829E-02	-.5333E 01	-.2640E 01	-.1479F-01	.1C44F 00	.1097E 02	.3026F 01
45	.3630E-02	-.5644E 01	-.2740E 01	-.1010E-01	.5377E-01	.1497E 02	.4130F 01
50	.2657E-02	-.5939F 01	-.2679E 01	-.6861E-02	.37C7E-01	.1993E C2	.5499F 01
55	.2059E-02	-.6186E 01	-.2478E 01	-.4566E-02	.7630E-01	.2573E C2	.7098F 01
60	.1680E-02	-.6401E 01	-.2685E 01	-.3678E-02	.1C17E-01	.3191E 02	.8802F 01
65	.1359E-02	-.6610E 01	-.2394F 01	-.2428E-02	.1433E-01	.3955E 02	.1091F 02
70	.1137E-02	-.6788E 01	-.2480E 01	-.2032E-02	.4539F-02	.4699E 02	.1296F 02
75	.9800E-03	-.6959E 01	-.2517E 01	-.1512E-02	.5956E-02	.5576E 02	.1538E 02
80	.8180E-03	-.7109E 01	-.2017E 01	-.1079E-02	.4959F-02	.6475E 02	.1786E 02
85	.7289E-03	-.7231E 01	-.1799E 01	-.8107E-03	.3076E-02	.7317E 02	.2019F 02
90	.6631E-03	-.7334E 01	-.1123E 01	-.4409E-03	.4278E-02	.8110E 02	.2237F 02
95	.6146E-03	-.7394E 01	-.4854E 00	-.1732E-03	.3067F-02	.8618E 02	.2377E 02
100	.5995E-03	-.7419E 01	.2199E 00	.7409E-04	.2834E-02	.8835E 02	.2437E 02
105	.6000E-03	-.7409E 01	-.6474E 00	-.2060E-03	-.3710E-02	.8741E 02	.2411F 02
110	.5880E-03	-.7439E 01	-.1046E 01	-.3060E-03	-.1146E-02	.9008E 02	.2485E 02
115	.5619E-03	-.7485E 01	-.3482E 00	-.9662E-04	.2428E-02	.9437E 02	.2603F 02
120	.5630E-03	-.7500E 01	-.2377E 00	-.6170E-04	.3829E-03	.9577E 02	.2642E 02
125	.5479E-03	-.7510E 01	.5944E 00	.1480E-03	.2398E-02	.9671E 02	.2668F 02
130	.5606E-03	-.7486E 01	.1586E 01	.3962E-03	.2844E-02	.9448E 02	.2606E 02
135	.5862E-03	-.7427E 01	-.3965E 00	-.9765E-04	-.5658E-02	.8899E 02	.2486F 02
140	.5867E-03	-.7441E 01	.3729E 0C	.8856E-04	.2134E-02	.9028F 02	.2491E 02
145	.5944E-03	-.7428E 01	.3860E 00	.8971E-04	.1356E-04	.8911E 02	.2458E 02
150	.6022E-03	-.7415E 01	.3990E 00	.9089E-04	.1354E-04	.8795E 02	.2426E 02
155	.6102E-03	-.7402E 01	.4121E 00	.9209E-04	.1372E-04	.8681E 02	.2395E 02
160	.6182E-03	-.7389E 01	.4252E 00	.9330E-04	.1390E-04	.8568E 02	.2364F 02
165	[illegible]	-.7376F 01	.4303E 00	.9453E-04	.1408E-04	.8457E 02	.2333E 02
170	.6346E-03	-.7363E 01	.4514E 00	.9578E-04	.1427E-04	.8347E 02	.2303E 02
175	.6430E-03	-.7349E 01	.4645F 00	.9704E-04	.1446E-04	.8238E 02	.2273E 02
180	.6514E-03	-.7336E 01	.CC00E 00	.C000E 00	.0000F 00	.8131E 02	.2243E 02

SCAT= .5297E-01 30/45= .3016E 01 45/136= .5845E 01 SCAT30-130= .1461F-01

CH42/239 31164 1450N ST617 1-SURFACE

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2959E 00	-.1218E 01	-.1716E 00	-.1658E 01	.0000E 00	.1644E 00	.4870F-01
5	.1512E 00	-.1889F 01	-.9040E 00	-.8068E 00	.9754F 01	.3218E 00	.9550E-01
10	.8081E-01	-.2516E 01	-.1435E 01	-.4085F 00	.4564F 01	.6071E 00	.1783E 00
15	.4516E-01	-.3098E 01	-.1867E 01	-.2151E 00	.2217E 01	.1077E 01	.3191F 00
20	.2639E-01	-.3639E 01	-.2207E 01	-.1176E 00	.1117E 01	.1844E 01	.5460E 00
25	.1819E-01	-.4127E 01	-.2522E 01	-.6812E-01	.5871E 00	.3017E 01	.8935F 00
30	.1018E-01	-.4587E 01	-.2850E 01	-.4149E-01	.3051E C0	.4778E 01	.1415E 01
35	.6584E-02	-.5026E 01	-.2406E 01	-.2066E-01	.2387E 00	.7414E 01	.2196E 01
40	.4780E-02	-.5347E 01	-.2766E 01	-.1517E-01	.6297E-01	.1022E 02	.3027F 01
45	.3437E-02	-.5673E 01	-.2664E 01	-.9619E-02	.6336E-01	[illegible]	.4198F 01
50	.2595E-02	-.5956E 01	-.2731E 01	-.6816E-02	.3235E-01	.1875E 02	.5552E 01
55	.2001E-02	-.6214E 01	-.2373E 01	-.4278E-02	.2908F-01	.2432E 02	.7203E 01
60	.1627E-02	-.6421E 01	-.2635E 01	-.3546E-02	.8384E-02	.2990E 02	.8855E 01
65	.1318E-02	-.6632E 01	-.2739E 01	-.2774E-02	.8846F-02	.3692E 02	.1093E 02
70	.1076E-02	-.6835E 01	-.2189E 01	-.1728E-02	.1199E-01	.4523E 02	.1339E 02
75	.9261E-03	-.6980E 01	-.2689E 01	-.1689E-02	.4486F-03	.5260E 02	.1558E 02
80	.7776F-03	-.7159F 01	-.6692F 00	-.3543E-03	.1830E-01	.6257E 02	.1853F 02
85	.7467E-03	-.7200E 01	-.1614E 01	-.7539E-03	-.4680E-02	.6516E 02	.1930E 02
90	.6809E-03	-.7292E 01	-.8459E 00	-.3488E-03	.4647E-02	.7146E 02	.2116E 02
95	.6595E-03	-.7330E 01	-.7805F 00	-.2925E-03	.6464E-03	.7486E 02	.2215E 02
100	.6250E-03	-.7378E 01	.6596E 00	.2342E-03	.6036E-02	.7786E 02	.2306F 02
105	.6454E-03	-.7346E 01	-.1057E 01	-.3849E-03	-.6754E-02	.7639E 02	.2233E 02
110	.6144E-03	-.7395E 01	-.8330E 00	-.2560E-03	.1124E-02	.7919E 02	.2345E 02
115	.5921E-03	-.7432F 01	-.4133F-01	-.1192E-04	.2798F-02	.8218E 02	.2434F 02
120	.5911E-03	-.7434E 01	.1366E 01	.3885E-03	.4588F-02	.8233E 02	.2438F 02
125	.6258E-03	-.7378E 01	-.3077E 00	-.8590E-04	-.5494E-02	.7786E 02	.2306E 02
130	.6175E-03	-.7390E 01	.3441E 01	.9813E-03	.1223E-01	.7881E 02	.2334E 02
135	.7061E-03	-.7260E 01	-.3090E-01	-.9050E-05	-.1135F-01	.6921E 02	.2060E 02
140	.7025E-03	-.7261E 01	.1104E 01	.3178E-03	.3746E-02	.6929E 02	.2052F 02
145	.7300E-03	-.7222E 01	.1142E 01	.3303F-03	.1430E-03	.6665E 02	.1974E 02
150	.7589E-03	-.7184E 01	.1181E 01	.3434E-03	.1495E-03	.6412E 02	.1899E 07
155	.7888E-03	-.7145F 01	.1220E 01	.3569E-03	.1554E-03	.6169E 02	.1827E 02
160	.8200E-03	-.7106F 01	.1259E 01	.3710E-03	.1618E-03	.5934E 02	.1757E 02
165	.8524E-03	-.7067E 01	.1297F 01	.3857E-03	.1679F-03	.5709E 02	.1691E 02
170	.8860E-03	-.7029E 01	.1336E 01	.4009E-03	.1748E-03	.5492E 02	.1626E 02
175	.9210E-03	-.6990E 01	.1375E 01	.4168E-03	.1814E-03	.5283E 02	.1565E 02
180	.9574E-03	-.6951E 01	.0000E 00	.0000E 00	.0000E 00	.5083E 02	.1505E 02

SCAT= .4866E-01 30/45= .2964E 01 45/136= .4888E 01 SCAT30-130= .1441F-01

CH42/240 31164 1505N ST617 5-300M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3228E 00	-.1131E 01	-.1926E 00	-.1956E 01	.C000E 00	[illegible]	.3592E-01
5	.1610E 00	-.1805E 01	-.1006E 01	-.8736E 00	.1244F 02	.2802E 00	.7631E-01
10	.7801E-01	-.2582E 01	-.1581E 01	-.4101E 00	.5312E 01	.5627E 00	.1532F 00
15	.3902E-01	-.3229E 01	-.2033E 01	-.2021E 00	.2383E 01	.1040E 01	.2909E 00
20	.2219E-01	-.3808E 01	-.2370E 01	-.1044E 00	.1119F 01	.1917E 01	.5222E 00
25	.1388E-01	-.4337E 01	-.2700E 01	-.6825E-01	.5208F 0C	.3254E 01	.8861E 00
30	.7492E-02	-.4829E 01	-.2801E 01	-.3212E-01	.2995E 00	.5323E 01	[illegible]
35	.5190E-02	-.5261F 01	-.2570E 01	-.1727E-01	.1701F 00	.8198E 01	.2233E 01
40	.3682E-02	-.5604F 01	-.2770E 01	-.1175E-01	.6331E-01	.1155E 02	.3147E 01
45	.2657E-02	-.5931E 01	-.2928E 01	-.6614E-02	.5888E-04	.1601E 02	.4361E 01
50	.2080E-02	-.6175E 01	-.2562E 01	-.5164E-02	.1862E-01	.2045E 02	.5571E 01
55	.1629E-02	-.6420E 01	-.2945E 01	-.4220E-02	.1082F-01	.2611E 02	.7112E 01
60	.1281E-02	-.6674E 01	-.2953E 01	-.3042E-02	.1350E-01	.3374E 02	.9189E 01
65	.9885E-03	-.6912E 01	-.1148E 01	-.9304E-03	.2420E-01	.4274E 02	.1164E 02
70	.9149E-03	-.6997E 01	-.1918E 01	-.1299E-02	-.4221E-02	.4653E 07	.1267E C2
75	.8009E-03	-.7130E 01	-.2456E 01	-.1345E-02	-.5314E-03	.5912E 02	.1447E 02
80	.6836E-03	-.7288E 01	-.2059E 01	-.9193E-03	.4880E-02	.6224E 02	.1695E 02
85	.6035E-03	-.7413E 01	-.5765E 00	-.2237E-03	.7970E-02	.7051E 02	.1920E 02
90	.5838E-03	-.7446F 01	-.8855E 00	-.3128E-03	-.1020E-02	.7287E 02	.1985F 02
95	.5605E-03	-.7494E 01	-.7509E 00	-.2410E-03	.8229E-03	.7644E 02	.2082E 02
100	.5358E-03	-.7632E 01	-.5019E 00	-.1485E-03	.1060E-02	.7945E 02	.2164E 02
105	.5225E-03	-.7557E 01	-.1046E 01	-.2849E-03	-.1859E-02	.8142E 02	.2217E 02
110	.4977E-03	-.7605E 01	.8252E-01	.2096E-04	.3600E-02	.8548E 07	.2328F 02
115	.4990E-03	-.7602E 01	.1099E 01	.4019E-03	.5281E-02	.8510E 02	.2319E 02
120	.5418E-03	-.7521E 01	-.5430E 00	-.1361E-03	-.7081E-02	.7859E 02	.2139E 02
125	.5207E-03	-.7563E 01	-.2656E 00	-.6290E-04	.8985E-03	.8031E 02	.2187E 02
130	.5242E-03	-.7554E 01	.2767E 01	.6612E-03	.8297E-02	.8115E 02	.2210E 02
135	.5829E-03	-.7449E 01	-.4022E-01	-.9748E-05	-.7888E-02	.7311E 02	.1991E 02
140	.5811E-03	-.7451E 01	.7770E 00	.1841E-03	.2221E-02	.7321E 07	.1994E 02
145	.5971E-03	-.7429E 01	.8043E 00	.1891E-03	.3880E-04	.7124E 02	.1940E 02
150	.6136E-03	-.7396E 01	.8316E 00	.1944E-03	.5092E-04	.6933E 07	.1888E 02
155	.6306E-03	-.7369F 01	.8588E 00	.1997E-03	.6156F-04	.6748E 02	.1837E 02
160	.6480E-03	-.7342E 01	.8861E 00	.2053E-03	.6327E-04	.6569E 02	.1788E 02
165	.6660E-03	-.7314E 01	.9134E 00	.2109E-03	.6502E-04	.6390E 02	.1740E 02
170	.6844E-03	-.7287E 01	.9406E 00	.2168E-03	.6682E-04	.6218E 02	.1693E 02
175	.7033E-03	-.7260E 01	.9679E 00	.2228E-03	.6866E-04	.6049E 02	.1647E 07
180	.7237E-03	-.7232E 01	.0000E 00	.0000E 00	.0000E 00	.5886E 02	.1603E 02

SCAT= .4284E-01 30/45= .3008E 01 45/136= .4546E 01 SCAT30-130= .1159E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1289E 00	-.2049E 01	-.1885E 00	-.7702E 00	.0000F 00	.1497E 00	.4625E-01
5	.6106E-01	-.2786E 01	-.9828E 00	-.3490E 00	.4827E 01	.3128E 00	.9666E-01
10	.3119E-01	-.3468E 01	-.1542E 01	-.1661E 00	.2095E 01	.6183E 00	.1911F 00
15	.1689E-01	-.4099E 01	-.1970E 01	-.8301E-01	.9576E 00	.1159E 01	.3670E 00
20	.9449E-02	-.4662E 01	-.2299E 01	-.4345E-01	.4533F 00	.2041E 01	.6307E 00
25	.5857E-02	-.5179E 01	-.2605E 01	-.2451E-01	.2171E C0	.3409E C1	.1053F 01
30	.3618E-02	-.5650E 01	-.2580E 01	-.1373E-01	.1297E 00	.5481E C1	.1694F 01
35	.2584E-02	-.6047E 01	-.2661E 01	-.8161F-02	.5880F-01	.8159E 01	.2621E 01
40	.1657E-02	-.6403E C1	-.2431E 01	-.4727E-02	.3866F-01	.1164E 02	.3597F 01
45	.1264E-02	-.6684E 01	-.2248E 01	-.3008E-02	.1568E-01	.1550E 02	.4788F 01
50	.9819E-03	-.6926E 01	-.2247E 01	-.2169E-02	.9614F-02	.1964E 07	.6070F 01
55	.7925F-03	-.7140E 01	-.2008E 01	-.1456E-02	.8175E-02	.2433E 02	.7520E 01
60	.6659E-03	-.7315E 01	-.2192E 01	-.1227E-02	.2670E-02	.2898E 02	.8955F 01
65	.5584E-03	-.7490E 01	-.1938E 01	-.8559E-03	.4256F-02	.3454E 07	.1067E 02
70	.4837E-03	-.7634E 01	-.2740E 01	-.9546E-03	-.1130E-02	.3987E 07	.1232E 02
75	.4006E-03	-.7823E 01	-.1154E 01	-.3294E-03	.7164E-02	.4817E 07	.1488E 02
80	.3716E-03	-.7898E 01	-.8361E 00	-.2102E-03	.1365E-02	.5189E 02	.1604F 02
85	.3539E-03	-.7948E 01	-.1592E 01	-.3522E-03	-.1627F-02	.5459E 02	.1687E 02
90	.3228E-03	-.8039F 01	.6731E 00	.1370E-03	.5606E-02	.5979E 02	.1848F 02
95	.3345E-03	-.8003E 01	.1252E 00	.2449E-04	-.1287E-02	.5765E 02	.1782E 02
100	.3367E-03	-.7998E 01	.7926E 00	.1571E-03	.1460F-02	.5728E 02	.1770F 02
105	.3499E-03	-.7958E 01	-.1338E 00	-.2479E-04	-.2027E-02	.5511F 02	.1703E 02
110	.3478E-03	-.7964E 01	-.1290E 01	-.2226E-03	-.2260E-02	.5545E 02	.1714E 02
115	.3284E-03	-.8021E 01	.1088E 01	.1775E-03	.4579E-02	.5873E 02	.1815E 02
120	.3439E-03	-.7975E 01	.4867E 00	.7907E-04	-.1128F-02	.5608E 07	.1733E 02
125	.3508E-03	-.7955E 01	.8644E 00	.1346E-03	.8824F-03	.5498E 02	.1699F 02
130	.3629E-03	-.7921E 01	.2712E 01	.4481E-03	.3546E-02	.5314E 02	.1642E 02
135	.4020E-03	-.7819E 01	.5568F 00	.9076E-04	-.4095E-02	.4797E 02	.1483E 02
140	.4099E-03	-.7800E 01	.1305E 01	.2202E-03	.1483F-02	.4705E 02	.1454F 02
145	.4291E-03	-.7754E 01	.1351E 01	.2305E-03	.1188F-03	.4494E 02	.1389F 02
150	.4492E-03	-.7708E 01	.1397F 01	.2413E-03	.1238E-03	.4293E 02	.1327E 02
155	.4703E-03	-.7662E 01	.1443F 01	.2526E-03	.1296E-03	.4101E 02	.1267F 02
160	.4925E-03	-.7618E 01	.1489E 01	.2645E-03	.1357E-03	.3917E 02	.1210F 02
165	.5156E-03	-.7571E 01	.1535E 01	.2769E-03	.1421E-03	.3742E 02	.1156E 02
170	.5396E-03	-.7525E 01	.1580E 01	.2898E-03	.1487F-03	.3574E 02	.1104E 02
175	.5649E-03	-.7479E 01	.1626E 01	.3034E-03	.1557E-03	.3414E 02	.1055E 02
180	.5914E-03	-.7433E 01	.0000E 00	.0000E 00	.0000E 00	.3261E 02	.1008E 02

SCAT= .1929E-01 30/45= .2827E 01 45/135= .3096E 01 SCAT30-130= .5960E-02

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2581E 00	-.1435E 01	-.1512E 00	-.1218E 01	.0000E 00	.2050E 00	.6652E-01
5	.1910E 00	-.2026E 01	-.8046E 00	-.6459E 00	.6696E 01	.3702E 00	.1202E 00
10	.7846E-01	-.2584E 01	-.1293E 01	-.3529E 00	.3357E 01	.6467E 00	.2099E 00
15	.4407E-01	-.3109E 01	-.1709E 01	-.1906E 00	.1768E 01	.1093E 01	.3546E 00
20	.2734E-01	-.3599E 01	-.2050E 01	-.1150E 00	.9575E 00	.1785E 01	.5794E 00
25	.1750E-01	-.4057E 01	-.2322E 01	-.6843E-01	.5399E 00	.2821E 01	.9156E 00
30	.1139E-01	-.4480E 01	-.2665E 01	-.4374E-01	.2829E 00	.4308E 01	.1398E 01
35	.7812E-02	-.4891E 01	-.2575E 01	-.2505E-01	.2149E 00	.6497E 01	.2109E 01
40	.5326E-02	-.5235E 01	-.2708E 01	-.1667E-01	.9605E-01	.9163E 01	.2974E 01
45	.3872E-02	-.5554E 01	-.2916E 01	-.1174E-01	.5640E-01	.1260E 02	.4091E 01
50	.2848E-02	-.5861E 01	-.2355E 01	-.6560E-02	.5932E-01	.1714E 02	.5562E 01
55	.2279E-02	-.6088E 01	-.2663E 01	-.5355E-02	.1381E-01	.2145E 02	.6962E 01
60	.1808E-02	-.6318E 01	-.2621E 01	-.3920E-02	.1645E-01	.2700E 02	.8762E 01
65	.1466E-02	-.6525E 01	-.2417E 01	-.2755E-02	.1336E-01	.3330E 02	.1081E 02
70	.1225E-02	-.6705E 01	-.2214E 01	-.1989E-02	.8772E-02	.3983E 02	.1293E 02
75	.1082E-02	-.6859E 01	-.2087E 01	-.2049E-02	-.8854E-03	.4640E 02	.1506E 02
80	.8730E-03	-.7044E 01	-.1932E 01	-.1106E-02	.1081E-01	.5591E 02	.1814E 02
85	.7765E-03	-.7161E 01	-.1419E 01	-.6437E-03	.4726E-02	.6285E 02	.2040E 02
90	.7160E-03	-.7242E 01	-.1643E 01	-.6975E-03	-.4862E-04	.6816E 02	.2212E 02
95	.6851E-03	-.7831E 01	.1951E 00	.7552E-04	.8850E-02	.7450E 02	.2418E 02
100	.6617E-03	-.7321E 01	-.1111E 01	-.4072E-03	-.5531E-02	.7378E 02	.2394E 02
105	.6202E-03	-.7370E 01	-.1403E 00	-.4934E-04	.4101E-02	.7796E 02	.2530E 02
110	.6219E-03	-.7383E 01	-.1667E 01	-.5089E-03	-.5266E-02	.7848E 02	.2547E 02
115	.5779E-03	-.7457E 01	.7634E-01	.2153E-04	.6070E-02	.8452E 02	.2743E 02
120	.5793E-03	-.7454E 01	.2381E 00	.6463E-04	.4962E-03	.8424E 02	.2734E 02
125	.5850E-03	-.7444E 01	.9671E 00	.2591E-03	.2227E-02	.8343E 02	.2708E 02
130	.6076E-03	-.7406E 01	.1000E 01	.2679E-03	.1006E-03	.8032E 02	.2607E 02
135	.6310E-03	-.7368E 01	.3106E 00	.8215E-04	-.7129E-02	.7736E 02	.2510E 02
140	.6382E-03	-.7357E 01	.6409E 00	.1663E-03	.9647E-03	.7648E 02	.2482E 02
145	.6627E-03	-.7334E 01	.6634E 00	.1701E-03	.4339E-04	.7478E 02	.2427E 02
150	.6675E-03	-.7312E 01	.6859E 00	.1740E-03	.4434E-04	.7311E 02	.2373E 02
155	.6827E-03	-.7289E 01	.7084E 00	.1779E-03	.4838E-04	.7149E 02	.2320E 02
160	.6982E-03	-.7267E 01	.7309E 00	.1870E-03	.4630E-04	.6990E 02	.2268E 02
165	.7142E-03	-.7244E 01	.7534E 00	.1861E-03	.4744E-04	.6834E 02	.2218E 02
170	.7304E-03	-.7222E 01	.7759E 00	.1904E-03	.4851E-04	.6682E 02	.2169E 02
175	.7470E-03	-.7199E 01	.7984E 00	.1947E-03	.4962E-04	.6534E 02	.2120E 02
180	.7640E-03	-.7177E 01	.0000E 00	.0000E 00	.0000E 00	.6388E 02	.2073E 02

SCAT= .4880E-01 30/45= .2926E 01 45/135= .4136E 01 SCAT30-130= .1584E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3400E 00	-.1050E 01	-.1446E 00	-.1723E 01	.0000E 00	.2175E 00	.7190E-01
5	.1976E 00	-.1621E 01	-.7735E 00	-.9399E 00	.8972E 01	.3830E 00	.1266E 00
10	.1156E 00	-.2157E 01	-.1249E 01	-.5266E 00	.4736E 01	.6547E 00	.2164E 00
15	.6909E-01	-.2604E 01	-.1650E 01	-.3029E 00	.2564E 01	.1087E 01	.3592E 00
20	.4326E-01	-.3141E 01	-.2005E 01	-.1707E 00	.1427E 01	.1751E 01	.5787E 00
25	.2704E-01	-.3589E 01	-.2328E 01	-.1096E 00	.7828E 00	.2739E 01	.9053E 00
30	.1808E-01	-.4013E 01	-.2519E 01	-.6665E-01	.4916E 00	.4187E 01	.1384E 01
35	.1226E-01	-.4401E 01	-.2530E 01	-.4020E-01	.3078E 00	.6174E 01	.2041E 01
40	.8747E-02	-.4739E 01	-.3157E 01	-.3113E-01	.1048E 00	.8655E 01	.2861E 01
45	.6080E-02	-.5111E 01	-.2542E 01	-.1674E-01	.1706E 00	.1256E 02	.4149E 01
50	.4613E-02	-.5379E 01	-.2540E 01	-.1137E-01	.5581E-01	.1641E 02	.5424E 01
55	.3621E-02	-.5621E 01	-.2878E 01	-.9144E-02	.2490E-01	.2090E 02	.6910E 01
60	.2819E-02	-.5871E 01	-.2496E 01	-.5849E-02	.3832E-01	.2685E 02	.8876E 01
65	.2309E-02	-.6071E 01	-.2801E 01	-.4959E-02	.1020E-01	.3279E 02	.1084E 02
70	.1876E-02	-.6279E 01	-.2001E 01	-.2875E-02	.2388E-01	.4036E 02	.1334E 02
75	.1628E-02	-.6422E 01	-.2220E 01	-.2494E-02	.4366E-02	.4659E 02	.1540E 02
80	.1407E-02	-.6566E 01	-.1939E 01	-.1709E-02	.8084E-02	.5379E 02	.1778E 02
85	.1251E-02	-.6684E 01	-.1778E 01	-.1335E-02	.4672E-02	.6050E 02	.2000E 02
90	.1130E-02	-.6785E 01	-.2228E 01	-.1470E-02	-.9664E-03	.6698E 02	.2214E 02
95	.1002E-02	-.6906E 01	-.9597E 00	-.5515E-03	.1092E-01	.7555E 02	.2497E 02
100	.9639E-03	-.6959E 01	-.8382E 00	-.4388E-03	.1301E-02	.7936E 02	.2623E 02
105	.9364E-03	-.6990E 01	-.1381E 00	-.6766E-04	.4244E-02	.8267E 02	.2733E 02
110	.9097E-03	-.7002E 01	-.5988E 00	-.2738E-03	-.2362E-02	.8321E 02	.2750E 02
115	.8868E-03	-.7029E 01	-.4203E 00	[illegible]	.1076E-02	.8645E 02	.2876E 02
120	.8781E-03	-.7047E 01	-.7198E 00	[illegible]	-.1246E-02	.8700E 02	.2876E 02
125	.8449E-03	-.7070E 01	.2033E-01	[illegible]	.3678E-02	.8959E 02	.2961E 02
130	.8477E-03	-.7073E 01	.7774E 00	.2892E-03	.2951E-02	.8930E 02	.2952E 02
135	.8730E-03	-.7044E 01	-.6991E 00	-.2511E-03	-.8190E-02	.8672E 02	.2866E 02
140	.8510E-03	-.7069E 01	-.1579E 00	-.5389E-04	.2260E-02	.8895E 02	.2940E 02
145	.8409E-03	-.7079E 01	-.1635E 00	-.5360E-04	.3414E-05	.8944E 02	.2957E 02
150	.8417E-03	-.7080E 01	-.1690E 00	-.5330E-04	.3401E-05	.8994E 02	.2973E 02
155	.8370E-03	-.7088E 01	-.1745E 00	-.5301E-04	.3370E-05	.9044E 02	.2989E 02
160	.8324E-03	-.7091E 01	-.1801E 00	-.5271E-04	.3368E-05	.9094E 02	.3006E 02
165	.8279E-03	-.7097E 01	-.1856E 00	-.5242E-04	.3338E-05	.9145E 02	.3024E 02
170	.8232E-03	-.7102E 01	-.1912E 00	-.5213E-04	.3326E-05	.9196E 02	.3040E 02
175	.8187E-03	-.7108E 01	-.1967E 00	-.5184E-04	.3296E-05	.9247E 02	.3056E 02
180	.8141E-03	-.7113E 01	.0000E 00	.0000E 00	.0000E 00	.9298E 02	.3073E 02

SCAT= .7570E-01 30/45= .2998E 01 45/135= .6908E 01 SCAT30-130= .2502E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.4834E 00	-.7693E 00	-.2240E 00	-.3099E 01	.0000E 00	.1021E 00	.2640E-01
5	.1929E 00	-.1645E 01	-.1180E 01	-.1220E 01	.2155E 02	.2451E 00	.6342E-01
10	.8647E-01	-.2448E 01	-.1798E 01	-.5128E 00	.8103E 01	.5470E 00	.1415E 00
15	.4172E-01	-.3177E 01	-.2277E 01	-.2298E 00	.3043E 01	.1134E 01	.2933E 00
20	.2167E-01	-.3832E 01	-.2606E 01	-.1095E 00	.1378E 01	.2183E 01	.5647E 00
25	.1281E-01	-.4413E 01	-.2831E 01	-.6596E-01	.6137E 00	.3904E 01	.1010E 01
30	.7230E-02	-.4929E 01	-.2966E 01	-.3040E-01	.2924E 00	.6541E 01	.1692E 01
35	.4677E-02	-.5387E 01	-.2610E 01	-.1540E-01	.1710E 00	.1033E 02	.2673E 01
40	.3227E-02	-.5736E 01	-.2331E 01	-.8879E-02	.7561E-01	.1466E 02	.3792E 01
45	.2482E-02	-.6011E 01	-.2295E 01	-.6938E-02	.3370E-01	.1929E 02	.4990E 01
50	.1934E-02	-.6248E 01	-.2137E 01	-.4083E-02	.2179E-01	.2446E 02	.6327E 01
55	.1677E-02	-.6452E 01	-.1912E 01	-.2770E-02	.1504E-01	.2998E 02	.7756E 01
60	.1334E-02	-.6619E 01	-.2230E 01	-.2510E-02	.2980E-02	.3541E 02	.9160E 01
65	.1117E-02	-.6797E 01	-.2124E 01	-.1864E-02	.7410E-02	.4235E 02	.1096E 02
70	.9640E-03	-.6955E 01	-.1199E 01	-.8678E-03	.1141E-01	.4957E 02	.1282E 02
75	.8708E-03	-.7030E 01	-.1360E 01	-.8459E-03	.2516E-03	.5305E 02	.1398E 02
80	.8044E-03	-.7129E 01	-.2424E 00	-.1345E-03	.8152E-02	.5879E 02	.1521E 02
85	.7927E-03	-.7140E 01	-.1121E 01	-.5636E-03	-.4918E-02	.5968E 02	.1543E 02
90	.7435E-03	-.7204E 01	-.5421E 00	-.2461E-03	.3638E-02	.6361E 02	.1646E 02
95	.7220E-03	-.7233E 01	.3456E 00	.1480E-03	.4816E-02	.6550E 02	.1694E 02
100	.7350E-03	-.7216E 01	-.5283E 00	-.2383E-03	-.4426E-02	.6435E 02	.1665E 02
105	.7242E-03	-.7244E 01	-.1620E 00	-.8146E-04	.2026E-02	.6622E 02	.1713E 02
110	.7088E-03	-.7252E 01	.1114E 01	.4125E-03	.5431E-02	.6672E 02	.1726E 02
115	.7448E-03	-.7202E 01	.7985E 00	.2950E-03	-.1346E-02	.6350E 02	.1643E 02
120	.7705E-03	-.7168E 01	.1070E 01	.3944E-03	.1139E-02	.6138E 02	.1588E 02
125	.8080E-03	-.7125E 01	.1630E 01	.6091E-03	.2460E-02	.5875E 02	.1520E 02
130	.8581E-03	-.7061E 01	.7075E 00	.2661E-03	-.3930E-02	.5511E 02	.1426E 02
135	.8819E-03	-.7034E 01	.1390E 01	.6236E-03	.2961E-02	.5366E 02	.1388E 02
140	.9270E-03	-.6984E 01	.1264E 01	.4875E-03	-.4705E-03	.5102E 02	.1320E 02
145	.9691E-03	-.6939E 01	.1310E 01	.5044E-03	.2512E-03	.4880E 02	.1262E 02
150	.1013E-02	-.6895E 01	.1355E 01	.5273E-03	.2626E-03	.4660E 02	.1208E 02
155	.1059E-02	-.6850E 01	.1399E 01	.5513E-03	.2748E-03	.4465E 02	.1155E 02
160	.1107E-02	-.6806E 01	.1444E 01	.5763E-03	.2870E-03	.4271E 02	.1105E 02
165	.1158E-02	-.6761E 01	.1488E 01	.6025E-03	.3000E-03	.4086E 02	.1057E 02
170	.1210E-02	-.6717E 01	.1532E 01	.6299E-03	.3136E-03	.3908E 02	.1011E 02
175	.1265E-02	-.6673E 01	.1577E 01	.6585E-03	.3278E-03	.3738E 02	.9671E 01
180	.1323E-02	-.6628E 01	.0000E 00	.0000E 00	.0000E 00	.3578E 02	.9251E 01

SCAT= .4729E-01 30/45= .2949E 01 45/135= .2782E 01 SCAT30-130= .1273E-01

CH42/248 31164 ST617 4-210M 1950M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1241E 00	-.2087E 01	-.1485E 00	-.6264E 00	.0000E 00	.2276E 00	.7901E-01
5	.6948E-01	-.2666E 01	-.7896E 00	-.3352E 00	.3337E 01	.4069E 00	.1413E 00
10	.4014E-01	-.3215E 01	-.1267E 01	-.1849E 00	.1723E 01	.7035E 00	.2442E 00
15	.2402E-01	-.3729E 01	-.1609E 01	-.1049E 00	.9158E 00	.1176E 01	.4081E 00
20	.1486E-01	-.4209E 01	-.2001E 01	-.6132E-01	.4998E 00	.1901E 01	.6597E 00
25	.9507E-02	-.4656E 01	-.2356E 01	-.3805E-01	.2648E 00	.2970E 01	.1031E 01
30	.6107E-02	-.5089E 01	-.2405E 01	-.2196E-01	.1843E 00	.4664E 01	.1584E 01
35	.4271E-02	-.5456E 01	-.3074E 01	-.1640E-01	.6207E-01	.6612E 01	.2295E 01
40	.2839E-02	-.5864E 01	-.1813E 01	-.6243E-02	.1179E 00	.9960E 01	.3460E 01
45	.2280E-02	-.6088E 01	-.3344E 01	-.7787E-02	-.1769E-01	.1234E 02	.4284E 01
50	.1609E-02	-.6432E 01	-.2174E 01	-.3449E-02	.4971E-01	.1758E 02	.6094E 01
55	.1300E-02	-.6640E 01	-.2390E 01	-.2822E-02	.7182E-02	.2160E 02	.7496E 01
60	.1061E-02	-.6848E 01	-.2596E 01	-.2281E-02	.6208E-02	.2661E 02	.9236E 01
65	.8625E-03	-.7056E 01	-.2887E 01	-.1885E-02	.4831E-02	.3275E 02	.1137E 02
70	.6977E-03	-.7268E 01	-.1362E 01	-.7122E-03	.1364E-01	.4047E 02	.1405E 02
75	.6960E-03	-.7396E 01	-.1507E 01	-.6749E-03	.4274E-03	.4443E 02	.1542E 02
80	.5767E-03	-.7458E 01	-.1964E 01	-.7473E-03	-.7724E-03	.4897E 02	.1700E 02
85	.5219E-03	-.7577E 01	-.2066E 00	-.6650E-04	.7722E-02	.5517E 02	.1915E 02
90	.5059E-03	-.7589E 01	.1516E 01	.4952E-03	.8459E-02	.5582E 02	.1937E 02
95	.5401E-03	-.7507E 01	-.9934E 00	-.3126E-03	-.9256E-02	.5143E 02	.1786E 02
100	.5210E-03	-.7598E 01	-.1551E 01	-.4359E-03	-.1413E-02	.5411E 02	.1878E 02
105	.4898E-03	-.7624E 01	.8536E-01	.2206E-04	.6248E-02	.6037E 02	.2096E 02
110	.4857E-03	-.7630E 01	-.2122E 00	-.5225E-04	-.8515E-03	.5814E 02	.2018E 02
115	.4812E-03	-.7639E 01	.2143E 01	.5269E-03	.8637E-02	.6069E 02	.2097E 02
120	.5271E-03	-.7548E 01	.1030E 01	.2894E-03	-.3061E-02	.5557E 02	.1860E 02
125	.5490E-03	-.7508E 01	.7281E 00	.1025E-03	-.8817E-03	.5137E 02	.1783E 02
130	.5867E-03	-.7477E 01	.1549E 01	.3903E-03	.2382E-02	.4992E 02	.1733E 02
135	.6088E-03	-.7430E 01	.1931E 01	.3936E-03	.3778E-04	.4708E 02	.1634E 02
140	.6341E-03	-.7363E 01	.1456E 01	.3810E-03	-.1444E-03	.4453E 02	.1546E 02
145	.6674E-03	-.7312E 01	.1508E 01	.4010E-03	.2290E-03	.4232E 02	.1469E 02
150	.7024E-03	-.7261E 01	.1559E 01	.4220E-03	.2410E-03	.4021E 02	.1396E 02
155	.7392E-03	-.7210E 01	.1610E 01	.4442E-03	.2536E-03	.3820E 02	.1326E 02
160	.7780E-03	-.7159E 01	.1661E 01	.4675E-03	.2669E-03	.3630E 02	.1260E 02
165	.8188E-03	-.7108E 01	.1712E 01	.4920E-03	.2809E-03	.3449E 02	.1197E 02
170	.8617E-03	-.7057E 01	.1763E 01	.5178E-03	.2956E-03	.3277E 02	.1138E 02
175	.9069E-03	-.7006E 01	.1814E 01	.5449E-03	.3111E-03	.3114E 02	.1081E 02
180	.9544E-03	-.6954E 01	.0000E 00	.0000E 00	.0000E 00	.2959E 02	.1027E 02

SCAT= .2824E-01 30/45= .2704E 01 45/135= .3815E 01 SCAT30-130= .9802E-02

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1794E 00	-.1718E 01	-.1799E 00	-.1039E 01	.0000E 00	.1648E 00	.5307E-01
5	.8879E-01	-.2421E 01	-.9411E 00	-.4875E 00	.6310E 01	.3330E 00	.1072E 00
10	.4624E-01	-.3074E 01	-.1482E 01	-.2394E 00	.2843E 01	.6393E 00	.2058E 00
15	.2550E-01	-.3679E 01	-.1911E 01	-.1229E 00	.1358E 01	.1160E 01	.3734E 00
20	.1403E-01	-.4225E 01	-.2234E 01	-.6501E-01	.6538E 00	.2021E 01	.6503E 00
25	.8888E-02	[illegible]	-.2480E 01	-.3705E-01	.3296E 00	.3327E 01	.1071E 01
30	.5655E-02	-.5175E 01	-.2761E 01	-.2246E-01	.1672E 00	.5229E 01	.1683E 01
35	.3698E-02	-.5601E 01	-.2336E 01	-.1134E-01	.1274E 00	.8002E 01	.2576E 01
40	.2705E-02	-.5913E 01	-.2643E 01	-.8291E-02	.3493E-01	.1093E 02	.3517E 01
45	.1980E-02	-.6224E 01	-.2340E 01	-.4971E-02	.3800E-01	.1492E 02	.4801E 01
50	.1548E-02	-.6471E 01	-.1802E 01	-.2789E-02	.2490E-01	.1910E 02	.6147E 01
55	.1304E-02	-.6643E 01	-.2625E 01	-.3050E-02	-.2079E-02	.2268E 02	.7299E 01
60	.1037E-02	-.6871E 01	-.2236E 01	-.1949E-02	.1263E-01	.2850E 02	.9171E 01
65	.8674E-03	-.7050E 01	-.2326E 01	-.1574E-02	.4287E-02	.3408E 02	.1097E 02
70	.7301E-03	-.7222E 01	-.1376E 01	-.7870E-03	.9361E-02	.4050E 02	.1303E 02
75	.6640E-03	-.7317E 01	-.1532E 01	-.6821E-03	.1046E-02	.4453E 02	.1409E 02
80	.6007E-03	-.7402E 01	-.1269E 01	-.5174E-03	.1200E-02	.4849E 02	.1560E 02
85	.5646E-03	-.7479E 01	-.1001E 01	-.3597E-03	.1807E-02	.5237E 02	.1685E 02
90	.5552E-03	-.7497E 01	.1102E 00	.3651E-04	.4840E-02	.5545E 02	.1785E 02
95	.5304E-03	-.7531E 01	.1724E 00	.6460E-04	.2079E-03	.5512E 02	.1776E 02
100	.5411E-03	-.7522E 01	-.3124E 00	-.9380E-04	-.1700E-02	.5404E 02	.1758E 02
105	.5300E-03	-.7553E 01	.2970E 00	.8519E-04	.2085E-02	.5540E 02	.1798E 02
110	.5404E-03	-.7523E 01	.3026E 00	.1042E-03	.2409E-03	.5471E 02	.1761E 02
115	.5407E-03	-.7580E 01	.2733E 00	.8019E-04	-.9278E-03	.5379E 02	.1731E 02
120	.5644E-03	-.7497E 01	.8385E 00	.2214E-03	.1848E-02	.5378E 02	.1715E 02
125	.5768E-03	-.7467E 01	.8040E 00	.2108E-03	-.1017E-03	.5149E 02	.1657E 02
130	.5926E-03	-.7431E 01	.1949E 01	.5184E-03	.3924E-02	.4989E 02	.1606E 02
135	.6079E-03	-.7405E 01	.4404E 00	.1056E-03	-.4801E-02	.4638E 02	.1492E 02
140	.6488E-03	-.7340E 01	.1038E 01	.2751E-03	.1713E-02	.4657E 02	.1466E 02
145	.6720E-03	-.7304E 01	.1072E 01	.2853E-03	.1167E-03	.4394E 02	.1414E 02
150	.6977E-03	-.7268E 01	.1108E 01	.2958E-03	.1210E-03	.4237E 02	.1364E 02
155	.7236E-03	-.7231E 01	.1144E 01	.3068E-03	.1254E-03	.4088E 02	.1315E 02
160	.7509E-03	-.7195E 01	.1181E 01	.3181E-03	.1301E-03	.3940E 02	.1268E 02
165	.7781E-03	-.7159E 01	.1217E 01	.3299E-03	.1349E-03	.3800E 02	.1223E 02
170	.8089E-03	-.7122E 01	.1253E 01	.3421E-03	.1399E-03	.3664E 02	.1179E 02
175	.8389E-03	-.7086E 01	.1290E 01	.3548E-03	.1450E-03	.3534E 02	.1137E 02
180	.8677E-03	-.7050E 01	.0000E 00	.0000E 00	.0000E 00	.3407E 02	.1097E 02

SCAT= .2957E-01 30/45= .2884E 01 45/135= .3167E 01 SCAT30-130= .9515E-02

CH42/248 31164 2110M ST618 96 9M 67 39W PIPE SURFACE

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2888E 00	-.1242E 01	-.1784E 00	-.1643E 01	.0000E 00	.1527E 00	.4254E-01
5	.1456E 00	-.1928E 01	-.9264E 00	-.7099E 00	.9774E 01	.3032E 00	.8449E-01
10	.7686E-01	-.2570E 01	-.1476E 01	-.3950E 00	.4675E 01	.5762E 00	.1605E 00
15	.4200E-01	-.3160E 01	-.1920E 01	-.2053E 00	.2174E 01	.1048E 01	.2920E 00
20	.2426E-01	-.3723E 01	-.2290E 01	-.1108E 00	.1083E 01	.1825E 01	.5085E 00
25	.1449E-01	-.4234E 01	-.2617E 01	-.6302E-01	.5473E 00	.3043E 01	.8477E 00
30	.8995E-02	-.4711E 01	-.2025E 01	-.3639E-01	.3052E 00	.4903E 01	.1366E 01
35	.5820E-02	-.5147E 01	-.2833E 01	-.2101E-01	.1762E 00	.7579E 01	.2111E 01
40	.3986E-02	-.5529E 01	-.2796E 01	-.1282E-01	.9385E-01	.1106E 02	.3082E 01
45	.2800E-02	-.5854E 01	-.2984E 01	-.8712E-02	.4704E-01	.1538E 02	.4284E 01
50	.2108E-02	-.6162E 01	-.2433E 01	-.4999E-02	.4265E-01	.2093E 02	.5830E 01
55	.1671E-02	-.6394E 01	-.2851E 01	-.4710E-02	.4844E-02	.2639E 02	.7351E 01
60	.1304E-02	-.6642E 01	-.2259E 01	-.2472E-02	.1991E-01	.3387E 02	.9423E 01
65	.1088E-02	-.6823E 01	-.2720E 01	-.1892E-02	.8640E-02	.4051E 02	.1129E 02
70	.9232E-03	-.6988E 01	-.2442E 01	-.1640E-02	.2883E-02	.4778E 02	.1331E 02
75	.7800E-03	-.7150E 01	-.1954E 01	-.1057E-02	.6682E-02	.5654E 02	.1575E 02
80	.6870E-03	-.7282E 01	-.1840E 01	-.8371E-03	.2580E-02	.6413E 02	.1787E 02
85	.6151E-03	-.7394E 01	-.1152E 01	-.4491E-03	.4309E-02	.7170E 02	.1997E 02
90	.5769E-03	-.7459E 01	-.6310E 00	-.2217E-03	.2606E-02	.7650E 02	.2139E 02
95	.5606E-03	-.7494E 01	-.4329E 00	-.1481E-03	.9349E-03	.7924E 02	.2207E 02
100	.5444E-03	-.7516E 01	-.1576E 00	-.4779E-04	.1057E-02	.8102E 02	.2257E 02
105	.5402E-03	-.7524E 01	-.2400E 00	-.7412E-04	-.3018E-03	.8164E 02	.2274E 02
110	.5397E-03	-.7536E 01	-.3161E 00	-.8834E-04	-.1286E-03	.8263E 02	.2302E 02
115	.5209E-03	-.7560E 01	.8721E 00	.2281E-03	.3694E-02	.8388E 02	.2336E 02
120	.5462E-03	-.7513E 01	-.1410E 00	-.3693E-04	-.3076E-02	.8075E 02	.2250E 02
125	.5491E-03	-.7510E 01	.5948E 00	.1468E-03	.2094E-02	.8127E 02	.2263E 02
130	.5559E-03	-.7495E 01	.1220E 01	.3001E-03	.1757E-02	.7934E 02	.2210E 02
135	.5081E-03	-.7444E 01	.3040E 00	.7434E-04	-.2607E-02	.7677E 02	.2111E 02
140	.5806E-03	-.7430E 01	.6739E 00	.1493E-03	.8588E-03	.7494E 02	.2088E 02
145	.6010E-03	-.7416E 01	.6454E 00	.1826E-03	.3787E-04	.7332E 02	.2042E 02
150	.6149E-03	-.7394E 01	.6677E 00	.1860E-03	.3871E-04	.7173E 02	.1998E 02
155	.6285E-03	-.7372E 01	.6896E 00	.1594E-03	.3956E-04	.7017E 02	.1955E 02
160	.6424E-03	-.7350E 01	.7118E 00	.1630E-03	.4045E-04	.6868E 02	.1913E 02
165	.6566E-03	-.7328E 01	.7334E 00	.1666E-03	.4134E-04	.6717E 02	.1871E 02
170	.6712E-03	-.7306E 01	.7583E 00	.1703E-03	.4225E-04	.6571E 02	.1831E 02
175	.6860E-03	-.7285E 01	.7772E 00	.1740E-03	.4319E-04	.6429E 02	.1791E 02
180	.7012E-03	-.7263E 01	.0000E 00	.0000E 00	.0000E 00	.6290E 02	.1752E 02

SCAT= .4411E-01 30/45= .3136E 01 45/135= .4927E 01 SCAT30-130= .1229E-01

CH42/248 31164 1610M ST617 8-600M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2381E 00	-.1435E 01	-.1607E 00	-.1273E 01	.0000E 00	.1864E 00	.5909E-01
5	.1270E 00	-.2064E 01	-.8510E 00	-.6485E 00	.7159E 01	.3494E 00	.1107E 00
10	.7041E-01	-.2653E 01	-.1360E 01	-.3419E 00	.3513E 01	.6303E 00	.1998E 00
15	.4059E-01	-.3205E 01	-.1709E 01	-.1865E 00	.1701E 01	.1094E 01	.3468E 00
20	.2430E-01	-.3717E 01	-.2124E 01	-.1051E 00	.9322E 00	.1826E 01	.5790E 00
25	.1513E-01	-.4191E 01	-.2413E 01	-.6171E-01	[illegible]	.2933E 01	.9301E 00
30	.9743E-02	-.4631E 01	-.2771E 01	-.3882E-01	.2623E 00	.4555E 01	.1444E 01
35	.6356E-02	-.5059E 01	-.2603E 01	-.2318E-01	.1998E 00	.6982E 01	.2214E 01
40	.4490E-02	-.5406E 01	-.2474E 01	-.1301E-01	.9601E-01	.9884E 01	.3134E 01
45	.3005E-02	-.5697E 01	-.3043E 01	-.1055E-01	.2019E-01	.1373E 02	.4194E 01
50	.2435E-02	-.6018E 01	-.1980E 01	-.4798E-02	.6587E-01	.1823E 02	.5779E 01
55	.2010E-02	-.6287E 01	-.3024E 01	-.5345E-02	-.6264E-02	.2201E 02	.6980E 01
60	.1560E-02	-.6470E 01	-.2374E 01	-.3073E-02	.2609E-01	.2864E 02	.9080E 01
65	.1281E-02	-.6660E 01	-.2246E 01	-.2260E-02	.9311E-02	.3463E 02	[illegible]
70	.1084E-02	-.6827E 01	-.1919E 01	-.1540E-02	.8250E-02	.4094E 02	.1798E 02
75	.9497E-03	-.6959E 01	-.2692E 01	-.1712E-02	-.1966E-02	.4673E 02	.1482E 02
80	.8008E-03	-.7131E 01	-.7947E 00	-.4101E-03	.1492E-01	.5545E 02	.1758E 02
85	.7645E-03	-.7176E 01	-.2155E 01	-.1015E-02	-.6934E-02	.6005E 02	.1840E 02
90	.6759E-03	-.7299E 01	-.9000E 00	-.3679E-03	.7419E-02	.6560E 02	.2082E 02
95	.6490E-03	-.7340E 01	.1333E 00	.5060E-04	.4795E-02	.6893E 02	.2186E 02
100	.6402E-03	-.7341E 01	-.8009E 00	-.2875E-03	-.3874E-02	.6846E 02	.2171E 02
105	.6251E-03	-.7381E 01	-.1033E 01	-.3450E-03	-.5446E-03	.7122E 02	.2258E 02
110	.5939E-03	-.7429E 01	-.7080E 00	-.2108E-03	.1428E-02	.7672E 02	.2369E 02
115	.5795E-03	-.7400E 01	-.1694E 00	-.4718E-04	.1073E-02	.7711E 02	.2446E 02
120	.5714E-03	-.7467E 01	.6174E 00	.1671E-03	.2458E-02	.7767E 02	.2463E 02
125	.5869E-03	-.7442E 01	.8368E 00	.2240E-03	.6519E-03	.7574E 02	.2401E 02
130	.6066E-03	-.7409E 01	.1507E 00	.3956E-04	-.2114E-02	.7329E 02	.2324E 02
135	.6089E-03	-.7404E 01	.9423E 00	.1390E-03	.1149E-02	.7280E 02	.2311E 02
140	.6211E-03	-.7384E 01	.4873E 00	.1277E-03	-.1064E-03	.7145E 02	.2265E 02
145	.6318E-03	-.7367E 01	.5044E 00	.1249E-03	.2426E-04	.7024E 02	.2227E 02
150	.6427E-03	-.7350E 01	.5215E 00	.1270E-03	.2466E-04	.6905E 02	.2189E 02
155	.6530E-03	-.7333E 01	.5386E 00	.1292E-03	.2510E-04	.6788E 02	.2152E 02
160	.6640E-03	-.7316E 01	.5557E 00	.1314E-03	.2553E-04	.6673E 02	.2116E 02
165	.6705E-03	-.7299E 01	.5728E 00	.1337E-03	.2598E-04	.6560E 02	.2080E 02
170	.6882E-03	-.7281E 01	.5899E 00	.1360E-03	.2642E-04	.6449E 02	.2045E 02
175	.7000E-03	-.7264E 01	.6070E 00	.1383E-03	.2687E-04	.6339E 02	.2010E 02
180	.7121E-03	-.7247E 01	.0000E 00	.0000E 00	.0000E 00	.6232E 02	.1976E 02

SCAT= .4438E-01 30/45= .2904E 01 45/135= .5509E 01 SCAT30-130= .1407E-01

CH42/247 31164 ST617 2-60M 1650M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1679E 00	-.1840E 01	-.1696E 00	-.8777E 00	.0000E 00	.1746E 00	.5749E-01
5	.8136E-01	-.2509E 01	-.8917E 00	-.4208E 00	.5133E 01	.3447E 00	.1116E 00
10	.4306E-01	-.3127E 01	-.1412E 01	-.2191E 00	.2414E 01	.6432E 00	.2071E 00
15	.2499E-01	-.3700E 01	-.1859E 01	-.1161E 00	.1179E 01	.1140E 01	.3671E 00
20	.1460E-01	-.4227E 01	-.2159E 01	-.6396E-01	.5979E 00	.1932E 01	.6270E 00
25	.9016E-02	-.4709E 01	-.2429E 01	-.3496E-01	.3094E 00	.3128E 01	.1007E 01
30	.5790E-02	-.5152E 01	-.2838E 01	-.2351E-01	.1642E 00	.4871E 01	.1568E 01
35	.3739E-02	-.5589E 01	-.2106E 01	-.1085E-01	.1451E 00	.7543E 01	.2429E 01
40	.2792E-02	-.5881E 01	-.2742E 01	-.9831E-02	.7311E-01	.1010E 02	.3252E 01
45	.2021E-02	-.6204E 01	-.2400E 01	-.5368E-02	.3464E-01	.1395E 02	.4492E 01
50	.1653E-02	-.6448E 01	-.2764E 01	-.4122E-02	.1427E-01	.1816E 02	.5847E 01
55	.1199E-02	-.6731E 01	-.1557E 01	-.1727E-02	.2744E-01	.2363E 02	.7609E 01
60	.1049E-02	-.6860E 01	-.2614E 01	-.2256E-02	-.6056E-02	.2705E 02	.8709E 01
65	.8407E-03	-.7079E 01	-.2505E 01	-.1690E-02	.6488E-02	.3335E 02	.1074E 02
70	.6909E-03	-.7267E 01	-.1645E 01	-.8584E-03	.9626E-02	.4039E 02	.1300E 02
75	.6095E-03	-.7399E 01	-.2260E 01	-.9693E-03	-.1971E-02	.4924E 02	.1467E 02
80	.5400E-03	-.7526E 01	-.9589E 00	-.3487E-03	.7117E-02	.5235E 02	.1685E 02
85	.5000E-03	-.7604E 01	-.1168E 01	-.3761E-03	-.3149E-03	.5548E 02	.1786E 02
90	.4780E-03	-.7651E 01	-.6493E 00	-.1880E-03	.2156E-02	.5931E 02	.1910E 02
95	.4691E-03	-.7660E 01	.4650E 00	.1272E-03	.3617E-02	.6143E 02	.1978E 02
100	.4702E-03	-.7662E 01	-.8557E-01	-.2245E-04	-.1715E-02	[illegible]	.1991E 02
105	.4602E-03	-.7667E 01	.7560E-01	.1430E-04	.4771E-03	.6073E 02	.1980E 02
110	.4696E-03	-.7664E 01	-.8061E 00	-.1894E-03	-.2335E-02	.6007E 02	.1934E 02
115	.4550E-03	-.7700E 01	.7001E 00	.1670E-03	.3969E-02	.6226E 02	.2008E 02
120	.4687E-03	-.7670E 01	.1649E 01	.3724E-03	.2469E-02	.6043E 02	.1946E 02
125	.4992E-03	-.7603E 01	.2509E 00	.5792E-04	-.3604E-02	.5650E 02	.1819E 02
130	.5042E-03	-.7592E 01	.1283E 01	.2866E-03	.2621E-02	.5543E 02	.1801E 02
135	.5202E-03	-.7564E 01	.1107E 01	.2493E-03	-.4207E-04	.5320E 02	.1716E 02
140	.5610E-03	-.7504E 01	.1107E 01	.2602E-03	.1034E-04	.5118E 02	.1648E 02
145	.5720E-03	-.7465E 01	.1146E 01	.2601E-03	.1136E-03	.4929E 02	.1606E 02
150	.5986E-03	-.7426E 01	.1186E 01	.2704E-03	.1181E-03	.4736E 02	.1525E 02
155	.6191E-03	-.7387E 01	.1224E 01	.2811E-03	.1227E-03	.4595E 02	.1467E 02
160	.6436E-03	-.7340E 01	.1263E 01	.2922E-03	.1276E-03	.4387E 02	.1411E 02
165	.6691E-03	-.7310E 01	.1302E 01	.3030E-03	.1327E-03	.4219E 02	.1357E 02
170	.6957E-03	-.7271E 01	.1340E 01	.3150E-03	.1379E-03	.4054E 02	.1305E 02
175	.7232E-03	-.7232E 01	.1379E 01	.3201E-03	.1434E-03	.3899E 02	.1256E 02
180	.7619E-03	-.7193E 01	.0000E 00	.0000E 00	.0000E 00	.3751E 02	.1208E 02

SCAT= .2020E-01 30/45= .2864E 01 45/135= .3819E 01 SCAT30-130= .9080E-02

CH42/290 31164 2150M ST618 1-SURFACE

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2608E 00	-.1321E 01	[illegible]	-.1549E 01	.0000E 00	.1495E 00	.4262E-01
5	.1317E 00	-.2027E 01	-.9476E 00	-.7260E 00	.9410E 01	.3027E 00	.8633E-01
10	.6830E-01	-.2684E 01	-.1499E 01	-.3565E 00	.4244E 01	.5838E 00	.1665E 00
15	.3719E-01	-.3292E 01	-.1948E 01	-.1875E 00	.1994E 01	.1072E 01	.3067E 00
20	.2127E-01	-.3850E 01	-.2284E 01	-.9734E-01	.9753E 00	.1875E 01	.5346E 00
25	.1278E-01	-.4360E 01	-.2585E 01	-.5502E-01	.4850E 00	.3121E 01	.8901E 00
30	.7874E-02	-.4832E 01	-.2769E 01	-.3174E-01	.2668E 00	.5001E 01	.1426E 01
35	.5204E-02	-.5250E 01	-.2576E 01	-.1735E-01	.1649E 00	.7663E 01	.2185E 01
40	.3690E-02	-.5602E 01	-.2885E 01	-.1218E-01	.5974E-01	.1081E 02	.3082E 01
45	.2629E-02	-.5942E 01	-.2456E 01	-.6862E-02	.6097E-01	.1518E 02	.4329E 01
50	.2028E-02	-.6201E 01	-.2630E 01	-.5152E-02	.1958E-01	.1968E 02	.5608E 01
55	.1570E-02	-.6451E 01	-.2660E 01	-.3737E-02	.1671E-01	.2527E 02	.7205E 01
60	.1252E-02	-.6683E 01	-.1878E 01	-.2007E-02	.1988E-01	.3185E 02	.9081E 01
65	.1077E-02	-.6833E 01	-.2876E 01	-.2533E-02	-.3790E-02	.3701E 02	.1056E 02
70	.8794E-03	-.7043E 01	-.2671E 01	-.1685E-02	.7428E-02	.4563E 02	.1301E 02
75	.7800E-03	-.7227E 01	-.1650E 01	-.8424E-03	.9659E-02	.5407E 02	.1545E 02
80	.6899E-03	-.7333E 01	-.1341E 01	-.5846E-03	.2954E-02	.6104E 02	.1741E 02
85	.6028E-03	-.7419E 01	-.1974E 01	-.7190E-03	-.1540E-02	.6671E 02	.1888E 02
90	.5399E-03	-.7525E 01	-.1031E 01	-.3353E-03	.4390E-02	.7391E 02	.2108E 02
95	.5200E-03	-.7581E 01	.1935E 00	.3715E-04	.4268E-02	.7819E 02	.2229E 02
100	.5136E-03	-.7574E 01	-.4129E 00	-.1174E-03	-.1771E-02	.7760E 02	.2218E 02
105	.5030E-03	-.7594E 01	-.5940E 00	-.1872E-03	-.4400E-03	.7924E 02	.2260E 02
110	.4898E-03	-.7622E 01	-.7702E 00	-.1907E-03	-.3044E-03	.8140E 02	.2323E 02
115	.4720E-03	-.7657E 01	.5407E 00	.1261E-03	.3635E-02	.8433E 02	.2405E 02
120	.4899E-03	-.7634E 01	.3794E 00	.8564E-04	-.4642E-03	.8241E 02	.2350E 02
125	.4974E-03	-.7610E 01	.1470E 01	.3361E-03	.2970E-02	.8115E 02	.2314E 02
130	.5207E-03	-.7580E 01	.1887E 01	.4331E-03	.1112E-02	.7650E 02	.2184E 02
135	.5405E-03	-.7490E 01	.9430E 00	.1397E-03	-.3360E-02	.7440E 02	.2036E 02
140	.5707E-03	-.7469E 01	.1157E 01	.2710E-03	.1604E-02	.6987E 02	.1993E 02
145	.5949E-03	-.7428E 01	.1190E 01	.2822E-03	.1209E-03	.6749E 02	.1913E 02
150	.6190E-03	-.7387E 01	.1238E 01	.2939E-03	.1340E-03	.6443E 02	.1837E 02
155	.6446E-03	-.7347E 01	.1279E 01	.3061E-03	.1390E-03	.6188E 02	.1764E 02
160	.6719E-03	-.7306E 01	.1319E 01	.3188E-03	.1483E-03	.5940E 02	.1694E 02
165	.6992E-03	-.7266E 01	.1360E 01	.3320E-03	.1514E-03	.5704E 02	.1627E 02
170	.7281E-03	-.7225E 01	.1401E 01	.3457E-03	.1576E-03	.5477E 02	.1562E 02
175	.7583E-03	-.7184E 01	.1441E 01	.3601E-03	.1642E-03	.5299E 02	.1500E 02
180	.7897E-03	-.7144E 01	.0000E 00	.0000E 00	.0000E 00	.5058E 02	.1440E 02

SCAT= .3960E-01 30/45= .3036E 01 45/135= .4703E 01 SCAT30-130= .1137E-01

CH42/281 31164 2210H ST618 2-2000M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2456E 00	-.1404E 01	-.1852E 00	-.1450E 01	.0000E 00	.1454E 00	.4225E-01
5	.1190E 00	-.2128E 01	-.9684E 00	-.6470E 00	.8970E 01	.3000E 00	.8717E-01
10	.6084E-01	-.2799E 01	-.1526E 01	-.3215E 00	.3959E 01	.5870E 00	.1706E 00
15	.3279E-01	-.3418E 01	-.1964E 01	-.1622E 00	.1825E 01	.1089E 01	.3165E 00
20	.1865E-01	-.3983E 01	-.2295E 01	-.8557E-01	.8782E 00	.1917E 01	.5569E 00
25	.1117E-01	-.4495E 01	-.2590E 01	-.4816E-01	.4287E 00	.3198E 01	.9293E 00
30	.6964E-02	-.4967E 01	-.2699E 01	-.2716E-01	.2406E 00	.5129E 01	.1490E 01
35	.4594E-02	-.5383E 01	-.2575E 01	-.1532E-01	.1357E 00	.7774E 01	.2259E 01
40	.3257E-02	-.5727E 01	-.2593E 01	-.9823E-02	.6294E-01	.1096E 02	.3186E 01
45	.2400E-02	-.6037E 01	-.2373E 01	-.6085E-02	.4284E-01	.1488E 02	.4324E 01
50	.1869E-02	-.6282E 01	-.2567E 01	-.4649E-02	.1646E-01	.1911E 02	.5552E 01
55	.1469E-02	-.6527E 01	-.2664E 01	-.3470E-02	.1351E-01	.2440E 02	.7081E 01
60	.1161E-02	-.6759E 01	-.2309E 01	-.2245E-02	.1404E-01	.3077E 02	.8941E 01
65	.9648E-03	-.6944E 01	-.2412E 01	-.1810E-02	.4981E-02	.3702E 02	.1076E 02
70	.8068E-03	-.7122E 01	-.2168E 01	-.1284E-02	.6024E-02	.4427E 02	.1286E 02
75	.6947E-03	-.7272E 01	-.2057E 01	-.1341E-02	-.6456E-03	.5141E 02	.1494E 02
80	.5778E-03	-.7456E 01	-.8125E 00	-.3187E-03	.1172E-01	.6182E 02	.1796E 02
85	.5600E-03	-.7506E 01	-.1572E 01	-.5415E-03	-.2558E-02	.6494E 02	.1887E 02
90	.5027E-03	-.7595E 01	-.1030E 01	-.3119E-03	.2631E-02	.7104E 02	.2064E 02
95	.4755E-03	-.7651E 01	.8396E 00	.2398E-03	.6322E-02	.7511E 02	.2182E 02
100	.4964E-03	-.7608E 01	-.5111E 00	-.1401E-03	-.4353E-02	.7194E 02	.2090E 02
105	.4842E-03	-.7633E 01	-.4207E 00	-.1075E-03	.3732E-03	.7376E 02	.2143E 02
110	.4748E-03	-.7653E 01	-.8648E 00	-.2052E-03	-.1119E-02	.7522E 02	.2185E 02
115	.4689E-03	-.7691E 01	-.2926E-01	-.6516E-05	.2277E-02	.7816E 02	.2271E 02
120	.4564E-03	-.7692E 01	.6788E 00	.1513E-03	.1009E-02	.7826E 02	.2274E 02
125	.4696E-03	-.7664E 01	.1686E 01	.3678E-03	.2480E-02	.7606E 02	.2210E 02
130	.5017E-03	-.7598E 01	.4126E 00	.9022E-04	-.3181E-02	.7119E 02	.2069E 02
135	.5005E-03	-.7582E 01	.8759E 00	.1890E-03	.1132E-02	.7009E 02	.2037E 02
140	.5260E-03	-.7550E 01	.8906E 00	.1914E-03	.2737E-04	.6790E 02	.1973E 02
145	.5427E-03	-.7519E 01	.9219E 00	.1974E-03	.6961E-04	.6581E 02	.1912E 02
150	.5599E-03	-.7488E 01	.9531E 00	.2037E-03	.7183E-04	.6378E 02	.1853E 02
155	.5777E-03	-.7456E 01	.9844E 00	.2102E-03	.7410E-04	.6182E 02	.1796E 02
160	.5961E-03	-.7425E 01	.1016E 01	.2168E-03	.7646E-04	.5992E 02	.1741E 02
165	.6150E-03	-.7394E 01	.1047E 01	.2237E-03	.7888E-04	.5807E 02	.1687E 02
170	.6345E-03	-.7363E 01	.1078E 01	.2308E-03	.8139E-04	.5629E 02	.1635E 02
175	.6547E-03	-.7331E 01	.1109E 01	.2382E-03	.8398E-04	.5456E 02	.1585E 02
180	.6754E-03	-.7300E 01	.0000E 00	.0000E 00	.0000E 00	.5288E 02	.1536E 02

SCAT= .3571E-01 30/45= .2901E 01 45/135= .4710E 01 SCAT30-130= .1038E-01

CH42/252 31164 2225H ST618 10-1000M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.4355E 00	-.8319E 00	-.2150E 00	-.2837E 01	.0000E 00	.1075E 00	.2761E-01
5	.1879E 00	-.1672E 01	-.1115E 01	-.1159E 01	.1924E 02	.2493E 00	.6400E-01
10	.8674E-01	-.2445E 01	-.1738E 01	-.5027E 00	.7516E 01	.5398E 00	.1386E 00
15	.4207E-01	-.3169E 01	-.2213E 01	-.2314E 00	.3109E 01	.1092E 01	.2804E 00
20	.2268E-01	-.3786E 01	-.2548E 01	-.1127E 00	.1359E 01	.2064E 01	.5300E 00
25	.1285E-01	-.4355E 01	-.2817E 01	-.5913E-01	.6141E 00	.3645E 01	.9359E 00
30	.7686E-02	-.4868E 01	-.3070E 01	-.3321E-01	.2971E 00	.6092E 01	.1564E 01
35	.4780E-02	-.5342E 01	-.2465E 01	-.1539E-01	.2042E 00	.9779E 01	.2511E 01
40	.3445E-02	-.5671E 01	-.2608E 01	-.1072E-01	.5352E-01	.1359E 02	.3490E 01
45	.2610E-02	-.5948E 01	-.2319E 01	-.6214E-02	.5150E-01	.1865E 02	.4789E 01
50	.1968E-02	-.6231E 01	-.1735E 01	-.3436E-02	.3183E-01	.2379E 02	.6109E 01
55	.1680E-02	-.6389E 01	-.2643E 01	-.3977E-02	-.5620E-02	.2807E 02	.7208E 01
60	.1326E-02	-.6626E 01	-.2160E 01	-.2412E-02	.1736E-01	.3533E 02	.9071E 01
65	.1115E-02	-.6799E 01	-.2049E 01	-.1800E-02	.7009E-02	.4200E 02	.1078E 02
70	.9579E-03	-.6951E 01	-.1803E 01	-.1284E-02	.5912E-02	.4888E 02	.1255E 02
75	.8400E-03	-.7082E 01	-.1846E 01	-.1088E-02	.2043E-02	.5530E 02	.1421E 02
80	.7500E-03	-.7194E 01	-.9295E 00	-.4714E-03	.7070E-02	.6236E 02	.1601E 02
85	.7097E-03	-.7251E 01	-.6481E 00	-.2944E-03	.2028E-02	.6598E 02	.1694E 02
90	.6840E-03	-.7288E 01	-.7243E 00	-.3010E-03	-.7560E-04	.6846E 02	.1758E 02
95	.6677E-03	-.7312E 01	.3010E 00	.1117E-03	.4793E-02	.7119E 02	.1828E 02
100	.6680E-03	-.7311E 01	-.4415E 00	-.1671E-03	-.3213E-02	.7010E 02	.1800E 02
105	.6597E-03	-.7323E 01	-.4829E 00	-.1662E-03	-.3614E-04	.7163E 02	.1839E 02
110	.6392E-03	-.7355E 01	.7636E-01	.2491E-04	.2190E-02	.7325E 02	.1881E 02
115	.6414E-03	-.7352E 01	.2990E 00	.9438E-04	.7962E-03	.7300E 02	.1874E 02
120	.6496E-03	-.7339E 01	.1682E 00	.5128E-04	-.4939E-03	.7208E 02	.1851E 02
125	.6541E-03	-.7332E 01	.1017E 01	.3051E-03	.2909E-02	.7158E 02	.1838E 02
130	.6807E-03	-.7292E 01	.8768E 00	.2675E-03	-.4891E-03	.6878E 02	.1766E 02
135	.7056E-03	-.7256E 01	.4178E 00	.1239E-03	-.1693E-02	.6655E 02	.1709E 02
140	.7164E-03	-.7244E 01	.6611E 00	.1921E-03	.7870E-03	.6554E 02	.1683E 02
145	.7312E-03	-.7221E 01	.6843E 00	.1966E-03	.5167E-04	.6404E 02	.1644E 02
150	.7481E-03	-.7198E 01	.7075E 00	.2013E-03	.5289E-04	.6257E 02	.1607E 02
155	.7659E-03	-.7174E 01	.7307E 00	.2060E-03	.5418E-04	.6114E 02	.1570E 02
160	.7839E-03	-.7151E 01	.7539E 00	.2108E-03	.5539E-04	.5973E 02	.1534E 02
165	.8029E-03	-.7128E 01	.7771E 00	.2158E-03	.5670E-04	.5836E 02	.1499E 02
170	.8211E-03	-.7105E 01	.8003E 00	.2208E-03	.5802E-04	.5703E 02	.1464E 02
175	.8404E-03	-.7082E 01	.8235E 00	.2260E-03	.5939E-04	.5572E 02	.1431E 02
180	.8601E-03	-.7058E 01	.0000E 00	.0000E 00	.0000E 00	.5444E 02	.1398E 02

SCAT= .4682E-01 30/45= .3062E 01 45/135= .3567E 01 SCAT30-130= .1202E-01

CH42/253 31164 ST618 9-800M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.9221E-01	-.2384E 01	-.1544E 00	-.4789E 00	.0000E 00	.2145E 00	.7406E-01
5	.5042E-01	-.2987E 01	-.8168E 00	-.2498E 00	.2626E 01	.3923E 00	.1355E 00
10	.2862E-01	-.3554E 01	-.1304E 01	-.1347E 00	.1319E 01	.6910E 00	.2386E 00
15	.1807E-01	-.4002E 01	-.1709E 01	-.7501E-01	.6856E 00	.1172E 01	.4048E 00
20	.1032E-01	-.4573E 01	-.2032E 01	-.4313E-01	.3653E 00	.1915E 01	.6615E 00
25	.6600E-02	-.5027E 01	-.2460E 01	-.2716E-01	.1830E 00	.3015E 01	.1041E 01
30	.4189E-02	-.5475E 01	-.2486E 01	-.1528E-01	.1362E 00	.4721E 01	.1630E 01
35	.2856E-02	-.5858E 01	-.2633E 01	-.9700E-02	.6385E-01	.6926E 01	.2392E 01
40	.2009E-02	-.6210E 01	-.2523E 01	-.5919E-02	.4336E-01	.9844E 01	.3399E 01
45	.1400E-02	-.6507E 01	-.2661E 01	-.4181E-02	.1801E-01	.1325E 02	.4576E 01
50	.1120E-02	-.6788E 01	-.2057E 01	-.2301E-02	.2155E-01	.1754E 02	.6056E 01
55	.9209E-03	-.6990E 01	-.2694E 01	-.2219E-02	.9361E-03	.2134E 02	.7368E 01
60	.7382E-03	-.7210E 01	-.2043E 01	-.1267E-02	.1091E-01	.2697E 02	.9315E 01
65	.6226E-03	-.7382E 01	-.1992E 01	-.9792E-03	.3304E-02	.3176E 02	.1097E 02
70	.5571E-03	-.7529E 01	-.1378E 01	-.5581E-03	.4825E-02	.3682E 02	.1271E 02
75	.4800E-03	-.7624E 01	-.2621E 01	-.8711E-03	-.3586E-02	.4049E 02	.1398E 02
80	.4124E-03	-.7793E 01	-.1261E 01	-.3478E-03	.5996E-02	.4795E 02	.1656E 02
85	.3821E-03	-.7870E 01	-.1401E 01	-.3554E-03	-.8632E-04	.5178E 02	.1787E 02
90	.3511E-03	-.7955E 01	-.5895E 00	-.1767E-03	.2626E-02	.5633E 02	.1945E 02
95	.3400E-03	-.7986E 01	.6315E 00	.1698E-03	.3392E-02	.5816E 02	.2008E 02
100	.3549E-03	-.7944E 01	.4379E 00	.8782E-04	-.9392E-03	.5573E 02	.1925E 02
105	.3629E-03	-.7922E 01	-.4744E 00	-.9076E-04	-.2046E-02	.5455E 02	.1884E 02
110	.3546E-03	-.7945E 01	.7569E 00	.1391E-03	.2633E-02	.5577E 02	.1926E 02
115	.3667E-03	-.7911E 01	.2764E 00	.4973E-04	-.1024E-02	.5393E 02	.1862E 02
120	.3711E-03	-.7899E 01	.6080E 00	.1069E-03	.6545E-03	.5330E 02	.1840E 02
125	.3804E-03	-.7874E 01	.1063E 01	.1856E-03	.9028E-03	.5199E 02	.1795E 02
130	.3966E-03	-.7833E 01	.1407E 01	.2479E-03	.7137E-03	.4987E 02	.1722E 02
135	.4102E-03	-.7779E 01	.5618E 00	.9882E-04	-.1704E-02	.4728E 02	.1633E 02
140	.4209E-03	-.7759E 01	.9383E 00	.1637E-03	.7439E-03	.4633E 02	.1600E 02
145	.4411E-03	-.7720E 01	.9712E 00	.1692E-03	.6280E-04	.4483E 02	.1548E 02
150	.4659E-03	-.7693E 01	.1004E 01	.1749E-03	.6491E-04	.4318E 02	.1498E 02
155	.4718E-03	-.7660E 01	.1037E 01	.1807E-03	.6709E-04	.4197E 02	.1449E 02
160	.4869E-03	-.7627E 01	.1070E 01	.1868E-03	.6932E-04	.4061E 02	.1402E 02
165	.5042E-03	-.7594E 01	.1103E 01	.1930E-03	.7166E-04	.3930E 02	.1357E 02
170	.5201E-03	-.7562E 01	.1136E 01	.1995E-03	.7404E-04	.3802E 02	.1313E 02
175	.5376E-03	-.7529E 01	.1169E 01	.2062E-03	.7653E-04	.3679E 02	.1271E 02
180	.5555E-03	-.7496E 01	.0000E 00	.0000E 00	.0000E 00	.3560E 02	.1229E 02

SCAT= .1978E-01 30/45= .2807E 01 45/135= .3569E 01 SCAT30-130= .6829E-02

CH42/284 31164 2255H ST618 8-600M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1284E 00	-.2077E 01	-.1930E 00	-.7611E 00	.0000E 00	.1442E 00	.4425E-01
5	.5894E-01	-.2831E 01	-.1003E 01	-.3385E 00	.4842E 01	.3068E 00	.9411E-01
10	.2940E-01	-.3527E 01	-.1570E 01	-.1576E 00	.2081E 01	.6151E 00	.1887E 00
15	.1556E-01	-.4163E 01	-.2007E 01	-.7818E-01	.9216E 00	.1162E 01	.3565E 00
20	.8739E-02	-.4741E 01	-.2322E 01	-.4047E-01	.4322E 00	.2070E 01	.6351E 00
25	.5201E-02	-.5259E 01	-.2585E 01	-.2240E-01	.2075E 00	.3476E 01	.1066E 01
30	.3247E-02	-.5730E 01	-.2717E 01	-.1273E-01	.1108E 00	.5589E 01	.1708E 01
35	.2136E-02	-.6149E 01	-.2417E 01	-.6751E-02	.6850E-01	.8465E 01	.2597E 01
40	.1547E-02	-.6472E 01	-.2459E 01	-.4457E-02	.2630E-01	.1169E 02	.3586E 01
45	.1180E-02	-.6761E 01	-.2178E 01	-.2714E-02	.1996E-01	.1562E 02	.4790E 01
50	.9210E-03	-.6990E 01	-.2587E 01	-.2306E-02	.4677E-02	.1963E 02	.6022E 01
55	.7197E-03	-.7237E 01	-.2174E 01	-.1391E-02	.1048E-01	.2512E 02	.7706E 01
60	.5989E-03	-.7421E 01	-.2160E 01	-.1092E-02	.3427E-02	.3022E 02	.9270E 01
65	.5030E-03	-.7595E 01	-.2255E 01	-.8869E-03	.2354E-02	.3595E 02	.1103E 02
70	.4256E-03	-.7762E 01	-.1819E 01	-.5751E-03	.3671E-02	.4248E 02	.1303E 02
75	.3784E-03	-.7880E 01	-.1160E 01	-.3102E-03	.3038E-02	.4817E 02	.1477E 02
80	.3483E-03	-.7962E 01	-.1197E 01	-.2794E-03	.3529E-03	.5191E 02	.1592E 02
85	.3239E-03	-.8035E 01	-.4268E 00	-.8947E-04	.2176E-02	.5581E 02	.1712E 02
90	.3161E-03	-.8059E 01	.1532E 00	.3013E-04	.1371E-02	.5719E 02	.1754E 02
95	.3180E-03	-.8051E 01	.2560E 00	.4829E-04	.2081E-03	.5672E 02	.1740E 02
100	.3230E-03	-.8038E 01	.7627E 00	.1403E-03	.1055E-02	.5598E 02	.1717E 02
105	.3362E-03	-.8001E 01	.4254E 00	.7678E-04	-.7282E-03	.5394E 02	.1655E 02
110	.3419E-03	-.7981E 01	-.8520E 00	-.1456E-03	-.2648E-02	.5288E 02	.1622E 02
115	.3292E-03	-.8019E 01	.9773E 00	.1602E-03	.3505E-02	.5492E 02	.1685E 02
120	.3432E-03	-.7977E 01	-.5295E-01	-.8492E-05	-.1933E-02	.5268E 02	.1616E 02
125	.3426E-03	-.7979E 01	.1431E 01	.2265E-03	.2693E-02	.5280E 02	.1620E 02
130	.3622E-03	-.7923E 01	.2137E 01	.3487E-03	.1400E-02	.4992E 02	.1531E 02
135	.3927E-03	-.7843E 01	.4857E 00	.8019E-04	-.3077E-02	.4605E 02	.1413E 02
140	.3997E-03	-.7825E 01	.1158E 01	.1899E-03	.1257E-02	.4524E 02	.1388E 02
145	.4182E-03	-.7784E 01	.1199E 01	.1978E-03	.9025E-04	.4344E 02	.1333E 02
150	.4335E-03	-.7744E 01	.1239E 01	.2060E-03	.9359E-04	.4171E 02	[illegible]
155	.4516E-03	-.7703E 01	.1280E 01	.2145E-03	.9788E-04	.4005E 02	[illegible]
160	.4702E-03	-.7662E 01	.1320E 01	.2234E-03	.1019E-03	.3845E 02	[illegible]
165	.4897E-03	-.7622E 01	.1361E 01	.2327E-03	.1068E-03	.3692E 02	.1133E 02
170	.5100E-03	-.7581E 01	.1402E 01	.2423E-03	.1106E-03	.3545E 02	.1088E 02
175	.5311E-03	-.7540E 01	.1442E 01	.2524E-03	.1152E-03	.3404E 02	.1044E 02
180	.5532E-03	-.7500E 01	.0000E 00	.0000E 00	.0000E 00	.3269E 02	.1003E 02

SCAT= .1808E-01 30/45= .2804E 01 45/135= .2949E 01 SCAT30-130= .5546E-02

CH42/289 31164 2315H ST618 7-500M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2849E 00	-.1256E 01	-.2051E 00	-.1801E 01	.0000E 00	.1200E 00	.3223E-01
5	.1278E 00	-.2058E 01	-.1065E 01	-.7644E 00	.1100E 02	.2675E 00	.7189E-01
10	.6105E-01	-.2796E 01	-.1664E 01	-.3433E 00	.4025E 01	.5599E 00	.1504E 00
15	.3109E-01	-.3471E 01	-.2125E 01	-.1529E 00	.2067E 01	.1099E 01	.2954E 00
20	.1687E-01	-.4082E 01	-.2454E 01	-.8152E-01	.9327E 00	.2026E 01	.5444E 00
25	.9755E-02	-.4630E 01	-.2719E 01	-.4369E-01	.4335E 00	.3504E 01	.9414E 00
30	.5962E-02	-.5126E 01	-.2912E 01	-.2462E-01	.2186E 00	.5752E 01	.1545E 01
35	.3796E-02	-.5575E 01	-.2508E 01	-.1237E-01	.1404E 00	.9010E 01	.2421E 01
40	.2714E-02	-.5909E 01	-.2506E 01	-.7949E-02	.5067E-01	.1259E 02	.3384E 01
45	.2030E-02	-.6205E 01	-.2343E 01	-.6064E-02	.3304E-01	.1692E 02	.4546E 01
50	.1578E-02	-.6451E 01	-.2836E 01	-.4284E-02	.8934E-02	.2166E 02	.5819E 01
55	.1204E-02	-.6722E 01	-.1874E 01	-.2076E-02	.2530E-01	.2838E 02	.7625E 01
60	.1029E-02	-.6879E 01	-.2939E 01	-.2458E-02	-.4369E-02	.3340E 02	.8976E 01
65	.8087E-03	-.7120E 01	-.2470E 01	-.1550E-02	.1040E-01	.4228E 02	.1136E 02
70	.6734E-03	-.7303E 01	-.1119E 01	-.5732E-03	.1120E-01	.5076E 02	.1364E 02
75	.6294E-03	-.7370E 01	-.1346E 01	-.8940E-03	-.2900E-03	.5483E 02	.1473E 02
80	.5715E-03	-.7467E 01	-.1536E 01	-.5824E-03	.1334E-03	.5980E 02	.1607E 02
85	.5307E-03	-.7540E 01	-.3984E 00	-.1710E-03	.5286E-02	.6564E 02	.1764E 02
90	.5101E-03	-.7581E 01	-.9070E 00	-.2798E-03	-.1819E-02	.6700E 02	.1800E 02
95	.4857E-03	-.7630E 01	.1661E 00	.4762E-04	.3782E-02	.7036E 02	.1891E 02
100	.4899E-03	-.7621E 01	-.1797E-01	-.4919E-05	-.6021E-03	.6977E 02	.1875E 02
105	.4895E-03	-.7622E 01	.3723E 00	.9146E-04	.1170E-02	.6983E 02	.1876E 02
110	.4980E-03	-.7605E 01	-.1093E 01	-.2707E-03	-.4225E-02	.6863E 02	.1844E 02
115	.4744E-03	-.7654E 01	.4621E 00	.1080E-03	.4330E-02	.7205E 02	.1936E 02
120	.4858E-03	-.7634E 01	.1013E 01	.2140E-03	.1444E-02	.7064E 02	.1898E 02
125	.5042E-03	-.7593E 01	.1290E 01	.2990E-03	.7849E-03	.6778E 02	.1821E 02
130	.5504E-03	-.7542E 01	.1509E 01	.3756E-03	.8677E-03	.6444E 02	.1731E 02
135	.5608E-03	-.7482E 01	.4090E 00	.2169E-03	-.1014E-02	.6069E 02	.1631E 02
140	.5821E-03	-.7449E 01	.1240E 01	.2965E-03	.9127E-03	.5872E 02	.1578E 02
145	.6000E-03	-.7409E 01	.1283E 01	.3047E-03	.1591E-03	.5622E 02	.1511E 02
150	.6360E-03	-.7362E 01	.1327E 01	.3235E-03	.1570E-03	.5382E 02	.1446E 02
155	.6602E-03	-.7318E 01	.1370E 01	.3374E-03	.1640E-03	.5153E 02	.1385E 02
160	.6927E-03	-.7275E 01	.1414E 01	.3529E-03	.1721E-03	.4934E 02	.1326E 02
165	.7206E-03	-.7231E 01	.1457E 01	.3686E-03	.1790E-03	.4724E 02	.1269E 02
170	.7657E-03	-.7188E 01	.1501E 01	.3850E-03	.1870E-03	.4523E 02	.1215E 02
175	.7898E-03	-.7144E 01	.1544E 01	.4021E-03	.1961E-03	.4330E 02	.1164E 02
180	.8244E-03	-.7101E 01	.0000E 00	.0000E 00	.0000E 00	.4146E 02	.1114E 02

SCAT= .3410E-01 30/45= .2942E 01 45/135= .3547E 01 SCAT30-130= .9183E-02

CH42/286 31164 2335H ST618 6-400M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2390E 00	-.1429E 01	-.1744E 00	-.1359E 01	.0000E 00	.1572E 00	.6507E-01
5	.1212E 00	-.2110E 01	-.9189E 00	-.6542E 00	.8074E 01	.3110E 00	.8917E-01
10	.6420E-01	-.2747E 01	-.1459E 01	-.3280E 00	.3738E 01	.5879E 00	.1646E 00
15	.3640E-01	-.3313E 01	-.1898E 01	-.1711E 00	.1790E 01	.1062E 01	.3046E 00
20	.2084E-01	-.3869E 01	-.2244E 01	-.9275E-01	.8875E 00	.1834E 01	.5259E 00
25	.1245E-01	-.4386E 01	-.2456E 01	-.5478E-01	.4351E 00	.3026E 01	.8677E 00
30	.7673E-02	-.4870E 01	-.2738E 01	-.3028E-01	.2808E 00	.4911E 01	.1408E 01
35	.5051E-02	-.5292E 01	-.2414E 01	-.1889E-01	.1649E 00	.7490E 01	.2148E 01
40	.3648E-02	-.5614E 01	-.3360E 01	-.1365E-01	.2565E-01	.1034E 02	.2965E 01
45	.2460E-02	-.6010E 01	-.2145E 01	-.5711E-02	.9098E-01	.1536E 02	.4405E 01
50	.1955E-02	-.6237E 01	-.2731E 01	-.5134E-02	.6611E-02	.1929E 02	.5527E 01
55	.1507E-02	-.6498E 01	-.2791E 01	-.3724E-02	.1616E-01	.2501E 02	.7178E 01
60	.1182E-02	-.6741E 01	-.2516E 01	-.2471E-02	.1436E-01	.3188E 02	.9142E 01
65	.9684E-03	-.6942E 01	-.2242E 01	-.1709E-02	.8724E-02	.3899E 02	.1118E 02
70	.8172E-03	-.7110E 01	-.2556E 01	-.1514E-02	.2240E-02	.4611E 02	.1322E 02
75	.6804E-03	-.7292E 01	-.2128E 01	-.1004E-02	.5841E-02	.5500E 02	.1577E 02
80	.5975E-03	-.7423E 01	-.1240E 01	-.4960E-03	.5821E-02	.6307E 02	.1808E 02
85	.5642E-03	-.7498E 01	-.1094E 01	-.3849E-03	.1273E-02	.6799E 02	.1950E 02
90	.5206E-03	-.7560E 01	-.1506E 01	-.4664E-03	-.9334E-03	.7238E 02	.2075E 02
95	.4799E-03	-.7642E 01	.2065E 00	.4855E-04	.6015E-02	.7853E 02	.2251E 02
100	.4851E-03	-.7631E 01	-.4207E 00	-.1129E-03	-.1965E-02	.7769E 02	.2228E 02
105	.4952E-03	-.7652E 01	-.1793E 00	-.4623E-04	.7750E-03	.7930E 02	.2274E 02
110	.4725E-03	-.7660E 01	-.1932E 00	-.4618E-04	-.1095E-04	.7977E 02	.2293E 02
115	.4672E-03	-.7669E 01	-.7904E 00	-.1771E-03	-.1500E-02	.8066E 02	.2313E 02
120	.4510E-03	-.7707E 01	.6015E 00	.1287E-03	.3504E-02	.8342E 02	.2392E 02
125	.4630E-03	-.7678E 01	.9300E 00	.1973E-03	.7858E-03	.8139E 02	.2334E 02
130	.4802E-03	-.7641E 01	.2716E 01	.4800E-03	.3240E-02	.7847E 02	.2250E 02
135	.5224E-03	-.7558E 01	-.1532E 00	-.3374E-04	-.5881E-02	.7218E 02	.2070E 02
140	.5192E-03	-.7563E 01	.8068E 00	.1708E-03	.2339E-02	.7258E 02	.2081E 02
145	.5341E-03	-.7535E 01	.8351E 00	.1758E-03	.5621E-04	.7056E 02	.2023E 02
150	.5494E-03	-.7507E 01	.8634E 00	.1808E-03	.5784E-04	.6859E 02	.1967E 02
155	.5652E-03	-.7478E 01	.8917E 00	.1860E-03	.5949E-04	.6667E 02	.1912E 02
160	.5815E-03	-.7450E 01	.9200E 00	.1913E-03	.6121E-04	.6481E 02	.1858E 02
165	.5982E-03	-.7422E 01	.9484E 00	.1969E-03	.6296E-04	.6300E 02	.1807E 02
170	.6153E-03	-.7393E 01	.9767E 00	.2025E-03	.6477E-04	.6124E 02	.1756E 02
175	.6330E-03	-.7365E 01	.1005E 01	.2083E-03	.6662E-04	.5953E 02	.1707E 02
180	.6512E-03	-.7337E 01	.0000E 00	.0000E 00	.0000E 00	.5787E 02	.1659E 02

SCAT= .3760E-01 30/45= .3128E 01 45/135= .4659E 01 SCAT30-130= .1091E-01

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2839E 00	-.1263E 01	-.1668E 00	-.1553E 01	.0000E 00	.1776E 00	.5182E-01
5	.1476E 00	-.1913E 01	-.8819E 00	-.7774E 00	.8949E 01	.3314E 00	.9948E-01
10	.7998E-01	-.2526E 01	-.1407E 01	-.3984E 00	.4286E 01	.6108E 00	.1833E 00
15	.4621E-01	-.3074E 01	-.1940E 01	-.2130E 00	.2174E 01	.1080E 01	.3243E 00
20	.2663E-01	-.3626E 01	-.2189E 01	-.1179E 00	.1089E 01	.1834E 01	.5506E 00
25	.1634E-01	-.4114E 01	-.2452E 01	-.6748E-01	.5780E 00	.2990E 01	.8976E 00
30	.1045E-01	-.4561E 01	-.2871E 01	-.4273E-01	.2825E 00	.4675E 01	.1403E 01
35	.6712E-02	-.5004E 01	-.2473E 01	-.2163E-01	.2429E 00	.7277E 01	.2186E 01
40	.4824E-02	-.5334E 01	-.2805E 01	-.1555E-01	.6965E-01	.1013E 02	.3039E 01
45	.3467E-02	-.5665E 01	-.2842E 01	-.1028E-01	.6046E-01	.1409E 02	.4229E 01
50	.2570E-02	-.5964E 01	-.2798E 01	-.6893E-02	.3879E-01	.1901E 02	.5705E 01
55	.1960E-02	-.6231E 01	-.1890E 01	-.3420E-02	.3980E-01	.2482E 02	.7449E 01
60	.1670E-02	-.6395E 01	-.2601E 01	-.3596E-02	-.2020E-02	.2925E 02	.8780E 01
65	.1356E-02	-.6603E 01	-.2630E 01	-.2752E-02	.9670E-02	.3602E 02	.1081E 02
70	.1116E-02	-.6798E 01	-.1816E 01	-.1506E-02	.1429E-01	.4377E 02	.1314E 02
75	.9849E-03	-.6923E 01	-.2262E 01	-.1573E-02	-.3029E-03	.4962E 02	.1489E 02
80	.8507E-03	-.7069E 01	-.1793E 01	-.1004E-02	.6056E-02	.5742E 02	.1723E 02
85	.7651E-03	-.7178E 01	-.9924E 00	-.4822E-03	.5979E-02	.6401E 02	.1921E 02
90	.7210E-03	-.7235E 01	-.1313E 01	-.5662E-03	-.9628E-03	.6774E 02	.2033E 02
95	.6726E-03	-.7305E 01	-.1091E 01	-.4190E-03	.1664E-02	.7273E 02	.2183E 02
100	.6361E-03	-.7362E 01	-.7747E 00	-.2699E-03	.1708E-02	.7691E 02	.2309E 02
105	.6115E-03	-.7400E 01	-.2802E 00	-.9076E-04	.2052E-02	.7988E 02	.2398E 02
110	.6036E-03	-.7413E 01	-.1099E 00	-.3371E-04	.6537E-03	.8093E 02	.2429E 02
115	.6007E-03	-.7417E 01	.3185E 00	.9394E-04	.1463E-02	.8132E 02	.2441E 02
120	.6089E-03	-.7404E 01	.8492E 00	.2461E-03	.1744E-02	.8023E 02	.2408E 02
125	.6309E-03	-.7369E 01	.1496E 01	.4365E-03	.2188E-02	.7749E 02	.2326E 02
130	.6684E-03	-.7311E 01	.1959E 01	.5878E-03	.1733E-02	.7308E 02	.2194E 02
135	.7107E-03	-.7250E 01	.7493E 00	.2249E-03	-.4159E-02	.6787E 02	.2037E 02
140	.7383E-03	-.7210E 01	.1796E 01	.3943E-03	.1942E-02	.6607E 02	.1983E 02
145	.7738E-03	-.7164E 01	.1342E 01	.4127E-03	.2108E-03	.6313E 02	.1895E 02
150	.8098E-03	-.7119E 01	.1387E 01	.4319E-03	.2201E-03	.6032E 02	.1811E 02
155	.8475E-03	-.7073E 01	.1433E 01	.4520E-03	.2304E-03	.5764E 02	.1730E 02
160	.8869E-03	-.7028E 01	.1478E 01	.4731E-03	.2411E-03	.5507E 02	.1653E 02
165	.9282E-03	-.6982E 01	.1524E 01	.4951E-03	.2523E-03	.5263E 02	.1580E 02
170	.9714E-03	-.6937E 01	.1569E 01	.5181E-03	.2641E-03	.5028E 02	.1509E 02
175	.1017E-02	-.6891E 01	.1615E 01	.5422E-03	.2763E-03	.4805E 02	.1442E 02
180	.1064E-02	-.6846E 01	.0000E 00	.0000E 00	.0000E 00	.4591E 02	.1378E 02

SCAT= .4885E-01 30/45= .3014E 01 45/135= .4817E 01 SCAT30-130= .1446E-01

CH42/288 11164 0010H ST618 J-210M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2919E 00	-.1231E 01	-.1918E 00	-.1765E 01	.0000E 00	.1332E 00	.3646E-01
5	.1492E 00	-.1902E 01	-.1001E 01	-.7905E 00	.1157E 02	.2821E 00	.7721E-01
10	.6884E-01	-.2676E 01	-.1574E 01	-.3721E 00	.4794E 01	.5647E 00	.1546E 00
15	.3637E-01	-.3314E 01	-.2029E 01	-.1839E 00	.2159E 01	.1069E 01	.2926E 00
20	.2032E-01	-.3896E 01	-.2357E 01	-.9624E-01	.1016E 01	.1913E 01	.5236E 00
25	.1201E-01	-.4422E 01	-.2707E 01	-.5362E-01	.4770E 00	.3237E 01	.8860E 00
30	.7552E-02	-.4886E 01	-.2746E 01	-.3960E-01	.2071E 00	.5302E 01	.1451E 01
35	.4008E-02	-.5519E 01	-.2827E 01	-.1730E-01	.1341E 00	.8097E 01	.2216E 01
40	.3292E-02	-.5716E 01	-.2390E 01	-.9055E-02	.9446E-01	.1181E 02	.3233E 01
45	.2502E-02	-.5991E 01	-.2662E 01	-.7011E-02	.2343E-01	.1554E 02	.4254E 01
50	.1890E-02	-.6271E 01	-.2450E 01	-.4809E-02	.2866E-01	.2057E 02	.5631E 01
55	.1496E-02	-.6505E 01	-.2572E 01	-.3439E-02	.1277E-01	.2598E 02	.7111E 01
60	.1196E-02	-.6728E 01	-.2214E 01	-.2227E-02	.1309E-01	.3250E 02	.8895E 01
65	.1002E-02	-.6906E 01	-.2529E 01	-.1963E-02	.3024E-02	.3888E 02	.1062E 02
70	.8386E-03	-.7083E 01	-.2385E 01	-.1444E-02	.5930E-02	.4680E 02	.1281E 02
75	.7047E-03	-.7258E 01	-.1803E 01	-.8872E-03	.6986E-02	.5517E 02	.1510E 02
80	.6273E-03	-.7374E 01	-.2298E 01	-.9350E-03	-.5471E-03	.6198E 02	.1696E 02
85	.5467E-03	-.7513E 01	-.1079E 01	-.3741E-03	.6427E-02	.7124E 02	.1950E 02
90	.5131E-03	-.7575E 01	-.9718E 00	-.3009E-03	.8383E-03	.7577E 02	.2074E 02
95	.4860E-03	-.7629E 01	-.8043E 00	-.2255E-03	.8651E-03	.7986E 02	.2186E 02
100	.4671E-03	-.7669E 01	.1115E 01	.2993E-03	.6014E-02	.8323E 02	.2278E 02
105	.4936E-03	-.7614E 01	-.7973E 00	-.2050E-03	-.5799E-02	.7886E 02	.2157E 02
110	.4759E-03	-.7652E 01	-.1598E 01	-.3734E-03	-.1921E-02	.8150E 02	.2239E 02
115	.4427E-03	-.7723E 01	.3019E 00	.6561E-04	.5091E-02	.8782E 02	.2404E 02
120	.4484E-03	-.7710E 01	.1002E 01	.2145E-03	.1706E-02	.8670E 02	.2373E 02
125	.4672E-03	-.7669E 01	.5098E 00	.1080E-03	-.1290E-02	.8322E 02	.2278E 02
130	.4766E-03	-.7649E 01	.2031E 01	.4350E-03	.3747E-02	.8158E 02	.2233E 02
135	.5146E-03	-.7572E 01	.4842E 00	.1047E-03	-.3785E-02	.7556E 02	.2068E 02
140	.5257E-03	-.7555E 01	.1030E 01	.2209E-03	.1331E-02	.7424E 02	.2032E 02
145	.5426E-03	-.7518E 01	.1066E 01	.2291E-03	.9320E-04	.7160E 02	.1960E 02
150	.5638E-03	-.7482E 01	.1103E 01	.2375E-03	.9664E-04	.6908E 02	.1890E 02
155	.5837E-03	-.7446E 01	.1139E 01	.2462E-03	.1002E-03	.6661E 02	.1823E 02
160	.6062E-03	-.7410E 01	.1175E 01	.2553E-03	.1039E-03	.6424E 02	.1758E 02
165	.6278E-03	-.7374E 01	.1211E 01	.2647E-03	.1077E-03	.6196E 02	.1696E 02
170	.6506E-03	-.7338E 01	.1247E 01	.2745E-03	.1117E-03	.5978E 02	.1636E 02
175	.6746E-03	-.7302E 01	.1283E 01	.2846E-03	.1158E-03	.5764E 02	.1578E 02
180	.6995E-03	-.7265E 01	.0000E 00	.0000E 00	.0000E 00	.5559E 02	.1522E 02

SCAT= .3888E-01 30/45= .2931E 01 45/135= .4842E 01 SCAT30-130= .1064E-01

CH42/250 11164 0038H ST618 3-100M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.4236E 00	-.8589E 00	-.1666E 00	-.2324E 01	.0000E 00	.1672E 00	.4862E-01
5	.2200E 00	-.1510E 01	-.8806E 00	-.1156E 01	.1338E 02	.3208E 00	.9329E-01
10	.1199E 00	-.2121E 01	-.1404E 01	-.5965E 00	.6411E 01	.5905E 00	.1717E 00
15	.6780E-01	-.2690E 01	-.1855E 01	-.3191E 00	.3178E 01	.1043E 01	.3034E 00
20	.4004E-01	-.3218E 01	-.2182E 01	-.1768E 00	.1630E 01	.1769E 01	.5145E 00
25	.2401E-01	-.3729E 01	-.2561E 01	-.1052E 00	.8208E 00	.2870E 01	.8371E 00
30	.1648E-01	-.4106E 01	-.2663E 01	-.5952E-01	.5233E 00	.4591E 01	.1335E 01
35	.1029E-01	-.4577E 01	-.2737E 01	-.3589E-01	.2707E 00	.6927E 01	.2019E 01
40	.7100E-02	-.4948E 01	-.2753E 01	-.2253E-01	.1531E 00	.9976E 01	.2901E 01
45	.5100E-02	-.5278E 01	-.2736E 01	-.1473E-01	.8037E-01	.1380E 02	.4012E 01
50	.3848E-02	-.5560E 01	-.2710E 01	-.1068E-01	.4646E-01	.1841E 02	.5353E 01
55	.2910E-02	-.5838E 01	-.2562E 01	-.6676E-02	.4588E-01	.2429E 02	.7064E 01
60	.2339E-02	-.6061E 01	-.2744E 01	-.5273E-02	.1608E-01	.3036E 02	.8828E 01
65	.1879E-02	-.6280E 01	-.2588E 01	-.3742E-02	.1754E-01	.3781E 02	.1100E 02
70	.1546E-02	-.6472E 01	-.2423E 01	-.2728E-02	.1162E-01	.4580E 02	.1332E 02
75	.1300E-02	-.6645E 01	-.2153E 01	-.1945E-02	.8978E-02	.5413E 02	.1574E 02
80	.1139E-02	-.6778E 01	-.2337E 01	[illegible]	.2533E-02	.6220E 02	.1809E 02
85	.9882E-03	-.6920E 01	-.2189E 01	-.1332E-02	.4491E-02	.7167E 02	.2084E 02
90	.8720E-03	-.7045E 01	-.1224E 01	-.6399E-03	.7930E-02	.8122E 02	.2362E 02
95	.8181E-03	-.7111E 01	-.1069E 01	-.4988E-03	.1617E-02	.8678E 02	.2524E 02
100	.7726E-03	-.7166E 01	-.4215E 00	-.1807E-03	.3651E-02	.9167E 02	.2666E 02
105	.7364E-03	-.7210E 01	-.6157E 00	-.2449E-03	-.7413E-03	.9557E 02	.2779E 02
110	.7356E-03	-.7215E 01	-.1344E 01	-.4884E-03	-.2793E-02	.9629E 02	.2800E 02
115	.6929E-03	-.7275E 01	-.3417E 00	-.1146E-03	.4286E-02	.1022E 03	.2973E 02
120	.6829E-03	-.7289E 01	.1701E 00	.3847E-04	.1754E-02	.1037E 03	.3016E 02
125	.6862E-03	-.7284E 01	.2898E 00	.8990E-04	.5894E-03	.1032E 03	.3002E 02
130	.6941E-03	-.7273E 01	.7908E 00	.2409E-03	.1731E-02	.1020E 03	.2968E 02
135	.7164E-03	-.7243E 01	-.1276E 00	-.3792E-04	-.3196E-02	.9884E 02	.2880E 02
140	.7118E-03	-.7248E 01	.2263E 00	.6502E-04	.1180E-02	.9950E 02	.2894E 02
145	.7175E-03	-.7240E 01	.2342E 00	.6594E-04	.5940E-05	.9871E 02	.2871E 02
150	.7232E-03	-.7232E 01	.2421E 00	.6606E-04	.5981E-05	.9793E 02	.2848E 02
155	.7290E-03	-.7224E 01	.2501E 00	.6659E-04	.6039E-05	.9716E 02	.2826E 02
160	.7348E-03	-.7216E 01	.2580E 00	.6712E-04	.6084E-05	.9639E 02	.2803E 02
165	.7406E-03	-.7208E 01	.2660E 00	.6765E-04	.6130E-05	.9564E 02	.2781E 02
170	.7465E-03	-.7200E 01	.2739E 00	.6819E-04	.6185E-05	.9487E 02	.2759E 02
175	.7525E-03	-.7192E 01	.2818E 00	.6874E-04	.6223E-05	.9412E 02	.2737E 02
180	.7585E-03	-.7184E 01	.0000E 00	.0000E 00	.0000E 00	.9338E 02	.2716E 02

SCAT= .7082E-01 30/45= .3005E 01 45/135= .7179E 01 SCAT30-130= .2060E-01

CH42/280 11164 0055H ST618 2-2000M REPEAT

THETA	SIGPA THETA	LN SIGPA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	.1040E-02	-.6868E 01	.2883E 01	.1106E-02	.1076E-02	.2759E 02	.8502E 01
165	.1299E-02	-.6700E 01	.2972E 01	.1208E-02	.1176E-02	.2525E 02	.7740E 01
170	.1242E-02	-.6691E 01	.3061E 01	.1321E-02	.1285E-02	.2310E 02	.7119E 01
175	.1357E-02	-.6602E 01	.3150E 01	.1443E-02	.1404E-02	.2114E 02	.6516E 01
180	.1483E-02	-.6514E 01	.0000E 00	.0000E 00	.0000E 00	.1935E 02	.5962E 01

SCAT= .2870E-01 30/45= .2838E 01 45/135= .2774E 01 SCAT30-130= .8843E-02

CH42/281 11164 0615H ST619 37 39N 68 38W PIPE GS

THETA	SIGPA THETA	LN SIGPA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	.6299E-03	-.7370E 01	.1636E 01	.3727E-03	.2097E-03	.6575E 02	.1509E 02
165	.6624E-03	-.7320E 01	.1686E 01	.3920E-03	.2206E-03	.6252E 02	.1436E 02
170	.6967E-03	-.7267E 01	.1737E 01	.4122E-03	.2319E-03	.5945E 02	.1365E 02
175	.7326E-03	-.7219E 01	.1787E 01	.4335E-03	.2439E-03	.5653E 02	.1298E 02
180	.7705E-03	-.7169E 01	.0000E 00	.0000E 00	.0000E 00	.5376E 02	.1234E 02

SCAT= .4142E-01 30/45= .3506E 01 45/135= .4203E 01 SCAT30-130= .9507E-02

CH42/282 11164 0700H ST619 U SURFACE

THETA	SIGPA THETA	LN SIGPA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	.1112E-02	-.6802E 01	.2108E 01	.8540E-03	.6146E-03	[illegible]	[illegible]
165	.1187E-02	-.6737E 01	.2179E 01	.9112E-03	.6558E-03	.4733E 02	.1162E 02
170	.1266E-02	-.6672E 01	.2230E 01	.9723E-03	.6998E-03	.4436E 02	.1089E 02
175	.1351E-02	-.6607E 01	.2303E 01	.1037E-02	.7466E-03	.4157E 02	.1021E 02
180	.1441E-02	-.6542E 01	.0000E 00	.0000E 00	.0000E 00	.3896E 02	.9567E 01

SCAT= .5616E-01 30/45= .3193E 01 45/135= .3839E 01 SCAT30-130= .1379E-01

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THETA	SIGPA THETA	LN SIGPA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3170E 00	-.1149E 01	-.1927E 00	-.1923E 01	.0000E 00	.1274E 00	.1264E-01
5	.1492E 00	-.1902E 01	-.1010E 01	-.8609E 00	.1217E 02	.2708E 00	.6413E-01
10	.7409E-01	-.2603E 01	-.1595E 01	-.4042E 00	.5292E 01	.5454E 00	.1392E 00
15	.3801E-01	-.3249E 01	-.2061E 01	-.1989E 00	.2358E 01	.1041E 01	.2658E 00
20	.2145E-01	-.3842E 01	-.2417E 01	-.1075E 00	.1105E 01	.1884E 01	.4809E 00
25	.1281E-01	-.4381E 01	-.2793E 01	-.5719E-01	.5190E 00	.3231E 01	.8248E 00
30	.7514E-02	-.4891E 01	-.2851E 01	-.3063E-01	.3043E 00	.5376E 01	.1372E 01
35	.4849E-02	-.5330E 01	-.2870E 01	-.1745E-01	.1517E 00	.8344E 01	.2130E 01
40	.3920E-02	-.5700E 01	-.2811E 01	-.1072E-01	.7710E-01	.1217E 02	.3107E 01
45	.2004E-02	-.6039E 01	-.2624E 01	-.6602E-02	.4723E-01	.1695E 02	.4327E 01
50	.1808E-02	-.6316E 01	-.2621E 01	-.4682E-02	.2318E-01	.2235E 02	.5706E 01
55	.1400E-02	-.6566E 01	-.2811E 01	-.3501E-02	.1289E-01	.2870E 02	.7326E 01
60	.1109E-02	-.6810E 01	-.2107E 01	-.1961E-02	.1764E-01	.3665E 02	.9356E 01
65	.9814E-03	-.6979E 01	-.2784E 01	-.1662E-02	.3430E-02	.4338E 02	.1108E 02
70	.7884E-03	-.7148E 01	-.1916E 01	-.1114E-02	.6258E-02	.5138E 02	.1312E 02
75	.6090E-03	-.7200E 01	-.2519E 01	-.1105E-02	-.7986E-03	.5864E 02	.1497E 02
80	.5057E-03	-.7644E 01	-.1967E 01	-.7544E-03	.4930E-02	.6899E 02	.1761E 02
85	.5198E-03	-.7562E 01	-.1390E 01	-.4690E-03	.3431E-02	.7773E 02	.1984E 02
90	.4801E-03	-.7641E 01	-.1045E 01	-.3022E-03	.1751E-02	.8416E 02	.2149E 02
95	.4597E-03	-.7690E 01	.4846E 00	.5001E-04	.4094E-02	.8905E 02	.2273E 02
100	.4681E-03	-.7668E 01	-.7816E 00	-.1964E-03	-.2824E-02	.8871E 02	.2257E 02
105	.4410E-03	-.7727E 01	.3602E 00	.8630E-04	.3229E-02	.9163E 02	.2339E 02
110	.4484E-03	-.7710E 01	-.4358E 00	-.9858E-04	-.2108E-02	.9011E 02	.2300E 02
115	.4380E-03	-.7729E 01	-.1758E 00	-.3757E-04	.6992E-03	.9187E 02	.2345E 02
120	.4305E-03	-.7737E 01	.1519E 01	.3200E-03	.4097E-02	.9256E 02	.2363E 02
125	.4040E-03	-.7679E 01	.6700E 00	.1417E-03	-.2042E-02	.8700E 02	.2221E 02
130	.4788E-03	-.7644E 01	.2157E 01	.4635E-03	.3687E-02	.8474E 02	.2163E 02
135	.5179E-03	-.7607E 01	.5773E 00	.1250E-03	-.3070E-02	.7818E 02	.1994E 02
140	.5202E-03	-.7546E 01	.1176E 01	.2550E-03	.1481E-02	.7649E 02	.1953E 02
145	.5509E-03	-.7509E 01	.1217E 01	.2658E-03	.1295E-03	.7340E 02	.1874E 02
150	.5737E-03	-.7463E 01	.1258E 01	.2769E-03	.1283E-03	.7043E 02	.1798E 02
155	.5979E-03	-.7422E 01	.1300E 01	.2886E-03	.1337E-03	.6759E 02	.1725E 02
160	.6230E-03	-.7381E 01	.1341E 01	.3008E-03	.1393E-03	.6485E 02	.1656E 02
165	.6490E-03	-.7340E 01	.1382E 01	.3134E-03	.1452E-03	.6223E 02	.1589E 02
170	.6706E-03	-.7298E 01	.1424E 01	[illegible]	.1513E-03	.5972E 02	.1525E 02
175	.7052E-03	-.7257E 01	.1465E 01	[illegible]	.1577E-03	.5730E 02	.1463E 02
180	.7349E-03	[illegible]	.0000E 00	.0000E 00	.0000E 00	.5499E 02	.1404E 02

SCAT= .4042E-01 30/45= .3169E 01 45/135= .4405E 01 SCAT30-130= .1032E-01

CH42/284 11164 0730H ST619 0-600M

THETA	SIGPA THETA	LN SIGPA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1224E 00	-.2101E 01	-.1074E 00	-.7285E 00	.0000E 00	.1517E 00	.4475E-01
5	.5879E-01	-.2834E 01	-.9800E 00	-.3321E 00	.4642E 01	.3158E 00	.9114E-01
10	.2980E-01	-.3513E 01	-.1543E 01	-.1588E 00	.1986E 01	.6229E 00	.1837E 00
15	.1598E-01	-.4139E 01	-.1907E 01	-.7956E-01	.9001E 00	.1164E 01	.3434E 00
20	.9003E-02	-.4710E 01	-.2321E 01	-.4170E-01	.4338E 00	.2062E 01	.6082E 00
25	.5364E-02	-.5228E 01	-.2591E 01	-.2314E-01	.2126E 00	.3461E 01	.1021E 01
30	.3346E-02	-.5700E 01	-.2883E 01	-.1375E-01	.1076E 00	.5550E 01	.1637E 01
35	.2145E-02	-.6145E 01	-.2481E 01	-.6931E-02	.7814E-01	.8658E 01	.2553E 01
40	.1640E-02	-.6476E 01	-.2607E 01	-.4657E-02	.2606E-01	.1706E 02	.3556E 01
45	.1194E-02	-.6702E 01	-.2560E 01	-.3071E-02	.1018E-01	.1630E 02	.4831E 01
50	.8665E-03	-.7052E 01	-.2662E 01	-.2223E-02	.9721E-02	.2145E 02	.6327E 01
55	.6715E-03	-.7306E 01	-.1990E 01	-.1220E-02	.1140E-01	.2705E 02	.8154E 01
60	.5044E-03	-.7480E 01	-.1741E 01	-.8411E-03	.4434E-02	.3289E 02	.9702E 01
65	.4018E-03	-.7619E 01	-.2427E 01	-.9962E-03	-.9754E-03	.3781E 02	.1115E 02
70	.4102E-03	-.7799E 01	-.1696E 01	-.5191E-03	.4668E-02	.4526E 02	.1338E 02
75	.3609E-03	-.7910E 01	-.1896E 01	-.3255E-03	.2219E-02	.5088E 02	.1501E 02
80	.3904E-03	-.7997E 01	-.7958E 00	-.1816E-03	.1649E-02	.5510E 02	.1628E 02
85	.3206E-03	-.8049E 01	-.1329E 01	-.7688E-03	-.9994E-03	.5791E 02	.1708E 02
90	.2971E-03	-.8121E 01	-.1059E 00	-.3405E-04	.2690E-02	.6248E 02	.1843E 02
95	.2962E-03	-.8131E 01	.1995E 01	.3633E-03	.4663E-02	.6311E 02	.1861E 02
100	.3289E-03	-.8029E 01	.7731E 00	.1435E-03	-.2818E-02	.5697E 02	.1680E 02
105	.3004E-03	-.7991E 01	.4659E 00	.8493E-04	-.6716E-03	.5480E 02	.1618E 02
110	.3480E-03	-.7970E 01	-.8645E 00	-.1694E-03	-.2688E-02	.5369E 02	.1583E 02
115	.3380E-03	-.8000E 01	.1129E 01	.1877E-03	.3068E-02	.5579E 02	.1646E 02
120	.3402E-03	-.7960E 01	.2099E 01	.3879E-03	.1951E-02	.5317E 02	.1548E 02
125	.3884E-03	-.7874E 01	.1988E 01	.3635E-03	-.5128E-04	.4881E 02	.1439E 02
130	.4112E-03	-.7794E 01	.4078E 01	.7840E-03	.4934E-02	.4514E 02	.1332E 02
135	.4707E-03	-.7662E 01	.1540E 01	.3166E-03	-.5906E-02	.3871E 02	.1142E 02
140	.5079E-03	-.7586E 01	.2550E 01	.6441E-03	.2606E-02	.3660E 02	.1079E 02
145	.5640E-03	-.7497E 01	.2639E 01	.6998E-03	.5835E-03	.3340E 02	.9870E 01
150	.6007E-03	-.7407E 01	.2729E 01	.6507E-03	.6301E-03	.3060E 02	.9026E 01
155	.6695E-03	-.7810E 01	.2818E 01	.7116E-03	.6970E-03	.2798E 02	.8253E 01
160	.7266E-03	-.7229E 01	.2907E 01	.7787E-03	.7631E-03	.2559E 02	.7547E 01
165	.7986E-03	-.7134E 01	.2997E 01	.8810E-03	.8344E-03	.2340E 02	.6901E 01
170	.8677E-03	-.7050E 01	.3086E 01	.9306E-03	.9127E-03	.2139E 02	.6310E 01
175	.9609E-03	-.6960E 01	.3176E 01	.1018E-02	.9981E-03	.1956E 02	.5770E 01
180	.1098E-02	-.6871E 01	.0000E 00	.0000E 00	.0000E 00	.1789E 02	.5276E 01

SCAT= .1057E-01 30/45= .2981E 01 45/135= .2363E 01 SCAT30-130= .5476E-02

CH42/285 11164 0805H ST619 5-300M

THETA	SIGPA THETA	LN SIGPA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3444E 00	-.1066E 01	-.2168E 00	-.2256E 01	.0000E 00	.1034E 00	.2294E-01
5	.1475E 00	-.1914E 01	-.1129E 01	-.9175E 00	.1834E 02	.2414E 00	.5356E-01
10	.6743E-01	-.2697E 01	-.1769E 01	-.3956E 00	.5980E 01	.5281E 00	.1172E 00
15	.3291E-01	-.3414E 01	-.2266E 01	-.1866E 00	.2468E 01	.1082E 01	.2401E 00
20	.1719E-01	-.4068E 01	-.2629E 01	-.8720E-01	.1071E 01	.2077E 01	.4607E 00
25	.9657E-02	-.4653E 01	-.2934E 01	-.4574E-01	.4864E 00	.3734E 01	.8284E 00
30	.5686E-02	-.5168E 01	-.3293E 01	-.2548E-01	.2268E 00	.6375E 01	.1414E 01
35	.3962E-02	-.5695E 01	-.2462E 01	-.1079E-01	.1683E 00	.1059E 02	.2340E 01
40	.2420E-02	-.6024E 01	-.3157E 01	-.8617E-02	.2500E-01	.1471E 02	.3264E 01
45	.1600E-02	-.6390E 01	-.2488E 01	-.4364E-02	.4867E-01	.2194E 02	.4735E 01
50	.1288E-02	-.6659E 01	-.2441E 01	-.3063E-02	.1491E-01	.2765E 02	.6135E 01
55	.1020E-02	-.6888E 01	-.2125E 01	-.1974E-02	.1248E-01	.3490E 02	.7742E 01
60	.8481E-03	-.7079E 01	-.2680E 01	-.1881E-02	.1062E-02	.4199E 02	.9315E 01
65	.6859E-03	-.7288E 01	-.2136E 01	-.1244E-02	.7295E-02	.5207E 02	.1155E 02
70	.5752E-03	-.7461E 01	-.1489E 01	-.6436E-03	.8998E-02	.6191E 02	.1373E 02
75	.5200E-03	-.7604E 01	-.2549E 01	-.9003E-03	-.2962E-02	.6061E 02	.1522E 02
80	.4405E-03	-.7728E 01	-.9331E 00	-.2777E-03	.7135E-02	.8084E 02	.1794E 02
85	.4202E-03	-.7784E 01	-.1081E 01	-.2679E-03	.1127E-03	.8555E 02	.1898E 02
90	.3929E-03	-.7847E 01	.2019E 00	.4940E-04	.3636E-02	.9064E 02	.2011E 02
95	.3972E-03	-.7831E 01	.3940E 00	.9292E-04	.4587E-03	.8966E 02	.1989E 02
100	.4059E-03	-.7811E 01	.3708E 00	.8479E-04	-.9320E-04	.8786E 02	.1949E 02
105	.4127E-03	-.7793E 01	.2414E 00	.5346E-04	-.3690E-03	.8629E 02	.1914E 02
110	.4174E-03	-.7782E 01	.5028E 00	.1081E-03	.6261E-03	.8532E 02	.1893E 02
115	.4208E-03	-.7759E 01	.1127E 01	.2402E-03	.1514E-02	.8344E 02	.1851E 02
120	.4470E-03	-.7711E 01	.2862E 01	.6360E-03	.4535E-02	.7953E 02	.1764E 02
125	.5039E-03	-.7594E 01	.3278E 01	.7904E-03	.1770E-02	.7076E 02	.1570E 02
130	.5722E-03	-.7466E 01	.5726E 01	.1502E-02	.9067E-02	.6223E 02	.1381E 02
135	.7180E-03	-.7290E 01	.2040E 01	.6769E-03	-.1094E-04	.5014E 02	.1112E 02
140	.7050E-03	-.7176E 01	.3601E 01	.1181E-02	.6347E-02	.4655E 02	.1033E 02
145	.8000E-03	-.7049E 01	.3728E 01	.1340E-02	.1828E-02	.4102E 02	.9101E 01
150	.9049E-03	-.6923E 01	.3854E 01	.1520E-02	.2068E-02	.3615E 02	.8021E 01
155	.1010E-02	-.6797E 01	.3980E 01	.1725E-02	.2347E-02	.3186E 02	.7069E 01
160	.1200E-02	-.6670E 01	.4107E 01	.1958E-02	.2663E-02	.2800E 02	.6229E 01
165	.1400E-02	-.6544E 01	.4233E 01	.2221E-02	.3022E-02	.2475E 02	.5400E 01
170	.1853E-02	-.6417E 01	.4360E 01	.2521E-02	.3429E-02	.2181E 02	.4838E 01
175	.1865E-02	-.6291E 01	.4486E 01	.2860E-02	.3891E-02	.1922E 02	.4264E 01
180	.2102E-02	-.6165E 01	.0000E 00	.0000E 00	.0000E 00	.1694E 02	.3758E 01

SCAT= .3561E-01 30/45= .3348E 01 45/135= .2349E 01 SCAT30-130= .7900E-02

CH42/286 11164 0825H ST619 10-1000M

THETA	SIGPA THETA	LN SIGPA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1469E 00	-.1925E 01	-.1797E 00	-.8439E 00	.0000E 00	.1604E 00	.4839E-01
5	.7229E-01	-.2620E 01	-.9438E 00	-.3974E 00	.5116E 01	.3238E 00	.9772E-01
10	.3767E-01	-.3287E 01	-.1493E 01	-.1955E 00	.2314E 01	.6220E 00	.1879E 00
15	.2008E-01	-.3907E 01	-.1934E 01	-.1003E 00	.1090E 01	.1141E 01	.3442E 00
20	.1176E-01	-.4443E 01	-.2275E 01	-.5364E-01	.5348E 00	.1990E 01	.6005E 00
25	.7077E-02	-.4951E 01	-.2532E 01	-.2999E-01	.2710E 00	.3306E 01	.9976E 00
30	.4400E-02	-.5419E 01	-.2898E 01	-.1841E-01	.1327E 00	.5240E 01	.1583E 01
35	.2869E-02	-.5859E 01	-.2512E 01	-.9310E-02	.1042E 00	.8700E 01	.2474E 01
40	.2040E-02	-.6195E 01	-.2587E 01	-.6147E-02	.3640E-01	.1147E 02	.3461E 01
45	.1604E-02	-.6499E 01	-.2774E 01	-.4969E-02	.2031E-01	.1555E 02	.4694E 01
50	.1129E-02	-.6797E 01	-.2200E 01	-.2434E-02	.2217E-01	.2083E 02	.6287E 01
55	.9186E-03	-.7001E 01	-.1982E 01	-.1653E-02	.8947E-02	.2549E 02	.7753E 01
60	.7444E-03	-.7174E 01	-.2886E 01	-.1811E-02	-.1810E-02	.3053E 02	.9713E 01
65	.6009E-03	-.7405E 01	-.2152E 01	-.1028E-02	.8979E-02	.3848E 02	.1161E 02
70	.5106E-03	-.7564E 01	-.1444E 01	-.5634E-03	.5310E-02	.4511E 02	.1361E 02
75	.4009E-03	-.7664E 01	-.1940E 01	-.6930E-03	-.7951E-03	.4984E 02	.1504E 02
80	.4142E-03	-.7789E 01	-.3787E 00	-.1077E-03	.6019E-02	.5649E 02	.1705E 02
85	.4040E-03	-.7812E 01	-.3901E 00	-.1023E-03	.6225E-04	.5780E 02	.1744E 02
90	.3859E-03	-.7834E 01	-.4398E 00	-.1066E-03	-.4927E-04	.5910E 02	.1784E 02
95	.3880E-03	-.7850E 01	.1070E 00	.2457E-04	.1509E-02	.6052E 02	.1826E 02
100	.3887E-03	-.7853E 01	.8723E 00	.1937E-03	.1938E-02	.6019E 02	.1816E 02
105	.4050E-03	-.7810E 01	.2960E 00	.6444E-04	-.1401E-02	.5768E 02	.1741E 02
110	.4112E-03	-.7796E 01	-.5031E 00	-.1042E-03	-.1933E-02	.5689E 02	.1717E 02
115	.4022E-03	-.7819E 01	.1140E 01	.2307E-03	.3037E-02	.5814E 02	.1756E 02
120	.4229E-03	-.7770E 01	.1725E 01	.3531E-03	.1403E-02	.5541E 02	.1672E 02
125	.4651E-03	-.7699E 01	.1052E 01	.2187E-03	-.1640E-02	.5164E 02	.1558E 02
130	.4772E-03	-.7650E 01	.2947E 01	.6364E-03	.4789E-02	.4955E 02	.1495E 02
135	.5199E-03	-.7547E 01	.1271E 01	.2861E-03	-.4016E-02	.4434E 02	.1338E 02
140	.5827E-03	-.7801E 01	.1867E 01	.4288E-03	.1635E-02	.4233E 02	.1277E 02
145	.5901E-03	-.7439E 01	.1932E 01	.4670E-03	.3327E-03	.3965E 02	.1196E 02
150	.6801E-03	-.7370E 01	.1998E 01	.4880E-03	.3552E-03	.3713E 02	.1121E 02
155	.6727E-03	-.7304E 01	.2063E 01	.5219E-03	.3792E-03	.3478E 02	.1050E 02
160	.7188E-03	-.7239E 01	.2129E 01	.5672E-03	.4049E-03	.3257E 02	.9830E 01
165	.7600E-03	-.7173E 01	.2194E 01	.5990E-03	.4320E-03	.3051E 02	.9207E 01
170	.8190E-03	-.7108E 01	.2260E 01	.6352E-03	.4616E-03	.2857E 02	.8623E 01
175	.8749E-03	-.7042E 01	.2325E 01	.6782E-03	.4928E-03	.2678E 02	.8076E 01
180	.9334E-03	-.6977E 01	.0000E 00	.0000E 00	.0000E 00	.2507E 02	.7564E 01

SCAT= .2940E-01 30/45= .2965E 01 45/135= .2851E 01 SCAT30-130= .7061E-02

CH42/287 11164 0846H ST619 4-210M

THETA	SIGPA THETA	LN SIGPA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2900E 00	-.1470E 01	-.1713E 00	-.1287E 01	.0000E 00	.1661E 00	.4967E-01
5	.1177E 00	-.2140E 01	-.9021E 00	-.6270E 00	.7668E 01	.3247E 00	.9670E-01
10	.6290E-01	-.2769E 01	-.1431E 01	-.3178E 00	.3843E 01	.6067E 00	.1807E 00
15	.3489E-01	-.3355E 01	-.1864E 01	-.1679E 00	.1772E 01	.1004E 01	.3279E 00
20	.2008E-01	-.3881E 01	-.2190E 01	-.9168E-01	.8685E 00	.1852E 01	.5516E 00
25	.1309E-01	-.4371E 01	-.2545E 01	-.5374E-01	.4347E 00	.3025E 01	.9009E 00
30	.7948E-02	-.4839E 01	-.2586E 01	-.2976E-01	.2749E 00	.4811E 01	.1433E 01
35	.5044E-02	-.5231E 01	-.2744E 01	-.1879E-01	.1266E 00	.7148E 01	.2129E 01
40	.3708E-02	-.5590E 01	-.2645E 01	-.1137E-01	.8510E-01	.1031E 02	.3071E 01
45	.2814E-02	-.6000E 01	-.2586E 01	-.7293E-02	.4688E-01	.1400E 02	.4108E 01
50	.2070E-02	-.6170E 01	-.3014E 01	-.5945E-02	.1649E-01	.1839E 02	.5478E 01
55	.1509E-02	-.6444E 01	-.2497E 01	-.3488E-02	.2016E-01	.2451E 02	.7300E 01
60	.1255E-02	-.6681E 01	-.2313E 01	-.2429E-02	.1213E-01	.3048E 02	.9071E 01
65	.1049E-02	-.6860E 01	-.2462E 01	-.1993E-02	.5005E-02	.3665E 02	.1092E 02
70	.8607E-03	-.7049E 01	-.2099E 01	-.1804E-02	.2157E-02	.4399E 02	.1310E 02
75	.7118E-03	-.7200E 01	-.1916E 01	-.7640E-03	.1197E-01	.5073E 02	.1600E 02
80	.6449E-03	-.7348E 01	-.2297E 01	-.9449E-03	-.2121E-02	.5925E 02	.1765E 02
85	.5620E-03	-.7409E 01	-.8501E 00	-.3085E-03	-.7293E-02	.6794E 02	.2028E 02
90	.5065E-03	-.7632E 01	-.1481E 01	-.4722E-03	-.1077E-02	.7135E 02	.2175E 02
95	.4940E-03	-.7612E 01	-.1906E 00	-.6741E-04	.4764E-02	.7730E 02	.2307E 02
100	.4890E-03	-.7623E 01	.2666E 00	.7341E-04	.1499E-02	.7609E 02	.2326E 02
105	.4890E-03	-.7600E 01	-.5676E 00	-.1440E-03	-.2637E-02	.7700E 02	.2286E 02
110	.4830E-03	-.7636E 01	-.9165E 00	-.2209E-03	-.8348E-03	.7915E 02	.2357E 02
115	.4859E-03	-.7677E 01	.2539E 00	.8770E-04	.3192E-02	.8244E 02	.2455E 02
120	.4804E-03	-.7640E 01	.1921E 01	.4300E-03	.4350E-02	.8155E 02	.2429E 02
125	.5000E-03	-.7507E 01	.5645E 00	.1300E-03	-.3609E-02	.7540E 02	.2246E 02
130	.5101E-03	-.7565E 01	.2319E 01	.5430E-03	.4732E-02	.7375E 02	.2197E 02
135	.5080E-03	-.7470E 01	.9969E 00	.2042E-03	-.3465E-02	.6757E 02	.2013E 02
140	.5081E-03	-.7444E 01	.1420E 01	.3475E-03	.1356E-02	.6531E 02	.1945E 02
145	.6200E-03	-.7396E 01	.1470E 01	.3600E-03	.2005E-03	.6214E 02	.1851E 02
150	.6404E-03	-.7344E 01	.1519E 01	.3784E-03	.2107E-03	.5913E 02	.1761E 02
155	.6794E-03	-.7294E 01	.1569E 01	.3977E-03	.2219E-03	.5624E 02	.1675E 02
160	.7142E-03	-.7244E 01	.1619E 01	.4180E-03	.2328E-03	.5351E 02	.1594E 02
165	.7500E-03	-.7195E 01	.1669E 01	.4393E-03	.2447E-03	.5091E 02	.1516E 02
170	.7809E-03	-.7145E 01	.1719E 01	.4618E-03	.2572E-03	.4844E 02	.1443E 02
175	.8292E-03	-.7095E 01	.1768E 01	.4854E-03	.2703E-03	.4608E 02	.1373E 02
180	.8716E-03	-.7045E 01	.0000E 00	.0000E 00	.0000E 00	.4384E 02	.1306E 02

SCAT= .5021E-01 30/45= .2926E 01 45/135= .4799E 01 SCAT30-130= .1138E-01

CH42/288 11164 0906H ST619 3-100M

THETA	SIGPA THETA	LN SIGPA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1949E 00	-.1639E 01	-.1679E 00	-.1076E 01	.0000E 00	.1772E 00	.5446E-01
5	.1011E 00	-.2292E 01	-.8460E 00	-.5310E 00	.6041E 01	.3418E 00	.1054E 00
10	.5479E-01	-.2905E 01	-.1406E 01	-.2725E 00	.2963E 01	.6313E 00	.1947E 00
15	.3050E-01	-.3475E 01	-.1830E 01	-.1452E 00	.1459E 01	.1116E 01	.3443E 00
20	.1829E-01	-.4002E 01	-.2165E 01	-.8026E-01	.7440E 00	.1890E 01	.5829E 00
25	.1120E-01	-.4489E 01	-.2522E 01	-.4764E-01	.3730E 00	.3063E 01	.9448E 00
30	.7121E-02	-.4945E 01	-.2543E 01	-.2646E-01	.2427E 00	.4851E 01	.1496E 01
35	.4812E-02	-.5337E 01	-.2688E 01	-.1663E-01	.1127E 00	.7180E 01	.2215E 01
40	.3561E-02	-.5640E 01	-.2633E 01	-.1027E-01	.7290E-01	.1070E 02	.3171E 01
45	.2400E-02	-.6000E 01	-.2515E 01	-.6573E-02	.4290E-01	.1402E 02	.4329E 01
50	.1801E-02	-.6271E 01	-.2862E 01	-.5174E-02	.1606E-01	.1877E 02	.5635E 01
55	.1440E-02	-.6543E 01	-.2567E 01	-.3375E-02	.2110E-01	.2400E 02	.7402E 01
60	.1140E-02	-.6769E 01	-.2015E 01	-.1962E-02	.1563E-01	.3060E 02	.9271E 01
65	.9702E-03	-.6930E 01	-.2738E 01	-.2050E-02	-.1100E-02	.3532E 02	.1089E 02
70	.7985E-03	-.7133E 01	-.1964E 01	-.1160E-02	.1090E-01	.4324E 02	.1334E 02
75	.6970E-03	-.7280E 01	-.2003E 01	-.1040E-02	.1100E-02	.4954E 02	.1528E 02
80	.6050E-03	-.7410E 01	-.1501E 01	-.6610E-03	.5224E-02	.5711E 02	.1761E 02
85	.5829E-03	-.7801E 01	-.1391E 01	-.4637E-03	.1597E-02	.6255E 02	.1929E 02
90	.5219E-03	-.7677E 01	-.4684E 00	-.1467E-03	.3633E-02	.6749E 02	.2082E 02
95	.4981E-03	-.7603E 01	.4934E 00	.1346E-03	.3079E-02	.6923E 02	.2135E 02
100	.5108E-03	-.7580E 01	-.7417E 00	-.2080E-03	-.3920E-02	.6763E 02	.2086E 02
105	.4980E-03	-.7610E 01	.5300E 00	.1427E-03	.4020E-02	.7013E 02	.2163E 02
110	.5051E-03	-.7591E 01	-.9415E 00	-.2372E-03	-.4394E-02	.6840E 02	.2110E 02
115	.4864E-03	-.7633E 01	-.2049E 00	-.6690E-04	.1952E-02	.7132E 02	.2200E 02
120	.4784E-03	-.7345E 01	.2210E 01	.5117E-03	.6699E-02	.7219E 02	.2227E 02
125	.5237E-03	-.7555E 01	.1560E 01	.3704E-03	-.1090E-02	.6590E 02	.2033E 02
130	.5660E-03	-.7493E 01	.3630E 01	.9105E-03	.4180E-02	.6205E 02	.1914E 02
135	.6000E-03	-.7390E 01	.9940E 00	.2419E-03	-.7000E-02	.5600E 02	.1748E 02
140	.6890E-03	-.7324E 01	.2007E 01	.5516E-03	.3049E-02	.5730E 02	.1619E 02
145	.7090E-03	-.7253E 01	.2077E 01	.5910E-03	.4610E-03	.4806E 02	.1508E 02
150	.7590E-03	-.7183E 01	.2146E 01	.6350E-03	.4946E-03	.4540E 02	.1403E 02
155	.8180E-03	-.7112E 01	.2218E 01	.6814E-03	.5309E-03	.4258E 02	.1300E 02
160	.8744E-03	-.7042E 01	.2280E 01	.7311E-03	.5690E-03	.3951E 02	.1219E 02
165	.9380E-03	-.6972E 01	.2350E 01	.7844E-03	.6110E-03	.3682E 02	.1134E 02
170	.1007E-02	-.6901E 01	.2429E 01	.8416E-03	.6558E-03	.3432E 02	.1059E 02
175	.1080E-02	-.6831E 01	.2500E 01	.9030E-03	.7036E-03	.3198E 02	.9865E 01
180	.1159E-02	-.6760E 01	.0000E 00	.0000E 00	.0000E 00	.2981E 02	.9195E 01

SCAT= .3458E-01 30/45= .2809E 01 45/135= .3859E 01 SCAT30-130= .1066E-01

CH42/269 11164 0920H ST619 7-500M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2147E 00	-.1539E 01	-.1952E 00	-.1314E 01	.0000E 00	.1311E 00	.3577E-01
5	.1001E 00	-.2302E 01	-.1019E 01	-.6810E 00	.8398E 01	.2813E 00	.7679E-01
10	.4937E-01	-.3009E 01	-.1602E 01	-.2703E 00	.3560E 01	.5702E 00	.1555E 00
15	.2570E-01	-.3659E 01	-.2061E 01	-.1371E 00	.1583E 01	.1092E 01	.2978E 00
20	.1425E-01	-.4251E 01	-.2402E 01	-.6776E-01	.7377E 00	.1975E 01	.5388E 00
25	.8359E-02	-.4787E 01	-.2667E 01	-.3680E-01	.3548E 00	.3376E 01	.9209E 00
30	.5128E-02	-.5273E 01	-.3064E 01	-.2212E-01	.1682E 00	.5490E 01	.1498E 01
35	.3190E-02	-.5745E 01	-.2475E 01	-.1031E-01	.1353E 00	.8804E 01	.2401E 01
40	.2290E-02	-.6078E 01	-.2410E 01	-.6507E-02	.4360E-01	.1225E 02	.3342E 01
45	.1700E-02	-.6380E 01	-.2820E 01	-.5096E-02	.1618E-01	.1627E 02	.4439E 01
50	.1205E-02	-.6657E 01	-.2367E 01	-.2974E-02	.2431E-01	.2190E 02	.5975E 01
55	.1026E-02	-.6882E 01	-.2512E 01	-.2307E-02	.7643E-02	.2745E 02	.7487E 01
60	.8244E-03	-.7101E 01	-.2539E 01	-.1737E-02	.6531E-02	.3415E 02	.9315E 01
65	.6727E-03	-.7304E 01	-.1932E 01	-.1029E-02	.8123E-02	.4185E 02	.1141E 02
70	.5830E-03	-.7447E 01	-.2316E 01	-.9867E-03	.4804E-03	.4829E 02	.1317E 02
75	.4980E-03	-.7607E 01	-.1875E 01	-.6488E-03	.3871E-02	.5668E 02	.1546E 02
80	.4402E-03	-.7728E 01	-.9245E 00	-.2750E-03	.4284E-02	.6395E 02	.1744E 02
85	.4162E-03	-.7784E 01	-.5791E 00	-.1553E-03	.1371E-02	.6764E 02	.1845E 02
90	.4027E-03	-.7817E 01	-.2548E 00	-.6315E-04	.1056E-02	.6991E 02	.1907E 02
95	.3972E-03	-.7831E 01	.5377E 00	.1273E-03	.2182E-02	.7088E 02	.1933E 02
100	.4083E-03	-.7804E 01	.3050E 00	.7015E-04	-.6546E-03	.6896E 02	.1981E 02
105	.4144E-03	-.7789E 01	-.2485E 00	-.5458E-04	-.1429E-02	.6794E 02	.1853E 02
110	.4097E-03	-.7800E 01	-.9114E 00	-.1864E-03	-.1510E-02	.6873E 02	.1875E 02
115	.3934E-03	-.7841E 01	.1213E 01	.2388E-03	.4872E-02	.7157E 02	.1952E 02
120	.4142E-03	-.7789E 01	.1181E 01	.2345E-03	-.4960E-04	.6797E 02	.1854E 02
125	.4347E-03	-.7741E 01	.9252E 00	.1841E-03	-.5778E-03	.6477E 02	.1767E 02
130	.4500E-03	-.7705E 01	.2008E 01	.4066E-03	.2550E-02	.6246E 02	.1704E 02
135	.4863E-03	-.7629E 01	.1151E 01	.2341E-03	-.1934E-02	.5790E 02	.1579E 02
140	.5070E-03	-.7587E 01	.1448E 01	.3029E-03	.7425E-03	.5553E 02	.1515E 02
145	.5336E-03	-.7536E 01	.1499E 01	.3187E-03	.1810E-03	.5278E 02	.1439E 02
150	.5615E-03	-.7485E 01	.1550E 01	.3353E-03	.1904E-03	.5016E 02	.1368E 02
155	.5905E-03	-.7434E 01	.1601E 01	.3528E-03	.2003E-03	.4768E 02	.1300E 02
160	.6219E-03	-.7384E 01	.1652E 01	.3712E-03	.2108E-03	.4531E 02	.1236E 02
165	.6597E-03	-.7333E 01	.1702E 01	.3905E-03	.2218E-03	.4307E 02	.1175E 02
170	.6878E-03	-.7282E 01	.1753E 01	.4109E-03	.2333E-03	.4093E 02	.1116E 02
175	.7236E-03	-.7231E 01	.1804E 01	.4323E-03	.2455E-03	.3891E 02	.1061E 02
180	.7614E-03	-.7180E 01	.0000E 00	.0000E 00	.0000E 00	.3698E 02	.1009E 02

SCAT* .2815E-01 30/45* .2964E 01 45/135* .3558E 01 SCAT30-130* .7679E-02

CH42/270 11164 0950H ST619 6-400M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.4714E 00	-.7520E 00	-.1855E 00	-.2787E 01	.0000E 00	.1373E 00	.3646E-01
5	.2282E 00	-.1478E 01	-.9747E 00	-.1284E 01	.1722E 02	.2838E 00	.7533E-01
10	.1181E 00	-.2153E 01	-.1543E 01	-.6188E 00	.7626E 01	.5574E 00	.1480E 00
15	.6211E-01	-.2779E 01	-.2001E 01	-.3115E 00	.3622E 01	.1042E 01	.2768E 00
20	.3492E-01	-.3355E 01	-.2356E 01	-.1636E 00	.1695E 01	.1853E 01	.4922E 00
25	.2084E-01	-.3880E 01	-.2609E 01	-.9166E-01	.8748E 00	.3136E 01	.8328E 00
30	.1284E-01	-.4371E 01	-.2724E 01	-.4968E-01	.4811E 00	.5120E 01	.1360E 01
35	.8507E-02	-.4791E 01	-.2826E 01	-.2993E-01	.2263E 00	.7791E 01	.2069E 01
40	.5696E-02	-.5168E 01	-.2973E 01	-.1928E-01	.1220E 00	.1138E 02	.3018E 01
45	.4019E-02	-.5510E 01	-.2468E 01	-.1093E-01	.1003E 00	.1613E 02	.4243E 01
50	.3094E-02	-.5778E 01	-.2514E 01	-.7554E-02	.3411E-01	.2092E 02	.5556E 01
55	.2435E-02	-.6018E 01	-.3090E 01	-.6578E-02	.1119E-01	.2659E 02	.7060E 01
60	.1861E-02	-.6287E 01	-.2417E 01	-.3751E-02	.3239E-01	.3478E 02	.9237E 01
65	.1539E-02	-.6480E 01	-.2371E 01	-.2831E-02	.1054E-01	.4221E 02	.1121E 02
70	.1286E-02	-.6658E 01	-.2171E 01	-.2051E-02	.8941E-02	.5032E 02	.1336E 02
75	.1107E-02	-.6806E 01	-.2616E 01	-.1972E-02	.9096E-03	.5845E 02	.1542E 02
80	.9359E-03	-.6975E 01	-.1479E 01	-.9190E-03	.1206E-01	.6920E 02	.1838E 02
85	.8851E-03	-.7064E 01	-.1689E 01	-.9016E-03	.2001E-03	.7569E 02	.2010E 02
90	.7765E-03	-.7161E 01	-.5753E 00	-.2725E-03	.7209E-02	.8336E 02	.2214E 02
95	.7527E-03	-.7192E 01	-.6034E 00	-.2624E-03	.1102E-03	.8599E 02	.2284E 02
100	.7297E-03	-.7223E 01	-.8230E 00	-.3291E-03	-.7592E-03	.8870E 02	.2356E 02
105	.7010E-03	-.7265E 01	-.4044E-02	-.1511E-05	.3754E-02	.9233E 02	.2452E 02
110	.7009E-03	-.7263E 01	-.1120E 01	-.3902E-03	-.4454E-02	.9235E 02	.2452E 02
115	.6680E-03	-.7313E 01	.3607E 00	.1248E-03	.5902E-02	.9708E 02	.2578E 02
120	.6777E-03	-.7297E 01	.5391E 00	.1728E-03	.5499E-03	.9550E 02	.2536E 02
125	.6920E-03	-.7275E 01	.1050E 01	.3339E-03	.1846E-02	.9342E 02	.2481E 02
130	.7219E-03	-.7234E 01	.2352E 01	.7678E-03	.4977E-02	.8965E 02	.2381E 02
135	.7009E-03	-.7149E 01	.3674E 00	.1216E-03	-.7405E-02	.8204E 02	.2179E 02
140	.7996E-03	-.7131E 01	.1138E 01	.3734E-03	.2885E-02	.8095E 02	.2150E 02
145	.8321E-03	-.7097E 01	.1179E 01	.3886E-03	.1744E-03	.7778E 02	.2066E 02
150	.8661E-03	-.7052E 01	.1218E 01	.4045E-03	.1815E-03	.7474E 02	.1985E 02
155	.9014E-03	-.7012E 01	.1258E 01	.4210E-03	.1889E-03	.7181E 02	.1907E 02
160	.9381E-03	-.6972E 01	.1298E 01	.4381E-03	.1966E-03	.6900E 02	.1832E 02
165	.9765E-03	-.6932E 01	.1338E 01	.4560E-03	.2044E-03	.6629E 02	.1761E 02
170	.1026E-02	-.6892E 01	.1378E 01	.4745E-03	.2129E-03	.6370E 02	.1692E 02
175	.1058E-02	-.6852E 01	.1418E 01	.4939E-03	.2216E-03	.6120E 02	.1625E 02
180	.1101E-02	-.6812E 01	.0000E 00	.0000E 00	.0000E 00	.5881E 02	.1562E 02

SCAT* .6472E-01 30/45* .3150E 01 45/135* .5087E 01 SCAT30-130* .1719E-01

CH42/271 11164 1018H ST619 9-800M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1990E 00	-.1614E 01	-.1682E 00	-.1099E 01	.0000E 00	.1744E 00	.5405E-01
5	.1081E 00	-.2272E 01	-.8867E 00	-.5423E 00	.6386E 01	.3367E 00	.1044E 00
10	.5674E-01	-.2887E 01	-.1409E 01	-.2780E 00	.3070E 01	.6225E 00	.1930E 00
15	.3149E-01	-.3458E 01	-.1835E 01	-.1480E 00	.1490E 01	.1102E 01	.3416E 00
20	.1867E-01	-.3986E 01	-.2171E 01	-.8172E-01	.7592E 00	.1868E 01	.5792E 00
25	.1144E-01	-.4471E 01	-.2501E 01	-.4801E-01	.3861E 00	.3033E 01	.9402E 00
30	.7251E-02	-.4927E 01	-.2717E 01	-.2843E-01	.2243E 00	.4786E 01	.1483E 01
35	.4770E-02	-.5345E 01	-.2561E 01	-.1583E-01	.1444E 00	.7275E 01	.2255E 01
40	.3388E-02	-.5687E 01	-.2599E 01	-.1074E-01	.6400E-01	.1024E 02	.3175E 01
45	.2498E-02	-.5994E 01	-.2712E 01	-.7105E-02	.3591E-01	.1391E 02	.4312E 01
50	.1875E-02	-.6279E 01	-.2930E 01	-.5234E-02	.2145E-01	.1851E 02	.5738E 01
55	.1418E-02	-.6559E 01	-.2089E 01	-.2701E-02	.2903E-01	.2447E 02	.7586E 01
60	.1182E-02	-.6740E 01	-.2310E 01	-.2287E-02	.4737E-02	.2935E 02	.9098E 01
65	.9837E-03	-.6925E 01	-.2168E 01	-.1672E-02	.7056E-02	.3531E 02	.1095E 02
70	.8380E-03	-.7086E 01	-.2277E 01	-.1394E-02	.3181E-02	.4147E 02	.1285E 02
75	.7152E-03	-.7243E 01	-.1605E 01	-.8444E-03	.6298E-02	.4852E 02	.1504E 02
80	.6415E-03	-.7352E 01	-.2014E 01	-.8448E-03	-.5334E-05	.5405E 02	.1677E 02
85	.5678E-03	-.7474E 01	-.1308E 01	-.4686E-03	.4312E-02	.6132E 02	.1895E 02
90	.5269E-03	-.7549E 01	-.9877E 00	-.3140E-03	.1772E-02	.6585E 02	.2042E 02
95	.4995E-03	-.7602E 01	.3923E 00	.1161E-03	.4931E-02	.6947E 02	.2154E 02
100	.5096E-03	-.7582E 01	.2088E 00	.5981E-04	-.6477E-03	.6809E 02	.2111E 02
105	.5140E-03	-.7572E 01	-.4540E 00	-.1244E-03	-.2114E-02	.6740E 02	.2089E 02
110	.5040E-03	-.7593E 01	.1046E 00	.2690E-04	.1736E-02	.6885E 02	.2134E 02
115	.5061E-03	-.7588E 01	.4783E 00	.1193E-03	.1069E-02	.6853E 02	.2124E 02
120	.5167E-03	-.7568E 01	-.1057E 00	-.2550E-04	-.1660E-02	.6715E 02	.2082E 02
125	.5145E-03	-.7572E 01	.7668E 00	.1900E-03	.2356E-02	.6744E 02	.2091E 02
130	.5502E-03	-.7642E 01	.1804E 01	.4290E-03	.2842E-02	.6545E 02	.2029E 02
135	.5676E-03	-.7474E 01	.7535E-01	.1785E-04	-.4700E-02	.6114E 02	.1896E 02
140	.5691E-03	-.7471E 01	.7241E 00	.1678E-03	.1719E-02	.6097E 02	.1890E 02
145	.5858E-03	-.7446E 01	.7495E 00	.1722E-03	.4450E-04	.5944E 02	.1843E 02
150	.5988E-03	-.7421E 01	.7749E 00	.1766E-03	.5077E-04	.5795E 02	.1796E 02
155	.6242E-03	-.7399E 01	.8003E 00	.1811E-03	.5207E-04	.5650E 02	.1751E 02
160	.6380E-03	-.7370E 01	.8257E 00	.1858E-03	.5343E-04	.5508E 02	.1707E 02
165	.6482E-03	-.7344E 01	.8512E 00	.1906E-03	.5478E-04	.5370E 02	.1664E 02
170	.6629E-03	-.7319E 01	.8766E 00	.1955E-03	.5620E-04	.5235E 02	.1623E 02
175	.6799E-03	-.7294E 01	.9020E 00	.2005E-03	.5766E-04	.5104E 02	.1582E 02
180	.6974E-03	-.7268E 01	.0000E 00	.0000E 00	.0000E 00	.4978E 02	.1542E 02

SCAT* .3470E-01 30/45* .2906E 01 45/135* .4396E 01 SCAT30-130* .1076E-01

CH42/272 11164 1415H ST620 38 58N 69 53W PIPE SURF

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.4022E 00	-.9107E 00	-.1671E 00	-.2211E 01	.0000E 00	.1565E 00	.4055E-01
5	.2099E 00	-.1564E 01	-.8902E 00	-.1104E 01	.1269E 02	.3007E 00	.7793E-01
10	.1129E 00	-.2181E 01	-.1432E 01	-.5699E 00	.6124E 01	.5574E 00	.1444E 00
15	.6510E-01	-.2762E 01	-.1892E 01	-.3039E 00	.3049E 01	.9961E 00	.2581E 00
20	.3666E-01	-.3306E 01	-.2276E 01	-.1673E 00	.1565E 01	.1717E 01	.4448E 00
25	.2206E-01	-.3814E 01	-.2593E 01	-.9526E-01	.8256E 00	.2853E 01	.7392E 00
30	.1375E-01	-.4287E 01	-.3114E 01	-.6007E-01	.4032E 00	.4577E 01	.1186E 01
35	.8508E-02	-.4767E 01	-.2716E 01	-.2965E-01	.3486E 00	.7397E 01	.1917E 01
40	.5921E-02	-.5129E 01	-.3008E 01	-.2024E-01	.1078E 00	.1063E 02	.2755E 01
45	.4164E-02	-.5484E 01	-.3392E 01	-.1431E-01	.6802E-01	.1515E 02	.3926E 01
50	.2906E-02	-.5841E 01	-.2720E 01	-.7603E-02	.7681E-01	.2166E 02	.5613E 01
55	.2242E-02	-.6100E 01	-.3068E 01	-.6020E-02	.1814E-01	.2807E 02	.7273E 01
60	.1717E-02	-.6367E 01	-.2301E 01	-.3309E-02	.3107E-01	.3666E 02	.9499E 01
65	.1420E-02	-.6551E 01	-.3246E 01	-.3499E-02	-.2174E-02	.4407E 02	.1142E 02
70	.1125E-02	-.6792E 01	-.2921E 01	-.2349E-02	.1318E-01	.5605E 02	.1453E 02
75	.9179E-03	-.6993E 01	-.2231E 01	-.1411E-02	.1075E-01	.6857E 02	.1777E 02
80	.7948E-03	-.7137E 01	-.1721E 01	-.6496E-03	.8770E-02	.7919E 02	.2057E 02
85	.7381E-03	-.7211E 01	-.2761E 01	-.1235E-02	-.6705E-02	.8577E 02	.2210E 02
90	.6308E-03	-.7369E 01	-.9850E 00	-.3746E-03	.9856E-02	.9985E 02	.2587E 02
95	.5976E-03	-.7423E 01	.8682E-01	.3057E-04	.4643E-02	.1053E 03	.2729E 02
100	.6003E-03	-.7418E 01	-.1286E 01	-.4183E-03	-.5144E-02	.1048E 03	.2717E 02
105	.5646E-03	-.7481E 01	-.3129E 00	-.9337E-04	.3723E-02	.1116E 03	.2893E 02
110	.5557E-03	-.7495E 01	-.4233E 00	-.1187E-03	-.2901E-03	.1133E 03	.2935E 02
115	.5459E-03	-.7514E 01	.2581E 00	.6902E-04	.2151E-02	.1154E 03	.2991E 02
120	.5519E-03	-.7503E 01	.3060E 00	.7947E-04	.1192E-03	.1142E 03	.2958E 02
125	.5589E-03	-.7491E 01	.8939E 00	.2282E-03	.1705E-02	.1127E 03	.2921E 02
130	.5782E-03	-.7456E 01	.1542E 01	.3970E-03	.1933E-02	.1089E 03	.2821E 02
135	.6120E-03	-.7397E 01	.2904E 00	.7663E-04	-.3671E-02	.1027E 03	.2661E 02
140	.6196E-03	-.7387E 01	.8006E 00	.2023E-03	.1440E-02	.1016E 03	.2633E 02
145	.6372E-03	-.7358E 01	.8287E 00	.2080E-03	.6605E-04	.9878E 02	.2560E 02
150	.6555E-03	-.7330E 01	.8568E 00	.2140E-03	.6792E-04	.9604E 02	.2489E 02
155	.6740E-03	-.7302E 01	.8849E 00	.2201E-03	.6987E-04	.9338E 02	.2420E 02
160	.6932E-03	-.7274E 01	.9130E 00	.2263E-03	.7185E-04	.9079E 02	.2353E 02
165	.7129E-03	-.7246E 01	.9411E 00	.2328E-03	.7390E-04	.8828E 02	.2288E 02
170	.7595E-03	-.7218E 01	.9692E 00	.2394E-03	.7601E-04	.8583E 02	.2224E 02
175	.7642E-03	-.7190E 01	.9973E 00	.2462E-03	.7817E-04	.8345E 02	.2163E 02
180	.7756E-03	-.7162E 01	.0000E 00	.0000E 00	.0000E 00	.8114E 02	.2103E 02

SCAT* .6296E-01 30/45* .3310E 01 45/135* .6779E 01 SCAT30-130* .1631E-01

CH42/273 11164 1435H ST620 1-SURFACE

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.5504E 00	-.5968E 00	-.1854E 00	-.3754E 01	.0000E 00	.1302E 00	.3109E-01
5	.2666E 00	-.1322E 01	-.9773E 00	-.1504E 01	.2006E 02	.2689E 00	.6421E-01
10	.1384E 00	-.1999E 01	-.1553E 01	-.7252E 00	.8819E 01	.5294E 00	.1264E 00
15	.7325E-01	-.2620E 01	-.2023E 01	-.3448E 00	.4129E 01	.9939E 00	.2373E 00
20	.4051E-01	-.3211E 01	-.2395E 01	-.1912E 00	.1989E 01	.1779E 01	.4247E 00
25	.2382E-01	-.3746E 01	-.2791E 01	-.1080E 00	.9842E 00	.3035E 01	.7248E 00
30	.1420E-01	-.4259E 01	-.2774E 01	-.5661E-01	.5884E 00	.5050E 01	.1206E 01
35	.9269E-02	-.4682E 01	-.2940E 01	-.3445E-01	.2539E 00	.7744E 01	.1849E 01
40	.6253E-02	-.5075E 01	-.3705E 01	-.2253E-01	.1367E 00	.1147E 02	.2738E 01
45	.4287E-02	-.5452E 01	-.2564E 01	-.1159E-01	.1268E 00	.1673E 02	.3993E 01
50	.3275E-02	-.5721E 01	-.3598E 01	-.1090E-01	.7977E-02	.2189E 02	.5227E 01
55	.2326E-02	-.6064E 01	-.3039E 01	-.6190E-02	.5392E-01	.3084E 02	.7364E 01
60	.1786E-02	-.6329E 01	-.3204E 01	-.4632E-02	.1784E-01	.4018E 02	.9594E 01
65	.1380E-02	-.6585E 01	-.2109E 01	-.2789E-02	.2686E-01	.5195E 02	.1240E 02
70	.1182E-02	-.6742E 01	-.2400E 01	-.2064E-02	.2569E-02	.6074E 02	.1450E 02
75	.1000E-02	-.6907E 01	-.2095E 01	-.1954E-02	.1269E-02	.7160E 02	.1711E 02
80	.8299E-03	-.7094E 01	-.1975E 01	-.1073E-02	.1009E-01	.8640E 02	.2063E 02
85	.7502E-03	-.7214E 01	-.1964E 01	-.8915E-03	.2094E-02	.9739E 02	.2378E 02
90	.6889E-03	-.7326E 01	-.1074E 01	-.4256E-03	.5339E-02	.1089E 03	.2600E 02
95	.6219E-03	-.7384E 01	-.4540E 00	-.1639E-03	.2999E-02	.1154E 03	.2755E 02
100	.6070E-03	-.7407E 01	-.8756E 00	-.2909E-03	-.1456E-02	.1181E 03	.2820E 02
105	.5816E-03	-.7450E 01	-.5022E 00	-.1179E-03	.1488E-02	.1233E 03	.2943E 02
110	.5714E-03	-.7467E 01	-.7250E 00	-.2079E-03	-.1036E-02	.1255E 03	.2996E 02
115	.5532E-03	-.7500E 01	.7245E 00	.1985E-03	.4657E-02	.1296E 03	.3095E 02
120	.5706E-03	-.7469E 01	.5102E 00	.1376E-03	-.6980E-03	.1257E 03	.3001E 02
125	.5826E-03	-.7448E 01	.1432E 00	.3760E-04	-.1146E-02	.1231E 03	.2939E 02
130	.5868E-03	-.7442E 01	.3996E 01	.1093E-02	.1209E-01	.1224E 03	.2922E 02
135	.6812E-03	-.7292E 01	-.1210E 00	-.3429E-04	-.1291E-01	.1053E 03	.2513E 02
140	.6782E-03	-.7296E 01	.1261E 01	.3516E-03	.4422E-02	.1057E 03	.2524E 02
145	.7089E-03	-.7252E 01	.1306E 01	.3675E-03	.1828E-03	.1011E 03	.2415E 02
150	.7410E-03	-.7208E 01	.1350E 01	.3842E-03	.1906E-03	.9677E 02	.2310E 02
155	.7746E-03	-.7163E 01	.1394E 01	.4015E-03	.1992E-03	.9258E 02	.2210E 02
160	.8096E-03	-.7119E 01	.1438E 01	.4197E-03	.2082E-03	.8857E 02	.2115E 02
165	.8462E-03	-.7075E 01	.1482E 01	.4387E-03	.2176E-03	.8474E 02	.2023E 02
170	.8844E-03	-.7031E 01	.1527E 01	.4585E-03	.2274E-03	.8107E 02	.1936E 02
175	.9245E-03	-.6986E 01	.1571E 01	.4793E-03	.2377E-03	.7758E 02	.1852E 02
180	.9663E-03	-.6942E 01	.0000E 00	.0000E 00	.0000E 00	.7421E 02	.1772E 02

SCAT* .7170E-01 30/45* .3312E 01 45/135* .6293E 01 SCAT30-130* .1712E-01

CH42/274 11164 1455H ST620 3-100M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2439E 00	-.1225E 01	-.1770E 00	-.1682E 01	.0000E 00	.1552E 00	.4503E-01
5	.1471E 00	-.1917E 01	-.9206E 00	-.8000E 00	.1011E 02	.3401E 00	.4997E-01
10	.7727E-01	-.2560E 01	-.1469E 01	-.3972E 00	.4616E 01	.5903E 00	.1713E 00
15	.4201E-01	-.3150E 01	-.1901E 01	-.2057E 00	.2196E 01	.1070E 01	.3106E 00
20	.2466E-01	-.3702E 01	-.2234E 01	-.1109E 00	.1086E 01	.1849E 01	.5366E 00
25	.1490E-01	-.4201E 01	-.2556E 01	-.6354E-01	.5383E 00	.3044E 01	.8833E 00
30	.9402E-02	-.4667E 01	-.2661E 01	-.3625E-01	.3174E 00	.4851E 01	.1408E 01
35	.6259E-02	-.5077E 01	-.2529E 01	-.2049E-01	.1805E 00	.7311E 01	.2121E 01
40	.4451E-02	-.5415E 01	-.2877E 01	-.1466E-01	.6686E-01	.1025E 02	.2974E 01
45	.3172E-02	-.5754E 01	-.2297E 01	-.7811E-02	.7044E-01	.1438E 02	.4178E 01
50	.2490E-02	-.5996E 01	-.2708E 01	-.6490E-02	.1514E-01	.1832E 02	.5315E 01
55	.1929E-02	-.6254E 01	-.3083E 01	-.5186E-02	.1494E-01	.2371E 02	.6880E 01
60	.1471E-02	-.6522E 01	-.2059E 01	-.2560E-02	.3009E-01	.3101E 02	.8998E 01
65	.1247E-02	-.6687E 01	-.3271E 01	-.3077E-02	-.5924E-02	.3650E 02	.1061E 02
70	.9789E-03	-.6929E 01	-.2312E 01	-.1654E-02	.1632E-01	.4660E 02	.1352E 02
75	[illegible]	-.7009E 01	-.2169E 01	-.1247E-02	.4656E-02	.5465E 02	.1586E 02
80	.7257E-03	-.7228E 01	-.1575E 01	-.7571E-03	.5016E-02	.6285E 02	.1824E 02
85	.6590E-03	-.7324E 01	-.1375E 01	-.5711E-03	.2134E-02	.6919E 02	.2006E 02
90	.6090E-03	-.7402E 01	-.1389E 01	-.5753E-03	-.4755E-04	.7480E 02	.2170E 02
95	.5696E-03	-.7488E 01	-.4264E 00	-.1387E-03	.5003E-02	.8151E 02	.2365E 02
100	.5475E-03	-.7510E 01	-.7633E 00	-.2294E-03	-.1039E-02	.8331E 02	.2417E 02
105	.5295E-03	-.7547E 01	-.2644E 00	-.7390E-04	.1781E-02	.8647E 02	.2509E 02
110	.5210E-03	-.7560E 01	-.9681E 00	-.2515E-03	-.2035E-02	.8754E 02	.2540E 02
115	.4991E-03	-.7603E 01	.3444E 00	.8444E-04	.3049E-02	.9139E 02	.2652E 02
120	.5084E-03	-.7588E 01	-.1027E 00	-.2427E-04	-.1246E-02	.9006E 02	.2613E 02
125	.5043E-03	-.7592E 01	.2126E 01	.5026E-03	.6038E-02	.9044E 02	.2624E 02
130	.5482E-03	-.7609E 01	.1702E 01	.4167E-03	-.8647E-03	.8320E 02	.2414E 02
135	.5840E-03	-.7445E 01	.4748E 00	.1167E-03	-.3430E-02	.7803E 02	.2264E 02
140	.5947E-03	-.7427E 01	.1127E 01	.2748E-03	.1012E-02	.7669E 02	.2225E 02
145	.6187E-03	-.7388E 01	.1166E 01	.2859E-03	.1270E-03	.7377E 02	.2139E 02
150	.6437E-03	-.7348E 01	.1206E 01	.2974E-03	.1321E-03	.7086E 02	.2056E 02
155	.6696E-03	-.7309E 01	.1245E 01	.3094E-03	.1374E-03	.6812E 02	.1976E 02
160	.6966E-03	-.7269E 01	.1285E 01	.3219E-03	.1430E-03	.6548E 02	.1900E 02
165	.7247E-03	-.7230E 01	.1324E 01	.3349E-03	.1487E-03	.6294E 02	.1826E 02
170	.7539E-03	-.7190E 01	.1364E 01	.3484E-03	.1547E-03	.6050E 02	.1755E 02
175	.7849E-03	-.7151E 01	.1403E 01	.3624E-03	.1610E-03	.5815E 02	.1687E 02
180	.8160E-03	-.7111E 01	.0000E 00	.0000E 00	.0000E 00	.5590E 02	.1622E 02

SCAT* .4561E-01 30/45* .2964E 01 45/135* .8476E 01 SCAT30-130* .1323E-01

CH42/275 11164 1510H ST620 9-800M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.6702E 00	-.4001E 00	-.2328E 00	-.4590E 01	.0000E 00	.8511E-01	.1761E-01
5	.2696E 00	-.1311E 01	-.1205E 01	-.1750E 01	.3256E 02	.2115E 00	.4378E-01
10	.1169E 00	-.2146E 01	-.1875E 01	-.7135E 00	.1187E 02	.4878E 00	.1009E 00
15	.5469E-01	-.2906E 01	-.2362E 01	-.3107E 00	.4614E 01	.1043E 01	.2159E 00
20	.2756E-01	-.3592E 01	-.2734E 01	-.1442E 00	.1908E 01	.2070E 01	.4284E 00
25	.1497E-01	-.4202E 01	-.2960E 01	-.7155E-01	.8324E 00	.3810E 01	.7884E 00
30	.8720E-02	-.4741E 01	-.3425E 01	-.4103E-01	.3497E 00	.6535E 01	.1352E 01
35	.5140E-02	-.5269E 01	-.2744E 01	-.1810E-01	.2628E 00	.1108E 02	.2293E 01
40	.3688E-02	-.5636E 01	-.2020E 01	-.8650E-02	.1082E 00	.1598E 02	.3308E 01
45	.2819E-02	-.5874E 01	-.3141E 01	-.9083E-02	-.4868E-02	.2028E 02	.4196E 01
50	.2020E-02	-.6204E 01	-.2436E 01	-.4796E-02	.4912E-01	.2823E 02	.5843E 01
55	.1602E-02	-.6437E 01	-.1935E 01	-.2844E-02	.2237E-01	.3561E 02	.7369E 01
60	.1354E-02	-.6605E 01	-.3211E 01	-.3815E-02	-.7688E-02	.4214E 02	.8721E 01
65	.1047E-02	-.6862E 01	-.2170E 01	-.1782E-02	.1986E-01	.5449E 02	.1128E 02
70	.8912E-03	-.7023E 01	-.1695E 01	-.1127E-02	.7505E-02	.6400E 02	.1324E 02
75	.7929E-03	-.7140E 01	-.2441E 01	-.1349E-02	-.2542E-02	.7194E 02	.1489E 02
80	.6751E-03	-.7301E 01	-.1099E 01	-.4985E-03	.9747E-02	.8449E 02	.1748E 02
85	.6316E-03	-.7367E 01	-.1393E 01	-.6540E-03	-.6382E-03	.9031E 02	.1869E 02
90	.5839E-03	-.7447E 01	-.9084E 00	-.3203E-03	.2678E-02	.9779E 02	.2024E 02
95	.5653E-03	-.7496E 01	.1655E 00	.5425E-04	.4292E-02	.1027E 03	.2126E 02
100	.5601E-03	-.7487E 01	-.4952E 00	-.1532E-03	-.2377E-02	.1018E 03	.2108E 02
105	.5467E-03	-.7512E 01	-.4727E 00	-.1430E-03	-.4659E-03	.1043E 03	.2159E 02
110	.5298E-03	-.7543E 01	.8868E 00	.2441E-03	.5009E-02	.1077E 03	.2228E 02
115	.5512E-03	-.7504E 01	-.1411E 01	-.3687E-03	-.7016E-02	.1035E 03	.2142E 02
120	.5190E-03	-.7564E 01	.1251E 01	.3116E-03	.7790E-02	.1099E 03	.2274E 02
125	.5462E-03	-.7512E 01	.1272E 01	.3201E-03	.9683E-04	.1044E 03	.2161E 02
130	.5742E-03	-.7463E 01	.2221E 00	.5538E-04	-.3033E-02	.9935E 02	.2056E 02
135	.5790E-03	-.7454E 01	.4430E 00	.1079E-03	.6028E-03	.9852E 02	.2039E 02
140	.5884E-03	-.7438E 01	.5683E 00	.1358E-03	.3195E-03	.9694E 02	.2006E 02
145	.6009E-03	-.7418E 01	.5883E 00	.1386E-03	.3135E-04	.9503E 02	.1967E 02
150	.6125E-03	-.7398E 01	.6082E 00	.1414E-03	.3198E-04	.9315E 02	.1928E 02
155	.6247E-03	-.7378E 01	.6282E 00	.1442E-03	.3263E-04	.9131E 02	.1890E 02
160	.6370E-03	-.7358E 01	.6481E 00	.1471E-03	.3329E-04	.8951E 02	.1852E 02
165	.6503E-03	-.7338E 01	.6681E 00	.1501E-03	.3396E-04	.8774E 02	.1816E 02
170	.6632E-03	-.7318E 01	.6880E 00	.1531E-03	.3464E-04	.8601E 02	.1780E 02
175	.6760E-03	-.7298E 01	.7080E 00	.1562E-03	.3534E-04	.8431E 02	.1745E 02
180	.6902E-03	-.7279E 01	.0000E 00	.0000E 00	.0000E 00	.8265E 02	.1710E 02

SCAT* .5704E-01 30/45* .3108E 01 45/135* .4858E 01 SCAT30-130* .1180E-01

CH42/276 11164 1520H ST620 2-60M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.5582E 00	-.5830E 00	-.2065E 00	-.3644E 01	.0000E 00	.1121E 00	.2779E-01
5	.2488E 00	-.1391E 01	-.1074E 01	-.1497E 01	.2346E 02	.2514E 00	.6231E-01
10	.1180E 00	-.2139E 01	-.1679E 01	-.6693E 00	.9489E 01	.5292E 00	.1312E 00
15	.5907E-01	-.2826E 01	-.2147E 01	-.3161E 00	.4048E 01	.1049E 01	.2591E 00
20	.3228E-01	-.3433E 01	-.2484E 01	-.1574E 00	.1818E 01	.1939E 01	.4805E 00
25	.1865E-01	-.3982E 01	-.2729E 01	-.8330E-01	.8491E 00	.3374E 01	.8363E 00
30	.1128E-01	-.4485E 01	-.2932E 01	-.4699E-01	.4161E 00	.5549E 01	.1375E 01
35	.7178E-02	-.4937E 01	-.2644E 01	-.2447E-01	.2581E 00	.8720E 01	.2161E 01
40	.5048E-02	-.5290E 01	-.2467E 01	-.1457E-01	.1134E 00	.1241E 02	.3076E 01
45	.3771E-02	-.5580E 01	-.2493E 01	-.9882E-02	.5257E-01	.1660E 02	.4114E 01
50	.2900E-02	-.5843E 01	-.2823E 01	-.7839E-02	.2456E-01	.2158E 02	.5349E 01
55	.2226E-02	-.6112E 01	-.2603E 01	-.5287E-02	.2928E-01	.2825E 02	.7001E 01
60	.1754E-02	-.6346E 01	-.2672E 01	-.3871E-02	.1622E-01	.3567E 02	.8842E 01
65	.1427E-02	-.6552E 01	-.1497E 01	-.1705E-02	.2482E-01	.4418E 02	.1095E 02
70	.1280E-02	-.6670E 01	-.3309E 01	-.3029E-02	-.1518E-01	.4936E 02	.1223E 02
75	.1004E-02	-.6904E 01	-.2481E 01	-.1403E-02	.1543E-01	.6237E 02	.1546E 02
80	.8567E-03	-.7062E 01	-.1814E 01	-.1023E-02	.7563E-02	.7306E 02	.1811E 02
85	.7475E-03	-.7199E 01	-.7173E 00	-.3533E-03	.7669E-02	.8155E 02	.2021E 02
90	.7386E-03	-.7213E 01	-.2137E 01	-.9211E-03	-.6806E-02	.8496E 02	.2106E 02
95	.6569E-03	-.7329E 01	-.4538E 00	-.1730E-03	.8578E-02	.9537E 02	.2364E 02
100	.6412E-03	-.7352E 01	-.1058E 01	-.3896E-03	-.2253E-02	.9762E 02	.2419E 02
105	.6009E-03	-.7404E 01	.1791E 00	.4008E-04	.4696E-02	.1028E 03	.2548E 02
110	.6124E-03	-.7398E 01	-.3467E 00	-.1073E-03	-.1889E-02	.1022E 03	.2533E 02
115	.6090E-03	-.7414E 01	.2962E 00	.8737E-04	.2251E-02	.1030E 03	.2552E 02
120	.6107E-03	-.7401E 01	.4197E 00	.1209E-03	.3846E-03	.1025E 03	.2540E 02
125	.6211E-03	-.7384E 01	.9273E 00	.2637E-03	.1636E-02	.1008E 03	.2497E 02
130	.6442E-03	-.7347E 01	-.2891E-01	-.8052E-05	-.3114E-02	.9715E 02	.2408E 02
135	.6455E-03	-.7345E 01	.7166E 00	.1947E-03	.2023E-02	.9726E 02	.2411E 02
140	.6605E-03	-.7322E 01	.5227E 00	.1401E-03	-.6755E-03	.9478E 02	.2349E 02
145	.6737E-03	-.7304E 01	.5411E 00	.1427E-03	.2872E-04	.9303E 02	.2306E 02
150	.6852E-03	-.7286E 01	.5594E 00	.1454E-03	.3028E-04	.9134E 02	.2264E 02
155	.6979E-03	-.7267E 01	.5778E 00	.1480E-03	.3083E-04	.8968E 02	.2223E 02
160	.7108E-03	-.7249E 01	.5961E 00	.1508E-03	.3141E-04	.8805E 02	.2182E 02
165	.7240E-03	-.7231E 01	.6144E 00	.1536E-03	.3199E-04	.8645E 02	.2143E 02
170	.7374E-03	-.7212E 01	.6328E 00	.1564E-03	.3258E-04	.8488E 02	.2104E 02
175	.7510E-03	-.7194E 01	.6511E 00	.1593E-03	.3318E-04	.8334E 02	.2066E 02
180	.7649E-03	-.7176E 01	.0000E 00	.0000E 00	.0000E 00	.8182E 02	.2028E 02

SCAT* .6259E-01 30/45* .2991E 01 45/135* .5840E 01 SCAT30-130* .1551E-01

CH42/277 11164 1535H ST620 9-900M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.3577E 00	-.1028E 01	-.1736E 00	-.2022E 01	.0000E 00	.1486E 00	.3906E-01
5	.1819E 00	-.1700E 01	-.9224E 00	-.9011E 00	.1194E 02	.2933E 00	.7709E-01
10	.9685E-01	-.2347E 01	-.1477E 01	-.4938E 00	.5585E 01	.5560E 00	.1461E 00
15	.5284E-01	-.2940E 01	-.1941E 01	-.2576E 00	.2706E 01	.1012E 01	.2659E 00
20	.3006E-01	-.3505E 01	-.2321E 01	-.1392E 00	.1356E 01	.1769E 01	.4648E 00
25	.1791E-01	-.4022E 01	-.2085E 01	-.8394E-01	.6337E 00	.2969E 01	.7802E 00
30	.1089E-01	-.4520E 01	-.1997E 01	-.3214E-01	.5934E 00	.5023E 01	.1320E 01
35	.7781E-02	-.4856E 01	-.4410E 01	-.3968E-01	-.8649E-01	.6833E 01	.1796E 01
40	.4510E-02	-.5445E 01	-.2109E 01	-.1088E-01	.3300E 00	.1231E 02	.3236E 01
45	.3560E-02	-.5639E 01	-.3204E 01	-.1104E-01	-.2020E-02	.1570E 02	.4148E 01
50	.2404E-02	-.6031E 01	-.2947E 01	-.6745E-02	.4942E-01	.2212E 02	.5814E 01
55	.1815E-02	-.6312E 01	-.1763E 01	-.2957E-02	.4341E-01	.2930E 02	.7699E 01
60	.1557E-02	-.6465E 01	-.4067E 01	-.4957E-02	-.2293E-01	.3415E 02	.8975E 01
65	.1134E-02	-.6791E 01	-.1884E 01	-.1679E-02	.3767E-01	.4729E 02	.1243E 02
70	.9777E-03	-.6930E 01	-.1431E 01	-.1053E-02	.7170E-02	.5438E 02	.1429E 02
75	.8086E-03	-.7120E 01	-.3167E 01	-.1876E-02	-.9433E-02	.6602E 02	.1577E 02
80	.7221E-03	-.7233E 01	-.1846E 01	-.8757E-03	.1146E-01	.7363E 02	.1935E 02
85	.6458E-03	-.7345E 01	-.1408E 01	-.6727E-03	.1480E-02	.8235E 02	.2164E 02
90	.5967E-03	-.7424E 01	-.9316E 00	-.3351E-03	.2715E-02	.8920E 02	.2346E 02
95	.5686E-03	-.7470E 01	-.4750E 00	-.1662E-03	.2052E-02	.9387E 02	.2467E 02
100	.5620E-03	-.7481E 01	-.3918E 00	-.1199E-03	.4159E-03	.9618E 02	.2528E 02
105	.5420E-03	-.7520E 01	-.6967E 00	-.1902E-03	-.8465E-03	.9804E 02	.2577E 02
110	.5250E-03	-.7552E 01	-.8609E 00	-.2259E-03	-.3173E-03	.1017E 03	.2661E 02
115	.5063E-03	-.7590E 01	-.3970E 00	-.9721E-04	.1474E-02	.1052E 03	.2768E 02
120	.4968E-03	-.7607E 01	.1809E 01	.4562E-03	.8113E-02	.1070E 03	.2812E 02
125	.5349E-03	-.7533E 01	.7995E-01	.1925E-04	-.4770E-02	.9940E 02	.2612E 02
130	.5366E-03	-.7530E 01	.8282E 00	.1945E-03	.2008E-02	.9909E 02	.2604E 02
135	.5696E-03	-.7470E 01	.7197E 00	.1682E-03	-.3011E-03	.9605E 02	.2524E 02
140	.5682E-03	-.7473E 01	.7389E 00	.1710E-03	.3223E-04	.9357E 02	.2459E 02
145	.5832E-03	-.7447E 01	.7648E 00	.1755E-03	.5140E-04	.9117E 02	.2396E 02
150	.5985E-03	-.7421E 01	.7907E 00	.1801E-03	.5283E-04	.8884E 02	.2335E 02
155	.6142E-03	-.7395E 01	.8167E 00	.1849E-03	.5422E-04	.8657E 02	.2275E 02
160	.6302E-03	-.7369E 01	.8426E 00	.1897E-03	.5564E-04	.8435E 02	.2217E 02
165	.6469E-03	-.7343E 01	.8685E 00	.1947E-03	.5711E-04	.8219E 02	.2160E 02
170	.6639E-03	-.7317E 01	.8944E 00	.1998E-03	.5860E-04	.8009E 02	.2105E 02
175	.6813E-03	-.7291E 01	.9204E 00	.2051E-03	.6015E-04	.7804E 02	.2051E 02
180	.6992E-03	-.7266E 01	.0000E 00	.0000E 00	.0000E 00	.7604E 02	.1998E 02

SCAT* .5517E-01 30/45* .3142E 01 45/135* .6085E 01 SCAT30-130* .1397E-01

CH42/278 11164 1550H ST 620 4-210M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.4950E 00	-.7072E 00	-.1944E 00	-.3C05E 01	.CCCCE 00	.1744E 00	.3174E-01
5	.2905E 00	-.1448E 01	-.1018E 01	-.1357E 01	.1914E 02	.2668E 00	.4741E-01
10	.1190E 00	-.2173E 01	-.1604E 01	-.4737E 00	.7170E 01	.5394E 00	.1175E 00
15	.5990E-01	-.2874E 01	-.2070E 01	-.3054E 00	.3644E 01	.1035E 01	.2635E 00
20	.3274E-01	-.3419E 01	-.2427E 01	-.1566E 00	.1776E 01	.1773E 01	.4781E 00
25	.1907E-01	-.3960E 01	-.2737E 01	-.8584E-01	.8131E 00	.3308E 01	.8208E 00
30	.1150E-01	-.4459E 01	-.2835E 01	-.6496E-01	.4455E 00	.5306E 01	.1152E 01
35	.7430E-02	-.4896E 01	-.2742E 01	-.2667E-01	.2279E 00	.9146E 01	.1940E 01
40	.5151E-02	-.5269E 01	-.2730E 01	-.1673E-01	.1196E 00	.1194E 02	.3038E 01
45	.3960E-02	-.5590E 01	-.2964E 01	-.1014E-01	.6664E-01	.1645E 02	.4193E 01
50	.2880E-02	-.5861E 01	-.2467E 01	-.6841E-02	.3770E-01	.2158E 02	.5492E 01
55	.2265E-02	-.6090E 01	-.3070E 01	-.6052E-02	.9051E-02	.2726E 02	.6946E 01
60	.1725E-02	-.6363E 01	-.2201E 01	-.3195E-02	.1276E-01	.3563E 02	.9075E 01
65	.1446E-02	-.6539E 01	-.2690E 01	-.2994E-02	.2298E-02	.4250E 02	.1083E 02
70	.1184E-02	-.6739E 01	-.2794E 01	-.1973E-02	.3012E-02	.5188E 02	.1321E 02
75	.1017E-02	-.6890E 01	-.2495E 01	-.1712E-02	.2736E-02	.6071E 02	.1546E 02
80	.8627E-03	-.7055E 01	-.2260E 01	-.1266E-02	.5112E-02	.7121E 02	.1814E 02
85	.7523E-03	-.7193E 01	-.1946E 01	-.4450E-03	.7118E-02	.8164E 02	.2081E 02
90	.6961E-03	-.7270E 01	-.7846E 00	-.3376E-03	.3551E-02	.8823E 02	.2248E 02
95	.6678E-03	-.7313E 01	-.1946E 00	-.2770E-03	.4419E-03	.9195E 02	.2344E 02
100	.6428E-03	-.7350E 01	-.1495E 00	-.1742E-03	.1751E-02	.9554E 02	.2435E 02
105	.6520E-03	-.7348E 01	-.4071E 00	-.1562E-03	-.1164E-02	.9722E 02	.2476E 02
110	.6203E-03	-.7385E 01	-.3354E 00	-.1362E-03	-.7727E-04	.9904E 02	.2521E 02
115	.6084E-03	-.7405E 01	-.8440E 00	-.2468E-03	-.1258E-02	.1010E 03	.2572E 02
120	.5669E-03	-.7475E 01	-.5694E 00	-.1300E-03	.4508E-02	.1041E 03	.2666E 02
125	.5903E-03	-.7421E 01	-.9444E 00	-.2650E-03	.1547E-02	.1027E 03	.2616E 02
130	.6214E-03	-.7384E 01	-.1611E 01	-.5172E-03	.2901E-02	.9870E 02	.2515E 02
135	.6060E-03	-.7413E 01	-.1696E 00	-.4489E-04	-.6756E-02	.9917E 02	.2348E 02
140	.6625E-03	-.7319E 01	.4403E 00	.1443E-03	.1644E-02	.9171E 02	.2336E 02
145	.6706E-03	-.7295E 01	.7875E 00	.1887E-03	.5124E-04	.8955E 02	.2306E 02
150	.6951E-03	-.7271E 01	.7311E 00	.1933E-03	.5249E-04	.8846E 02	.2252E 02
155	.7119E-03	-.7248E 01	.7553E 00	.1980E-03	.5375E-04	.8631E 02	.2199E 02
160	.7292E-03	-.7224E 01	.7793E 00	.2029E-03	.5506E-04	.8476E 02	.2148E 02
165	.7469E-03	-.7200E 01	.8032E 00	.2077E-03	.5641E-04	.8220E 02	.2095E 02
170	.7651E-03	-.7176E 01	.8272E 00	.2128E-03	.5776E-04	.8032E 02	.2046E 02
175	.7836E-03	-.7152E 01	.8517E 00	.2179E-03	.5917E-04	.7841E 02	.1997E 02
180	.8026E-03	-.7128E 01	.0000E 00	.0000E 00	.0000E 00	.7655E 02	.1950E 02

SCAT= .6145E-01 30/45= .3100E 01 45/135= .5662E 01 SCAT30-130= .1565E-01

CH42/279 11164 1605H ST620 6- 400M

THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.6714E-01	-.2701E 01	-.1406E 00	-.3254E 00	.CCCCE 00	.2641E 00	.1003E 00
5	.3075E-01	-.3251E 01	-.7479E 00	-.1796E 00	.1470E 01	.4577E 00	.1738E 00
10	.2307E-01	-.3769E 01	-.1701E 01	-.1017E 00	.8900E 00	.7688E 00	.2919E 00
15	.1410E-01	-.4290E 01	-.1504E 01	-.5944E-01	.4060E 00	.1251E 01	.4751E 00
20	.8987E-02	-.4717E 01	-.1507E 01	-.3567E-01	.2737E 00	.1977E 01	.7495E 00
25	.5879E-02	-.5136E 01	-.2135E 01	-.2172E-01	.1592E 00	.3017E 01	.1146E 01
30	.3903E-02	-.5526E 01	-.2634E 01	-.1521E-01	.7441E-01	.4452E 01	.1691E 01
35	.2654E-02	-.5932E 01	-.1911E 01	-.8070E-02	.9570E-01	.6682E 01	.2538E 01
40	.2055E-02	-.6188E 01	-.3112E 01	-.7226E-02	-.4079E-02	.8632E 01	.3278E 01
45	.1424E-02	-.6454E 01	-.2749E 01	-.9402E-02	.4267E-01	.1245E 02	.4730E 01
50	.1118E-02	-.6798E 01	-.1443E 01	-.1647E-02	.2126E-01	.1580E 02	.6027E 01
55	.9747E-03	-.6935E 01	-.2451E 01	-.2524E-02	-.1012E-01	.1820E 02	.6910E 01
60	.7839E-03	[illegible]	-.1873E 01	-.1173E-02	.1554E-01	.2357E 02	.8933E 01
65	.6516E-03	[illegible]	-.3270E 01	-.1607E-02	-.4969E-02	.2722E 02	.1034E 02
70	.5124E-03	-.7579E 01	-.1325E 01	-.5119E-03	.1255E-01	.3468E 02	.1317E 02
75	.4467E-03	-.7470E 01	-.1798E 01	-.5840E-03	-.8279E-03	.3800E 02	.1443E 02
80	.4157E-03	-.7783E 01	-.1618E 01	-.4452E-03	.1591E-02	.4266E 02	.1620E 02
85	.3769E-03	-.7884E 01	-.8044E 00	-.1941E-03	.2877E-02	.4765E 02	.1707E 02
90	.3600E-03	-.7910E 01	-.5309E 00	-.1167E-03	.8964E-03	.4927E 02	.1871E 02
95	.3498E-03	-.7958E 01	.1227E 01	.2593E-03	.4309E-02	.5070E 02	.1926E 02
100	.3724E-03	-.7896E 01	-.2414E 00	-.4994E-04	-.1544E-02	.4762E 02	.1809E 02
105	.3600E-03	-.7907E 01	-.4308E 00	-.8355E-04	-.3049E-03	.4819E 02	.1830E 02
110	.3607E-03	-.7927E 01	.1546E 00	.2851E-04	.1284E-02	.4916E 02	.1867E 02
115	.3632E-03	-.7920E 01	.2004E-02	.3551E-06	-.3227E-03	.4882E 02	.1854E 02
120	.3639E-03	-.7920E 01	.2476E 00	.4224E-04	.4804E-03	.4882E 02	.1854E 02
125	.3670E-03	-.7910E 01	.1534E 01	.2793E-03	.2704E-02	.4813E 02	.1835E 02
130	.3912E-03	-.7846E 01	.3014E 01	.5401E-03	.3001E-02	.4511E 02	.1722E 02
135	.4004E-03	-.7732E 01	.8090E-01	.1406E-04	-.6020E-02	.4045E 02	.1546E 02
140	.4197E-03	-.7772E 01	.1283E 01	.2370E-03	.2409E-02	.4034E 02	.1532E 02
145	.4599E-03	-.7684E 01	.1328E 01	.2427E-03	.1224E-03	.3856E 02	.1464E 02
150	.4811E-03	-.7639E 01	.1373E 01	.2539E-03	.1201E-03	.3688E 02	.1400E 02
155	.5032E-03	-.7594E 01	.1418E 01	.2655E-03	.1339E-03	.3574E 02	.1338E 02
160	.5264E-03	-.7549E 01	.1463E 01	.2778E-03	.1401E-03	.3369E 02	.1279E 02
165	.5507E-03	-.7504E 01	.1508E 01	.2906E-03	.1466E-03	.3271E 02	.1223E 02
170	.5760E-03	-.7459E 01	.1553E 01	.3034E-03	.1533E-03	.3079E 02	.1169E 02
175	.6025E-03	-.7414E 01	.1598E 01	.3174E-03	.1604E-03	.2943E 02	.1118E 02
180	.6303E-03	-.7369E 01	.CCOCE 00	.CCCOE 00	.CCCCE 00	.2814E 02	.1069E 02

SCAT= .1773E-01 30/45= .2797E 01 45/135= .3248E 01 SCAT30-130= .6735E-02

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2034E 00	-.1590E 01	-.1909E 00	-.1229E 01	.CCCCE 00	.1193E 00	.4072E-01
5	.9881E-01	-.2317E 01	-.9457E 00	-.5819E 00	.7760E 01	.2940E 00	.8447E-01
10	.4845E-01	-.3027E 01	-.1563E 01	-.2604E 00	.3139E 01	.5843E 00	.1692E 00
15	.2591E-01	-.3660E 01	-.2000E 01	-.1297E 00	.1400E 01	.1105E 01	.3189E 00
20	.1444E-01	-.4238E 01	-.2332E 01	-.6713E-01	.7110E 00	.1967E 01	.5678E 00
25	.8801E-02	-.4735E 01	-.2666E 01	-.3766E-01	.3954E 00	.3310E 01	.9555E 00
30	.5277E-02	-.5244E 01	-.2707E 01	-.2112E-01	.1918E 00	.5383E 01	.1554E 01
35	.3434E-02	-.5674E 01	-.2948E 01	-.1132E-01	.1128E 00	.8272E 01	.2387E 01
40	.2446E-02	-.6013E 01	-.2903E 01	-.7158E-02	.4270E-01	.1161E 02	.3351E 01
45	.1822E-02	-.6300E 01	-.2494E 01	-.4706E-02	.2011E-01	.1559E 02	.4501E 01
50	.1411E-02	-.6563E 01	-.2405E 01	-.3913E-02	.1590E-01	.2013E 02	.5810E 01
55	.1122E-02	-.6793E 01	-.2074E 01	-.2676E-02	.1417E-01	.2537E 02	.7307E 01
60	.9409E-03	-.6969E 01	-.3023E 01	-.2317E-02	-.2798E-02	.3019E 02	.8714E 01
65	.7987E-03	-.7211E 01	-.2256E 01	-.1303E-02	.1162E-01	.3846E 02	.1110E 02
70	.6250E-03	-.7378E 01	-.9890E 00	-.4728E-03	.9517E-02	.4544E 02	.1112E 02
75	.5097E-03	-.7440E 01	-.2914E 01	-.1147E-02	-.7724E-02	.4867E 02	.1405E 02
80	.4836E-03	-.7634E 01	-.1073E 01	-.3490E-03	.9142E-02	.5874E 02	.1695E 02
85	.4532E-03	-.7699E 01	-.1201E 01	-.3466E-03	-.2018E-03	.6269E 02	.1809E 02
90	.4212E-03	-.7772E 01	-.5025E 00	-.1294E-03	.2719E-02	.6745E 02	.1947E 02
95	.4090E-03	-.7800E 01	.7087E 00	.1739E-03	.3478E-02	.6931E 02	.2000E 02
100	.4251E-03	-.7763E 01	-.8345E-01	-.1991E-04	-.2221E-02	.6683E 02	.1929E 02
105	.4239E-03	-.7767E 01	-.8111E 00	-.1796E-03	-.1090E-02	.6711E 02	.1937E 02
110	.4076E-03	-.7805E 01	.1500E 00	.3124E-04	.2416E-02	.6969E 02	.2011E 02
115	.4204E-03	-.7790E 01	-.1921E 00	-.3829E-04	-.7969E-03	.6923E 02	.1998E 02
120	.4070E-03	-.7807E 01	.1315E 01	.2572E-03	.3396E-02	.6979E 02	.2014E 02
125	.4295E-03	-.7753E 01	.8313E 00	.1631E-03	-.1070E-02	.6615E 02	.1909E 02
130	.4437E-03	-.7720E 01	.1625E 01	.3215E-03	.1815E-02	.6407E 02	.1848E 02
135	.4710E-03	-.7659E 01	.6170E 00	.1228E-03	-.2276E-02	.6022E 02	.1738E 02
140	.4825E-03	-.7637E 01	.1040E 01	.2056E-03	.9401E-03	.5888E 02	.1699E 02
145	.5004E-03	-.7600E 01	.1077E 01	.2132E-03	.8755E-04	.5677E 02	.1638E 02
150	.5190E-03	-.7564E 01	.1113E 01	.2211E-03	.9007E-04	.5473E 02	.1580E 02
155	.5383E-03	-.7527E 01	.1150E 01	.2294E-03	.9427E-04	.5277E 02	.1523E 02
160	.5583E-03	-.7491E 01	.1186E 01	.2379E-03	.9771E-04	.5088E 02	.1469E 02
165	.5791E-03	-.7454E 01	.1223E 01	.2467E-03	.1014E-03	.4906E 02	.1416E 02
170	.6006E-03	-.7418E 01	.1259E 01	.2559E-03	.1051E-03	.4730E 02	.1365E 02
175	.6230E-03	-.7381E 01	.1296E 01	.2654E-03	.1090E-03	.4560E 02	.1316E 02
180	.6461E-03	-.7345E 01	.CCOOE 00	.0CCCE 00	.CCCCE 00	.4397E 02	.1269E 02

SCAT= .2041E-01 30/45= .2897E 01 45/135= .3802E 01 SCAT30-130= .8199E-02

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.1746E 00	-.1745E 01	-.1629E 00	-.9424E 00	.CCCCE 00	.1806E 00	.5502E-01
5	.9232E-01	-.2382E 01	-.8627E 00	-.4762E 00	.5343E 01	.3415E 00	.1040E 00
10	.5077E-01	-.2980E 01	-.1379E 01	-.2691E 00	.2607E 01	.6210E 00	.1892E 00
15	.2900E-01	-.3539E 01	-.1800E 01	-.1349E 00	.1304E 01	.1046E 01	.3308E 00
20	.1726E-01	-.4060E 01	-.2156E 01	-.7551E-01	.4003E 00	.1827E 01	.5566E 00
25	.1067E-01	-.4541E 01	-.2512E 01	-.4492E-01	.3606E 00	.2955E 01	.9004E 00
30	.6760E-02	-.4999E 01	-.2796E 01	-.2707E-01	.2045E 00	.4672E 01	.1423E 01
35	.4909E-02	-.5430E 01	-.2665E 01	-.1505E-01	.1370E 00	.7140E 01	.2190E 01
40	.3072E-02	-.5785E 01	-.2936E 01	-.9091E-02	.6823E-01	.1024E 02	.3127E 01
45	.2279E-02	-.6084E 01	-.3073E 01	-.7221E-02	.2149E-01	.1384E 02	.4215E 01
50	.1669E-02	-.6400E 01	-.2347E 01	-.3786E-02	.3937E-01	.1913E 02	.5826E 01
55	.1310E-02	-.6632E 01	-.2099E 01	-.3368E-02	.4795E-02	.2392E 02	.7287E 01
60	.1024E-02	-.6884E 01	-.2193E 01	-.1089E-02	.1694E-01	.3078E 02	.9378E 01
65	.8594E-03	-.7059E 01	-.3132E 01	-.2040E-02	-.1720E-02	.3664E 02	.1118E 02
70	.6813E-03	-.7291E 01	-.2277E 01	-.1112E-02	.1063E-01	.4627E 02	.1410E 02
75	.5849E-03	-.7445E 01	-.1934E 01	-.5512E-03	.8420E-02	.5396E 02	.1644E 02
80	.5362E-03	-.7531E 01	-.1730E 01	-.6117E-03	-.6930E-03	.5880E 02	.1791E 02
85	.4820E-03	-.7634E 01	-.1222E 01	-.3793E-03	.2732E-02	.6530E 02	.1989E 02
90	.4502E-03	-.7700E 01	-.4924E 00	-.1355E-03	.2725E-02	.7003E 02	.2133E 02
95	.4304E-03	-.7732E 01	.5562E 00	.1454E-03	.3219E-02	.7192E 02	.2191E 02
100	.4511E-03	-.7704E 01	.6042E-01	.1526E-04	-.1491E-02	.6989E 02	.2129E 02
105	.4624E-03	-.7701E 01	.6744E 00	.1652E-03	.1719E-02	.6969E 02	.2123E 02
110	.4608E-03	-.7670E 01	-.1618E 01	-.3713E-03	-.6148E-02	.6754E 02	.2057E 02
115	.4344E-03	-.7741E 01	.5725E 00	.1228E-03	.5662E-02	.7257E 02	.2211E 02
120	.4452E-03	-.7717E 01	.1239E 01	.2646E-03	.1675E-02	.7081E 02	.2158E 02
125	.4402E-03	-.7667E 01	.3686E 00	.7014E-04	-.2197E-02	.6733E 02	.2051E 02
130	.4751E-03	-.7652E 01	.1499E 01	.3168E-03	.2734E-02	.6637E 02	.2077E 02
135	.5027E-03	-.7596E 01	.8087E 00	.1719E-03	-.1660E-02	.6272E 02	.1911E 02
140	.5177E-03	-.7566E 01	.1017E 01	.2155E-03	.4999E-03	.6090E 02	.1855E 02
145	.5364E-03	-.7530E 01	.1055E 01	.2234E-03	.8979E-04	.5876E 02	.1790E 02
150	.5560E-03	-.7495E 01	.1088E 01	.2315E-03	.9300E-04	.5670E 02	.1727E 02
155	.5762E-03	-.7459E 01	.1124E 01	.2399E-03	.9638E-04	.5472E 02	.1667E 02
160	.5972E-03	-.7423E 01	.1160E 01	.2486E-03	.9980E-04	.5280E 02	.1608E 02
165	.6188E-03	-.7388E 01	.1195E 01	.2577E-03	.1035E-03	.5094E 02	.1552E 02
170	.6413E-03	-.7352E 01	.1231E 01	.2670E-03	.1073E-03	.4916E 02	.1498E 02
175	.6646E-03	-.7316E 01	.1267E 01	.2767E-03	.1112E-03	.4744E 02	.1445E 02
180	.6888E-03	-.7281E 01	.CCOOE 00	.COCOE 00	.0000E 0C	.4577E 02	.1394E 02

SCAT= .3153E-01 30/45= .2961E 01 45/135= .4533E C1 SCAT30-130= .9605E-02

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THETA	SIGMA THETA	LN SIGMA THETA	LN-LN SLOPE	SLOPE	2ND DERIVATIVE	SCAT/SIGMA	SCAT30-130/SIGMA
00	.2357E 00	-.1445E 01	-.1844E 00	-.1307E 01	.0000E 00	.1406E 00	.4401E-01
5	.1146E 00	-.2166E 01	-.9639E 00	-.6399E 00	.8567E 01	.3056E 00	.9051E-01
10	.5874E-01	-.2835E 01	-.1517E 01	-.3093E 00	.3780E 01	.5961E 00	.1766E 00
15	.3175E-01	-.3449E 01	-.1954E 01	-.1365E 00	.1518E 01	.1103E 01	.3266E 00
20	.1810E-01	-.4012E 01	-.2282E 01	-.8276E-01	.8448E 00	.1935E 01	.5730E 00
25	.1088E-01	-.4521E 01	-.2636E 01	-.4757E-01	.4032E 00	.3220E 01	.9535E 00
30	.6726E-02	-.5002E 01	-.2669E 01	-.2456E-01	.2080E 00	.5207E 01	.1542E 01
35	.4582E-02	-.5386E 01	-.2571E 01	-.1526E-01	.1066E 00	.7642E 01	.2263E 01
40	.3251E-02	-.5729E 01	-.3047E 01	-.1123E-01	.4613E-01	.1077E 02	.3190E 01
45	.2271E-02	-.6088E 01	-.1813E 01	-.4523E-02	.7680E-01	.1542E 02	.4566E 01
50	.1876E-02	-.6279E 01	-.2942E 01	-.3256E-02	-.8397E-02	.1867E 02	.5529E 01
55	.1217E-02	-.6559E 01	-.2241E 01	-.2877E-02	.2726E-01	.2471E 02	.7319E 01
60	.1166E-02	-.6756E 01	-.2382E 01	-.2319E-02	.6392E-02	.3003E 02	.8894E 01
65	.9634E-03	-.6945E 01	-.2019E 01	-.1554E-02	.8992E-02	.3634E 02	.1074E 02
70	.8291E-03	-.7095E 01	-.2021E 01	-.1238E-02	.3401E-02	.4221E 02	.1250E 02
75	.7217E-03	-.7234E 01	-.2412E 01	-.1192E-02	.3187E-03	.4852E 02	.1437E 02
80	.6177E-03	-.7390E 01	-.8627E 00	-.3525E-03	.9624E-03	.5670E 02	.1679E 02
85	.5869E-03	-.7441E 01	-.2015E 01	-.7518E-03	-.5364E-03	.5967E 02	.1767E 02
90	.5230E-03	-.7556E 01	-.1066E 01	-.3357E-03	.6538E-02	.6695E 02	.1983E 02
95	.4937E-03	-.7613E 01	-.3405E 00	-.0796E-04	.2725E-02	.7092E 02	.2100E 02
100	.4852E-03	-.7631E 01	-.1672E 00	.4068E-04	.1582E-02	.7217E 02	.2138E 02
105	.4867E-03	-.7628E 01	-.4012E 00	-.1035E-03	-.1646E-02	.7166E 02	.2122E 02
110	.4797E-03	-.7642E 01	-.1154E 00	-.2811E-04	-.6444E-03	.7322E 02	.2162E 02
115	.4772E-03	-.7648E 01	-.5700E-01	-.1325E-04	.1703F-03	.7338E 02	.2173E 02
120	.4760E-03	-.7650E 01	-.4409E-01	-.9009E-05	.3943E-02	.7356E 02	.2179E 02
125	.4752E-03	-.7652E 01	.1859E 01	.4117E-03	.4031E-02	.7369E 02	.2183E 02
130	.5131E-03	-.7575E 01	.2306E 01	.5375E-03	.1384E-02	.6824E 02	.2029E 02
135	.5574E-03	-.7492E 01	.1080E 00	.2514E-04	-.2014E-02	.6280E 02	.1860E 02
140	.5588E-03	-.7488E 01	.1090E 01	.2500E-03	.2577E-02	.6256E 02	.1853E 02
145	.5914E-03	-.7432E 01	.1128E 01	.2598E-03	.1117E-03	.6021E 02	.1783E 02
150	.6243E-03	-.7379E 01	.1166E 01	.2699E-03	.1160E-03	.5795E 02	.1716E 02
155	.6278E-03	-.7374E 01	.1204E 01	.2804E-03	.1206E-03	.5579E 02	.1652E 02
160	.6523E-03	-.7335E 01	.1243E 01	.2914E-03	.1253E-03	.5368E 02	.1590E 02
165	.6777E-03	-.7297E 01	.1281E 01	.3027E-03	.1301E-03	.5167E 02	.1530E 02
170	.7041E-03	-.7259E 01	.1319E 01	.3145E-03	.1352E-03	.4973E 02	.1473E 02
175	.7316E-03	-.7220E 01	.1357E 01	.3268E-03	.1405E-03	.4787E 02	.1418E 02
180	.7601E-03	-.7182E 01	.0000E 00	.0000E 00	.0000E 00	.4607E 02	.1364E 02

SCAT= .35.2E-31 30/45= .2962E 01 45/135= .4072E 01 SCAT30-130= .1037E-01