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**The Hanford 67-Series:  
A Volume of Atmospheric  
Field Diffusion Measurements**

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by  
P. W. Nickola

November 1977

Prepared Jointly for the  
U.S. Department of Energy and  
U.S. Nuclear Regulatory Commission  
under Contract EY-76-C-06-1830



**Battelle**

Pacific Northwest Laboratories

PNL-2433

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BATTELLE  
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UNITED STATES DEPARTMENT OF ENERGY  
*Under Contract EY-76-C-06-1830*

Printed in the United States of America  
Available from  
National Technical Information Service  
United States Department of Commerce  
5285 Port Royal Road  
Springfield, Virginia 22151

Price: Printed Copy \$\_\_\_\_\*: Microfiche \$3.00

*Pages	NTIS Selling Price
001-025	\$4.50
026-050	\$5.00
051-075	\$5.50
076-100	\$6.00
101-125	\$6.50
126-150	\$7.00
151-175	\$7.75
176-200	\$8.50
201-225	\$8.75
226-250	\$9.00
251-275	\$10.00
276-300	\$10.25

THE HANFORD 67-SERIES:  
A VOLUME OF ATMOSPHERIC FIELD  
DIFFUSION MEASUREMENTS

by  
P. W. Nickola  
Atmospheric Sciences Department

Prepared under Contract No. EY-76-C-06-1830  
for

The Division of Biomedical and  
Environmental Research,  
Department of Energy

and

The Division of Reactor Safety Research,  
Nuclear Regulatory Commission

November 1977

BATTELLE  
Pacific Northwest Laboratories  
Richland, Washington 99352

The field work summarized in this report was conducted under the auspices of the former Atomic Energy Commission's Division of Biology and Medicine and the former Energy Research and Development Administration's Division of Biomedical and Environmental Research, the functions of which have now been transferred to the Department of Energy.

The assembling of data and publication of this document is jointly sponsored by the above-mentioned ERDA Division and by the Division of Reactor Safety Research of the Nuclear Regulatory Commission.



## ABSTRACT

*This volume documents atmospheric diffusion experiments carried out at the Hanford reservation during the period 1967 to 1973. A total of 103 tracer releases during 54 release periods is tabulated. Multi-tracer releases (generally from different elevations) were made during most of the experimental periods. Release heights varied from ground level to an elevation of 111 m. Tracers were sampled simultaneously on as many as 10 arcs at distances of up to 12.8 km from the tracer release point. As many as 718 field sampling locations were employed during some of the experiments. Vertical profiles of concentration were monitored on towers during 23 of the 54 release periods. Concurrent vertical profiles of mean temperature, of mean wind speed and direction, and of direction standard deviation are also tabled for elevations up to 122 m.*



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THE HANFORD 67-SERIES:  
A VOLUME OF ATMOSPHERIC FIELD DIFFUSION MEASUREMENTS

INTRODUCTION

During the period 1959 to 1973, more than 300 atmospheric field diffusion experiments have been conducted at the Hanford reservation\* near Richland, Washington. This volume documents 103 of the more recent of these experiments. Both diffusion and concurrent meteorological data are presented in, hopefully, user-oriented format.

Prior to this volume, some of the earlier of the 300 experiments have been described in reports or journal articles. The 1959 experiments, dubbed the Green Glow diffusion program, were documented by Barad and Fuquay<sup>1</sup>. They included detailed diffusion and meteorological data for the 27 Green Glow field tests. Green Glow tracer releases were from an elevation of 2 to 3 meters. Sampling included both ground-level and tower arrays.

These near ground-level tracer releases with both horizontal and vertical sampling arrays continued at Hanford with a series of 42 field experiments in 1960, 1961, and 1962 known as the Hanford 30-Series. Selected ground-level diffusion data and meteorological data from both the Green Glow and 30-Series experiments were tabled by Fuquay, Simpson and Hinds in a journal article in 1964.<sup>2</sup> Only the more "reliable" tests were considered in the journal article -- 16 Green Glow and 30 Series-30 experiments.

Concurrent with the 30-Series, another group of field experiments began at Hanford. These more than 200 tracer

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\*Currently under the jurisdiction of the Department of Energy.

releases, beginning in the fall of 1960, were primarily elevated source experiments. The individual experiments (or subgroups of experiments) in this total of 200 were designed to investigate a variety of specific areas in the more general realm of diffusion. Results of these investigations have been presented in a variety of forums -- including annual reports<sup>3</sup> to the sponsors, the Atomic Energy Commission and more recently the Environmental Research and Development Administration. However, measurements made during these field experiments have pertinence in areas beyond the narrower original objectives. It is with this thought in mind that this current data volume is published.

The diffusion experiments documented in this volume are the portion of those described in the preceding paragraph which were carried out at Hanford since July 1967. These have been rather arbitrarily labeled the Hanford 67-Series. Following publication of this report, there remain approximately 100 Hanford field diffusion experiments (carried out between 1960 and June 1967) which have not been documented in a fashion convenient for general research use. The experiments considered in the 67-Series have been selected primarily on the basis of being more recent, and hence having pertinent diffusion/meteorology data more readily accessible to the author than the pre-July 1967 experiments.

The 103 tracer releases of the Hanford 67-Series were carried out during 54 different experimental periods. Multi-tracer releases (generally from two different elevations) account for the fact that the number of tracer releases is greater than the number of experimental periods. Meteorological measurements made during the tracer releases include vertical profiles of wind speed, wind direction and temperature. Release duration was generally 30 minutes. As few as 63 and as many as 718 field locations were employed in



sampling tracer concentration during a given release. In 32 of the 103 releases, ten or more towers were employed downwind of the source in an attempt to define vertical concentration distributions. Tower height varied from 27 m to 62 m. As few as two and as many as ten sampling arcs, concentric about the release point, were used in the deployment of tracer samplers. The radii of these arcs varied from 0.2 km to 12.8 km from the source. Tracer was released at an elevation of 1 m, 2 m, 26 m, 56 m, or 111 m. Details of the meteorology and of tracer dispersal and sampling for each experiment follow in the body and appendices of this report.

#### THE FIELD GRID

The Hanford reservation is located in a semi-arid region in the southeast of the state of Washington. The natural vegetation in the area is sagebrush 1 to 2 m in height interspersed with steppe grasses. Figures 1, 2, 3 and 4 give some idea of the nature and density of the vegetation.

The center of the reservation is about 200 m above mean sea level. Although the reservation is nearly surrounded by hills or bluffs on all sides (some reaching as high as 1000 m msl), the field diffusion grids are located near the center of this approximately 40-km diameter basin.

Figure 5 shows the diffusion sampling grids superimposed on a contour map. The bulk of the sampling arcs are located on a relatively flat area where the extremes in elevation range from 200 m to 230 m msl. The most distant tracer sampling arc, 12.8 km from the source, is at an elevation about 35 m lower than the nearer-source sampling arcs.

The primary or "ground-level" sampling on the Hanford diffusion grids is done at an elevation of 1.5 m, an elevation that approximates the breathing height of man. About 1000

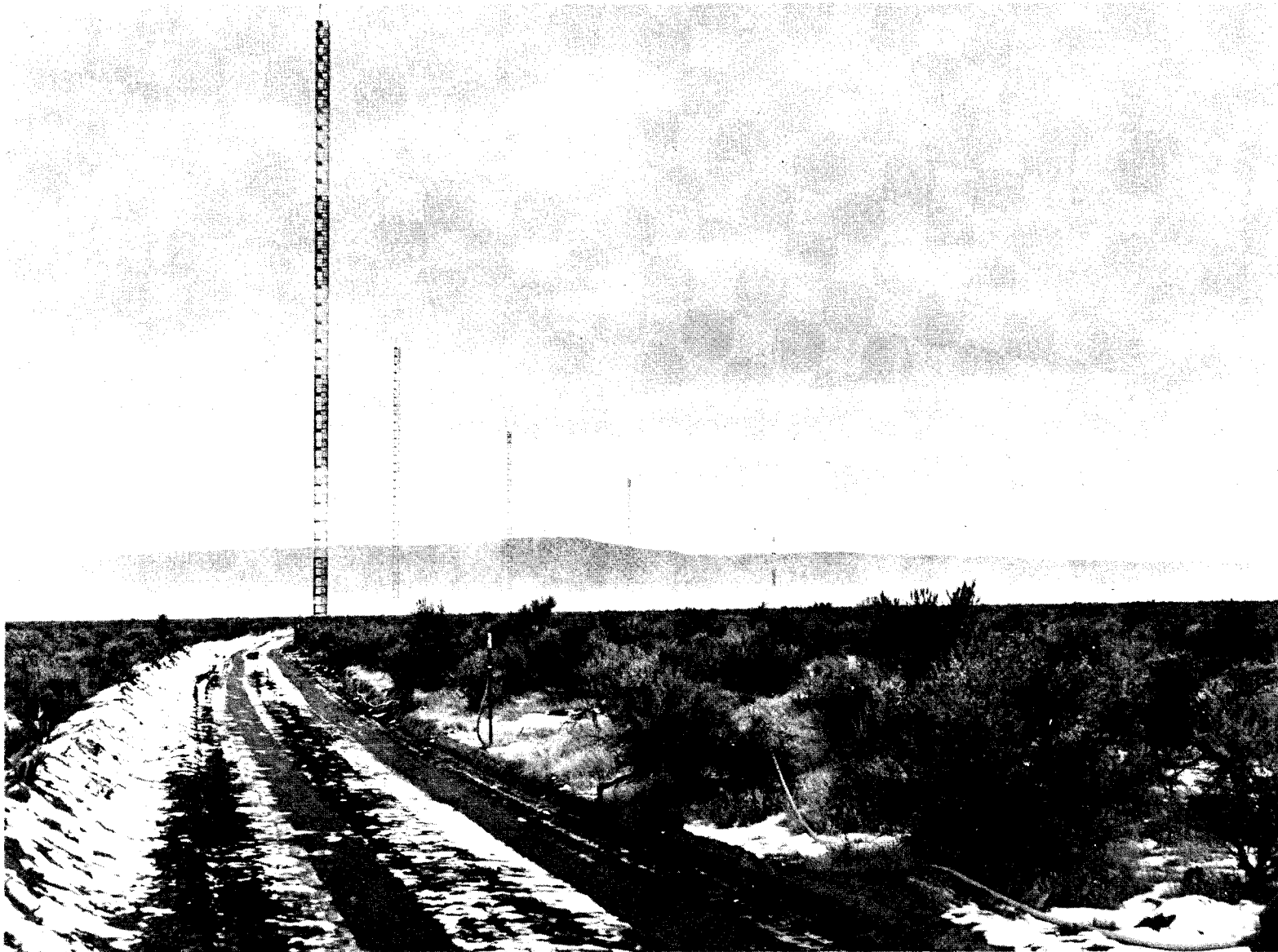


Figure 1. View looking south along arc 1600 m from S-source. The 62-m towers are spaced at  $8^\circ$  intervals. Vacuum hose and stakes at two ground-level sampling locations are also visible.

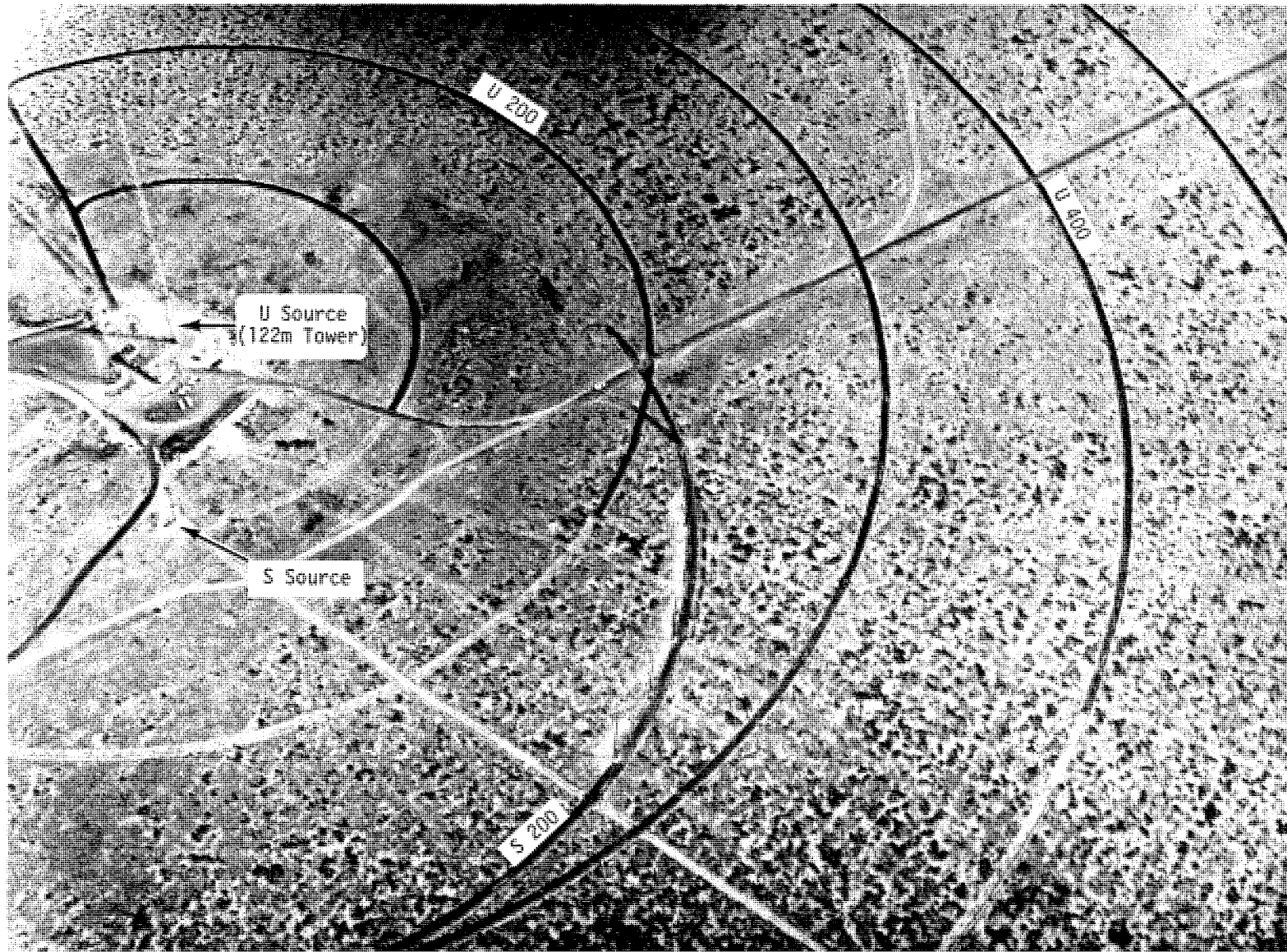


Figure 2. Aircraft view of near-source arcs on Hanford Diffusion Grid.

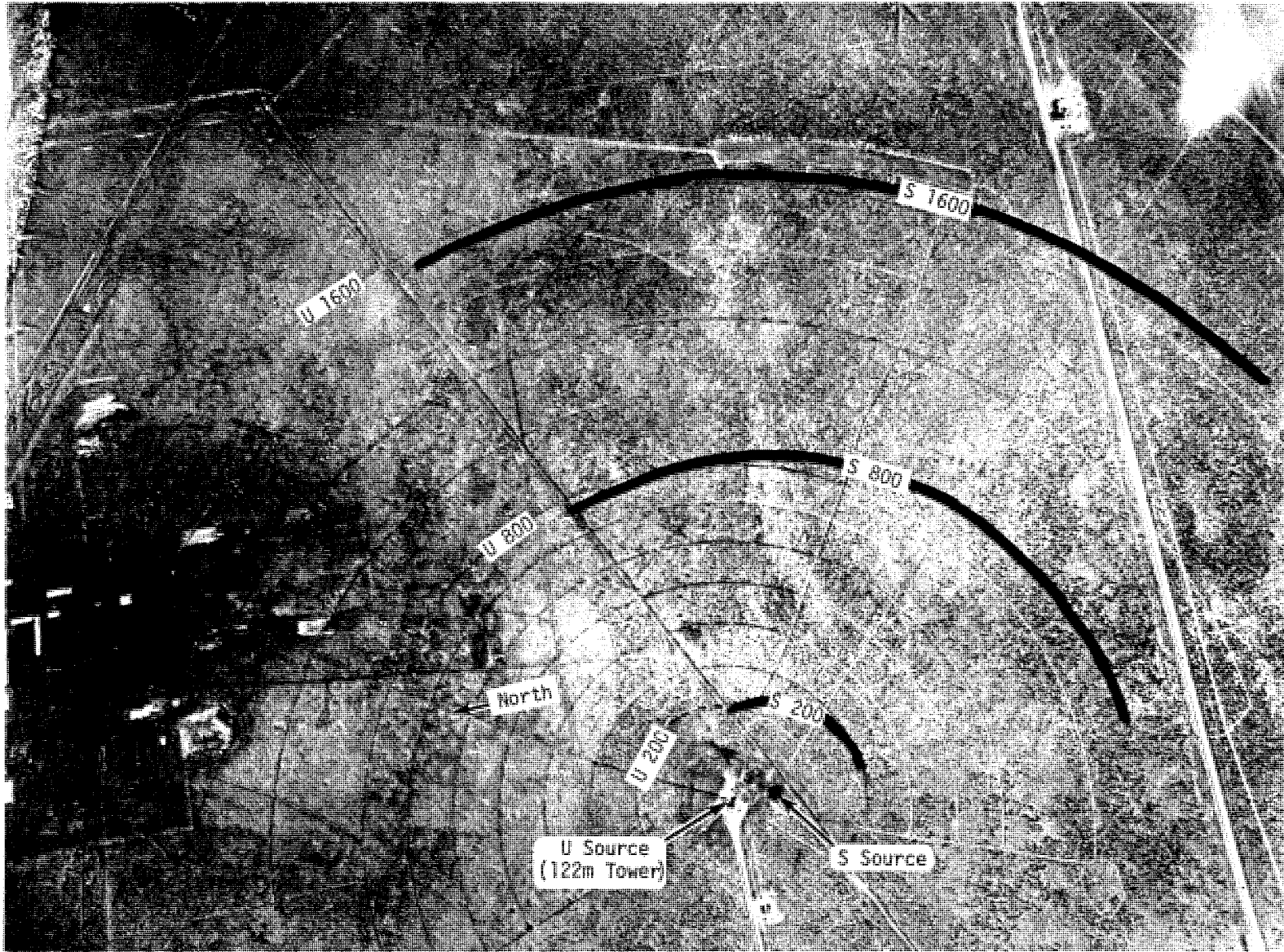


Figure 3. Aircraft view showing sampling arcs to distances of 1600 m from U- and S-sources. The S-source and associated arcs have been retouched to aid in their identification.



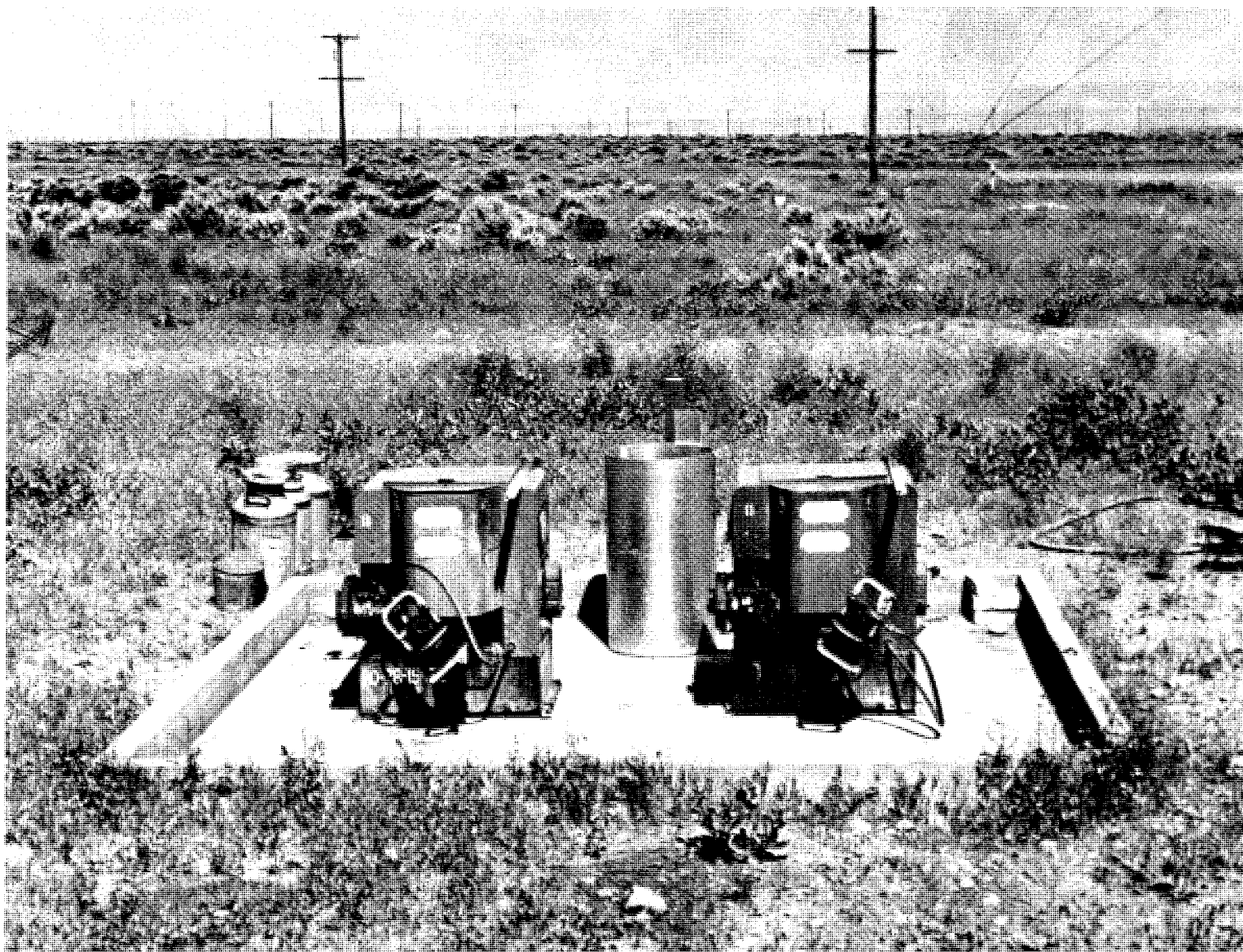


Figure 4. Insecticidal sprayers used in dispersal of ZnS and fluorescein tracers. View looks upwind from the S-source.

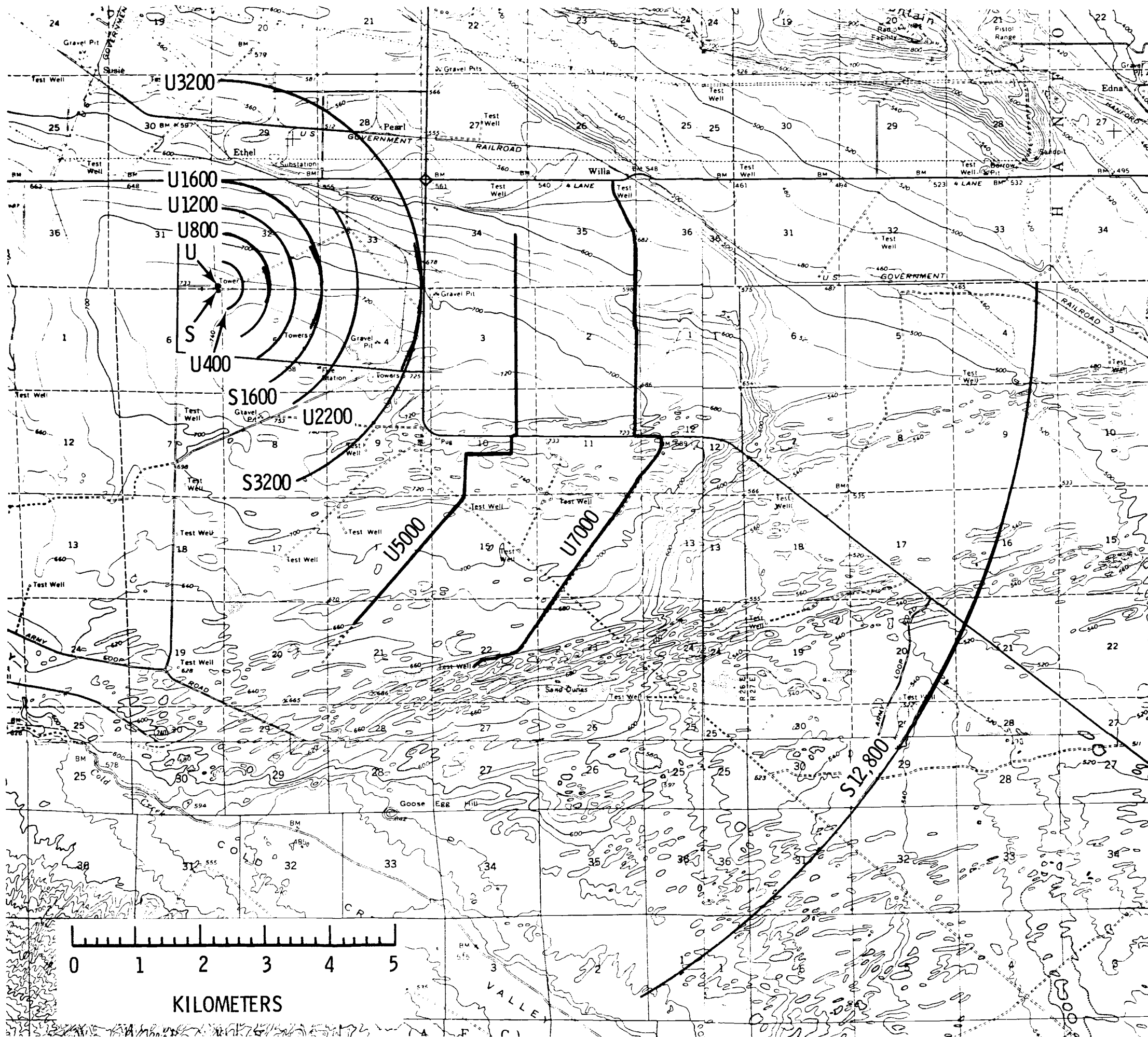


Figure 5. The diffusion grids superimposed on a contour map. Contour interval is 6.1 m (20 ft). (The 200-m arcs are not diagrammed.)

ground-level sampling locations are instrumented with vacuum sources.

Power for field vacuum pumps is supplied by hundreds of gasoline or propane fueled internal combustion engines. A single engine/pump assembly draws vacuum for 1 to 9 sampling stations, with the number depending on the flow rate required at the stations. Flow at each sampling station is controlled by inserting a critical flow orifice in the vacuum line just downstream of the filter-filter holder assembly upon which the particulate tracers are collected. Flow through each sampler is constant as long as the pressure drop across the control orifice is greater than half an atmosphere. This pressure drop is monitored for each engine/pump assembly by inserting a vacuum gauge in the vacuum line immediately downstream of the orifice at the most remote sampler serviced by that assembly.

The ground-level sampling can be supplemented by 365 tower-mounted sampling stations. The towers, as tall as 62 m and as far removed as 3.2 km from the tracer release point, are discussed in more detail later in this section. Vacuum and flow control to the towers are accomplished in a manner similar to that already described for the ground-level sampling.

The vacuum/filter field system described in the preceding paragraphs is employed in the collection of particulate tracers. A much less extensive but more sophisticated sampling network was also deployed on portions of the Hanford field grids during the 67-Series. This system<sup>4,5,6</sup> employed Geiger-Müller tubes at up to 127 field locations to monitor concentrations of the inert gas krypton-85 during nine field experiments. Although the inert gas system recorded the real-time history of tracer concentration at all Geiger tube locations, only the time-integrated concentrations (exposures) are reported in this volume. An earlier data volume<sup>7</sup> reported

real-time concentration measurements for five of the nine krypton releases summarized in the current volume.

The sampling grid(s) used during the 67-Series evolved from grids laid out in 1959 and 1960. The grids were designated the "U" and the "S" grids because their original use was restricted to either thermally unstable (U) or thermally stable (S) atmospheres. The U-grid is laid out in a series of arcs of circles concentric about a 122-m tower. This configuration is evident in Figures 2 and 3. Several arcs concentric about the U-source on these figures are labeled with the letter "U" followed by the radial distance in meters from source to arc. The arcs of the U-grid actually used in one or more of the 67-Series experiments, the crosswind extent of those arcs and other grid design specifications are given in Table 1. The intent is not to imply that all arcs or even the complete angular extent of a selected arc were employed during each field experiment. Experimental objectives, meteorological conditions, and manpower available all were factored into decisions as to which samplers should be activated.

The S-grid source, used with only near ground-level tracer releases, is located 100 m due south of the U-grid source. This location was selected so as to minimize the wake effect of buildings at the base of the 122-m tower. Figure 4 is a view looking "upwind" from the S-source. The S-source is also indicated on Figures 2 and 3. Fewer concentric arcs were instrumented about the S-source. The three arcs closest to the S-source are darkened and labeled on Figure 3. S-grid arcs used during the 67-Series were S200, S800, S1600, S3200 and S12800. The number designation, as with the U-arcs, gives the radial distance in meters from S-source to sampling arc. Further detail on the S-grid is given in Table 1.

Two more "arcs" of opportunity were laid out with azimuths related to the U-source. These so-called arcs were not arcs



TABLE 1

## Design Specifications of Hanford "U" and "S" Diffusion Grids

Grid Source <sup>1</sup> and Distance from Source (m)	Range <sup>2</sup> of 1.5 m Sampling Azimuths	Sampler Spacing	Sampler Flow Rate ( $\times 10^{-4}$ m <sup>3</sup> /sec)	Towers		
				Samples/Tower	Height (m)	Azimuths
U200	342° to 160°	4°	5.07 <sup>4</sup>	17	33	102°, 110°, 118°, 126°, 134°
U300	340° to 120°	4°	5.07			
U400	342° to 154°	4°	5.07			
U500	340° to 120°	4°	5.07			
U600	342° to 122°	4°	5.07			
U700	340° to 120°	4°	5.07			
U800	340° to 121°	3°	5.07			
U1200	360° to 156°	2°	9.09			
U1600	360° to 122°	2°	9.09			
U2200	48° to 156°	2°	17.5 <sup>5</sup>			
U3200	360° to 114°	2°	17.5			
U5000 <sup>3</sup>	82° to 156°	2°	17.5			
U7000 <sup>3</sup>	76° to 146°	2°	17.5			
S200	68° to 158°	2°	1.48	17	27	98°, 106°, 114°, 122°, 130°
S800	70° to 160°	2°	1.53	18	42	98°, 106°, 114°, 122°, 130°
S1600	70° to 154°	1°	2.32	19	62	98°, 106°, 114°, 122°, 130°
S3200	72° to 157°	1°	5.13	19	62	98°, 106°, 114°, 122°, 130°
S12800	91° to 151°	1°	17.5			

<sup>1</sup>Source "U" is at 122-m tower; Source "S" is 100-m south of Source U.

<sup>2</sup>Not all samplers activated during each experiment.

<sup>3</sup>Approximate distance only.

<sup>4</sup>1.48  $\times 10^{-4}$  m<sup>3</sup>/sec during "V" tests.

<sup>5</sup>5.13  $\times 10^{-4}$  m<sup>3</sup>/sec during "V" tests.

of circles, but were merely tracer sampling stations set out along existing roads or trails. They were dubbed the U5000 and U7000 arcs in correspondence with the approximate source-to-sampler distances involved. The specific source-to-sampler distance is tabled in Appendix A each time a U5000 or U7000 sampler intercepted tracer. Figure 5 shows the configuration of the U5000 and U7000 arcs.

For reasons of economy, efficiency or experimental design, it frequently became advantageous to activate parts of the S- and U-grids simultaneously. (For instance, a wider range of acceptable experiment wind directions was possible.) However, tracer sampling stations located at a constant distance and evenly spaced in azimuth on, say, the S-course, were at varying distances and azimuth spacing with respect to the U-source. This non-concentric effect is most significant at distances close to the source, as is evident in comparing locations of the U200 and S200 arcs on Figures 2 and 3. U and S sampling arcs become more nearly congruent at greater distances as is exemplified by the U1600 and S1600 arcs in Figure 3. When displacement of the tracer release source from the center of the employed sampling grid occurred, it was considered in the azimuths and distances reported -- with the exception of the sampling at the S12800 arc. Even when release was from the U-source, the S12800 diffusion data were reported without correction since the 100-meter maximum error in distance and the less than one-half degree maximum error in stated azimuth were deemed of minimal importance.

Twenty towers were instrumented for tracer sampling on the S-grid. These towers were placed at azimuths of 98°, 106°, 114°, 122° and 130° on the S200, S800, S1600 and S3200 arcs. Tower heights were 27 m, 42 m, 62 m and 62 m at the S200, S800, S1600 and S3200 arcs, respectively.

The 100-m separation of the S- and U-sources caused some complication when vertical sampling was desired with an elevated release. Elevated release was not possible from the S-source, and the geometry of the field grids was such that a release of tracer at the U-source could likely not be sampled on both the S200 towers and the more distant S-grid towers. A curved trajectory would have been necessary. The problem was solved to a great extent by the erection of five towers on the U200 arc. These towers at azimuths of 102°, 110°, 118°, 126° and 134° align reasonably well on a radial from the U-source through the S-tower arrays at the greater distances. The U200 towers, 33 meters in height, were used in only the eight "V" experiments conducted after the summer of 1972.

#### TRACER RELEASE, SAMPLING AND ASSAY

Four different tracers were released during the Hanford 67-Series. Small particulate tracers employed were zinc sulfide fluorescent powder (ZnS FP), fluorescein and rhodamine B. The fourth tracer, krypton-85, is an inert gas. The three particulate tracers were collected on membrane filters, and concentrations determined in laboratory procedures which depended upon the fluorescent properties of the tracers. Assessment techniques were discriminatory to the extent that collection of ZnS and fluorescein or ZnS and rhodamine on a common filter proved no problem. Krypton-85, by virtue of its radioactivity, was monitored *in situ* by Geiger-Müller tubes.

#### Zinc Sulfide Fluorescent Particulate 2210

Use of fluorescent paint pigment (FP) as an atmospheric tracer was initiated in 1946 and documented in 1955<sup>8</sup> at Stanford University under the auspices of the U.S. Army Chemical Corps. The Hanford meteorology group began investigation of the use of such fluorescent pigments in 1952, and made use of FP field techniques on a relatively modest scale

through 1958. The development in 1958 of an optical-electronic device<sup>1,9</sup> (which obviated the need for a tedious "man-and-microscope" sample assay procedure) facilitated the laboratory assay of the large number of FP samples collected during the Green Glow and subsequent Hanford field diffusion programs.

The FP selected for use in the Hanford technique is Helecon Fluorescent Pigment 2210 manufactured by U.S. Radium Corp., Morristown, New Jersey. It is ZnS with an activator placed interstitially in its crystalline structure. These particulates have a specific gravity of 4.1. Based on optical microscope sizings at 1000X magnification, the number median (geometric mean) diameter of FP 2210 is about 2.1  $\mu\text{m}$ . Using methods detailed by Green and Lane<sup>10</sup>, the geometric standard deviation ( $\sigma_g$ ) and the mass median diameter can be computed. ( $\sigma_g$  is defined as the standard deviation of the logarithms of the particle radii about the mean. The mass and number  $\sigma_g$  values are identical for log normal size distributions.) The mass median diameter and  $\sigma_g$  for the FP 2210 used in the 67-Series are 4.1  $\mu\text{m}$  and 1.6  $\mu\text{m}$ , respectively. Presuming Stokes law for spheres applies, the number and mass diameters translate to terminal fall velocities of 1.9 m/hr and 7.6 m/hr, respectively.

The ZnS tracer was dispersed to the atmosphere through a commercial insecticidal sprayer. Two of these dispersal devices are shown on Figure 4. A measured quantity of the tracer (generally 1 to 4 kg) was added to a known volume of liquid carrier (generally about 150  $\ell$ ). ZnS is insoluble in the liquid carrier. The tracer was maintained in suspension by insertion of a heavy-duty industrial propeller into the approximately 200  $\ell$  cylindrical tank (Figure 4) in which the tracer-liquid carrier was mixed. The tracer-carrier suspension was drawn directly from the cylindrical tank by the commercial sprayer unit. In the sprayer, the suspension was

pumped to a nozzle assembly where it was atomized by mixing with a jet of heated air and dispersed to the atmosphere. The total tracer dispersed was determined by measuring liquid level in the cylindrical tank before and after tracer dispersal.

The temperature of the air used in the atomization was approximately 400°C. This high temperature was instrumental in producing a spray that was sensibly dry a few meters from the generator nozzle. The evaporation of the liquid carrier aided in the dissipation of heat so that the effluent from the generator felt dry and thermally comfortable to the hand within 1 to 2 m from the nozzle.

In the early years of use of this Hanford tracer dispersal technique, the liquid carrier used was water. Some concern developed over the possibility that, under high humidity conditions, the evaporation of the water carrier in the nozzle spray might take place so slowly that there would be a significant gravitational settling. Therefore, a more volatile carrier, trichloroethane ( $\text{CH}_3\text{CCl}_3$ ), was frequently employed as the liquid carrier in many of the later experiments. The difficulty in use of trichloroethane was that it did not act as a lubricant (as water apparently did) in the insecticidal sprayer. Many more mechanical difficulties or failures of the tracer dispersal equipment occurred when trichloroethane was used. Although it is difficult to assess any field differences that might be due to a difference in carrier used, it can be qualitatively stated that at Hanford there was no obvious effect attributable to the carrier used in the dispersal process.

In the 67-Series, trichloroethane was used in the dispersal of ZnS in all experiments except four. In Tests V5, V6 and V7, water was used as the carrier. In the final test of the series, V8, a commercially available dry FP tracer dispenser was used.

This dry dispenser, manufactured by Metronics Associates, Incorporated, of Palo Alto, California, is described by Leighton et al. in a 1965 journal article.<sup>11</sup> This device evolved from the early Stanford University work with FP. In the early 1950's, a Hanford dry dispenser was built from prints obtained from the Stanford group. Hanford personnel were unable to obtain a constant tracer dispersal rate with this early model dry dispenser. This problem led to the more cumbersome wet dispersal technique which has already been described. A constant dispersal rate was demonstrated with the wet dispersal technique. Further details of the dispersal rate determination -- and of the wet dispersal technique -- are given in Chapter V of the Green Glow documentation.<sup>1</sup>

The possibility was considered that the wet dispersal technique would result in a significant agglomeration of individual tracer particles. However, in the years preceding development of a semi-automated device for assessment of FP 2210 at Hanford, a great number of filters were examined and particles were visually counted with the aid of a microscope and ultra-violet illumination. Very few agglomerates were observed during these microscopic examinations. The wet dispersal technique was in use at that time.

A comment should be made regarding the high temperatures to which the ZnS fluorescent particulates were subjected during the dispersal process. There was concern that the 400°C temperature might alter the fluorescent properties of the tracer even though the high temperature was experienced for only a fraction of a second. Nickola<sup>12</sup>, in 1963, subjected samples of FP 2210 to temperatures of 1000°C for periods up to 20 sec without discernible changes between the pre-heated and post-heated masses indicated when the samples were assayed on the soon-to-be-discussed Rankin counter assay device.

It was also demonstrated in 1963<sup>12</sup> that FP 2210 was not affected by exposure to bright sunlight -- as has been observed<sup>13</sup> for other fluorescent powders. Filters were selected from a field experiment in which tracer dispersal, field sampling and filter retrieval from the field all occurred during hours of darkness. The filters were stored in an opaque box until they were assayed for FP 2210. Subsequent to the original assessment, the filters were exposed to bright sunlight for more than 7 hours before reassessment. (The Rankin counter assessment used does not destroy or alter the field samples.) There was no reduction in the measured mass of FP on the filters.

The filter employed in collecting particulate tracers was a polyvinyl chloride membrane filter designated type VM-1 by the manufacturer, the Gelman Instrument Company of Ann Arbor, Michigan. This filter offers a compromise between the opposing requirements of minimal restriction to flow through the filter and of a flat surface upon which to retain the sampled ZnS. (The latter requirement is germane to the ZnS assay procedure which will be discussed presently.)

The 47 mm diameter filter is inserted into a polyethylene filter holder assembly which leaves a circular area 41 mm in diameter exposed for tracer collection. Figure 6 shows several of these assemblies in place in the turntables of the assay device (Rankin counter). Between the counters, two of the filter assemblies are shown turned face down to display the ribbed nozzle which can be inserted in a neoprene grommet at each field sampling location. A dust cap (as on the assembly marked "1-122" on Figure 6) is placed over the filter-filter holder assembly during handling and storage. In order to minimize tracer contamination from experiment to experiment, all filter-filter holder assemblies are used only once before being discarded.

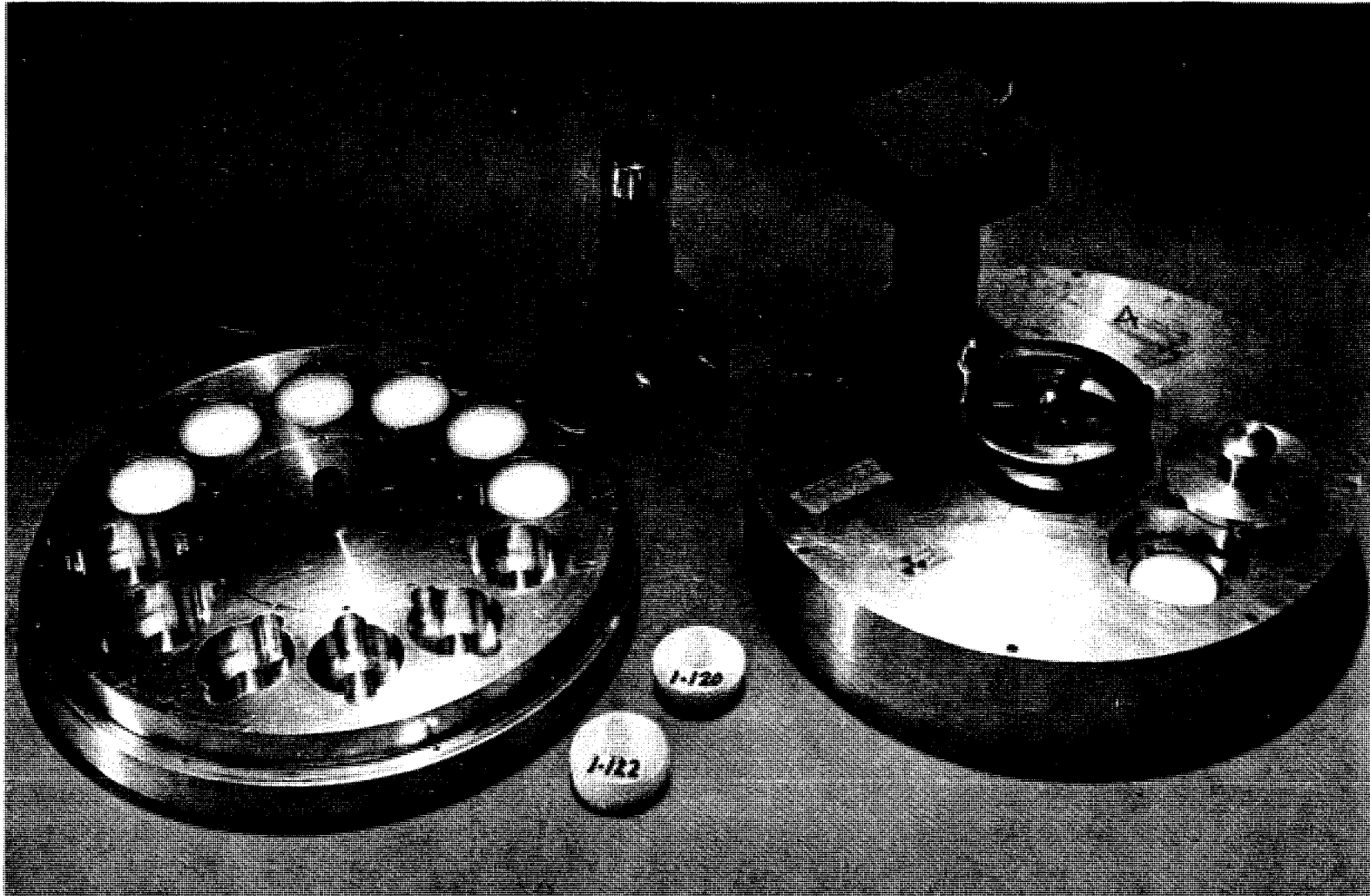


Figure 6. Assembled Rankin counter (right) and disassembled Rankin counter (left) with several field filter assemblies in place for assessment.



Membrane filters from the field were assayed for ZnS FP 2210 by the Rankin counting method<sup>1,9</sup> developed at Hanford in 1958. An assembled Rankin counter is shown at the right in Figure 6. A Rankin counter with top removed to expose a turntable is shown at the left. After the dust cap is removed from a field sampler, the remaining filter-filter holder assembly is inserted into a circular cavity in the turntable. Several filters can be seen in these cavities on Figure 6. The exposed filter is rotated until it lies directly below a multiplier phototube. Here a 200-microcurie plutonium source, in the shape of an annulus about the face of the phototube, bombards the face of the filter with alpha particles. If there is any FP on the filter face, it is excited to fluorescence by the alpha bombardment, and the scintillations are monitored by the phototube, amplified and counted by a scaler. The VM-1 filter, which retains the bulk of the FP on its surface rather than allowing deeper penetration, enhances the probability of the short-range alpha particles reaching the FP and of the resulting scintillations being seen by the photomultiplier. The Rankin counter calibration is specific for the type filter employed.

Design of the counting pig permits the operator to insert or remove a filter from the turntable at the same time another filter is being counted under the phototube. This procedure was a significant time saver in view of the large number of filters assayed for each experiment.

Normal counting time employed during the 67-Series was one minute for each filter. The count rate on unexposed filters was generally zero. Field exposed background filter count rates were from 0 to about 6 counts/min due, presumably, to some foreign fluorescent material in the ambient atmosphere. Despite precautions, infrequently there was strong evidence of contamination of some exposed filters with the ZnS tracer. This contamination was generally associated with tower samples

where it was more difficult to minimize the handling of filter assemblies during field deployment and collection.

The Rankin counter underwent a primary calibration against a series of filters of well established mass several times during the Hanford 67-Series. The calibration in effect at the end of the series was

$$M = (2.06 \times 10^{-10}) C \quad ,$$

where M is mass of ZnS FP 2210 in grams and C is Rankin counts/min. If the level of detection with confidence is considered as 20 counts/min (about 3 times the maximum field background), the corresponding mass was about  $4 \times 10^{-9}$  grams. Count rate reproducibility is good with the Rankin counter, particularly at the higher count rates. The ratio of count rate standard deviation to mean count rates of 100, 1000, 10,000 and 100,000 counts/min are 0.16, 0.048, 0.038 and 0.012, respectively.

The Rankin counter was also checked (and tuned electronically, if necessary) against a standard filter left continually in one of the twelve turntable cavities. Inasmuch as the standard filter was counted each time it passed beneath the photomultiplier, this secondary calibration occurred once for each 10 field filters assayed. (A background filter occupied the twelfth turntable cavity.)

One difficulty with the Rankin counting technique is that atmospheric dust -- or carbon from the internal combustion engines associated with the field vacuum system -- can collect on the filter face and degrade the scintillations monitored by the photomultiplier. Accordingly, a series of previously assayed filters with ZnS thereon, but which had a clean appearance, were intentionally subjected to tracer-free but dust-laden air. The filters were ranked subjectively from 1 (clean) to 10 (extremely heavy dust load) according to their post-dust

visual appearance. It was found that assay of filters with dust nomenclature of 4 or less was essentially unaffected by the dust. With successively higher dust nomenclature, increasingly greater count rate degradation was observed. Therefore, in the exposures for ZnS listed in Appendix A of this report, dust nomenclature is indicated for filters graded 5 or greater. This point will be discussed further in the section entitled "The Experiments".

Perhaps it should be pointed out that a liquid scintillation counting technique<sup>1,14</sup> is available which to a large extent overcomes the ZnS assay problems caused by dust-laden filters. However, the laboratory procedure is a much more tedious "wet" procedure than the simple Rankin counting approach. This fact, plus the relatively few dusty filters encountered during the 67-Series, led to the decision not to employ this more elaborate assay technique.

In order for a filter to sample particles carried in a fluid stream properly, the fluid velocity at the filter face should equal the ambient fluid stream velocity. In this isokinetic flow situation, the fluid streamlines neither diverge nor converge at the filter. Therefore, the particles imbedded in the fluid are sampled properly. However, if the face velocity at the filter is substantially greater or less than the ambient fluid velocity, the particles carried by the fluid will not (by virtue of their greater density than the fluid) faithfully follow the fluid streamlines in the vicinity of the filter. In the case of the Hanford field vacuum grid, the filter face velocities were essentially always less than ambient wind speed, resulting in sub-isokinetic sampling.

Sehmel<sup>15</sup>, in a 1966 wind tunnel study, investigated non-isokinetic sampling effects using ZnS FP 2210 and the standard Hanford field filter. He derived corrections for nonisokinetic flow which are functions of wind speed and filter flow rate.

Sehmel's corrections have been applied to all the ZnS data presented in this report.

### Fluorescein

An atmospheric tracer technique using uranine dye, the sodium salt of fluorescein, was reported by Robinson, et al. in 1958.<sup>16</sup> The possibility of using this dye as a tracer to complement the existing ZnS FP 2210 technique was first investigated at Hanford in 1961,<sup>17</sup> with early field results reported by Nickola<sup>18</sup> and by Ludwick.<sup>20</sup> The term fluorescein, rather than the specific salt, uranine, has been applied to the dye in Hanford nomenclature. This dye is available through industrial chemical suppliers.

The fluorescein used during the Hanford 67-Series was labeled "Uranine Conc. Code 1801" by the vendor, Allied Chemical Company, San Francisco, California. These particulates have a specific gravity of 1.53. Based on microscope sizing at 1000X magnification, the specific batch of fluorescein used had a number median diameter of 1.4  $\mu\text{m}$ , a mass median diameter of 18.6  $\mu\text{m}$  and a  $\sigma_g$  of 2.5. The number and mass median diameters translate to terminal fall velocities of about 0.4 and 64 m/hr if Stokes law is applied.

As with the ZnS, dispersal of fluorescein was by means of a commercial insecticidal sprayer. The liquid carrier used in the dispersal tank was trichloroethane. Fluorescein is insoluble in this liquid. The dispersal process used in all but two 67-Series fluorescein releases was as described for the ZnS releases.

During Tests U91 and U92, the fluorescein dispersal technique was altered. In these two tests, the liquid in the mixing tank was water. Fluorescein was added to give an approximate 2.6% solution of fluorescein in water. This solution was dispersed to the atmosphere at a rate of about 95  $\ell/\text{hr}$ .

Although no particle-size measurements were made during field tests U91 and U92, the manufacturer specifications on the insecticidal sprayer indicate that a droplet size of about 25  $\mu\text{m}$  diameter should be generated with the sprayer control settings employed and the liquid consumption rate observed. Stein et al.<sup>19</sup> measured the density of fluorescein particles generated through nebulization as 0.58 g/cc. Presuming this density and the parent droplet size of 25  $\mu\text{m}$  apply, the resultant diameter of the dry fluorescein particle during Tests U91 and U92 was 8.8  $\mu\text{m}$  with an associated Stokes terminal velocity of 5.0 m/hr. The lack of a measured size distribution of particles or droplets precludes further detail.

The filter employed for collection of the fluorescein tracer has already been described in the discussion of the ZnS tracer. In the cases where both ZnS and fluorescein were dispersed and sampled, the ZnS assay on the dry filter was carried out first. The filters were then placed individually in glass vials. Distilled water was added to dissolve the fluorescein particulates on the filter, leaving the insoluble ZnS imbedded on the filter. The fluorescein solution was then assayed with a previously calibrated spectrophotofluorometer with excitation and emission wave lengths tuned for optimum performance. The fluorometer employed was model number 4-8202 manufactured by the American Instrument Company of Silver Spring, Maryland. The analytical technique is explained in greater detail by Ludwick.<sup>17,20</sup>

Although less than  $1 \times 10^{-11}$  gram of fluorescein was detectable under laboratory conditions, field pollutants and filter-to-filter background variance resulted in a more realistic field-detection limit of about  $5 \times 10^{-9}$  grams. The greater variance in background made definition of the tails of crosswind or vertical tracer distributions less certain with fluorescein than with ZnS.

In contrast to the deleterious effect that the dust-ZnS combination displayed with the ZnS assay, the laboratory assessment of the fluorescein in solution was minimally affected by dust.

Although no laboratory tests were made to directly investigate the possible effects of the subjection of fluorescein to high temperatures during dispersal, Nickola<sup>18</sup> found that ZnS and fluorescein released from the same location gave compatible downwind field concentrations. Reduction of fluorescence due to mixture for a fraction of a second with air at 400°C caused no obvious problems in these 1964 field tests.

No corrections have been attempted for non-isokinetic sampling of fluorescein on field filters.

#### Rhodamine B

Use of another soluble fluorescent dye, Rhodamine B, began at Hanford in 1968.<sup>21</sup> This dye, dissolved in methanol, was dispersed in only six of the Hanford 67-Series experiments. The 1% rhodamine solution was dispersed to the atmosphere by means of a pair of ultrasonic nozzles. This technique, described by Dana,<sup>22</sup> generates particles of small diameter. No heat was supplied during the dispersal process.

Measurements made during Tests V1, V2 and V3 with Anderson cascade impactors revealed a mass median particle size of about 1  $\mu\text{m}$  and a  $\sigma_g$  of 3.2. Although no measurement of the specific gravity of the ultrasonically-generated particles was made, the specific gravity of the parent powder particulate (before solution) was 1.38. This contrasts with the specific gravity of 1.53 of the fluorescein parent particulate. Assuming the 1.38 specific gravity is applicable to the 1  $\mu\text{m}$  particles, and that Stokes law applies (electron micrography displayed spherical particles), the terminal velocity of the mass median rhodamine particles was 0.14 m/hr. If it is

presumed that the density of the nebulized particles is only 38% of the parent powder (as was the case with fluorescein), the 1  $\mu\text{m}$  rhodamine particle should have a Stokes fall velocity of 0.05 m/hr. In either event, the terminal velocity of the rhodamine tracer particles should be negligibly small.

Rhodamine was sampled on the same filter as was ZnS. The assessment procedure for rhodamine was essentially identical to the procedure employed for fluorescein. Since fluorescein and rhodamine were not paired in field release, no tracer discrimination was required from the fluorometer.

As with fluorescein, the detection limit for rhodamine under ideal laboratory conditions was much lower than for field exposed filters. The respective laboratory and field detection limits were approximately  $5 \times 10^{-11}$  and  $2 \times 10^{-8}$  grams. Again, as with fluorescein, specification of the tails of field tracer distributions was more difficult with rhodamine than with ZnS.

Also, as with fluorescein, dust collected on field samples offered no obvious assay problem with rhodamine.

No corrections for non-isokinetic flow were applied to the masses of rhodamine collected on field filters. However, the small particle size would have made such corrections minimal in any event.

To some degree with all the particulate tracers, there are opposing objectives in dispersal. On the one hand there is the desire to disperse large masses of tracer to the atmosphere so that downwind sampling problems will be minimized. On the other hand, the desire is to disperse the particulate as individual small particles and to avoid effects due to dispersal technique (as opposed to effects due to atmospheric turbulence and diffusion). The dispersal of rhodamine B as 1  $\mu\text{m}$  particles tended to minimize dispersal problems and to maximize field detection problems. About 100 g of rhodamine were released

during each test, whereas typical ZnS or fluorescein releases were from 1000 g to 3000 g.

### Krypton-85

A field system for measuring atmospheric concentrations of the inert radioactive gas krypton-85 was developed and deployed in the field at Hanford in 1967. Ludwick et al.<sup>4</sup> and Nickola et al.<sup>5</sup> have described this system in reasonable detail. A data volume including time-histories of concentration at 63 field locations for eight instantaneous (puff) releases and for five continuous releases (Tests C1 to C5 of the 67-Series) has been published.<sup>7</sup>

Among advantages of this noble gas tracer technique are that krypton has minimal interaction with structures and vegetation, and will not react with other atmospheric constituents. And although only "continuous" releases are considered in this report, the field technique does include the capability of releasing instantaneous puffs by the simple procedure of dropping a brick on a quartz vial of the gaseous tracer.

Among disadvantages of this tracer technique are the cost of each field sampling unit and the necessity of running a signal cable from each sampler to a central signal processing station.

During the five experiments of the 67-Series prefixed with the letter "C", krypton was released from a pressurized cylinder. A minimal volume of krypton-85 had been inserted into the argon carrier in the cylinder. Release rate of the krypton was about 1 Ci/min. The rate of the krypton/carrier gas dispersal was monitored by a rotameter, and valving was manually adjusted to maintain a nearly constant rate of release.

During the six krypton-release experiments prefixed with the letter "V", the flow rate from the pressurized source



cylinder was automatically held to a constant rate by an electronic mass flow control device. Dispersal rate during the V-tests was about 0.6 Ci/min.

Airborne krypton concentration was monitored by Geiger-Müller tubes (Model 18546) manufactured by Amperex Electronic Corporation, Hicksville, New York. These detectors are of the end window type with a window diameter of greater than 50 mm. These field detectors were calibrated by a procedure involving support of the detector inside a large meteorological balloon into which a known amount of krypton-85 had been inserted. The Geiger counters were calibrated in two modes. In the mode where the open face of the detector was exposed to the atmosphere, a krypton concentration of  $1 \mu\text{Ci}/\text{m}^3$  corresponded to a count rate of 9.7 counts/sec. In a mode where a remote control valve partially shielded the face of the tube (even when the valve was open), a concentration of  $1 \mu\text{Ci}/\text{m}^3$  resulted in a count rate of 5.5 counts/sec. (The weather-proof valves were used primarily on tower-mounted tubes where manual removal of between-experiment protective covers was impractical.)

During the prefix C experiments, a total of 63 detectors were deployed on portions of arcs S200 and S800. Three S200 towers were instrumented to elevations of 10.7 m, and three S800 towers were instrumented to elevations of 21.3 m. A series of 38.4-sec end-to-end concentration measurements was made.

During the prefix V experiments, a total of 127 detectors were deployed on portions of the U200, S800 and S1600 arcs. All ten towers on the U200 and S800 arcs were instrumented to their tops -- 32.8 m and 42.0 m at S200 and S800, respectively. The time increment for which short-period concentrations were recorded during the V-tests was 10.0 sec.

## DESCRIPTION OF EXPERIMENTS AND DATA

The Hanford 67-Series experiments were carried out during 54 separate days. During most of the experiments, two or more tracers were released -- generally from different elevations above the same point. Zinc sulfide tracer was released on 50 occasions. Fluorescein, rhodamine B, and krypton-85 were released on 38, 6 and 9 occasions, respectively. Tracer sampling equipment was activated before tracer dispersal began and was continued for a period deemed long enough for the bulk of the tracer to pass before deactivation. (The deactivation time was based on the wind speed at 15 meters. A time period 2-1/2 times as long as necessary for uninhibited transport to the sampling arc of interest was generally allowed.)

The cataloging of the field diffusion and meteorological measurements in this volume follows (with three exceptions) the chronological sequence of experiments. Table 2 introduces the 54 experiments/103 releases of the 67-Series in the near chronological order. This table identifies the tracer release point, the type tracer, the release elevation, several pertinent meteorological measurements, and the extent of sampling during each test.

Tables 2 to 5 and Tables/Figures C-1 to C-4 are intended to be largely self-explanatory. The intent of these tables and figures is to enable a researcher to conveniently pinpoint the specific experiments in the appendices that are pertinent to his area of interest. If these tables and figures do their intended job, much of the narrative in this section can be considered of minimal importance.

Tables 3 and 4 give the frequency of releases from various elevations and show the number of times sampling was attempted at various distances. These tables also place a qualitative specification on the overall sampling results for specific locations.

Table 5 is divided into four parts on the basis of tracer release height. These four tables give some detail on the location and quality of sampling for each field tracer release. The symbols indicating the degree of success at each sampling arc are based on slightly less severe standards than are the symbols which are associated with the quantitative summaries listed in Appendix B.

For reasons which will be pointed out later, there are many instances when it was felt that estimates should be supplied for "bad" or missing data. However, no effort has been made to change the general character of the observations merely because the observed data were unexplainable. For instance, consider field test D4. Both fluorescein and ZnS were released from the same point. Yet on three of the towers at a distance of 200 m, complete vertical distributions of ZnS were observed, but no fluorescein was detected at all.

As has been mentioned in the section describing the ZnS tracer technique, sampling of particulates on filters opens the door to non-isokinetic sampling errors. Even though corrections have been applied to the ZnS data in an attempt to compensate for this error, it is felt that the wind tunnel-determined empirical corrections do not always perform an adequate adjustment. Furthermore, no isokinetic corrections are attempted with the fluorescein or rhodamine assessments. The result can be a "roller-coaster" effect in the situation where arcs of relatively low flow rate are interspersed with those of higher flow rate. Both ZnS and (especially) fluorescein for field test U83 offer such an example. The U400 (high flow rate), S800 (low flow rate), U1200 (high), S3200 (low), U2200 (high) sequence of sampling results in normalized measured concentrations at these arcs which appear to be low, high, low, high and low, respectively. Let it be stressed that flow rate has been factored into the calculations.

The uncertainty as to which values of concentration are most proper is disconcerting. (It is the author's opinion that inasmuch as the higher flow rates required a smaller correction, they generate more nearly correct values.) In defense of what may seem to be poor field technique, the roller coaster effect would never have been observed had the same flow rate been used at all sampling arcs -- or had a higher flow rate been used at each succeeding arc. Such flow arrangements would not necessarily have made the measured concentrations any closer to the correct values, but merely would have given results more pleasing to the eye.

Before proceeding with the description of the method of presentation of the individual field experiments, a mention of near-source wake effects seems in order. Although the ideal experiment would entail a point source release into an undisturbed ambient atmosphere, such releases are impossible. Perhaps the experiments with the least disturbance in the upwind fetch were the four prefix D experiments. Figure 4 shows the upwind fetch for these four experiments. During the C experiments, the particulate dispersal equipment shown in Figure 4 was placed on a low, flatbed trailer about 6 m in length which was parked about 4 m upwind of the source. The ZnS during Test C5 was dispersed from this trailer. The krypton during the C experiments was released from the cement pad shown in Figure 4, and thus had the trailer and associated equipment forming a lattice-like cross section of about 8 to 10 m<sup>2</sup> in the upwind fetch.

All elevated releases were undoubtedly affected to some degree by the wake induced by the 122-m tower from which release took place. This tower is a rather sturdy structure, triangular in cross section, and about 3.6 m on each side. Some idea of the appearance of this structure can be gained by examination of Figure 2.

The near ground-level releases from the U-source (Tests U56 to U70) were subjected to perhaps the worst wake situation. First, the dispersal equipment (Figure 4) was mounted on a small trailer; secondly, the wake of the 122-m tower a few meters away no doubt added to the turbulence; and third, a small 4 m x 4 m x 3 m building stood near the base of the tower. (The bulk of the building complex shown in Figure 4 at the base of the tower was dismantled prior to the start of the 67-Series.)

#### The Appendix A Diffusion Data

Appendix A gives the individual field diffusion measurements. These data form the bulk of this data volume. The 54 experiments are presented in the order given in Table 2. Dual tracer release data are presented side-by-side. Some general comments pertinent to each field experiment precede listing of the individual field measurements. The date and time of release, tracer release elevation and wind speed at release height are included in a heading preceding each arc or tower of measurements.

The body of the Appendix A tables gives AZIMUTH with respect to the source in the first column, and DISTANCE from the source in the last column. In instances where S-grid arcs (or portions of S-grid arcs combined with portions of U-grid arcs) were employed with U-source releases, the nonuniformity of the samplers with respect to these sources is reflected in these first and last columns. For example, during field test U71, release was from the U-source (Table 2). The Appendix A data for Test U71 fluorescein indicate that all sampling at the 400M arc was actually done on the U-grid inasmuch as azimuths increment evenly by 4°, and all distances are listed as 400 m. However, on the 800M arc, the samplers exposed between 61.0° and 97.0° were on the U-grid (3° increments and 800 m distance), while those exposed between 97.1° and 110.7° were

on the S-grid (uneven azimuth increments and distances not 800 m). As mentioned earlier in description of the grid, the data from the S12800 arc are not "corrected" for the variation in distance and direction resulting from release from the U-source. The 100-meter separation of U- and S-sources is considered of minimal importance at this distance.

The second column in the Appendix A tables lists EXPOSURE. (For towers, a column specifying sampling HEIGHT precedes the EXPOSURE column.) The EXPOSURE data for particulate tracers evolves from division of the mass of tracer measured on each filter by the flow rate through the filter (Table 1). Inasmuch as no normalization to source strength is made in the EXPOSURE column, the magnitude of the individual numbers are directly related to the mass of tracer collected on each filter, and are therefore related to the confidence that can be placed in each sample. For the krypton tracer, the EXPOSURE column is the integral of concentrations measured over all the shorter time increments. Magnitude here is also related to the confidence that can be placed in an individual sample.

The EXPOSURE column has been left in digital format (as opposed to scientific notation as in the subsequent 2 columns) in order to give an analog appearance to concentration distribution across an arc (or up a tower). In most cases the shape of the crosswind (or vertical) distribution is relatively obvious with a glance at the column.

In the column headed E/Q, exposure has been normalized by dividing by the total mass emitted (or total curies in the case of the krypton emissions).

EU/Q is the exposure normalized to both unit emission and unit wind speed. The mean wind speed (U) used in this normalization is that listed in the heading immediately preceding each arc (tower) of data. It is the mean wind speed at the release height during the period of release. (In the cases

where more than one tracer was released at the same time but release periods differed, the U used in the EU/Q column resulted from measurements over the longer release period.)

In many cases, a one-character symbol precedes the azimuth column in Appendix A. These symbols indicate that something less than ideal was associated with the sample. A detailed explanation of the alphabetical symbols is given at the beginning of Appendix A. The numerical symbols were mentioned earlier in the subsection entitled "Zinc Sulfide Fluorescent Particulate 2210". It was stated that filters with visual dust nomenclature of 4 or less appeared to give no problems. However, the indicated mass of zinc sulfide on a filter was reduced when a visual dust rating of 5 or more was observed. The experiment upon which this conclusion was based was severe, however. It involved collecting tracer on a filter followed by the collection of dust. If the dust had been collected first, leaving the tracer "on top" of the dust, the degradation of the zinc sulfide assessment might not have been as severe. In any event, the observation of a 5 or greater dust loading can be associated with a reduction in indicated ZnS, but it is not necessarily so in all cases. It should be pointed out that in many cases dust nomenclature of less than 5 is indicated on the Appendix A data. These are vestiges of laboratory assessment notes made before the mentioned dust loading experiments were made, and can thus be ignored.

Since each 1.5-m sample was used in the computation of CROSSWIND INTEGRATED concentrations following each arc of data (and in other statistics to be found in Appendix B), it was deemed wiser to substitute a reasonable estimate for an obviously erroneous sample than to have an erroneous number go into the computations. These estimates are frequently merely interpolations or extrapolations of data collected on the same arc. At times it was necessary to plot areal distributions of

tracer and to interpolate concentrations on a mid arc from arcs closer to or farther from the source than the arc in question.

In some instances, the amount or quality of data on an arc is so low that no estimations were attempted. Also, since no vertical moments or vertical crosswind sums were computed, the incentive to supply estimates for poor tower samples was not as great as it was for the poor 1.5-m samples. Thus the poorer tower measurements are frequently reported directly with an accompanying remark symbol other than "E" for "estimate".

#### The Appendix B Diffusion Summaries

Appendix B summarizes the ground-level data for each of the 103 releases. Presented first is a repeat of the specific experiment remarks from Appendix A. A heading then identifies the specific tracer and gives pertinent release information.

The first column of the tabular data indicates DISTANCE FROM SOURCE. The next four columns give statistics relating to the CROSSWIND DISTRIBUTION. The first of these columns gives the location of the MEAN of the crosswind distribution. The STANDARD DEVIATION ( $\sigma_y$ ) and COEFFICIENT of SKEWNESS and KURTOSIS for the crosswind distribution follow.

The next three columns give the AZIMUTH and the magnitude of the three largest exposures measured at each arc. E/Q is exposure normalized to source strength, and EU/Q is exposure further normalized to wind speed, U, at tracer release height. Three values of exposure are given in order to reduce the chance of considering a "sport" or somehow erroneous measurement as representative of plume centerline.

The last two columns give CROSSWIND INTEGRATED values for the source and source/wind speed-normalized EXPOSURES.

Tabulated data followed by the symbol "?" indicate some uncertainty in the data. The uncertainty may involve estimates



in the Appendix A data. Perhaps there was some question on the performance of the laboratory assay equipment. The symbol is intended to alert a user of the data to the fact that something not completely routine went into the generation of the associated number. An examination of the remarks preceding the table or scanning of the appropriate Appendix A field data should display the reason for the symbol. Where estimates of missing data were on the tails of a distribution, or where a broad distribution made one large estimate of minimal consequence, a "?" may not have been appended in the Appendix B data. Admittedly some subjectivity went into the decision as to whether to append the symbol or not, and a second review of the data would not result in precisely the same tagging. The symbol is intended primarily as a convenience to the data user.

Appending of the symbol "X" to Appendix B data symbolizes a much more serious difficulty with the data. The data are either incomplete or invalid. For instance, the computation of a mean,  $\sigma_y$ , skewness, kurtosis and crosswind integrated exposure from a badly truncated distribution lacks significance. An "X" is then appended. (However, if the truncated distribution is such that there is little doubt that the plume centerline was observed, no "X" is appended in the MAXIMUM EXPOSURE columns.)

The qualification for a "clean bill of health" in Appendix B was a bit more strict than was the case in Table 5. Thus a "?" may be found in Appendix B whereas a "C", indicating no problems, may have been listed for the same data in Table 5.

## The Appendix C Meteorological Data

Vertical profiles of temperature, wind speed and wind direction were measured on the 122-m tower at the U-source during the Hanford 67-Series. In addition, wind speed and direction were measured on a second tower -- also generally near the tracer release point.

Temperature measurements on the 122-m tower were made by Foxboro thermohms. The aspirated thermohms were exposed at elevations of 0.9, 15.2, 30.5, 45.7, 61.0, 76.2, 91.4 and 122 m (3, 50, 100, 150, 200, 250, 300 and 400 ft). During the eight prefix-V tests, an additional thermohm was exposed at an elevation of 6.1 m (20 ft). Recording was a series of points on a strip chart. About 3-1/2 minutes were required to cycle through all temperature sensors. Inasmuch as most field tests were 30 min in duration, eight or nine measurements were available to compute the mean temperature for a given elevation as presented in Table C-1 and Figure C-1 of Appendix C.

Wind speed and direction on the 122-m tower were measured by seven Aerovane anemometers mounted at elevations of 2.1, 15.2, 30.5, 45.7, 61.0, 91.4 and 122 m (7, 50, 100, 150, 200, 300 and 400 ft). The starting speed for Aerovane propellers is approximately 1 m/sec. The Aerovane is a rather large streamlined vane/anemometer assembly about 80 cm in length. The assembly has a distance constant of about 4.5 m for speed and about 10 m for direction.

The Aerovane outputs were recorded on strip charts moving at the rate of 7.6 cm/min (3 inches/min). The strip chart traces were averaged (means) by eye for 20-sec increments, and the resulting digitized data were used in computing mean speeds, mean directions, and standard deviations of wind direction for the periods of tracer release.

For the bulk of the field tests, wind speed and direction were measured at six levels on a 25-m tower located about 25 m west of the S-source. (During Tests U84 to U92, these sensors were mounted on the tower at 106° on arc S1600.) The system for measuring and recording winds on this tower has been described by Ratcliffe and Sheen.<sup>23</sup> The wind speed sensors were Beckman and Whitley Model M1564 three-cup anemometers. These cups have a starting threshold of less than 0.4 m/sec and a distance constant of about 1.5 m. Circuitry was arranged to permit accumulation of an integrated wind speed for 3.5 sec, after which 1.5 sec were consumed in signal processing and recording. In each minute, 12 such recorded segments of wind speed were accumulated for each anemometer.

Wind direction transducers employed on the 25-m tower were Beckman and Whitley Model M1565 vanes. These vanes respond to winds of less than 0.4 m/sec and have a distance constant of about 1.5 m. The output signals from these lightweight vanes were smoothed by a filter having a 5-sec time constant. The filter output was sampled for 60 msec once each 5 sec, digitized and recorded. The digitized data were used for computing mean directions and standard deviations of direction,  $\sigma_{\theta}$ .

The Beckman and Whitley cups and vanes were mounted at elevations of 0.76, 1.5, 3.0, 6.1, 12.2 and 24.4 m (2.5, 5, 10, 20, 40 and 80 ft) during most of the field experiments. During Tests U 84 to U92 they were mounted at elevations of 2, 4, 8, 16, 32 and 36 m. Thus, the spacing between wind sensors on the shorter towers was closer than was the spacing between Aerovanes on the 122-m tower. Wind speeds indicated by the Beckman and Whitley cups frequently averaged slightly higher than those computed from the Aerovanes, although the shapes of the profiles in the area of common measurement were in excellent agreement. The wind speeds reported on Table C-2

and Figure C-2 of Appendix C are based primarily on the cup measurements at the lower elevations, and on the Aerovane measurements above the measurement level of the cups.

Two sets of wind direction and wind direction standard deviation ( $\sigma_\theta$ ) data were developed. One set is based on the Aerovane measurements, and one set follows the Beckman and Whitley vane measurements. These measurements are found in Tables C-3 and C-4 of Appendix C, and are graphed in Figures C-3 and C-4. With a few exceptions during light wind cases, these data show that agreement between Aerovane and Beckman and Whitley data is reasonably good. The agreement in mean direction profiles is rather expected. However, in view of the difference in physical characteristics of the large Aerovane and the relatively lightweight Beckman and Whitley vane, and the difference in the method of digitizing direction, the agreement in  $\sigma_\theta$  profiles is more surprising.

It has been the author's experience that the orientation of a wind vane is not a simple matter. If only one vane is exposed, one may feel confidence in the orientation. Exposure of a second vane at an elevation differing from the first essentially always results in a difference in mean direction that can logically be explained by wind direction shear with height. However, addition of a third, a fourth, and more vanes at additional elevations seems to inevitably lead to mean direction profiles that have repetitive kinks that should not logically be there. This observation is made as a partial or likely explanation of some of the similarly-shaped wind profiles observed at times in the 67-Series. Aerovane direction profiles for the upper elevations during Tests U84, U85 and U86 are an example (Figure C-3).

The data presented on Tables C-1 to C-4 and Figures C-1 to C-4 are based on measurements made during tracer release. In the event that two or more tracers were released during the

same experiment and the periods of release did not coincide, the meteorological data apply to the longer tracer release period.

Note that on Figure C-1, which depicts vertical profiles of temperature, the vertical scale is linear. On the companion Figures C-2, C-3 and C-4, the vertical scale is logarithmic. Heights of tracer release are indicated on all these figures by the symbols F, K, R and Z for fluorescein, krypton-85, rhodamine B and zinc sulfide, respectively.

It is recognized that use of Figures C-1 to C-4 in a quantitative sense would be difficult. However, the intent of these figures is to aid in picking out features in the vertical profiles that otherwise might not be obvious. Once a characteristic of interest is observed on the analogs of Figures C-1 to C-4, absolute values can be obtained from Tables C-1 to C-4.

## ACKNOWLEDGEMENTS

It would be impossible to acknowledge individually the great number of people involved in the field work, laboratory assessment, and data reduction associated with the Hanford 67-Series. However, thanks are particularly due those unnamed individuals who were frequently roused from warm beds to "head for the tules" in the rather unorthodox hours required by most of the 67-Series experiments.

For the data volume specifically, thanks are due Mr. G. H. Clark of the Australian AEC who, during his temporary assignment at Hanford, developed the parent computer program from which the Appendix A and B programs evolved.

The field work summarized in this report was conducted under the auspices of the former Atomic Energy Commission's Division of Biology and Medicine and the former Energy Research and Development Administration's Division of Biomedical and Environmental Research, the functions of which have now been transferred to the Department of Energy.

The assembling of data and publication of this document is jointly sponsored by the above-mentioned ERDA Division and by the Division of Reactor Safety Research of the Nuclear Regulatory Commission.

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1973	BNWL-1850, PT 3
1972	BNWL-1751, Vol. II, PT 1
1971	BNWL-1651, Vol. II, PT 1
1970	BNWL-1551, Vol. II, PT 1
1969	BNWL-1307, Vol. II, PT 1
1968	BNWL-1051, Vol. II, PT 1
1967	BNWL-715, Vol. II, PT 3
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TABLE 2. GENERAL GRID, SOURCE, RELEASE AND METEOROLOGICAL INFORMATION.

TEST	GRID SOURCE	TYPE <sup>1</sup> & DURATION <sup>2</sup> OF TRACER RELEASE					UBAR, M/S		SIG Θ, DEG		DELTA T, F DEG		SAMPLING DISTANCE FROM SOURCE, M		TOTAL TOWERS ACTIVE	TEST
		1M	2M	26M	56M	111M	1.5M	61M	1.5M <sup>3</sup>	61M <sup>4</sup>	0.9 TO 30M	15 TO 61M	NEAREST	FARTHEST		
D1	S		ZF				1.1	3.9	22	10	1.7	0.7	200	3200	20	D1
D2	S		ZF				1.6	6.6	10	5	6.4	2.0	200	3200	20	D2
D3	S		ZF				2.4	4.7	33	17	1.9	0.6	200	3200	20	D3
D4	S		Z16,F16				1.2	4.8	37	4	1.3	0.6	200	3200	20	D4
C1	S		K15				1.2	5.8	7	3	6.9	6.9	200	800	6	C1
C2	S		K15				3.9	M	6	M	-1.6	-1.2	200	800	6	C2
C3	S		K14				7.6	M	10	M	-3.2	-2.4	200	800	6	C3
C4	S		K10				3.8	M	13	M	-4.6	-2.3	200	800	6	C4
C5	S		K20	Z20			2.6	7.5	7	3	1.0	M	200	800	6,10	C5
U56	U		Z	F			1.6	6.0	22	5	2.1	2.3	200	3200	NONE	U56
U57	U		Z	F			1.3	3.4	9	4	5.9	0.7	400	3200	NONE	U57
U58	U		Z	F			2.9	6.9	8	6	1.7	0.6	400	3200	NONE	U58
U59	U		F	Z			1.8	3.9	15	8	1.3	0.1	800	12800	NONE	U59
U60	U		F	Z			1.2	5.7	14	6	4.1	1.5	800	12800	NONE	U60
U61	U		F15	Z			5.0	10.1	6	3	0.4	0.0	800	12800	NONE	U61
U62	U		F20	Z			5.2	9.2	6	6	-0.4	-0.5	800	12800	NONE	U62
U63	U		F25	Z			2.9	7.5	6	2	1.2	0.6	400	12800	NONE	U63
U64	U		F20	Z			1.4	5.3	5	2	6.7	5.5	400	7000	NONE	U64
U65	U		F	Z			2.7	6.7	15	7	0.5	0.1	400	12800	NONE	U65
U66	U		F	Z			1.3	3.9	31	9	2.6	1.7	400	7000	NONE	U66
U67	U		F	Z			2.1	5.3	11	5	0.2	0.4	400	7000	NONE	U67
U68	U		F	Z			2.1	6.0	13	4	1.4	0.5	400	12800	NONE	U68
U69	U		F	Z			2.6	5.8	9	5	0.6	0.1	400	12800	NONE	U69
U70	U		F	Z			4.6	8.7	8	5	0.1	0.0	400	12800	NONE	U70
U71	U		Z	F15			1.5	4.3	15	11	1.3	0.3	400	12800	NONE	U71
U72	U		Z	F20			1.9	6.2	20	5	2.1	1.1	400	7000	NONE	U72
U73	U		Z	F20			2.7	6.7	8	4	0.9	0.7	400	12800	NONE	U73
U74	U		Z	F			1.7	6.5	10	3	2.3	1.3	400	7000	NONE	U74
U75	U		Z	F			1.3	2.5	6	8	5.4	3.9	400	12800	NONE	U75
U76	U		Z	F			3.2	7.2	9	5	0.8	0.8	400	7000	NONE	U76
U77	U		Z	F			1.6	3.7	9	4	0.3	0.0	400	12800	NONE	U77
U78	U		Z	F			3.8	7.4	6	2	-0.5	-0.3	400	7000	NONE	U78
U79	U		Z	F			1.9	6.8	7	4	2.5	2.1	400	12800	NONE	U79
U80	U		Z	F			0.9	2.9	16	7	6.7	3.4	400	3200	NONE	U80
U81	U		Z	F			2.8	7.1	14	11	1.3	1.3	400	12800	NONE	U81
U82	U		Z	F			1.1	4.5	22	5	6.3	3.1	400	12800	NONE	U82
U83	U		Z	F			1.5	6.7	7	3	6.1	5.2	400	7000	NONE	U83
U84	U				Z		0.9	5.1	11	5	2.0	1.2	400	12800	NONE	U84
U85	U			F	Z		3.0	8.3	13	6	-0.4	1.3	400	12800	NONE	U85
U86	U			F	Z		0.8	5.0	11	5	5.4	2.3	400	12800	NONE	U86
U87	U				Z26		1.0	3.6	30	17	5.4	1.7	400	12800	1	U87
U88	U			F16	Z		1.3	7.6	11	3	2.0	4.2	400	12800	1	U88
U89	U			F	Z		0.9	3.1	26	14	5.9	1.0	400	12800	1	U89
U90	U			F4	Z		0.9	4.3	13	6	6.6	0.5	400	12800	1	U90
U91	U			F	Z		0.9	3.8	12	10	2.8	1.2	400	12800	1	U91
U92	U			F	Z		0.9	4.8	8	4	3.4	1.1	400	12800	1	U92
V1	U		ZR				3.5	6.1	14	8	-3.4	-1.6	200	3200	20	V1
V2	U		ZPK				2.8	4.9	12	11	-1.0	-1.0	200	3200	20	V2
V3	U		ZR				2.5	4.3	10	8	-2.1	-1.4	200	3200	20	V3
V4	U		Z29,R31				1.8	2.9	11	5	-0.2	-1.2	200	3200	17	V4
V5	U		ZRK				1.2	7.4	14	3	4.9	3.3	200	3200	20	V5
V6	U		ZRK				2.9	8.8	6	4	1.7	2.1	200	3200	20	V6
V7	U		ZK				3.2	4.6	20	19	-4.1	-2.0	200	3200	20	V7
V8	U		Z10				1.8	3.4	9	4	-0.9	-0.7	200	3200	20	V8

<sup>1</sup>Z, F, R AND K INDICATE ZINC SULFIDE, FLUORESCIN, RHODAMINE B AND KRYPTON-85 RESPECTIVELY.

<sup>2</sup>NUMBER FOLLOWING TRACER TYPE INDICATES DURATION OF RELEASE IN MINUTES. IF NO TIME IS INDICATED, DURATION IS 30 MINUTES.

<sup>3</sup>BECKMAN & WHITLEY VANE.

<sup>4</sup>AEROVANE.

TABLE 3. FREQUENCY OF TRACER RELEASE AND SAMPLING AT 1.5-M ELEVATION.

RELEASE		NO. TIMES GROUND-LEVEL SAMPLING ON ARC AT RADIAL DISTANCE (METERS) OF													
HT.	NO.	200	300	400	500	600	700	800	1200	1600	2200	3200	5000	7000	12800
2M	28	15	1	10	1	3	3	26	14	22	11	22	11	11	8
26M	46	19	1	35	1	3	3	46	40	46	29	40	24	24	17
56M	20	-	-	20	-	-	-	20	13	20	11	20	19	19	14
111M	9	-	-	9	-	-	-	9	-	9	-	9	9	9	9
TOTAL	103	34	2	74	2	6	6	103	67	97	51	91	63	63	48
*CONTAINED-		56%	100%	62%	0%	50%	67%	71%	78%	70%	78%	75%	56%	51%	54%
*TO PEAK-		94%	100%	84%	100%	100%	100%	91%	100%	96%	96%	98%	90%	98%	85%
*FAILURE-		6%	0%	16%	0%	0%	0%	9%	0%	4%	4%	2%	10%	2%	15%

\*CONTAINED - ENTIRE TRACER DISTRIBUTION WITHIN SAMPLING ARC  
 \*TO PEAK - CONTAINED, OR TRUNCATED ONLY ON "TAIL" OF DISTRIBUTION  
 \*FAILURE - TRUNCATION EXCLUDED PEAK CONCENTRATION, OR NO TRACER OBSERVED, OR SAMPLER/ASSAY FAILURE

TABLE 4. FREQUENCY OF TRACER RELEASE AND TOWER SAMPLING.

RELEASE HEIGHT	NO. OF RELEASES	NO. TIMES VERTICAL SAMPLING ON ARC AT RADIAL DISTANCE OF				
		200M	800M	1600M	3200M	
2M	28	14	14	8	3	BASED ON NUMBER OF ARCS ACTIVATED FOR SAMPLING
26M	46	18	18	14	14	
56M	20	-	-	-	5	
111M	9	-	-	-	6	
TOTAL	103	32	32	22	33	
*CONTAINED-		2%	3%	12%	9%	BASED ON NUMBER OF TOWERS ACTIVATED FOR SAMPLING
*TO PEAK-		80%	69%	66%	63%	
*FAILURE-		20%	31%	34%	37%	

\*CONTAINED - ENTIRE TRACER DISTRIBUTION WITHIN SAMPLING HEIGHT  
 \*TO PEAK - CONTAINED, OR TRUNCATED ONLY ON "TAIL" OF DISTRIBUTION  
 \*FAILURE - TRUNCATION EXCLUDED PEAK CONCENTRATION, OR NO TRACER OBSERVED, OR SAMPLER/ASSAY FAILURE

TABLE 5A. LOCATION AND QUALITY OF SAMPLING FOR THE 28 SURFACE RELEASES OF THE 67-SERIES.

TEST	T R A C E R	SAMPLING ARC AT DISTANCE (M)										TOWER SAMPLING AT INDICATED DISTANCE AND DIRECTION (DEG)																T R A C E R TEST				
												200 M				800 M				1600 M				3200 M								
		1	2	3	4	5	6	7	8	9	10	0	1	2	3	0	1	2	3	0	1	2	3	0	1	2	3					
D1	Z	C					C	C	C		T	T	T	T	T	T	T	T	C	T	C	C	C	T	T	T	T	Z	D1			
D1	F	C					C	C	C		T	T	T	T	T	T	T	T	C	T	T	C	C	T	T	T	T	F	D1			
D2	Z	C					C	C	C		C	C	C	T	T	C	C	C	C	C	C	V	C	C	C	V	V	Z	D2			
D2	F	C					C	C	C		T	C	T	V	N	C	C	C	V	N	C	C	C	V	N	C	C	C	N	N	F	D3
D3	Z	C					C	C	C		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	Z	D3			
D3	F	C					C	C	C		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	F	D3			
D4	Z	T					P	T	T		T	T	C	C	C	T	T	T	T	V	T	T	T	T	V	T	V	V	V	Z	D4	
D4	F	T					T	T	T		T	T	N	N	N	T	V	N	N	N	T	P	N	N	N	T	V	N	N	N	F	D4
C1	K	C					C				C	T	N	C	T	N														K	C1	
C2	K	C					C				N	T	T	N	N	T														K	C2	
C3	K	T					P				T	T	T	N	T	T														K	C3	
C4	K	T					T				N	T	T	N	T	T														K	C4	
C5	K	C					C				T	T	P	C	T	N														K	C5	
C5	Z	C					C				C	C	C	C	C	C	T	T	T	N									Z	C5		
U56	Z	C	C	V	V	V	V	V	V	V																						
U57	Z		C		C	C	C	C	C	V																						
U58	Z		C		C	C		C	C	C																						
U59	F						V	V	C	V	C	P	C	C																		
U60	F						T	V	V	V	T	V	P	P																		
U61	F						C	C	C	C	C	V	C	C																		
U62	F						C	C	C	C	C	C	C	C																		
U63	F		C				C	C	C	P	C	C	C	C																		
U64	F		C				C	C	C	C	C	C	C	C																		
U65	F		V				C	C	C	C	C	T	T	P																		
U66	F		V				T	T	T	T	C	P	T																			
U67	F		C				C	C	C	C	C	P	P																			
U68	F		C				C	C	C	C	C	T	V																			
U70	F		C				C	C	C	C	C	V	C																			

C INDICATES HORIZONTAL (OR VERTICAL) DISTRIBUTION COMPLETELY EMBRACED BY SAMPLERS, OR SO NEARLY EMBRACED THAT EXTRAPOLATION WAS DONE WITH CONFIDENCE.

T INDICATES MAXIMUM VALUE EMBRACED, BUT TAIL(S) OF DISTRIBUTION NOT COMPLETELY EMBRACED.

P INDICATES THAT ALTHOUGH TRACER DETECTED, PEAK VALUE WAS NOT EMBRACED BY SAMPLERS.

N INDICATES SAMPLING ARC (OR TOWER) OPERATED, BUT NO TRACER OBSERVED.

V INDICATES SIGNIFICANT DOUBT ON VALIDITY OF DATA. (FOR EXAMPLE, SAMPLING/ASSAY PROBLEMS, OR MAXIMUM MEASURED CONCENTRATIONS NEAR FIELD BACKGROUND VALUES.)

TABLE 5B. LOCATION AND QUALITY OF SAMPLING FOR 46 RELEASES FROM ELEVATION OF 26 METERS DURING THE 67-SERIES.

		SAMPLING ARC AT DISTANCE (M)										SAMPLING ARC AT DISTANCE (M)																		
T		-----										-----																		
R																														
A																														
C																														
E																														
TEST	R	2	3	4	5	6	7	8	2	6	2	2	0	0	8	TEST	R	4	8	2	6	2	2	0	0	0	0	0	0	0
-----		-----										-----																		
U56	F	V	C	C	T	T	T	T	V	P					U71	Z	C	C	C	C	C	T	T	V						
U57	F			V	V	C	C	C	C	P				U72	Z	C	C	C	C	C	C	C	C	C						
U58	F			C	C	C	C	C	C	C				U73	Z	C	C	C	C	C	C	C	C	C						
U59	Z							C	C	C	C	P	C	C																
U60	Z							T	V	V	V	C	V	T	V															
U61	Z							C	C	C	C	C	V	C	C	U76	Z	C	C	C	C	C	P	P						
U62	Z							C	C	C	C	C	C	C	C	U77	Z	C	C	T	C	T	T	T	V					
U63	Z			C				C	C	C	P	C	C	C	C	U78	Z	C	C	C	C	C	C	C	C					
U64	Z			C				C	C	C	C	C	C	C	C	U79	Z	C	C	C	C	C	C	C	C					
U65	Z			V				C	C	C	C	C	T	T	P	U80	Z	T	T	T	T	T	C							
U66	Z			V				T	T	T	T	C	P	V		U81	Z	C	C	C	C	C	V	V	V					
U67	Z			V				C	C	C	C	C	P	T		U82	Z	C	C	C	C	C	C	V	V					
U68	Z			C				C	C	C	C	C	T	V		U83	Z	C	C	C	C	C	C	C	C					
U69	Z			C				C	C	C	C	C	T	V																
U70	Z			C				C	C	C	C	C	T	C																

		SAMPLING ARC AT DISTANCE (M)				TOWER SAMPLING AT INDICATED DISTANCE AND DIRECTION (DEG)																						
T		-----				200 M				800 M				1600 M				3200 M										
R																												
A																												
C																												
E																												
TEST	R	2	4	8	2	6	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-----		-----				-----				-----				-----														
V1	Z	C	C	C	C	C	C	C	T	T	T	T	T	T	T	T	T	C	T	T	T	T	N	T	T	T	N	
V1	R	C	C	C	C	V	V	V	T	T	T	T	V	T	T	T	V	N	N	V	V	V	N	N	V	V	N	
V2	Z	C	C	C	C	C	C	C	N	T	T	T	T	N	P	T	T	T	N	N	T	T	T	N	N	N	T	T
V2	R	C	C	C	C	C	C	C	N	T	T	T	T	N	V	T	T	T	N	N	V	T	T	N	N	N	P	T
V2	K	T		P		P			N	T	P	P	T	N	N	T	T	T										
V3	Z	T	T	T	T	T	T	C	N	N	T	T	T	N	N	N	P	T	N	N	N	V	T	N	N	N	N	T
V3	R	T	T	T	T	T	T	C	N	N	T	T	T	N	N	N	V	T	N	N	N	V	V	N	N	N	N	V
V4	Z	C		C		C			N	N	T	T	T	N	N	T	T	T	N	N	T	T	T				V	V
V4	R	V		C		C			N	N	T	T	T	N	N	V	T	T	N	N	V	T	T				V	V
V5	Z	C	C	C	C	C		C	T	T	T	T	N	T	T	V	N	N	C	T	T	N	N	C	C	T	T	N
V5	R	C	C	C	C	C		C	T	T	T	N	N	T	T	V	N	N	C	C	V	N	N	V	C	T	N	N
V5	K	T		T		P			T	P	P	N	N	T	T	T	N	N										
V6	Z	C	C	C	C	C		C	N	T	T	T	N	N	T	T	T	N	N	C	C	T	N	N	N	C	T	N
V6	R	C		C	C	C		C	N	T	T	T	N	N	T	T	C	N	N	V	C	C	N	N	N	C	C	N
V6	K	C		C		C			N	T	T	P	N	N	T	T	T	N										
V7	Z	C	C	C	C	C		C	T	T	T	T	T	T	T	T	T	T	N	T	T	T	T	N	N	T	T	T
V7	K	T							T	T	T	T	T															
V8	Z	C	C	C	C	C		C	N	V	V	T	T	N	N	V	T	T	N	N	N	C	T	N	N	N	N	T

TABLE 5C. LOCATION AND QUALITY OF SAMPLING FOR 20 RELEASES FROM ELEVATION OF 56 METERS DURING THE 67-SERIES.

TEST	T R A C E R	SAMPLING ARC AT DISTANCE (M)							TOWER AT 115.6 DEG DN 3200 M ARC	
		1	1	2	3	5	7	2		
		4	8	2	6	2	2	0	0	8
		0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0
U71	F	C	C	C	C	C	C	T	T	T
U72	F	C	C	C	C	C	C	C	C	C
U73	F	C	C	C	C	C	C	C	C	C
U74	F	N	C	C	C	C	C	C	C	C
U75	F	C	C	C	C	C	C	T	T	T
U76	F	C	C	C	C	C	C	P	C	C
U77	F	C	C	T	T	T	T	T	V	V
U78	F	C	C	C	C	C	C	C	C	C
U79	F	C	C	C	C	C	C	C	C	C
U80	F	C	C	C	C	C	C	C	C	C
U81	F	C	C	C	C	C	C	C	C	C
U82	F	N	C	C	C	C	C	C	C	C
U83	F	C	C	C	C	C	C	C	C	C
U85	F	C	C	C	C	C	C	C	C	C
U86	F	C	C	T	C	C	C	C	C	C
U88	F	V	V	C	C	C	C	C	C	C
U89	F	V	C	C	T	T	C	N	N	N
U90	F	V	V	V	V	V	V	V	V	V
U91	F	C	C	C	T	T	T	T	T	T
U92	F	V	V	C	C	C	C	T	T	T

TABLE 5D. LOCATION AND QUALITY OF SAMPLING FOR 9 RELEASES FROM ELEVATION OF 111 METERS DURING 67-SERIES.

TEST	T R A C E R	SAMPLING ARC AT DISTANCE (M)							TOWER AT 115.6 DEG DN 3200 M ARC
		1	1	3	5	7	2	2	
		4	8	6	2	0	0	0	8
		0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0
U84	Z	N	N	C	C	C	C	T	T
U85	Z	N	C	C	C	C	C	C	C
U86	Z	N	N	C	C	C	C	C	C
U87	Z	C	T	T	T	T	T	V	V
U88	Z	N	N	N	V	V	V	V	V
U89	Z	N	N	C	C	V	C	N	N
U90	Z	N	N	C	C	T	V	N	N
U91	Z	N	C	T	T	V	V	V	V
U92	Z	N	N	N	C	C	C	C	C

C INDICATES HORIZONTAL (OR VERTICAL) DISTRIBUTION COMPLETELY EMBRACED BY SAMPLERS, OR SO NEARLY SO THAT EXTRAPOLATION WAS DONE WITH CONFIDENCE.

T INDICATES MAXIMUM VALUE EMBRACED, BUT TAILS OF DISTRIBUTION NOT COMPLETELY EMBRACED.

P INDICATES THAT ALTHOUGH TRACER DETECTED, PEAK VALUE WAS NOT EMBRACED BY SAMPLERS.

N INDICATES SAMPLING ARC (OR TOWER) OPERATED, BUT NO TRACER OBSERVED.

V INDICATES SIGNIFICANT DOUBT ON VALIDITY OF DATA.

APPENDIX A

DIFFUSION DATA

MEANING OF REMARK SYMBOLS WHICH MAY  
PRECEDE AZIMUTH COLUMN IN APPENDIX A TABLES

<u>Symbol</u>	<u>Significance</u>
E	ESTIMATED values.
H	DOA (dead on arrival), HOT. At time of filter pick-up, vacuum supply to filter was found to have failed due to dead engine. Engine hot, however, indicating vacuum missing only a short time and hence likely a valid sample.
W	DOA, WARM. Same as H, except engine only warm to touch. Possibly valid sample, but more doubt than with H.
C	DOA, COLD. Same as H, except engine cold to touch, and no fuel in tank. Sampling occurred as long as fuel lasted, but ended considerably before filter pickup.
P	DOA, cold, PARTIAL tank of gasoline. Same as C except sampling was likely of shorter duration since engine failed before burning all the fuel.
X	DOA, cold, full tank. Engine failed shortly after starting. Sample is essentially due to impaction on filter rather than to flow through filter.
Q	DOA, other. Engine DOA, but no other field note given.
I	IMPACTION sample. Engine for vacuum supply was never started. Sample is due to impaction on filter rather than flow through filter.



<u>Symbol</u>	<u>Significance</u>
L	Filter LOST or, in the case of krypton, Geiger-Müller tube not operating.
M	Filter was MISSING from holder assembly. The supporting crepe paper roll was often assayed in the case of the ZnS tracer, but it is a much less efficient sampler than the membrane filter.
D	Filter assembly DROPPED. Effect unknown.
S	Filter SLIGHTLY cracked. Effect likely minimal.
T	Filter TORN badly. Effect likely significant.
F	Apparent FINGERPRINT on filter. Time of placement and effect, if any, unknown.
R	For Rankin counting of ZnS, a RECOUNT of a filter with an unexpected mass assessment, but with essentially unchanged mass indicated on the repeat assessment.
G	GEIGER-MULLER tube noisy or questionable.
V	Low VOLTAGE on Geiger-Müller tube. Likely low exposures indicated.
B	Tracer likely extends BEYOND this last active sampler. (The symbol was not always appended to top vertical samplers even though tracer obviously extended higher.)
N	Samplers operated, but NO tracer observed on the arc (tower). Possibly no tracer passed samplers or possibly concentration below detection limit.

<u>Symbol</u>	<u>Significance</u>
Z	Any other field or assessment remark. (A check of field notes or laboratory assay notes would be needed to elaborate on each Z remark.)
1	Visible dust on filter, but of minimal concern.*
2	
3	
4	
5	Increasing
6	significance
7	of
8	visible
9	dust on
0	filters.*

\*The numerical remark symbols are a qualitative ranking of visible dust on field filters. Larger numbers indicate darker filters -- except "0" indicates the most severe loading. ZnS assay is degraded most severely by dust, although a nomenclature of less than 5 can be considered of minimal importance. See text under "Zinc Sulfide Fluorescent Particulate 2210" and "The Appendix A Diffusion Data" for further detail.

GROUND-LEVEL AND TOWER SAMPLING 200M TO 3200M. INVERSION OF 3F DEG (1M TO 15M) AT 0445; ISOTHERMAL AT 0515. ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER DISTRIBUTION--EXCEPT MINDR EXTRAPULATION AT NORTH END OF 200M ARC. VERTICAL DISTRIBUTIONS OF TRACER ON ALL 20 TOWERS; PEAK VALUES MEASURED, BUT TRUNCATED AT TOP IN ALL CASES.

TEST D1 JULY 7, 1967 0445 TO 0515 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
200M ARC SAMPLER HT 1.5M U= 1.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
E 58.0	23	2.074E-08	2.488E-08	200
E 60.0	57	5.036E-08	6.043E-08	200
E 62.0	171	1.511E-07	1.813E-07	200
E 64.0	481	4.236E-07	5.083E-07	200
E 66.0	1346	1.185E-06	1.422E-06	200
B 68.0	5919	5.211E-06	6.253E-06	200
70.0	8604	7.575E-06	9.090E-06	200
72.0	17469	1.538E-05	1.845E-05	200
74.0	25559	2.250E-05	2.700E-05	200
76.0	45841	4.035E-05	4.842E-05	200
78.0	64761	5.701E-05	6.841E-05	200
80.0	97082	7.666E-05	9.159E-05	200
82.0	111834	9.845E-05	1.181E-04	200
84.0	118312	1.041E-04	1.250E-04	200
86.0	129653	1.141E-04	1.370E-04	200
88.0	175942	1.549E-04	1.859E-04	200
90.0	163676	1.441E-04	1.729E-04	200
92.0	199980	1.760E-04	2.112E-04	200
94.0	198570	1.748E-04	2.098E-04	200
96.0	232909	2.050E-04	2.460E-04	200
98.0	315008	2.773E-04	3.328E-04	200
100.0	278189	2.449E-04	2.939E-04	200
102.0	310222	2.731E-04	3.277E-04	200
104.0	216278	1.904E-04	2.285E-04	200
106.0	206583	1.819E-04	2.182E-04	200
108.0	205923	1.813E-04	2.175E-04	200
110.0	192307	1.693E-04	2.031E-04	200
112.0	123306	1.085E-04	1.303E-04	200
114.0	80900	7.122E-05	8.546E-05	200
116.0	61197	5.387E-05	6.464E-05	200
118.0	81382	7.164E-05	8.597E-05	200
120.0	65575	5.772E-05	6.927E-05	200
122.0	70825	6.235E-05	7.482E-05	200
124.0	60995	5.369E-05	6.443E-05	200
126.0	53679	4.725E-05	5.670E-05	200
128.0	18451	1.624E-05	1.949E-05	200
130.0	4122	3.629E-06	4.355E-06	200
132.0	2126	1.872E-06	2.247E-06	200
134.0	3294	2.900E-06	3.480E-06	200
136.0	1453	1.280E-06	1.536E-06	200
138.0	4586	4.038E-06	4.845E-06	200
140.0	2887	2.542E-06	3.050E-06	200
142.0	1436	1.265E-06	1.518E-06	200
144.0	296	2.607E-07	3.128E-07	200
146.0	124	1.096E-07	1.315E-07	200
148.0	3	2.962E-09	3.555E-09	200
150.0	60	5.332E-08	6.399E-08	200
152.0	43	3.851E-08	4.621E-08	200
154.0	10	8.887E-09	1.066E-08	200
156.0	0	0.	0.	200

CROSSWIND INTEGRATED= 2.427E-02 SEC/SQ.M 2.913E-02 1/M

TEST D1 JULY 7, 1967 0445 TO 0515 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 2M  
200M ARC SAMPLER HT 1.5M U= 1.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
F 54.0	33	2.933E-08	3.520E-08	200
E 60.0	76	6.714E-08	8.057E-08	200
E 62.0	235	2.073E-07	2.488E-07	200
E 64.0	635	5.593E-07	6.712E-07	200
E 66.0	1694	1.492E-06	1.790E-06	200
68.0	5989	5.272E-06	6.327E-06	200
70.0	11958	1.053E-05	1.263E-05	200
72.0	19063	1.678E-05	2.014E-05	200
74.0	28413	2.501E-05	3.001E-05	200
76.0	57208	5.036E-05	6.043E-05	200
78.0	80769	7.110E-05	8.532E-05	200
80.0	96476	8.493E-05	1.019E-04	200
82.0	160747	1.415E-04	1.698E-04	200
84.0	145118	1.277E-04	1.533E-04	200
86.0	140653	1.238E-04	1.486E-04	200
88.0	198704	1.749E-04	2.099E-04	200
90.0	223264	1.965E-04	2.358E-04	200
92.0	245591	2.162E-04	2.594E-04	200
94.0	290245	2.555E-04	3.066E-04	200
96.0	401482	3.538E-04	4.245E-04	200
98.0	502355	4.422E-04	5.307E-04	200
100.0	346064	3.046E-04	3.656E-04	200
102.0	390718	3.437E-04	4.127E-04	200
104.0	323736	2.850E-04	3.420E-04	200
106.0	251173	2.211E-04	2.653E-04	200
108.0	291362	2.565E-04	3.078E-04	200
110.0	267918	2.358E-04	2.830E-04	200
112.0	197587	1.739E-04	2.087E-04	200
Z 114.0	111627	9.826E-05	1.179E-04	200
Z 116.0	87067	7.664E-05	9.197E-05	200
Z 118.0	116093	1.022E-04	1.226E-04	200
Z 120.0	91533	8.057E-05	9.669E-05	200
122.0	82602	7.271E-05	8.726E-05	200
124.0	91988	8.098E-05	9.717E-05	200
126.0	93110	8.195E-05	9.836E-05	200
128.0	33648	2.962E-05	3.554E-05	200
130.0	5778	5.263E-06	6.315E-06	200
132.0	4423	3.894E-06	4.672E-06	200
134.0	2790	2.456E-06	2.940E-06	200
136.0	835	7.355E-07	8.824E-07	200
138.0	779	6.864E-07	8.237E-07	200
140.0	346	3.051E-07	3.661E-07	200
142.0	68	6.063E-08	7.275E-08	200
144.0	161	1.421E-07	1.705E-07	200
146.0	38	3.422E-08	4.107E-08	200
148.0	33	2.933E-08	3.520E-08	200
150.0	16	1.467E-08	1.760E-08	200
152.0	12	1.141E-08	1.369E-08	200
154.0	7	6.519E-09	7.823E-09	200
156.0	8	7.171E-09	8.605E-09	200
158.0	0	0.	0.	200

CROSSWIND INTEGRATED= 3.320E-02 SEC/SQ.M 3.984E-02 1/M

TEST D1 JULY 7, 1967 0445 TO 0515 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
200M ARC SAMPLER HT 1.5M U= 1.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
74.0	0	0.	0.	800
76.0	26	2.292E-08	2.751E-08	800
78.0	58	5.158E-08	6.190E-08	800
80.0	48	4.298E-08	5.158E-08	800
82.0	107	9.456E-08	1.135E-07	800
84.0	367	3.238E-07	3.886E-07	800
86.0	651	5.731E-07	6.877E-07	800
88.0	1490	1.312E-06	1.575E-06	800
90.0	4023	3.542E-06	4.250E-06	800
92.0	5267	4.636E-06	5.564E-06	800

TEST D1 JULY 7, 1967 0445 TO 0515 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 2M  
200M ARC SAMPLER HT 1.5M U= 1.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
76.0	0	0.	0.	800
78.0	109	9.601E-08	1.152E-07	800
80.0	35	3.169E-08	3.802E-08	800
82.0	137	1.212E-07	1.455E-07	800
84.0	270	2.379E-07	2.855E-07	800
86.0	721	6.352E-07	7.622E-07	800
88.0	1745	1.537E-06	1.844E-06	800
90.0	2677	2.357E-06	2.828E-06	800
92.0	3859	3.397E-06	4.077E-06	800

94.0	11771	1.036E-05	1.243E-05	800
96.0	24828	2.186E-05	2.623E-05	800
98.0	47087	4.145E-05	4.974E-05	800
100.0	62667	5.516E-05	6.620E-05	800
102.0	92977	8.185E-05	9.822E-05	800
104.0	107443	9.458E-05	1.135E-04	800
106.0	85962	7.567E-05	9.081E-05	800
108.0	78732	6.931E-05	8.317E-05	800
110.0	49789	4.383E-05	5.259E-05	800
112.0	29750	2.619E-05	3.143E-05	800
114.0	16644	1.465E-05	1.758E-05	800
116.0	11998	1.056E-05	1.267E-05	800
118.0	6025	5.304E-06	6.365E-06	800
120.0	5039	4.436E-06	5.323E-06	800
W 122.0	4117	3.625E-06	4.350E-06	800
W 124.0	11074	9.749E-06	1.170E-05	800
W 126.0	12418	1.093E-05	1.312E-05	800
W 128.0	4710	4.146E-06	4.976E-06	800
W 130.0	403	3.553E-07	4.264E-07	800
132.0	1510	1.330E-06	1.596E-06	800
134.0	1403	1.235E-06	1.482E-06	800
136.0	1471	1.295E-06	1.554E-06	800
138.0	1057	9.313E-07	1.118E-06	800
140.0	683	6.018E-07	7.221E-07	800
142.0	377	3.324E-07	3.989E-07	800
144.0	279	2.464E-07	2.957E-07	800
146.0	19	1.719E-08	2.063E-08	800
148.0	0	0.	0.	800

CROSSWIND INTEGRATED= 1.677E-02 2.013E-02  
SEC/SQ.M 1/M

94.0	12401	1.092E-05	1.310E-05	800
96.0	25313	2.228E-05	2.674E-05	800
98.0	54253	4.776E-05	5.731E-05	800
100.0	71263	6.273E-05	7.528E-05	800
102.0	107979	9.505E-05	1.141E-04	800
104.0	112298	9.885E-05	1.186E-04	800
106.0	112298	9.885E-05	1.186E-04	800
108.0	71263	6.273E-05	7.528E-05	800
110.0	58304	5.132E-05	6.159E-05	800
112.0	25313	2.228E-05	2.674E-05	800
114.0	19525	1.719E-05	2.063E-05	800
116.0	11566	1.018E-05	1.222E-05	800
118.0	6393	5.628E-06	6.754E-06	800
120.0	5742	5.055E-06	6.066E-06	800
122.0	5308	4.673E-06	5.608E-06	800
124.0	14460	1.273E-05	1.528E-05	800
126.0	12652	1.114E-05	1.336E-05	800
128.0	4548	4.004E-06	4.805E-06	800
130.0	474	4.176E-07	5.011E-07	800
132.0	1423	1.253E-06	1.504E-06	800
134.0	1208	1.064E-06	1.277E-06	800
136.0	925	8.149E-07	9.778E-07	800
138.0	1137	1.001E-06	1.201E-06	800
140.0	764	6.730E-07	8.076E-07	800
142.0	366	3.230E-07	3.876E-07	800
144.0	220	1.937E-07	2.325E-07	800
146.0	23	2.034E-08	2.440E-08	800
148.0	22	1.939E-08	2.327E-08	800

CROSSWIND INTEGRATED= 1.836E-02 2.204E-02  
SEC/SQ.M 1/M

TEST D1 JULY 7, 1967 0445 TO 0515 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
1600M ARC SAMPLER HT 1.5M U= 1.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
82.0	0	0.	0.	1600
83.0	98	8.693E-08	1.043E-07	1600
84.0	25	2.268E-08	2.721E-08	1600
85.0	83	7.370E-08	8.844E-08	1600
86.0	83	7.370E-08	8.844E-08	1600
87.0	139	1.228E-07	1.474E-07	1600
88.0	124	1.096E-07	1.315E-07	1600
89.0	176	1.550E-07	1.860E-07	1600
90.0	85	7.559E-08	9.071E-08	1600
91.0	341	3.005E-07	3.606E-07	1600
92.0	435	3.836E-07	4.604E-07	1600
93.0	633	5.575E-07	6.690E-07	1600
E 94.0	880	7.748E-07	9.298E-07	1600
E 95.0	1180	1.039E-06	1.247E-06	1600
E 96.0	1524	1.342E-06	1.610E-06	1600
E 97.0	2146	1.890E-06	2.268E-06	1600
98.0	3518	3.097E-06	3.717E-06	1600
99.0	8404	7.399E-06	8.878E-06	1600
100.0	14510	1.277E-05	1.533E-05	1600
101.0	20946	1.844E-05	2.213E-05	1600
102.0	28039	2.468E-05	2.962E-05	1600
103.0	28816	2.537E-05	3.044E-05	1600
104.0	24578	2.164E-05	2.596E-05	1600
105.0	24325	2.141E-05	2.570E-05	1600
106.0	26279	2.313E-05	2.776E-05	1600
107.0	23659	2.083E-05	2.499E-05	1600
108.0	21586	1.900E-05	2.280E-05	1600
109.0	19097	1.681E-05	2.017E-05	1600
110.0	21272	1.873E-05	2.247E-05	1600
111.0	23563	2.074E-05	2.489E-05	1600
112.0	20242	1.782E-05	2.138E-05	1600
113.0	17547	1.545E-05	1.854E-05	1600
114.0	13089	1.152E-05	1.383E-05	1600
E 115.0	9725	8.561E-06	1.027E-05	1600
116.0	7797	6.864E-06	8.236E-06	1600
117.0	6633	5.839E-06	7.007E-06	1600
E 118.0	6011	5.291E-06	6.350E-06	1600
E 119.0	5367	4.724E-06	5.669E-06	1600
E 120.0	4937	4.347E-06	5.216E-06	1600
F 121.0	4508	3.969E-06	4.762E-06	1600
E 122.0	3756	3.307E-06	3.969E-06	1600
F 123.0	3097	2.727E-06	3.272E-06	1600
P 124.0	2155	1.897E-06	2.277E-06	1600
P 125.0	2908	2.561E-06	3.073E-06	1600
P 126.0	4622	4.069E-06	4.882E-06	1600
127.0	747	6.576E-07	7.892E-07	1600

TEST D1 JULY 7, 1967 0445 TO 0515 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 2M  
1600M ARC SAMPLER HT 1.5M U= 1.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
83.0	105	9.313E-08	1.118E-07	1600
84.0	70	6.194E-08	7.433E-08	1600
85.0	35	3.117E-08	3.740E-08	1600
86.0	70	6.194E-08	7.433E-08	1600
87.0	143	1.264E-07	1.517E-07	1500
88.0	209	1.763E-07	2.116E-07	1600
89.0	174	1.534E-07	1.841E-07	1600
90.0	245	2.158E-07	2.590E-07	1600
91.0	287	2.532E-07	3.039E-07	1600
92.0	280	2.470E-07	2.964E-07	1600
93.0	436	3.842E-07	4.611E-07	1500
C 94.0	500	4.404E-07	5.284E-07	1600
95.0	549	4.840E-07	5.804E-07	1600
96.0	2030	1.788E-06	2.145E-06	1600
E 97.0	2576	2.224E-06	2.669E-06	1600
98.0	3667	3.229E-06	3.874E-06	1600
99.0	39361	3.465E-05	4.158E-05	1500
100.0	61547	5.418E-05	6.502E-05	1600
101.0	21468	1.890E-05	2.268E-05	1600
102.0	24331	2.142E-05	2.570E-05	1600
103.0	25046	2.205E-05	2.646E-05	1600
104.0	22899	2.015E-05	2.419E-05	1500
105.0	23615	2.079E-05	2.495E-05	1600
106.0	19321	1.701E-05	2.041E-05	1600
107.0	19321	1.701E-05	2.041E-05	1600
108.0	18605	1.638E-05	1.965E-05	1600
109.0	17164	1.071E-05	1.285E-05	1600
110.0	17889	1.575E-05	1.890E-05	1500
111.0	17412	1.533E-05	1.839E-05	1600
112.0	16696	1.470E-05	1.764E-05	1600
113.0	13357	1.176E-05	1.411E-05	1600
114.0	10562	9.298E-06	1.116E-05	1600
E 115.0	7437	6.547E-06	7.857E-06	1600
116.0	6544	5.761E-06	6.914E-06	1500
117.0	6842	6.023E-06	7.224E-06	1600
E 118.0	6693	5.892E-06	7.071E-06	1600
E 119.0	6098	5.368E-06	6.442E-06	1600
E 120.0	5651	4.975E-06	5.970E-06	1600
E 121.0	4907	4.320E-06	5.194E-06	1500
E 122.0	4312	3.796E-06	4.556E-06	1600
123.0	2642	2.326E-06	2.792E-06	1600
F 124.0	2824	2.886E-06	2.984E-06	1600
125.0	3022	2.661E-06	3.193E-06	1600
126.0	2028	1.786E-06	2.143E-06	1600
127.0	549	4.840E-07	5.808E-07	1600

128.0	809	7.125E-07	8.549E-07	1600
129.0	839	7.389E-07	8.867E-07	1600
130.0	772	6.803E-07	8.164E-07	1600
131.0	781	6.879E-07	8.255E-07	1600
132.0	712	6.274E-07	7.529E-07	1600
133.0	897	7.899E-07	9.479E-07	1600
134.0	605	5.329E-07	6.395E-07	1600
135.0	508	4.479E-07	5.375E-07	1600
136.0	556	4.895E-07	5.873E-07	1600
137.0	472	4.158E-07	4.989E-07	1600
138.0	435	3.836E-07	4.604E-07	1600
139.0	369	3.250E-07	3.901E-07	1600
140.0	401	3.534E-07	4.241E-07	1600
141.0	392	3.458E-07	4.150E-07	1600
142.0	468	4.120E-07	4.944E-07	1600
143.0	322	2.835E-07	3.402E-07	1600
144.0	317	2.797E-07	3.356E-07	1600
145.0	143	1.266E-07	1.519E-07	1600
146.0	8	7.559E-09	9.071E-09	1600
147.0	25	2.268E-08	2.721E-08	1600
148.0	17	1.512E-08	1.814E-08	1600
149.0	8	7.559E-09	9.071E-09	1600
150.0	8	7.559E-09	9.071E-09	1600
151.0	0	0.	0.	1600

128.0	1201	1.058E-06	1.270E-06	1600
129.0	1036	9.124E-07	1.095E-06	1600
130.0	729	6.421E-07	7.705E-07	1600
131.0	941	8.242E-07	9.750E-07	1600
132.0	592	5.215E-07	6.258E-07	1600
133.0	682	6.005E-07	7.206E-07	1600
134.0	500	4.404E-07	5.284E-07	1600
135.0	592	5.215E-07	6.258E-07	1600
136.0	578	5.090E-07	6.108E-07	1600
137.0	443	3.905E-07	4.686E-07	1600
138.0	507	4.466E-07	5.359E-07	1600
139.0	507	4.466E-07	5.359E-07	1600
140.0	507	4.466E-07	5.359E-07	1600
141.0	415	3.655E-07	4.386E-07	1600
142.0	393	3.468E-07	4.162E-07	1600
143.0	365	3.219E-07	3.862E-07	1600
144.0	223	1.971E-07	2.365E-07	1600
145.0	122	1.077E-07	1.292E-07	1600
146.0	105	9.313E-08	1.118E-07	1600
147.0	21	1.932E-08	2.316E-08	1600
148.0	13	1.162E-08	1.395E-08	1600
149.0	9	8.246E-09	9.956E-09	1600
150.0	4	3.930E-09	4.716E-09	1600

CROSSWIND INTEGRATED= 1.031E-02 1.238E-02  
SEC/SQ.M 1/M

CROSSWIND INTEGRATED= 1.094E-02 1.313E-02  
SEC/SQ.M 1/M

TEST D1 JULY 7, 1967 0445 TO 0515 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
3200M ARC SAMPLER HT 1.5M U= 1.2 M/SEC AT 2M

TEST D1 JULY 7, 1967 0445 TO 0515 PST  
FLUORESCHEIN RELEASE FROM ELEVATION OF 2M  
3200M ARC SAMPLER HT 1.5M U= 1.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
91.0	0	0.	0.	3200
92.0	3	2.642E-09	3.231E-09	3200
93.0	35	3.141E-08	3.769E-08	3200
94.0	50	4.487E-08	5.384E-08	3200
95.0	149	1.319E-07	1.583E-07	3200
96.0	348	3.069E-07	3.683E-07	3200
97.0	485	4.272E-07	5.126E-07	3200
M 98.0	1574	1.386E-06	1.664E-06	3200
M 99.0	4157	3.659E-06	4.391E-06	3200
M 100.0	5902	5.196E-06	6.235E-06	3200
101.0	7684	6.764E-06	8.117E-06	3200
102.0	6650	5.854E-06	7.025E-06	3200
103.0	5900	5.194E-06	6.233E-06	3200
104.0	4245	3.738E-06	4.485E-06	3200
105.0	3778	3.327E-06	3.992E-06	3200
106.0	2064	1.817E-06	2.181E-06	3200
107.0	3450	3.038E-06	3.645E-06	3200
108.0	2947	2.594E-06	3.113E-06	3200
109.0	2410	2.122E-06	2.547E-06	3200
110.0	2581	2.272E-06	2.727E-06	3200
111.0	2522	2.220E-06	2.664E-06	3200
112.0	2396	2.110E-06	2.532E-06	3200
M 113.0	2393	2.107E-06	2.528E-06	3200
M 114.0	2016	1.775E-06	2.130E-06	3200
M 115.0	1835	1.616E-06	1.939E-06	3200
116.0	1824	1.606E-06	1.928E-06	3200
117.0	2239	1.972E-06	2.366E-06	3200
118.0	1472	1.296E-06	1.555E-06	3200
119.0	1775	1.563E-06	1.876E-06	3200
120.0	1372	1.208E-06	1.449E-06	3200
M 121.0	1103	9.710E-07	1.165E-06	3200
M 122.0	900	7.924E-07	9.509E-07	3200
M 123.0	974	8.579E-07	1.029E-06	3200
124.0	675	5.950E-07	7.140E-07	3200
125.0	586	5.160E-07	6.192E-07	3200
126.0	422	3.715E-07	4.458E-07	3200
127.0	305	2.692E-07	3.231E-07	3200
128.0	198	1.750E-07	2.100E-07	3200
129.0	184	1.624E-07	1.949E-07	3200
130.0	161	1.418E-07	1.701E-07	3200
131.0	167	1.472E-07	1.766E-07	3200
132.0	137	1.211E-07	1.454E-07	3200
133.0	116	1.023E-07	1.228E-07	3200
134.0	95	8.435E-08	1.012E-07	3200
135.0	127	1.122E-07	1.346E-07	3200
136.0	107	9.422E-08	1.131E-07	3200
137.0	73	6.461E-08	7.753E-08	3200
138.0	68	6.012E-08	7.215E-08	3200
139.0	54	4.756E-08	5.707E-08	3200

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
92.0	10	9.253E-09	1.110E-08	3200
93.0	25	2.251E-08	2.701E-08	3200
94.0	69	6.154E-08	7.394E-08	3200
95.0	142	1.255E-07	1.506E-07	3200
96.0	324	2.930E-07	3.480E-07	3200
97.0	489	4.311E-07	5.173E-07	3200
98.0	1478	1.302E-06	1.562E-06	3200
99.0	4036	3.553E-06	4.264E-06	3200
100.0	5651	4.975E-06	5.970E-06	3200
101.0	6952	6.120E-06	7.344E-06	3200
102.0	5853	5.153E-06	6.183E-06	3200
103.0	4843	4.264E-06	5.117E-06	3200
104.0	3767	3.316E-06	3.979E-06	3200
105.0	3565	3.138E-06	3.766E-06	3200
106.0	3497	3.079E-06	3.695E-06	3200
107.0	3228	2.842E-06	3.411E-06	3200
108.0	2959	2.605E-06	3.126E-06	3200
109.0	2959	2.605E-06	3.126E-06	3200
110.0	2488	2.190E-06	2.629E-06	3200
111.0	2151	1.894E-06	2.273E-06	3200
112.0	2353	2.072E-06	2.486E-06	3200
113.0	2017	1.776E-06	2.131E-06	3200
114.0	2084	1.835E-06	2.202E-06	3200
115.0	1591	1.401E-06	1.681E-06	3200
116.0	2353	2.072E-06	2.486E-06	3200
117.0	2421	2.131E-06	2.557E-06	3200
118.0	1658	1.460E-06	1.752E-06	3200
119.0	1635	1.440E-06	1.728E-06	3200
120.0	1568	1.381E-06	1.657E-06	3200
121.0	873	7.687E-07	9.224E-07	3200
122.0	917	8.072E-07	9.687E-07	3200
123.0	756	6.662E-07	7.994E-07	3200
124.0	479	4.217E-07	5.060E-07	3200
125.0	585	5.157E-07	6.189E-07	3200
126.0	329	2.900E-07	3.480E-07	3200
127.0	206	1.819E-07	2.183E-07	3200
128.0	171	1.509E-07	1.810E-07	3200
129.0	132	1.170E-07	1.404E-07	3200
130.0	116	1.029E-07	1.235E-07	3200
131.0	132	1.170E-07	1.404E-07	3200
132.0	107	9.445E-08	1.133E-07	3200
133.0	107	9.445E-08	1.133E-07	3200
134.0	53	4.743E-08	5.692E-08	3200
135.0	95	8.410E-08	1.009E-07	3200
136.0	70	6.248E-08	7.497E-08	3200
137.0	83	7.376E-08	8.851E-08	3200
138.0	41	3.615E-08	4.336E-08	3200
139.0	48	4.273E-08	5.127E-08	3200

140.0	50	4.487E-08	5.384E-08	3200
141.0	51	4.577E-08	5.492E-08	3200
142.0	47	4.218E-08	5.061E-08	3200
143.0	68	6.012E-08	7.215E-08	3200
144.0	58	5.115E-08	6.138E-08	3200
145.0	53	4.666E-08	5.600E-08	3200
146.0	31	2.782E-08	3.338E-08	3200
147.0	27	2.423E-08	2.907E-08	3200
148.0	35	3.141E-08	3.764E-08	3200
149.0	28	2.513E-08	3.015E-08	3200
150.0	24	2.154E-08	2.584E-08	3200
151.0	21	1.884E-08	2.261E-08	3200
152.0	18	1.615E-08	1.938E-08	3200
153.0	10	8.974E-09	1.077E-08	3200
154.0	18	1.615E-08	1.938E-08	3200
155.0	12	1.077E-08	1.292E-08	3200
156.0	10	8.974E-09	1.077E-08	3200
157.0	18	1.615E-08	1.938E-08	3200
158.0	0	0.	0.	3200
159.0	0	0.	0.	3200
160.0	4	3.589E-09	4.307E-09	3200
161.0	0	0.	0.	3200

CROSSWIND INTEGRATED= 3.998E-03 4.798E-03  
SEC/SQ.M 1/M

140.0	46	4.085E-08	4.902E-08	3200
141.0	30	2.674E-08	3.209E-08	3200
142.0	45	3.991E-08	4.789E-08	3200
143.0	34	3.050E-08	3.661E-08	3200
144.0	30	2.674E-08	3.209E-08	3200
145.0	23	2.054E-08	2.464E-08	3200
146.0	30	2.674E-08	3.209E-08	3200
147.0	19	1.687E-08	2.024E-08	3200
148.0	23	2.062E-08	2.498E-08	3200
149.0	16	1.433E-08	1.720E-08	3200
150.0	23	2.082E-08	2.498E-08	3200
151.0	14	1.292E-08	1.550E-08	3200
152.0	12	1.123E-08	1.347E-08	3200
153.0	11	1.010E-08	1.212E-08	3200
154.0	7	6.996E-09	8.395E-09	3200
155.0	5	4.833E-09	5.800E-09	3200
156.0	8	7.842E-09	9.411E-09	3200
157.0	7	6.432E-09	7.718E-09	3200
158.0	11	1.010E-08	1.212E-08	3200
159.0	3	3.235E-09	3.892E-09	3200
160.0	5	4.739E-09	5.637E-09	3200
161.0	5	5.115E-09	6.139E-09	3200

CROSSWIND INTEGRATED= 3.831E-03 4.597E-03  
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST 01 JULY 7, 1967 0445 TO 0515 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
200M ARC U= 1.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/O SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
98.0	.3	113506	9.992E-05	1.199E-04	200
98.0	.7	113213	9.966E-05	1.196E-04	200
98.0	1.4	122172	1.075E-04	1.291E-04	200
98.0	1.5	315008	2.773E-04	3.328E-04	200
98.0	2.7	328283	2.890E-04	3.468E-04	200
98.0	4.1	17323	1.525E-05	1.830E-05	200
98.0	5.4	12591	1.108E-05	1.330E-05	200
98.0	6.8	13584	1.196E-05	1.435E-05	200
98.0	8.1	18919	1.665E-05	1.998E-05	200
98.0	9.5	8680	7.641E-06	9.170E-06	200
98.0	10.8	13153	1.158E-05	1.389E-05	200
98.0	13.5	11216	9.874E-06	1.185E-05	200
98.0	16.2	7569	6.664E-06	7.996E-06	200
98.0	18.9	3879	3.415E-06	4.098E-06	200
98.0	21.6	2784	2.451E-06	2.941E-06	200
98.0	24.3	883	7.778E-07	9.334E-07	200
98.0	27.0	493	4.347E-07	5.216E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/O SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
106.0	.3	77209	6.797E-05	8.156E-05	200
106.0	.7	68183	6.002E-05	7.202E-05	200
106.0	1.4	58545	5.154E-05	6.184E-05	200
106.0	1.5	206583	1.819E-04	2.182E-04	200
106.0	2.7	193142	1.700E-04	2.040E-04	200
106.0	4.1	283526	2.496E-04	2.995E-04	200
106.0	5.4	333293	2.934E-04	3.521E-04	200
106.0	6.8	291189	2.563E-04	3.076E-04	200
106.0	8.1	373549	3.288E-04	3.946E-04	200
106.0	9.5	304365	2.679E-04	3.215E-04	200
106.0	10.8	416864	3.670E-04	4.404E-04	200
106.0	13.5	299851	2.640E-04	3.167E-04	200
106.0	16.2	196735	1.732E-04	2.078E-04	200
106.0	18.9	121602	1.070E-04	1.285E-04	200
106.0	21.6	63953	5.630E-05	6.756E-05	200
106.0	24.3	37555	3.306E-05	3.967E-05	200
106.0	27.0	21662	1.907E-05	2.288E-05	200

TOWER DATA FOLLOW....

TEST 01 JULY 7, 1967 0445 TO 0515 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 2M  
200M ARC U= 1.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/O SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
98.0	.3	142885	1.258E-04	1.509E-04	200
98.0	.7	142885	1.258E-04	1.509E-04	200
98.0	1.4	125023	1.101E-04	1.321E-04	200
98.0	1.5	502355	4.422E-04	5.307E-04	200
98.0	2.7	349785	3.079E-04	3.695E-04	200
98.0	4.1	5978	5.263E-06	6.315E-06	200
98.0	5.4	4578	4.031E-06	4.837E-06	200
98.0	6.8	8155	7.179E-06	8.615E-06	200
98.0	8.1	11188	9.849E-06	1.182E-05	200
98.0	9.5	2323	2.046E-06	2.455E-06	200
98.0	10.8	8855	7.795E-06	9.354E-06	200
98.0	13.5	2249	1.980E-06	2.377E-06	200
98.0	16.2	1731	1.524E-06	1.824E-06	200
98.0	18.9	1916	1.687E-06	2.024E-06	200
98.0	21.6	1398	1.231E-06	1.477E-06	200
98.0	24.3	183	1.617E-07	1.940E-07	200
98.0	27.0	257	2.269E-07	2.722E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/O SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
106.0	.3	78525	6.912E-05	8.295E-05	200
106.0	.7	97598	8.591E-05	1.031E-04	200
106.0	1.4	93110	8.196E-05	9.836E-05	200
106.0	1.5	251173	2.211E-04	2.653E-04	200
106.0	2.7	192005	1.690E-04	2.028E-04	200
106.0	4.1	334900	2.948E-04	3.538E-04	200
106.0	5.4	394440	3.472E-04	4.167E-04	200
106.0	6.8	275361	2.424E-04	2.909E-04	200
106.0	8.1	498634	4.389E-04	5.267E-04	200
106.0	9.5	290245	2.555E-04	3.066E-04	200
106.0	10.8	513518	4.520E-04	5.424E-04	200
106.0	13.5	334900	2.948E-04	3.538E-04	200
106.0	16.2	212100	1.867E-04	2.240E-04	200
106.0	18.9	138420	1.218E-04	1.452E-04	200
106.0	21.6	38136	3.357E-05	4.028E-05	200
106.0	24.3	44867	3.950E-05	4.740E-05	200
106.0	27.0	23925	2.106E-05	2.527E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
114.0	.3	22466	1.978E-05	2.373E-05	200	114.0	.3	31404	2.765E-05	3.317E-05	200
114.0	.7	27736	2.442E-05	2.930E-05	200	114.0	.7	29908	2.633E-05	3.159E-05	200
114.0	1.4	25794	2.271E-05	2.725E-05	200	114.0	1.4	31404	2.765E-05	3.317E-05	200
114.0	1.5	80900	7.122E-05	8.546E-05	200	114.0	1.5	111627	9.826E-05	1.174E-04	200
114.0	2.7	103169	9.082E-05	1.090E-04	200	114.0	2.7	230706	2.031E-04	2.437E-04	200
114.0	4.1	131732	1.160E-04	1.392E-04	200	114.0	4.1	120558	1.061E-04	1.274E-04	200
114.0	5.4	127040	1.118E-04	1.342E-04	200	114.0	5.4	100463	8.844E-05	1.061E-04	200
114.0	6.8	154089	1.356E-04	1.628E-04	200	114.0	6.8	167445	1.474E-04	1.769E-04	200
114.0	8.1	137268	1.208E-04	1.450E-04	200	114.0	8.1	156282	1.376E-04	1.651E-04	200
114.0	9.5	146602	1.291E-04	1.549E-04	200	114.0	9.5	156282	1.376E-04	1.651E-04	200
114.0	10.8	177116	1.559E-04	1.871E-04	200	114.0	10.8	223264	1.965E-04	2.358E-04	200
114.0	13.5	154824	1.363E-04	1.635E-04	200	114.0	13.5	171911	1.513E-04	1.816E-04	200
114.0	16.2	125010	1.100E-04	1.321E-04	200	114.0	16.2	147351	1.297E-04	1.557E-04	200
114.0	18.9	80025	7.044E-05	8.453E-05	200	114.0	18.9	89300	7.861E-05	9.433E-05	200
114.0	21.6	47989	4.224E-05	5.069E-05	200	114.0	21.6	35892	3.160E-05	3.791E-05	200
114.0	24.3	30444	2.680E-05	3.216E-05	200	114.0	24.3	33648	2.962E-05	3.554E-05	200
114.0	27.0	14779	1.301E-05	1.561E-05	200	114.0	27.0	18689	1.645E-05	1.974E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
122.0	.3	1130	9.954E-07	1.194E-06	200	122.0	.3	2160	1.902E-06	2.282E-06	200
122.0	.7	18619	1.639E-05	1.967E-05	200	122.0	.7	21307	1.876E-05	2.251E-05	200
122.0	1.4	22513	1.982E-05	2.378E-05	200	122.0	1.4	31404	2.765E-05	3.317E-05	200
122.0	1.5	70825	6.235E-05	7.482E-05	200	122.0	1.5	82602	7.271E-05	8.726E-05	200
122.0	2.7	75379	6.636E-05	7.963E-05	200	122.0	2.7	89300	7.861E-05	9.433E-05	200
122.0	4.1	73082	6.433E-05	7.720E-05	200	122.0	4.1	58042	5.109E-05	6.131E-05	200
122.0	5.4	80831	7.115E-05	8.539E-05	200	122.0	5.4	82602	7.271E-05	8.726E-05	200
122.0	6.8	70943	6.245E-05	7.494E-05	200	122.0	6.8	71438	6.289E-05	7.546E-05	200
122.0	8.1	65169	5.737E-05	6.884E-05	200	122.0	8.1	55809	4.913E-05	5.895E-05	200
122.0	9.5	62849	5.533E-05	6.639E-05	200	122.0	9.5	71438	6.289E-05	7.546E-05	200
122.0	10.8	60954	5.366E-05	6.439E-05	200	122.0	10.8	58042	5.109E-05	6.131E-05	200
122.0	13.5	65245	5.743E-05	6.892E-05	200	122.0	13.5	61019	5.371E-05	6.446E-05	200
122.0	16.2	57544	5.066E-05	6.079E-05	200	122.0	16.2	55809	4.913E-05	5.895E-05	200
122.0	18.9	60245	5.303E-05	6.364E-05	200	122.0	18.9	66228	5.830E-05	6.996E-05	200
122.0	21.6	52023	4.580E-05	5.495E-05	200	122.0	21.6	59530	5.240E-05	6.288E-05	200
122.0	24.3	32244	2.838E-05	3.406E-05	200	122.0	24.3	26917	2.369E-05	2.843E-05	200
122.0	27.0	22621	1.991E-05	2.390E-05	200	122.0	27.0	27665	2.435E-05	2.922E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
130.0	.3	1076	9.480E-07	1.138E-06	200	130.0	.3	3990	3.512E-06	4.215E-06	200
130.0	.7	1224	1.078E-06	1.294E-06	200	130.0	.7	3545	3.121E-06	3.745E-06	200
130.0	1.4	1039	9.154E-07	1.098E-06	200	130.0	1.4	3693	3.252E-06	3.902E-06	200
130.0	1.5	4122	3.629E-06	4.355E-06	200	130.0	1.5	5978	5.263E-06	6.315E-06	200
130.0	2.7	8490	7.474E-06	8.968E-06	200	130.0	2.7	9088	8.001E-06	9.601E-06	200
130.0	4.1	25255	2.223E-05	2.668E-05	200	130.0	4.1	25047	2.205E-05	2.646E-05	200
130.0	5.4	53614	4.720E-05	5.663E-05	200	130.0	5.4	55809	4.913E-05	5.895E-05	200
130.0	6.8	105341	9.273E-05	1.113E-04	200	130.0	6.8	80369	7.075E-05	8.490E-05	200
130.0	8.1	103234	9.088E-05	1.091E-04	200	130.0	8.1	116093	1.072E-04	1.226E-04	200
130.0	9.5	77083	6.786E-05	8.143E-05	200	130.0	9.5	55809	4.913E-05	5.895E-05	200
130.0	10.8	56666	4.988E-05	5.986E-05	200	130.0	10.8	71438	6.289E-05	7.546E-05	200
130.0	13.5	16347	1.439E-05	1.727E-05	200	130.0	13.5	15853	1.396E-05	1.675E-05	200
130.0	16.2	11872	1.045E-05	1.254E-05	200	130.0	16.2	13520	1.190E-05	1.428E-05	200
130.0	18.9	12000	1.056E-05	1.268E-05	200	130.0	18.9	11887	1.046E-05	1.256E-05	200
130.0	21.6	14451	1.272E-05	1.527E-05	200	130.0	21.6	15386	1.354E-05	1.625E-05	200
130.0	24.3	10645	9.371E-06	1.125E-05	200	130.0	24.3	10721	9.438E-06	1.133E-05	200
130.0	27.0	11857	1.044E-05	1.253E-05	200	130.0	27.0	14453	1.272E-05	1.527E-05	200

TOWER DATA FOLLOW....

TEST D1 JULY 7, 1967 0445 TO 0515 PST  
ZINC SULFIDE RELEASE FROM ELFVATION OF 2M  
800M ARC U= 1.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	.3	29070	2.559E-05	3.071E-05	800
98.0	.5	47787	4.207E-05	5.048E-05	800
98.0	1.1	52530	4.624E-05	5.549E-05	800
98.0	1.5	47087	4.145E-05	4.974E-05	800
98.0	2.1	49024	4.316E-05	5.179E-05	800
98.0	4.2	47507	4.182E-05	5.018E-05	800
98.0	6.3	42609	3.751E-05	4.501E-05	800
E 98.0	8.4	35541	3.129E-05	3.754E-05	800
98.0	10.5	22299	1.963E-05	2.356E-05	800
98.0	12.6	19832	1.746E-05	2.095E-05	800
98.0	14.7	15034	1.323E-05	1.588E-05	800
98.0	16.8	11563	1.018E-05	1.221E-05	800
98.0	21.0	7647	6.732E-06	8.078E-06	800
98.0	25.2	4552	4.007E-06	4.809E-06	800
98.0	29.4	2491	2.193E-06	2.632E-06	800
98.0	33.6	1516	1.335E-06	1.601E-06	800
98.0	37.8	1160	1.021E-06	1.225E-06	800
98.0	42.0	551	4.855E-07	5.826E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
106.0	.3	93281	8.211E-05	9.854E-05	800
106.0	.5	87615	7.713E-05	9.255E-05	800
106.0	1.1	100077	8.810E-05	1.057E-04	800
106.0	1.5	85962	7.567E-05	9.081E-05	800
106.0	2.1	113929	1.003E-04	1.203E-04	800
106.0	4.2	117282	1.032E-04	1.239E-04	800
106.0	6.3	95743	8.428E-05	1.011E-04	800
E 106.0	8.4	87069	7.665E-05	9.197E-05	800
106.0	10.5	82470	7.260E-05	8.712E-05	800
106.0	12.6	69780	6.143E-05	7.371E-05	800
106.0	14.7	53232	4.686E-05	5.623E-05	800
106.0	16.8	42233	3.718E-05	4.461E-05	800
106.0	21.0	22891	2.015E-05	2.418E-05	800
106.0	25.2	11594	1.021E-05	1.225E-05	800
106.0	29.4	6691	5.890E-06	7.068E-06	800
106.0	33.6	3799	3.344E-06	4.013E-06	800
106.0	37.8	1843	1.623E-06	1.947E-06	800
106.0	42.0	1313	1.156E-06	1.388E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
114.0	.3	14591	1.284E-05	1.541E-05	800
114.0	.5	13528	1.191E-05	1.429E-05	800
114.0	1.1	16917	1.489E-05	1.787E-05	800
114.0	2.1	17285	1.522E-05	1.826E-05	800
114.0	1.5	16644	1.465E-05	1.758E-05	800
114.0	4.2	19731	1.737E-05	2.084E-05	800
114.0	6.3	19592	1.725E-05	2.070E-05	800
114.0	8.4	27284	2.402E-05	2.882E-05	800
114.0	10.5	31826	2.802E-05	3.362E-05	800
114.0	12.6	29165	2.567E-05	3.081E-05	800
114.0	14.7	21291	1.874E-05	2.249E-05	800
114.0	16.8	18925	1.666E-05	1.999E-05	800
114.0	21.0	11297	9.945E-06	1.193E-05	800
114.0	25.2	9284	8.173E-06	9.807E-06	800
114.0	29.4	5717	5.033E-06	6.040E-06	800
114.0	33.6	4392	3.867E-06	4.640E-06	800
114.0	37.8	2021	1.780E-06	2.136E-06	800
114.0	42.0	927	8.161E-07	9.794E-07	800

TOWER DATA FOLLOW....

TEST D1 JULY 7, 1967 0445 TO 0515 PST  
FLUORESCIN RELEASE FROM ELFVATION OF 2M  
800M ARC U= 1.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	.3	11724	1.032E-05	1.239E-05	800
98.0	.5	112133	9.871E-05	1.185E-04	800
98.0	1.1	36889	3.247E-05	3.897E-05	800
98.0	1.5	54253	4.776E-05	5.731E-05	800
98.0	2.1	47742	4.203E-05	5.043E-05	800
98.0	4.2	39060	3.438E-05	4.126E-05	800
98.0	6.3	32548	2.865E-05	3.438E-05	800
E 98.0	8.4	27483	2.419E-05	2.903E-05	800
98.0	10.5	22419	1.974E-05	2.368E-05	800
98.0	12.6	17365	1.529E-05	1.834E-05	800
98.0	14.7	14432	1.270E-05	1.525E-05	800
98.0	16.8	11273	9.924E-06	1.191E-05	800
98.0	21.0	7888	6.944E-06	8.333E-06	800
98.0	25.2	4127	3.634E-06	4.360E-06	800
98.0	29.4	3071	2.703E-06	3.244E-06	800
98.0	33.6	1781	1.568E-06	1.882E-06	800
98.0	37.8	1172	1.032E-06	1.239E-06	800
98.0	42.0	678	5.973E-07	7.168E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
E 106.0	.3	97180	8.555E-05	1.027E-04	800
106.0	.5	97180	8.555E-05	1.027E-04	800
106.0	1.1	105819	9.315E-05	1.118E-04	800
106.0	1.5	112298	9.885E-05	1.186E-04	800
106.0	2.1	110138	9.695E-05	1.163E-04	800
106.0	4.2	88541	7.794E-05	9.353E-05	800
106.0	6.3	90700	7.984E-05	9.581E-05	800
F 106.0	8.4	90700	7.984E-05	9.581E-05	800
106.0	10.5	90700	7.984E-05	9.581E-05	800
106.0	12.6	82061	7.274E-05	8.669E-05	800
106.0	14.7	56424	4.967E-05	5.960E-05	800
106.0	16.8	48827	4.298E-05	5.158E-05	800
106.0	21.0	26760	2.356E-05	2.827E-05	800
106.0	25.2	13980	1.231E-05	1.477E-05	800
106.0	29.4	6985	6.150E-06	7.379E-06	800
106.0	33.6	4503	3.965E-06	4.758E-06	800
106.0	37.8	1457	1.263E-06	1.540E-06	800
106.0	42.0	1277	1.124E-06	1.349E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
114.0	.3	13078	1.151E-05	1.382E-05	800
114.0	.5	12852	1.131E-05	1.358E-05	800
114.0	1.1	14437	1.270E-05	1.525E-05	800
114.0	1.5	19525	1.719E-05	2.063E-05	800
114.0	2.1	14883	1.310E-05	1.572E-05	800
114.0	4.2	11498	1.012E-05	1.215E-05	800
114.0	6.3	12852	1.131E-05	1.358E-05	800
114.0	8.4	16688	1.449E-05	1.763E-05	800
114.0	10.5	24059	2.118E-05	2.542E-05	800
114.0	12.6	18945	1.668E-05	2.001E-05	800
114.0	14.7	17140	1.509E-05	1.811E-05	800
114.0	16.8	17816	1.568E-05	1.882E-05	800
114.0	21.0	10370	9.129E-06	1.095E-05	800
114.0	25.2	9468	8.335E-06	1.000E-05	800
114.0	29.4	6760	5.951E-06	7.141E-06	800
114.0	33.6	6008	5.289E-06	6.347E-06	800
114.0	37.8	2773	2.442E-06	2.930E-06	800
114.0	42.0	1209	1.065E-06	1.277E-06	800



AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
122.0	.3	2905	2.558E-06	3.069E-06	800	122.0	.3	2698	2.376E-06	2.851E-06	800
122.0	.5	3434	3.073E-06	3.628E-06	800	122.0	.5	4127	3.634E-06	4.360E-06	800
122.0	1.1	4303	3.788E-06	4.546E-06	800	122.0	1.1	4804	4.229E-06	5.075E-06	800
122.0	1.5	4117	3.625E-06	4.350E-06	800	122.0	1.5	5308	4.673E-06	5.608E-06	800
122.0	2.1	4555	4.010E-06	4.812E-06	800	122.0	2.1	5556	4.892E-06	5.870E-06	800
122.0	4.2	4862	4.281E-06	5.137E-06	800	122.0	4.2	4202	3.700E-06	4.440E-06	800
122.0	6.3	5786	5.094E-06	6.113E-06	800	122.0	6.3	5255	4.677E-06	5.552E-06	800
122.0	8.4	4164	3.666E-06	4.399E-06	800	122.0	8.4	6609	5.819E-06	6.982E-06	800
122.0	10.5	3128	2.754E-06	3.304E-06	800	122.0	10.5	3601	3.170E-06	3.804E-06	800
122.0	12.6	2469	2.174E-06	2.608E-06	800	122.0	12.6	2397	2.111E-06	2.533E-06	800
122.0	14.7	1461	1.297E-06	1.544E-06	800	122.0	14.7	1683	1.482E-06	1.778E-06	800
122.0	16.8	1961	1.727E-06	2.072E-06	800	122.0	16.8	1615	1.422E-06	1.707E-06	800
122.0	21.0	1396	1.229E-06	1.475E-06	800	122.0	21.0	1674	1.474E-06	1.769E-06	800
122.0	25.2	1320	1.162E-06	1.395E-06	800	122.0	25.2	1781	1.568E-06	1.882E-06	800
122.0	29.4	744	6.554E-07	7.865E-07	800	122.0	29.4	925	8.149E-07	9.778E-07	800
122.0	33.6	926	8.160E-07	9.792E-07	800	122.0	33.6	1065	9.378E-07	1.125E-06	800
122.0	37.8	607	5.351E-07	6.421E-07	800	122.0	37.8	592	5.216E-07	6.260E-07	800
122.0	42.0	501	4.415E-07	5.298E-07	800	122.0	42.0	592	5.216E-07	6.260E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
130.0	.3	471	4.152E-07	4.983E-07	800	130.0	.3	420	3.703E-07	4.444E-07	800
130.0	.5	240	2.121E-07	2.545E-07	800	130.0	.5	263	2.316E-07	2.779E-07	800
130.0	1.1	699	6.161E-07	7.393E-07	800	130.0	1.1	313	2.757E-07	3.309E-07	800
130.0	1.5	403	3.553E-07	4.264E-07	800	130.0	1.5	474	4.176E-07	5.011E-07	800
130.0	2.1	717	6.319E-07	7.582E-07	800	130.0	2.1	689	6.068E-07	7.281E-07	800
130.0	4.2	935	8.233E-07	9.880E-07	800	130.0	4.2	474	4.176E-07	5.011E-07	800
130.0	6.3	3088	2.718E-06	3.262E-06	800	130.0	6.3	2820	2.483E-06	2.979E-06	800
130.0	8.4	3691	3.250E-06	3.899E-06	800	130.0	8.4	2467	2.167E-06	2.601E-06	800
130.0	10.5	2811	2.474E-06	2.969E-06	800	130.0	10.5	2068	1.821E-06	2.185E-06	800
130.0	12.6	2409	2.121E-06	2.545E-06	800	130.0	12.6	1781	1.568E-06	1.882E-06	800
130.0	14.7	1756	1.546E-06	1.855E-06	800	130.0	14.7	1351	1.190E-06	1.428E-06	800
130.0	16.8	1088	9.582E-07	1.150E-06	800	130.0	16.8	1280	1.127E-06	1.352E-06	800
130.0	21.0	775	6.823E-07	8.187E-07	800	130.0	21.0	592	5.216E-07	6.260E-07	800
130.0	25.2	1015	8.940E-07	1.073E-06	800	130.0	25.2	1065	9.378E-07	1.125E-06	800
130.0	29.4	908	7.997E-07	9.596E-07	800	130.0	29.4	732	6.446E-07	7.735E-07	800
130.0	33.6	707	6.231E-07	7.477E-07	800	130.0	33.6	646	5.689E-07	6.827E-07	800
130.0	37.8	480	4.234E-07	5.080E-07	800	130.0	37.8	786	6.919E-07	8.303E-07	800
130.0	42.0	306	2.695E-07	3.234E-07	800	130.0	42.0	431	3.798E-07	4.557E-07	800

TOWER DATA FOLLOW....

TEST D1 JULY 7, 1967 0445 TO 0515 PST  
ZINC SULFIDE RELEASE FROM ELFVATION OF 2M  
1600M ARC U= 1.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	.2	3642	3.207E-06	3.848E-06	1600
98.0	.4	3520	3.099E-06	3.719E-06	1600
98.0	.8	4952	4.360E-06	5.232E-06	1600
98.0	1.5	3518	3.097E-06	3.717E-06	1600
98.0	1.6	4456	3.923E-06	4.708E-06	1600
98.0	3.1	4282	3.770E-06	4.524E-06	1600
98.0	6.2	3977	3.501E-06	4.202E-06	1600
98.0	9.3	3723	3.278E-06	3.933E-06	1600
98.0	12.4	2548	2.243E-06	2.692E-06	1600
98.0	15.5	2473	2.178E-06	2.613E-06	1600
98.0	18.6	1730	1.524E-06	1.828E-06	1600
98.0	21.7	1438	1.266E-06	1.520E-06	1600
98.0	24.8	853	7.511E-07	9.013E-07	1600
98.0	31.0	350	3.089E-07	3.706E-07	1600
98.0	37.2	135	1.194E-07	1.433E-07	1600
98.0	43.4	80	7.103E-08	8.523E-08	1600
98.0	49.6	46	4.056E-08	4.867E-08	1600
98.0	55.8	9	8.507E-09	1.021E-08	1600
98.0	62.0	6	5.551E-09	6.661E-09	1600

TOWER DATA FOLLOW....

TEST D1 JULY 7, 1967 0445 TO 0515 PST  
FLUORESCIN RELEASE FROM ELFVATION OF 2M  
1600M ARC U= 1.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	.2	2973	2.617E-06	3.141E-06	1600
98.0	.4	3221	2.836E-06	3.403E-06	1600
98.0	.8	3370	2.967E-06	3.560E-06	1600
98.0	1.5	3667	3.229E-06	3.874E-06	1600
98.0	1.6	3320	2.923E-06	3.508E-06	1600
98.0	3.1	2311	2.035E-06	2.442E-06	1600
98.0	6.2	3816	3.360E-06	4.032E-06	1600
98.0	9.3	3171	2.792E-06	3.350E-06	1600
98.0	12.4	1733	1.526E-06	1.831E-06	1600
98.0	15.5	1390	1.224E-06	1.469E-06	1600
98.0	18.6	1225	1.079E-06	1.294E-06	1600
98.0	21.7	266	2.345E-07	2.815E-07	1600
98.0	24.8	486	4.299E-07	5.135E-07	1600
98.0	31.0	252	2.221E-07	2.665E-07	1600
98.0	37.2	160	1.410E-07	1.692E-07	1600
98.0	43.4	171	1.514E-07	1.816E-07	1600
98.0	49.6	42	3.743E-08	4.491E-08	1600
98.0	55.8	6	5.406E-09	6.487E-09	1600
98.0	62.0	0	0.	0.	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
106.0	.2	19187	1.689E-05	2.027E-05	1600	106.0	.2	14878	1.310E-05	1.572E-05	1600
106.0	.4	23817	2.097E-05	2.516E-05	1600	106.0	.4	18846	1.659E-05	1.991E-05	1600
106.0	.8	22927	2.018E-05	2.422E-05	1600	106.0	.8	13092	1.153E-05	1.383E-05	1600
106.0	1.5	26279	2.313E-05	2.776E-05	1600	106.0	1.5	19321	1.701E-05	2.041E-05	1600
106.0	1.6	26508	2.334E-05	2.800E-05	1600	106.0	1.6	18350	1.615E-05	1.938E-05	1600
106.0	3.1	31433	2.767E-05	3.320E-05	1600	106.0	3.1	21326	1.877E-05	2.253E-05	1600
106.0	6.2	20029	1.763E-05	2.116E-05	1600	106.0	6.2	12646	1.113E-05	1.336E-05	1600
106.0	9.3	27758	2.444E-05	2.932E-05	1600	106.0	9.3	22318	1.965E-05	2.358E-05	1600
106.0	12.4	25781	2.269E-05	2.723E-05	1600	106.0	12.4	21326	1.877E-05	2.253E-05	1600
106.0	15.5	21596	1.901E-05	2.281E-05	1600	106.0	15.5	14878	1.310E-05	1.572E-05	1600
106.0	18.6	21072	1.855E-05	2.226E-05	1600	106.0	18.6	18350	1.615E-05	1.938E-05	1600
106.0	21.7	14379	1.266E-05	1.519E-05	1600	106.0	21.7	12794	1.126E-05	1.352E-05	1600
106.0	24.8	11760	1.035E-05	1.242E-05	1600	106.0	24.8	9372	8.250E-06	9.900E-06	1600
106.0	31.0	6005	5.286E-06	6.344E-06	1600	106.0	31.0	4163	3.665E-06	4.398E-06	1600
106.0	37.2	3999	3.521E-06	4.225E-06	1600	106.0	37.2	3823	3.366E-06	4.039E-06	1600
106.0	43.4	2491	2.193E-06	2.632E-06	1600	106.0	43.4	2595	2.245E-06	2.742E-06	1600
106.0	49.6	878	7.735E-07	9.281E-07	1600	106.0	49.6	965	8.500E-07	1.020E-06	1600
106.0	55.8	376	3.318E-07	3.981E-07	1600	106.0	55.8	436	3.843E-07	4.611E-07	1600
106.0	62.0	222	1.957E-07	2.348E-07	1600	106.0	62.0	316	2.782E-07	3.339E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
114.0	.2	8951	7.880E-06	9.455E-06	1600	114.0	.2	6247	5.499E-06	6.599E-06	1600
114.0	.4	11831	1.042E-05	1.250E-05	1600	114.0	.4	8479	7.464E-06	8.957E-06	1600
114.0	.8	11068	9.744E-06	1.164E-05	1600	114.0	.8	7586	6.678E-06	8.014E-06	1600
114.0	1.5	13089	1.152E-05	1.383E-05	1600	114.0	1.5	10562	9.298E-06	1.116E-05	1600
114.0	1.6	13192	1.161E-05	1.394E-05	1600	114.0	1.6	11306	9.953E-06	1.194E-05	1600
114.0	3.1	11178	9.840E-06	1.181E-05	1600	114.0	3.1	8776	7.726E-06	9.271E-06	1600
114.0	6.2	13344	1.175E-05	1.410E-05	1600	114.0	6.2	11604	1.022E-05	1.226E-05	1600
114.0	9.3	13295	1.170E-05	1.404E-05	1600	114.0	9.3	9521	8.381E-06	1.006E-05	1600
114.0	12.4	12199	1.074E-05	1.289E-05	1600	114.0	12.4	7735	6.809E-06	8.171E-06	1600
114.0	15.5	10416	9.169E-06	1.100E-05	1600	114.0	15.5	7437	6.547E-06	7.857E-06	1600
114.0	18.6	8376	7.374E-06	8.849E-06	1600	114.0	18.6	6693	5.892E-06	7.071E-06	1600
114.0	21.7	6889	6.065E-06	7.278E-06	1600	114.0	21.7	6842	6.023E-06	7.228E-06	1600
114.0	24.8	5286	4.653E-06	5.584E-06	1600	114.0	24.8	4759	4.189E-06	5.027E-06	1600
114.0	31.0	3138	2.763E-06	3.315E-06	1600	114.0	31.0	2923	2.574E-06	3.088E-06	1600
114.0	37.2	1353	1.191E-06	1.429E-06	1600	114.0	37.2	1414	1.245E-06	1.494E-06	1600
114.0	43.4	969	8.538E-07	1.025E-06	1600	114.0	43.4	989	8.708E-07	1.045E-06	1600
114.0	49.6	597	5.258E-07	6.309E-07	1600	114.0	49.6	422	3.718E-07	4.461E-07	1600
114.0	55.8	93	8.223E-08	9.868E-08	1600	114.0	55.8	169	1.493E-07	1.792E-07	1600
114.0	62.0	14	1.249E-08	1.499E-08	1600	114.0	62.0	108	9.523E-08	1.143E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
122.0	.2	142	1.250E-07	1.500E-07	1600	122.0	.2	284	2.508E-07	3.009E-07	1600
122.0	.4	394	3.472E-07	4.167E-07	1600	122.0	.4	284	2.508E-07	3.009E-07	1600
122.0	.8	562	4.951E-07	5.942E-07	1600	122.0	.8	532	4.691E-07	5.629E-07	1600
122.0	1.5	3756	3.307E-06	3.969E-06	1600	122.0	1.5	4312	3.796E-06	4.556E-06	1600
122.0	1.6	5628	4.955E-06	5.946E-06	1600	122.0	1.6	4362	3.840E-06	4.608E-06	1600
122.0	3.1	3643	3.207E-06	3.848E-06	1600	122.0	3.1	2477	2.191E-06	2.617E-06	1600
122.0	6.2	5618	4.946E-06	5.936E-06	1600	122.0	6.2	3465	3.491E-06	4.189E-06	1600
122.0	9.3	4932	4.342E-06	5.210E-06	1600	122.0	9.3	4015	3.534E-06	4.241E-06	1600
122.0	12.4	3753	3.304E-06	3.965E-06	1600	122.0	12.4	1584	1.395E-06	1.674E-06	1600
122.0	15.5	2506	2.207E-06	2.648E-06	1600	122.0	15.5	1886	1.661E-06	1.993E-06	1600
122.0	18.6	1308	1.152E-06	1.382E-06	1600	122.0	18.6	705	6.213E-07	7.455E-07	1600
122.0	21.7	1417	1.248E-06	1.498E-06	1600	122.0	21.7	941	8.292E-07	9.951E-07	1600
122.0	24.8	1323	1.165E-06	1.398E-06	1600	122.0	24.8	753	6.629E-07	7.955E-07	1600
122.0	31.0	368	3.243E-07	3.892E-07	1600	122.0	31.0	287	2.533E-07	3.039E-07	1600
122.0	37.2	570	5.019E-07	6.023E-07	1600	122.0	37.2	330	2.907E-07	3.488E-07	1600
122.0	43.4	215	1.894E-07	2.273E-07	1600	122.0	43.4	216	1.909E-07	2.291E-07	1600
122.0	49.6	98	8.691E-08	1.043E-07	1600	122.0	49.6	119	1.056E-07	1.268E-07	1600
122.0	55.8	48	4.253E-08	5.104E-08	1600	122.0	55.8	68	5.988E-08	7.186E-08	1600
122.0	62.0	15	1.388E-08	1.665E-08	1600	122.0	62.0	23	2.058E-08	2.470E-08	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
130.0	.2	601	5.298E-07	6.358E-07	1600
130.0	.4	865	7.620E-07	9.144E-07	1600
130.0	.8	1182	1.041E-06	1.250E-06	1600
130.0	1.5	772	6.803E-07	8.164E-07	1600
130.0	1.6	725	6.387E-07	7.665E-07	1600
130.0	3.1	794	6.992E-07	8.391E-07	1600
130.0	6.2	959	8.442E-07	1.013E-06	1600
130.0	9.3	842	7.414E-07	8.897E-07	1600
130.0	12.4	778	6.850E-07	8.220E-07	1600
130.0	15.5	764	6.729E-07	8.075E-07	1600
130.0	18.6	701	6.171E-07	7.406E-07	1600
130.0	21.7	660	5.813E-07	6.975E-07	1600
130.0	24.8	313	2.756E-07	3.307E-07	1600
130.0	31.0	228	2.008E-07	2.409E-07	1600
130.0	37.2	125	1.104E-07	1.324E-07	1600
130.0	43.4	122	1.080E-07	1.296E-07	1600
130.0	49.6	82	7.242E-08	8.691E-08	1600
130.0	55.8	43	3.828E-08	4.594E-08	1600
130.0	62.0	6	5.551E-09	6.661E-09	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
130.0	.2	231	2.034E-07	2.440E-07	1600
130.0	.4	535	4.716E-07	5.654E-07	1600
130.0	.8	578	5.090E-07	6.108E-07	1600
130.0	1.5	729	6.421E-07	7.705E-07	1600
130.0	1.6	493	4.342E-07	5.210E-07	1600
130.0	3.1	823	7.253E-07	8.703E-07	1600
130.0	6.2	847	7.460E-07	8.953E-07	1600
130.0	9.3	571	5.078E-07	6.033E-07	1600
130.0	12.4	606	5.340E-07	6.408E-07	1600
130.0	15.5	556	4.903E-07	5.884E-07	1600
130.0	18.6	450	3.967E-07	4.761E-07	1600
130.0	21.7	599	5.277E-07	6.333E-07	1600
130.0	24.8	323	2.844E-07	3.413E-07	1600
130.0	31.0	280	2.470E-07	2.964E-07	1600
130.0	37.2	105	9.315E-08	1.118E-07	1600
130.0	43.4	91	8.068E-08	9.681E-08	1600
130.0	49.6	38	3.368E-08	4.042E-08	1600
130.0	55.8	29	2.558E-08	3.069E-08	1600
130.0	62.0	12	1.102E-08	1.322E-08	1600

OWER DATA FOLLOW....

TEST D1 JULY 7, 1967 0445 TO 0515 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
3200M ARC U= 1.2 M/SEC AT 2M

TOWER DATA FOLLOW....

TEST D1 JULY 7, 1967 0445 TO 0515 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 2M  
3200M ARC U= 1.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
98.0	.2	1580	1.391E-06	1.669E-06	3200
98.0	.4	1731	1.525E-06	1.830E-06	3200
98.0	.8	1510	1.330E-06	1.596E-06	3200
M 98.0	1.5	1574	1.386E-06	1.664E-06	3200
98.0	1.6	1288	1.134E-06	1.361E-06	3200
98.0	3.1	1310	1.154E-06	1.385E-06	3200
98.0	6.2	1355	1.193E-06	1.432E-06	3200
98.0	9.3	1333	1.174E-06	1.409E-06	3200
98.0	12.4	1302	1.147E-06	1.376E-06	3200
98.0	15.5	1255	1.105E-06	1.326E-06	3200
98.0	18.6	1048	9.230E-07	1.108E-06	3200
98.0	21.7	959	8.443E-07	1.013E-06	3200
98.0	24.8	817	7.195E-07	8.634E-07	3200
98.0	31.0	719	6.331E-07	7.597E-07	3200
98.0	37.2	639	5.629E-07	6.755E-07	3200
98.0	43.4	565	4.976E-07	5.972E-07	3200
98.0	49.6	418	3.687E-07	4.425E-07	3200
98.0	55.8	336	2.961E-07	3.554E-07	3200
98.0	62.0	238	2.099E-07	2.519E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
98.0	.2	1126	9.915E-07	1.190E-06	3200
98.0	.4	1126	9.915E-07	1.190E-06	3200
98.0	.8	844	7.432E-07	8.919E-07	3200
98.0	1.5	1478	1.302E-06	1.562E-06	3200
98.0	1.6	1055	9.294E-07	1.115E-06	3200
98.0	3.1	1232	1.085E-06	1.302E-06	3200
98.0	6.2	1267	1.116E-06	1.339E-06	3200
98.0	9.3	1161	1.023E-06	1.227E-06	3200
98.0	12.4	1126	9.915E-07	1.190E-06	3200
98.0	15.5	1002	8.874E-07	1.059E-06	3200
98.0	18.6	874	7.696E-07	9.235E-07	3200
98.0	21.7	714	6.285E-07	7.542E-07	3200
98.0	24.8	714	6.285E-07	7.542E-07	3200
98.0	31.0	714	6.285E-07	7.542E-07	3200
98.0	37.2	393	3.464E-07	4.157E-07	3200
98.0	43.4	393	3.464E-07	4.157E-07	3200
98.0	49.6	382	3.370E-07	4.044E-07	3200
98.0	55.8	286	2.524E-07	3.029E-07	3200
98.0	62.0	190	1.678E-07	2.013E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
106.0	.2	2204	1.941E-06	2.329E-06	3200
106.0	.4	2342	2.062E-06	2.475E-06	3200
106.0	.8	2215	1.950E-06	2.340E-06	3200
106.0	1.5	2064	1.817E-06	2.181E-06	3200
106.0	1.6	1215	1.070E-06	1.284E-06	3200
106.0	3.1	1964	1.729E-06	2.075E-06	3200
106.0	6.2	2671	2.352E-06	2.822E-06	3200
106.0	9.3	3524	3.102E-06	3.723E-06	3200
106.0	12.4	3827	3.369E-06	4.043E-06	3200
106.0	15.5	3811	3.355E-06	4.026E-06	3200
106.0	18.6	3370	2.967E-06	3.561E-06	3200
E 106.0	21.7	2780	2.447E-06	2.937E-06	3200
E 106.0	24.8	2594	2.284E-06	2.741E-06	3200
E 106.0	31.0	2316	2.039E-06	2.447E-06	3200
E 106.0	37.2	1946	1.713E-06	2.056E-06	3200
106.0	43.4	1849	1.628E-06	1.954E-06	3200
106.0	49.6	1845	1.624E-06	1.949E-06	3200
106.0	55.8	1838	1.619E-06	1.942E-06	3200
106.0	62.0	61	5.384E-08	6.461E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
106.0	.2	2148	1.891E-06	2.270E-06	3200
106.0	.4	2007	1.767E-06	2.121E-06	3200
106.0	.8	2360	2.078E-06	2.493E-06	3200
106.0	1.5	3497	3.079E-06	3.695E-06	3200
106.0	1.6	2430	2.140E-06	2.568E-06	3200
106.0	3.1	2430	2.140E-06	2.568E-06	3200
106.0	6.2	2606	2.295E-06	2.754E-06	3200
106.0	9.3	2959	2.605E-06	3.126E-06	3200
106.0	12.4	3206	2.822E-06	3.387E-06	3200
106.0	15.5	3100	2.729E-06	3.275E-06	3200
106.0	18.6	2747	2.419E-06	2.903E-06	3200
E 106.0	21.7	2571	2.264E-06	2.717E-06	3200
E 106.0	24.8	2395	2.109E-06	2.530E-06	3200
E 106.0	31.0	2113	1.860E-06	2.232E-06	3200
E 106.0	37.2	1866	1.643E-06	1.972E-06	3200
106.0	43.4	1584	1.395E-06	1.674E-06	3200
106.0	49.6	1725	1.519E-06	1.823E-06	3200
106.0	55.8	1655	1.457E-06	1.748E-06	3200
106.0	62.0	58	5.115E-08	6.139E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/Q SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/Q SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS		
	114.0	.2	2123	1.869E-06	2.243E-06	3200	114.0	.2	1760	1.550E-06	1.860E-06	3200	
	114.0	.4	2012	1.771E-06	2.126E-06	3200	114.0	.4	1760	1.550E-06	1.860E-06	3200	
	114.0	.8	1791	1.577E-06	1.892E-06	3200	114.0	.8	1619	1.476E-06	1.711E-06	3200	
M	114.0	1.5	2016	1.775E-06	2.130E-06	3200	114.0	1.5	2084	1.835E-06	2.202E-06	3200	
E	114.0	1.6	1829	1.611E-06	1.933E-06	3200	E	114.0	1.6	1690	1.488E-06	1.786E-06	3200
E	114.0	3.1	1855	1.633E-06	1.960E-06	3200	E	114.0	3.1	1619	1.426E-06	1.711E-06	3200
E	114.0	6.2	1786	1.573E-06	1.887E-06	3200	E	114.0	6.2	1514	1.333E-06	1.599E-06	3200
	114.0	9.3	1753	1.543E-06	1.852E-06	3200		114.0	9.3	1302	1.147E-06	1.376E-06	3200
	114.0	12.4	2115	1.862E-06	2.235E-06	3200		114.0	12.4	1373	1.209E-06	1.450E-06	3200
	114.0	15.5	1673	1.473E-06	1.768E-06	3200		114.0	15.5	1408	1.240E-06	1.488E-06	3200
	114.0	18.6	1477	1.301E-06	1.561E-06	3200		114.0	18.6	2092	1.842E-06	2.210E-06	3200
	114.0	21.7	1386	1.220E-06	1.465E-06	3200		114.0	21.7	1835	1.616E-06	1.939E-06	3200
	114.0	24.8	1303	1.148E-06	1.377E-06	3200		114.0	24.8	1857	1.635E-06	1.962E-06	3200
	114.0	31.0	1148	1.011E-06	1.213E-06	3200		114.0	31.0	1686	1.484E-06	1.781E-06	3200
	114.0	37.2	1156	1.018E-06	1.222E-06	3200		114.0	37.2	895	7.888E-07	9.461E-07	3200
	114.0	43.4	1202	1.059E-06	1.271E-06	3200		114.0	43.4	1002	8.824E-07	1.059E-06	3200
	114.0	49.6	1274	1.122E-06	1.346E-06	3200		114.0	49.6	981	8.636E-07	1.036E-06	3200
	114.0	55.8	1407	1.239E-06	1.487E-06	3200		114.0	55.8	1087	9.576E-07	1.149E-06	3200
	114.0	62.0	1491	1.313E-06	1.575E-06	3200		114.0	62.0	1280	1.177E-06	1.352E-06	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/Q SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/Q SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS	
	122.0	.2	987	8.696E-07	1.043E-06	3200	122.0	.2	831	7.320E-07	8.784E-07	3200
	122.0	.4	1004	8.839E-07	1.061E-06	3200	122.0	.4	831	7.320E-07	8.784E-07	3200
	122.0	.8	928	8.175E-07	9.810E-07	3200	122.0	.8	756	6.661E-07	7.994E-07	3200
M	122.0	1.5	900	7.924E-07	9.509E-07	3200	122.0	1.5	916	8.072E-07	9.686E-07	3200
	122.0	1.6	901	7.933E-07	9.519E-07	3200	122.0	1.6	746	6.567E-07	7.881E-07	3200
	122.0	3.1	990	8.772E-07	1.047E-06	3200	122.0	3.1	906	7.978E-07	9.573E-07	3200
	122.0	6.2	1122	9.880E-07	1.186E-06	3200	122.0	6.2	788	6.943E-07	8.332E-07	3200
	122.0	9.3	1127	9.922E-07	1.191E-06	3200	122.0	9.3	906	7.978E-07	9.573E-07	3200
	122.0	12.4	833	7.333E-07	8.799E-07	3200	122.0	12.4	596	5.251E-07	6.301E-07	3200
	122.0	15.5	574	5.059E-07	6.071E-07	3200	122.0	15.5	446	3.934E-07	4.721E-07	3200
	122.0	18.6	415	3.658E-07	4.389E-07	3200	122.0	18.6	340	2.994E-07	3.593E-07	3200
	122.0	21.7	444	3.916E-07	4.699E-07	3200	122.0	21.7	372	3.776E-07	3.931E-07	3200
	122.0	24.8	387	3.410E-07	4.092E-07	3200	122.0	24.8	273	2.411E-07	2.893E-07	3200
	122.0	31.0	433	3.818E-07	4.582E-07	3200	122.0	31.0	267	2.355E-07	2.826E-07	3200
	122.0	37.2	368	3.247E-07	3.896E-07	3200	122.0	37.2	318	2.806E-07	3.367E-07	3200
	122.0	43.4	321	2.831E-07	3.397E-07	3200	122.0	43.4	283	2.496E-07	2.995E-07	3200
	122.0	49.6	306	2.700E-07	3.240E-07	3200	122.0	49.6	286	2.524E-07	3.029E-07	3200
	122.0	55.8	366	3.222E-07	3.867E-07	3200	122.0	55.8	273	2.411E-07	2.893E-07	3200
	122.0	62.0	442	3.894E-07	4.673E-07	3200	122.0	62.0	277	2.439E-07	2.927E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/Q SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/Q SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS		
	130.0	.2	198	1.750E-07	2.100E-07	3200	130.0	.2	171	1.508E-07	1.810E-07	3200	
	130.0	.4	142	1.256E-07	1.508E-07	3200	130.0	.4	190	1.678E-07	2.013E-07	3200	
	130.0	.8	155	1.373E-07	1.648E-07	3200	130.0	.8	145	1.283E-07	1.539E-07	3200	
	130.0	1.5	161	1.418E-07	1.701E-07	3200	130.0	1.5	116	1.079E-07	1.234E-07	3200	
	130.0	1.6	206	1.822E-07	2.186E-07	3200	130.0	1.6	116	1.079E-07	1.234E-07	3200	
	130.0	3.1	250	2.208E-07	2.649E-07	3200	130.0	3.1	193	1.706E-07	2.047E-07	3200	
	130.0	6.2	228	2.008E-07	2.410E-07	3200	130.0	6.2	203	1.790E-07	2.148E-07	3200	
	130.0	9.3	194	1.709E-07	2.051E-07	3200	130.0	9.3	164	1.452E-07	1.742E-07	3200	
	130.0	12.4	223	1.966E-07	2.359E-07	3200	130.0	12.4	158	1.395E-07	1.675E-07	3200	
	130.0	15.5	229	2.017E-07	2.420E-07	3200	130.0	15.5	158	1.395E-07	1.675E-07	3200	
	130.0	18.6	199	1.752E-07	2.102E-07	3200	130.0	18.6	120	1.057E-07	1.268E-07	3200	
E	130.0	21.7	176	1.550E-07	1.860E-07	3200	E	130.0	21.7	116	1.079E-07	1.234E-07	3200
E	130.0	24.8	166	1.468E-07	1.762E-07	3200	E	130.0	24.8	116	1.079E-07	1.234E-07	3200
E	130.0	31.0	157	1.387E-07	1.664E-07	3200	E	130.0	31.0	113	1.001E-07	1.201E-07	3200
E	130.0	37.2	148	1.305E-07	1.566E-07	3200	E	130.0	37.2	113	1.001E-07	1.201E-07	3200
	130.0	43.4	141	1.248E-07	1.498E-07	3200		130.0	43.4	100	8.877E-08	1.065E-07	3200
	130.0	49.6	153	1.354E-07	1.625E-07	3200		130.0	49.6	113	1.001E-07	1.201E-07	3200
	130.0	55.8	162	1.428E-07	1.713E-07	3200		130.0	55.8	110	9.723E-08	1.167E-07	3200
	130.0	62.0	131	1.155E-07	1.386E-07	3200		130.0	62.0	110	9.723E-08	1.167E-07	3200

GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. ALL ARCS CONTAIN CROSSWIND EXTENT OF TRACER DISTRIBUTIONS. VERTICAL DISTRIBUTION OF TRACER ON MOST TOWERS. CONCENTRATIONS FALL TO BACKGROUND BELOW TOPS OF MOST TOWERS. STRONG INVERSION THROUGH THE ENTIRE DEPTH OF THE 122M TOWER. STRONG RESERVATIONS UN "0" FOR BOTH TRACERS. DATA FROM THE LABORATORY ASSESSMENT FOR FLUORESCHEIN WAS LOST. HOWEVER, RESULTS FROM THAT ASSESMENT HAD BEEN GRAPHED. THE FLUORESCHEIN DATA THAT FOLLOW EVOLVE FROM THESE GRAPHS.

TEST D2 JULY 11, 1967 0350 TO 0420 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
200M ARC SAMPLER HT 1.5M U= 1.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
74.0	0	0.	0.	200
76.0	25	3.395E-08	6.450E-08	200
78.0	0	0.	0.	200
80.0	89	1.188E-07	2.258E-07	200
82.0	494	6.535E-07	1.242E-06	200
84.0	4404	5.818E-06	1.105E-05	200
86.0	30944	4.088E-05	7.767E-05	200
88.0	108100	1.428E-04	2.713E-04	200
90.0	151003	1.995E-04	3.790E-04	200
92.0	172837	2.283E-04	4.338E-04	200
94.0	185843	2.455E-04	4.665E-04	200
96.0	125603	1.659E-04	3.153E-04	200
98.0	90666	1.198E-04	2.276E-04	200
100.0	89028	1.176E-04	2.235E-04	200
102.0	136634	1.805E-04	3.429E-04	200
104.0	127987	1.691E-04	3.212E-04	200
106.0	146975	1.942E-04	3.689E-04	200
108.0	264114	3.489E-04	6.629E-04	200
110.0	242113	3.198E-04	6.077E-04	200
112.0	175799	2.322E-04	4.412E-04	200
114.0	135674	1.792E-04	3.405E-04	200
116.0	62100	8.203E-05	1.559E-04	200
118.0	13716	1.812E-05	3.443E-05	200
120.0	452	5.983E-07	1.137E-06	200
122.0	0	0.	0.	200

CROSSWIND INTEGRATED= 2.089E-02 SEC/SQ.M 3.968E-02 1/M

TEST D2 JULY 11, 1967 0350 TO 0420 PST  
FLUORESCHEIN RELEASE FROM ELEVATION OF 2M  
200M ARC SAMPLER HT 1.5M U= 1.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
78.0	1	0.	0.	200
80.0	30	3.963E-08	7.530E-08	200
82.0	470	6.209E-07	1.180E-06	200
84.0	4700	6.209E-06	1.180E-05	200
86.0	30000	3.963E-05	7.530E-05	200
88.0	145000	1.915E-04	3.639E-04	200
90.0	136000	1.797E-04	3.413E-04	200
92.0	298000	3.937E-04	7.480E-04	200
94.0	254000	3.355E-04	6.375E-04	200
96.0	160000	2.114E-04	4.016E-04	200
98.0	165000	2.180E-04	4.141E-04	200
100.0	102000	1.347E-04	2.560E-04	200
102.0	190000	2.510E-04	4.769E-04	200
104.0	190000	2.510E-04	4.769E-04	200
106.0	172000	2.272E-04	4.317E-04	200
108.0	365000	4.822E-04	9.161E-04	200
110.0	315000	4.161E-04	7.906E-04	200
112.0	220000	2.906E-04	5.522E-04	200
114.0	170000	2.246E-04	4.267E-04	200
116.0	40500	5.350E-05	1.017E-04	200
118.0	19000	2.510E-05	4.769E-05	200
120.0	1000	1.321E-06	2.510E-06	200
122.0	1	0.	0.	200

CROSSWIND INTEGRATED= 2.746E-02 SEC/SQ.M 5.218E-02 1/M

TEST D2 JULY 11, 1967 0350 TO 0420 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
800M ARC SAMPLER HT 1.5M U= 1.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
84.0	0	0.	0.	800
86.0	991	1.309E-06	2.488E-06	800
88.0	9107	1.203E-05	2.286E-05	800
90.0	38282	5.057E-05	9.608E-05	800
92.0	57249	7.563E-05	1.437E-04	800
94.0	50844	6.717E-05	1.276E-04	800
96.0	34528	4.561E-05	8.666E-05	800
98.0	28077	3.709E-05	7.047E-05	800
100.0	26694	3.526E-05	6.700E-05	800
102.0	22074	2.916E-05	5.540E-05	800
104.0	24379	3.221E-05	6.119E-05	800
106.0	32962	4.354E-05	8.273E-05	800
108.0	44067	5.821E-05	1.106E-04	800
110.0	34338	4.536E-05	8.619E-05	800
112.0	24078	3.181E-05	6.044E-05	800
114.0	24230	3.201E-05	6.082E-05	800
116.0	25706	3.396E-05	6.452E-05	800
118.0	8840	1.168E-05	2.219E-05	800
120.0	118	1.560E-07	2.964E-07	800
122.0	12	1.642E-08	3.120E-08	800
124.0	0	0.	0.	800

CROSSWIND INTEGRATED= 1.795E-02 SEC/SQ.M 3.410E-02 1/M

TEST D2 JULY 11, 1967 0350 TO 0420 PST  
FLUORESCHEIN RELEASE FROM ELEVATION OF 2M  
800M ARC SAMPLER HT 1.5M U= 1.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
84.0	1	0.	0.	800
86.0	3050	4.029E-06	7.655E-06	800
88.0	9900	1.308E-05	2.485E-05	800
90.0	46000	6.077E-05	1.155E-04	800
92.0	75000	9.908E-05	1.882E-04	800
94.0	62000	8.190E-05	1.556E-04	800
96.0	55000	7.266E-05	1.380E-04	800
98.0	36000	4.756E-05	9.036E-05	800
100.0	30500	4.029E-05	7.655E-05	800
102.0	30500	4.029E-05	7.655E-05	800
104.0	39000	5.152E-05	9.789E-05	800
106.0	41000	5.416E-05	1.029E-04	800
108.0	55000	7.266E-05	1.380E-04	800
110.0	27500	3.633E-05	6.902E-05	800
112.0	27000	3.567E-05	6.777E-05	800
114.0	24500	3.236E-05	6.149E-05	800
116.0	30000	3.963E-05	7.530E-05	800
118.0	8000	1.057E-05	2.008E-05	800
120.0	200	2.642E-07	5.020E-07	800
122.0	30	3.963E-08	7.530E-08	800
124.0	1	0.	0.	800

CROSSWIND INTEGRATED= 2.214E-02 SEC/SQ.M 4.207E-02 1/M

TEST D2 JULY 11, 1967 0350 TU 0420 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
1600M ARC SAMPLER HT 1.5M U= 1.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
89.0	0	0.	0.	1600
90.0	8	1.134E-08	2.155E-08	1600
91.0	193	2.552E-07	4.849E-07	1600
92.0	899	1.188E-06	2.258E-06	1600
93.0	4048	5.349E-06	1.016E-05	1600
94.0	11455	1.513E-05	2.875E-05	1600
95.0	16848	2.226E-05	4.229E-05	1600
96.0	21268	2.810E-05	5.338E-05	1600
97.0	21517	2.842E-05	5.401E-05	1600
98.0	18790	2.482E-05	4.716E-05	1600
99.0	15796	2.087E-05	3.965E-05	1600
100.0	13134	1.735E-05	3.297E-05	1600
101.0	10465	1.383E-05	2.627E-05	1600
102.0	9546	1.261E-05	2.396E-05	1600
E 103.0	10411	1.375E-05	2.613E-05	1600
E 104.0	9604	1.269E-05	2.411E-05	1600
E 105.0	9059	1.197E-05	2.274E-05	1600
E 106.0	10223	1.350E-05	2.566E-05	1600
E 107.0	10671	1.410E-05	2.679E-05	1600
108.0	11124	1.470E-05	2.792E-05	1600
109.0	15502	2.048E-05	3.891E-05	1600
110.0	15800	2.087E-05	3.966E-05	1600
111.0	18056	2.385E-05	4.532E-05	1600
112.0	11562	1.527E-05	2.902E-05	1600
113.0	8278	1.094E-05	2.078E-05	1600
114.0	7028	9.285E-06	1.764E-05	1600
115.0	4259	5.626E-06	1.069E-05	1600
116.0	6023	7.958E-06	1.512E-05	1600
117.0	4572	6.041E-06	1.148E-05	1600
118.0	1687	2.229E-06	4.235E-06	1600
119.0	212	2.808E-07	5.334E-07	1600
120.0	0	0.	0.	1600

CROSSWIND INTEGRATED= 1.099E-02 SEC/SQ.M 2.089E-02 1/M

TEST D2 JULY 11, 1967 0350 TU 0420 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 2M  
1600M ARC SAMPLER HT 1.5M U= 1.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
89.0	1	0.	0.	1600
90.0	50	6.605E-08	1.255E-07	1600
91.0	260	3.435E-07	6.526E-07	1600
92.0	930	1.229E-06	2.334E-06	1600
93.0	4200	5.548E-06	1.054E-05	1600
94.0	9700	1.281E-05	2.435E-05	1600
95.0	19500	2.576E-05	4.894E-05	1600
96.0	19500	2.576E-05	4.894E-05	1600
97.0	24500	3.236E-05	6.149E-05	1600
98.0	21000	2.774E-05	5.271E-05	1600
99.0	18000	2.378E-05	4.518E-05	1600
100.0	12200	1.612E-05	3.062E-05	1600
101.0	10400	1.374E-05	2.610E-05	1600
102.0	10800	1.427E-05	2.711E-05	1600
E 103.0	11000	1.453E-05	2.761E-05	1600
E 104.0	11000	1.453E-05	2.761E-05	1600
E 105.0	11500	1.519E-05	2.886E-05	1600
E 106.0	11000	1.453E-05	2.761E-05	1600
E 107.0	13000	1.717E-05	3.263E-05	1600
108.0	13500	1.783E-05	3.388E-05	1600
109.0	16300	2.153E-05	4.091E-05	1600
110.0	15800	2.087E-05	3.966E-05	1600
111.0	16800	2.219E-05	4.217E-05	1600
112.0	12800	1.691E-05	3.213E-05	1600
113.0	9700	1.281E-05	2.435E-05	1600
114.0	6500	8.587E-06	1.631E-05	1600
115.0	4500	5.945E-06	1.129E-05	1600
116.0	7000	9.247E-06	1.757E-05	1600
117.0	4800	6.341E-06	1.205E-05	1600
118.0	2150	2.840E-06	5.396E-06	1600
119.0	250	3.303E-07	6.275E-07	1600
120.0	1	0.	0.	1600

CROSSWIND INTEGRATED= 1.175E-02 SEC/SQ.M 2.233E-02 1/M

TEST D2 JULY 11, 1967 0350 TU 0420 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
3200M ARC SAMPLER HT 1.5M U= 1.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
96.0	0	0.	0.	3200
97.0	7	1.026E-08	1.949E-08	3200
98.0	60	7.952E-08	1.511E-07	3200
99.0	413	5.464E-07	1.038E-06	3200
100.0	1186	1.567E-06	2.978E-06	3200
101.0	2186	2.888E-06	5.488E-06	3200
102.0	3047	4.026E-06	7.649E-06	3200
103.0	4452	5.882E-06	1.118E-05	3200
104.0	4646	6.138E-06	1.166E-05	3200
105.0	3448	4.556E-06	8.656E-06	3200
106.0	1141	1.508E-06	2.866E-06	3200
107.0	2948	3.895E-06	7.401E-06	3200
108.0	2254	2.978E-06	5.658E-06	3200
109.0	2930	3.871E-06	7.354E-06	3200
110.0	3426	4.526E-06	8.599E-06	3200
111.0	3368	4.450E-06	8.456E-06	3200
112.0	3228	4.264E-06	8.102E-06	3200
113.0	2702	3.571E-06	6.784E-06	3200
114.0	1967	2.600E-06	4.939E-06	3200
W 115.0	1235	1.633E-06	3.102E-06	3200
W 116.0	1272	1.681E-06	3.195E-06	3200
W 117.0	1043	1.379E-06	2.620E-06	3200
118.0	412	5.451E-07	1.036E-06	3200
119.0	69	9.234E-08	1.754E-07	3200
120.0	1	2.565E-09	4.874E-09	3200
121.0	1	2.565E-09	4.874E-09	3200
122.0	0	0.	0.	3200

CROSSWIND INTEGRATED= 3.501E-03 SEC/SQ.M 6.653E-03 1/M

TEST D2 JULY 11, 1967 0350 TU 0420 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 2M  
3200M ARC SAMPLER HT 1.5M U= 1.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
97.0	1	0.	0.	3200
98.0	60	7.926E-08	1.506E-07	3200
99.0	440	5.812E-07	1.104E-06	3200
100.0	970	1.281E-06	2.435E-06	3200
101.0	1630	2.153E-06	4.091E-06	3200
102.0	2450	3.236E-06	6.149E-06	3200
103.0	3500	4.624E-06	8.785E-06	3200
104.0	4000	5.284E-06	1.004E-05	3200
105.0	3150	4.161E-06	7.906E-06	3200
106.0	2400	3.170E-06	6.024E-06	3200
107.0	3050	4.029E-06	7.655E-06	3200
108.0	2100	2.774E-06	5.271E-06	3200
109.0	3550	4.690E-06	8.910E-06	3200
110.0	3650	4.822E-06	9.161E-06	3200
111.0	3200	4.227E-06	8.032E-06	3200
112.0	3150	4.161E-06	7.906E-06	3200
113.0	2450	3.236E-06	6.149E-06	3200
114.0	2350	3.104E-06	5.898E-06	3200
W 115.0	1270	1.678E-06	3.188E-06	3200
W 116.0	1280	1.691E-06	3.213E-06	3200
W 117.0	1350	1.783E-06	3.388E-06	3200
118.0	380	5.020E-07	9.538E-07	3200
119.0	80	1.057E-07	2.008E-07	3200
120.0	50	6.605E-08	1.255E-07	3200
121.0	1	0.	0.	3200

CROSSWIND INTEGRATED= 3.431E-03 SEC/SQ.M 6.520E-03 1/M

TOWER DATA FOLLOW....

TEST D2 JULY 11, 1967 0350 TO 0420 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
200M ARC U= 1.9 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	.3	23684	3.129E-05	5.945E-05	200
98.0	.7	22675	2.995E-05	5.691E-05	200
98.0	1.4	14815	1.957E-05	3.718E-05	200
98.0	1.5	90666	1.198E-04	2.276E-04	200
98.0	2.7	125116	1.653E-04	3.140E-04	200
98.0	4.1	178714	2.361E-04	4.486E-04	200
98.0	5.4	206449	2.727E-04	5.182E-04	200
98.0	6.8	164811	2.177E-04	4.137E-04	200
98.0	8.1	185452	2.450E-04	4.655E-04	200
98.0	9.5	165867	2.191E-04	4.163E-04	200
98.0	10.8	140411	1.855E-04	3.524E-04	200
98.0	13.5	41314	5.458E-05	1.037E-04	200
98.0	16.2	7351	9.711E-06	1.845E-05	200
98.0	18.9	566	7.487E-07	1.423E-06	200
98.0	21.6	38	5.085E-08	9.661E-08	200
98.0	24.3	0	0.	0.	200
98.0	27.0	0	0.	0.	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
106.0	.3	53433	7.059E-05	1.341E-04	200
106.0	.7	49735	6.570E-05	1.248E-04	200
106.0	1.4	52980	6.999E-05	1.330E-04	200
106.0	1.5	146975	1.942E-04	3.689E-04	200
106.0	2.7	189773	2.507E-04	4.763E-04	200
106.0	4.1	236672	3.126E-04	5.940E-04	200
106.0	5.4	236243	3.121E-04	5.929E-04	200
106.0	6.8	163436	2.159E-04	4.102E-04	200
106.0	8.1	194187	2.565E-04	4.874E-04	200
106.0	9.5	145057	1.916E-04	3.641E-04	200
106.0	10.8	123157	1.627E-04	3.091E-04	200
106.0	13.5	30603	4.043E-05	7.681E-05	200
106.0	16.2	23859	3.152E-05	5.989E-05	200
106.0	18.9	6195	8.184E-06	1.555E-05	200
106.0	21.6	1795	2.371E-06	4.506E-06	200
106.0	24.3	118	1.567E-07	2.977E-07	200
106.0	27.0	5	7.544E-09	1.433E-08	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
114.0	.3	45437	6.002E-05	1.140E-04	200
114.0	.7	30132	3.981E-05	7.563E-05	200
114.0	1.4	29051	3.838E-05	7.292E-05	200
114.0	1.5	135674	1.792E-04	3.405E-04	200
114.0	2.7	117845	1.557E-04	2.958E-04	200
114.0	4.1	182046	2.405E-04	4.569E-04	200
114.0	5.4	122477	1.618E-04	3.074E-04	200
114.0	6.8	179465	2.371E-04	4.504E-04	200
114.0	8.1	86615	1.144E-04	2.174E-04	200
114.0	9.5	91695	1.211E-04	2.301E-04	200
114.0	10.8	82671	1.092E-04	2.075E-04	200
114.0	13.5	20669	2.730E-05	5.188E-05	200
114.0	16.2	4397	5.809E-06	1.104E-05	200
114.0	18.9	473	6.257E-07	1.189E-06	200
114.0	21.6	7	1.017E-08	1.932E-08	200
114.0	24.3	2	3.868E-09	7.350E-09	200
114.0	27.0	4	5.658E-09	1.075E-08	200

TOWER DATA FOLLOW....

TEST D2 JULY 11, 1967 0350 TO 0420 PST  
FLUORESCEN RELEASE FROM ELEVATION OF 2M  
200M ARC U= 1.9 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	.3	31000	4.095E-05	7.781E-05	200
98.0	.7	34000	4.491E-05	8.534E-05	200
98.0	1.4	25000	3.303E-05	6.275E-05	200
98.0	1.5	165000	2.180E-04	4.141E-04	200
98.0	2.7	105000	1.387E-04	2.635E-04	200
98.0	4.1	202000	2.668E-04	5.070E-04	200
98.0	5.4	259000	3.421E-04	6.501E-04	200
98.0	6.8	190000	2.510E-04	4.769E-04	200
98.0	8.1	202000	2.668E-04	5.070E-04	200
98.0	9.5	227000	2.999E-04	5.697E-04	200
98.0	10.8	232000	3.065E-04	5.823E-04	200
98.0	13.5	52000	6.869E-05	1.305E-04	200
98.0	16.2	10300	1.361E-05	2.585E-05	200
98.0	18.9	1520	2.008E-06	3.815E-06	200
98.0	21.6	250	3.303E-07	6.275E-07	200
98.0	24.3	540	7.133E-07	1.355E-06	200
98.0	27.0	190	2.510E-07	4.769E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
106.0	.3	62000	8.190E-05	1.556E-04	200
106.0	.7	61000	8.058E-05	1.531E-04	200
106.0	1.4	66000	8.719E-05	1.657E-04	200
106.0	1.5	172000	2.272E-04	4.317E-04	200
106.0	2.7	205000	2.708E-04	5.145E-04	200
106.0	4.1	260000	3.435E-04	6.526E-04	200
106.0	5.4	485000	6.407E-04	1.217E-03	200
106.0	6.8	141000	1.863E-04	3.539E-04	200
106.0	8.1	270000	3.567E-04	6.777E-04	200
106.0	9.5	148000	1.955E-04	3.715E-04	200
106.0	10.8	208000	2.748E-04	5.221E-04	200
106.0	13.5	46500	6.143E-05	1.167E-04	200
106.0	16.2	37000	4.888E-05	9.287E-05	200
106.0	18.9	13600	1.797E-05	3.413E-05	200
106.0	21.6	2100	2.774E-06	5.271E-06	200
106.0	24.3	260	3.435E-07	6.526E-07	200
106.0	27.0	1	0.	0.	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
114.0	.3	38000	5.020E-05	9.538E-05	200
114.0	.7	35500	4.690E-05	8.910E-05	200
114.0	1.4	33000	4.359E-05	8.283E-05	200
114.0	1.5	170000	2.246E-04	4.267E-04	200
114.0	2.7	111000	1.466E-04	2.786E-04	200
114.0	4.1	159000	2.100E-04	3.991E-04	200
114.0	5.4	132000	1.744E-04	3.313E-04	200
114.0	6.8	226000	2.985E-04	5.672E-04	200
114.0	8.1	110000	1.453E-04	2.761E-04	200
114.0	9.5	123000	1.625E-04	3.087E-04	200
114.0	10.8	102000	1.347E-04	2.560E-04	200
114.0	13.5	39000	5.152E-05	9.789E-05	200
114.0	16.2	6500	8.587E-06	1.631E-05	200
114.0	18.9	1090	1.440E-06	2.736E-06	200
114.0	21.6	40	5.284E-08	1.004E-07	200
114.0	24.3	190	2.510E-07	4.769E-07	200
114.0	27.0	330	4.359E-07	8.283E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
122.0	.3	0	0.	0.	200	122.0	.3	1	0.	0.	200
122.0	.7	33	4.446E-08	8.446E-08	200	122.0	.7	1	0.	0.	200
122.0	1.4	6	8.487E-09	1.613E-08	200	122.0	1.4	1	0.	0.	200
122.0	1.5	0	0.	0.	200	122.0	1.5	1	0.	0.	200
122.0	2.7	494	6.535E-07	1.242E-06	200	122.0	2.7	1	0.	0.	200
122.0	4.1	463	6.174E-07	1.164E-06	200	122.0	4.1	110	1.453E-07	2.761E-07	200
122.0	5.4	183	2.470E-07	4.599E-07	200	122.0	5.4	1	0.	0.	200
122.0	6.8	320	4.230E-07	8.036E-07	200	122.0	6.8	1	0.	0.	200
122.0	8.1	287	3.801E-07	7.221E-07	200	122.0	8.1	1510	1.995E-06	3.790E-06	200
122.0	9.5	217	2.876E-07	5.465E-07	200	122.0	9.5	20	2.642E-08	5.020E-08	200
122.0	10.8	140	1.857E-07	3.528E-07	200	122.0	10.8	30	3.963E-08	7.530E-08	200
122.0	13.5	50	6.622E-08	1.258E-07	200	122.0	13.5	140	1.849E-07	3.514E-07	200
122.0	16.2	17	2.249E-08	4.273E-08	200	122.0	16.2	1	0.	0.	200
122.0	18.9	11	1.460E-08	2.774E-08	200	122.0	18.9	1	0.	0.	200
122.0	21.6	18	2.441E-08	4.637E-08	200	122.0	21.6	1	0.	0.	200
122.0	24.3	36	4.835E-08	9.187E-08	200	122.0	24.3	10	1.321E-08	2.510E-08	200
122.0	27.0	18	2.452E-08	4.659E-08	200	122.0	27.0	30	3.953E-08	7.530E-08	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
130.0	.3	0	0.	0.	200
130.0	.7	0	0.	0.	200
130.0	1.4	0	0.	0.	200
130.0	1.5	0	0.	0.	200
130.0	2.7	391	5.173E-07	9.830E-07	200
130.0	4.1	650	8.589E-07	1.632E-06	200
130.0	5.4	410	5.428E-07	1.031E-06	200
130.0	6.8	285	3.771E-07	7.164E-07	200
130.0	8.1	301	3.983E-07	7.568E-07	200
130.0	9.5	72	9.587E-08	1.822E-07	200
130.0	10.8	51	6.799E-08	1.292E-07	200
130.0	13.5	66	8.750E-08	1.663E-07	200
130.0	16.2	90	1.192E-07	2.265E-07	200
130.0	18.9	31	4.171E-08	7.925E-08	200
E 130.0	21.6	30	4.068E-08	7.729E-08	200
130.0	24.3	29	3.868E-08	7.350E-08	200
130.0	27.0	29	3.961E-08	7.526E-08	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
N 130.0	.3	1	0.	0.	200

TOWER DATA FOLLOW....

TEST D2 JULY 11, 1967 0350 TO 0420 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
800M ARC U= 1.9 M/SEC AT 2M

TOWER DATA FOLLOW....

TEST D2 JULY 11, 1967 0350 TO 0420 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 2M  
800M ARC U= 1.9 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
98.0	.3	14564	1.924E-05	3.656E-05	800
98.0	.5	25811	3.410E-05	6.478E-05	800
98.0	1.1	29106	3.845E-05	7.305E-05	800
98.0	1.5	28077	3.709E-05	7.047E-05	800
98.0	2.1	27920	3.688E-05	7.008E-05	800
98.0	4.2	29001	3.831E-05	7.279E-05	800
98.0	6.3	29093	3.843E-05	7.302E-05	800
98.0	8.4	2744	3.625E-06	6.888E-06	800
98.0	10.5	23698	3.131E-05	5.948E-05	300
98.0	12.6	11047	1.459E-05	2.773E-05	800
98.0	14.7	9566	1.264E-05	2.401E-05	800
98.0	16.8	4291	5.668E-06	1.077E-05	800
98.0	21.0	872	1.153E-06	2.190E-06	800
98.0	25.2	160	2.114E-07	4.017E-07	800
98.0	29.4	19	2.603E-08	4.945E-08	800
98.0	33.6	4	6.600E-09	1.254E-08	800
98.0	37.8	0	0.	0.	800
98.0	42.0	0	0.	0.	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
98.0	.3	15000	1.982E-05	3.765E-05	800
98.0	.5	27500	3.633E-05	6.902E-05	800
98.0	1.1	23500	3.104E-05	5.898E-05	800
98.0	1.5	36000	4.756E-05	9.036E-05	800
98.0	2.1	28500	3.765E-05	7.153E-05	800
98.0	4.2	36000	4.756E-05	9.036E-05	800
98.0	6.3	37000	4.888E-05	9.287E-05	800
98.0	8.4	13800	1.823E-05	3.464E-05	800
98.0	10.5	34500	4.557E-05	8.659E-05	800
98.0	12.6	18800	2.483E-05	4.719E-05	800
98.0	14.7	12600	1.664E-05	3.162E-05	800
98.0	16.8	6100	8.058E-06	1.531E-05	800
98.0	21.0	1900	2.510E-06	4.769E-06	800
98.0	25.2	190	2.510E-07	4.769E-07	800
98.0	29.4	10	1.321E-08	2.510E-08	800
98.0	33.6	1	0.	0.	800
98.0	37.8	1	0.	0.	800
98.0	42.0	1	0.	0.	800



AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
106.0	.3	33725	4.455E-05	8.465E-05	800	106.0	.3	31000	4.095E-05	7.781E-05	800
106.0	.5	30215	3.991E-05	7.584E-05	800	106.0	.5	33000	4.359E-05	8.283E-05	800
106.0	1.1	36209	4.783E-05	9.088E-05	800	106.0	1.1	33500	4.425E-05	8.408E-05	800
106.0	1.5	32962	4.354E-05	8.273E-05	800	106.0	1.5	41000	5.416E-05	1.029E-04	800
106.0	2.1	40591	5.362E-05	1.019E-04	800	106.0	2.1	38500	5.086E-05	9.663E-05	800
106.0	4.2	51068	6.746E-05	1.282E-04	800	106.0	4.2	38000	5.020E-05	9.538E-05	800
106.0	6.3	20695	2.734E-05	5.194E-05	800	106.0	6.3	20400	2.695E-05	5.120E-05	800
106.0	8.4	3758	4.965E-06	9.433E-06	800	E 106.0	8.4	19000	2.510E-05	4.769E-05	800
106.0	10.5	12333	1.679E-05	3.096E-05	800	106.0	10.5	18000	2.378E-05	4.518E-05	800
106.0	12.6	10656	1.408E-05	2.675E-05	800	106.0	12.6	16000	2.114E-05	4.016E-05	800
106.0	14.7	8349	1.103E-05	2.096E-05	800	106.0	14.7	9200	1.215E-05	2.309E-05	800
106.0	16.8	5148	6.801E-06	1.292E-05	800	106.0	16.8	7400	9.775E-06	1.857E-05	800
106.0	21.0	2220	2.933E-06	5.573E-06	800	106.0	21.0	3900	5.152E-06	9.789E-06	800
106.0	25.2	941	1.244E-06	2.364E-06	800	106.0	25.2	3100	4.095E-06	7.781E-06	800
106.0	29.4	237	3.140E-07	5.967E-07	800	106.0	29.4	670	8.851E-07	1.682E-06	800
106.0	33.6	38	5.115E-08	9.718E-08	800	106.0	33.6	70	9.247E-08	1.757E-07	800
106.0	37.8	71	9.493E-08	1.804E-07	800	106.0	37.8	160	2.114E-07	4.016E-07	800
106.0	42.0	46	6.120E-08	1.163E-07	800	L 106.0	42.0	1	0.	0.	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
114.0	.3	19120	2.526E-05	4.799E-05	800	114.0	.3	19100	2.523E-05	4.794E-05	800
114.0	.5	18340	2.473E-05	4.603E-05	800	114.0	.5	21600	2.853E-05	5.421E-05	800
114.0	1.1	21381	2.874E-05	5.367E-05	800	114.0	1.1	24500	3.236E-05	6.149E-05	800
114.0	1.5	24230	3.201E-05	6.082E-05	800	114.0	1.5	24500	3.236E-05	6.149E-05	800
114.0	2.1	20549	2.715E-05	5.158E-05	800	114.0	2.1	17300	2.285E-05	4.342E-05	800
114.0	4.2	20847	2.754E-05	5.232E-05	800	114.0	4.2	26700	3.527E-05	6.701E-05	800
114.0	6.3	15830	2.091E-05	3.973E-05	800	114.0	6.3	16000	2.114E-05	4.016E-05	800
114.0	8.4	16082	2.175E-05	4.037E-05	800	114.0	8.4	16500	2.180E-05	4.141E-05	800
114.0	10.5	14302	1.889E-05	3.590E-05	800	114.0	10.5	16000	2.114E-05	4.016E-05	800
114.0	12.6	8587	1.134E-05	2.155E-05	800	114.0	12.6	12200	1.612E-05	3.062E-05	800
114.0	14.7	3699	4.888E-06	9.287E-06	800	114.0	14.7	5900	7.794E-06	1.481E-05	800
114.0	16.8	2190	2.894E-06	5.498E-06	800	114.0	16.8	3030	4.003E-06	7.605E-06	800
114.0	21.0	248	3.285E-07	6.242E-07	800	114.0	21.0	410	5.416E-07	1.029E-06	800
114.0	25.2	73	9.779E-08	1.848E-07	800	114.0	25.2	100	1.321E-07	2.510E-07	800
114.0	29.4	43	5.726E-08	1.088E-07	800	114.0	29.4	70	9.247E-08	1.757E-07	800
114.0	33.6	2	3.300E-09	6.270E-09	800	L 114.0	33.6	1	0.	0.	800
114.0	37.8	7	9.654E-09	1.834E-08	800	114.0	37.8	80	1.057E-07	2.008E-07	800
114.0	42.0	42	5.661E-08	1.076E-07	800	L 114.0	42.0	1	0.	0.	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
122.0	.3	3	4.515E-09	8.579E-09	800	122.0	.3	1	0.	0.	800
122.0	.5	0	0.	0.	800	122.0	.5	1	0.	0.	800
122.0	1.1	3	4.105E-09	7.799E-09	800	122.0	1.1	1	0.	0.	800
122.0	1.5	12	1.642E-08	3.120E-08	800	122.0	1.5	30	3.963E-08	7.530E-08	800
122.0	2.1	2	3.926E-09	7.460E-09	800	122.0	2.1	1	0.	0.	800
122.0	4.2	385	5.093E-07	9.677E-07	800	122.0	4.2	110	1.453E-07	2.761E-07	800
122.0	6.3	189	2.504E-07	4.758E-07	800	122.0	6.3	40	5.284E-08	1.004E-07	800
122.0	8.4	130	1.721E-07	3.270E-07	800	122.0	8.4	80	1.057E-07	2.008E-07	800
122.0	10.5	86	1.141E-07	2.169E-07	800	122.0	10.5	10	1.321E-08	2.510E-08	800
122.0	12.6	79	1.056E-07	2.006E-07	800	122.0	12.6	1	0.	0.	800
122.0	14.7	128	1.695E-07	3.221E-07	800	122.0	14.7	20	2.642E-08	5.020E-08	800
122.0	16.8	51	6.789E-08	1.290E-07	800	122.0	16.8	10	1.321E-08	2.510E-08	800
122.0	21.0	32	4.328E-08	8.224E-08	800	122.0	21.0	1	0.	0.	800
122.0	25.2	11	1.497E-08	2.844E-08	800	122.0	25.2	30	3.963E-08	7.530E-08	800
122.0	29.4	13	1.735E-08	3.297E-08	800	122.0	29.4	30	3.963E-08	7.530E-08	800
122.0	33.6	21	2.805E-08	5.329E-08	800	122.0	33.6	1	0.	0.	800
122.0	37.8	19	2.574E-08	4.891E-08	800	122.0	37.8	1	0.	0.	800
122.0	42.0	0	0.	0.	800	122.0	42.0	1	0.	0.	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/O SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
130.0	.3	13	1.806E-08	3.432E-08	800
130.0	.5	0	0.	0.	800
130.0	1.1	0	0.	0.	800
130.0	1.5	0	0.	0.	800
M 130.0	2.1	0	0.	0.	800
130.0	4.2	216	2.854E-07	5.422E-07	800
130.0	6.3	76	1.006E-07	1.916E-07	800
130.0	8.4	195	2.581E-07	4.905E-07	800
130.0	10.5	35	4.669E-08	8.871E-08	800
130.0	12.6	83	1.103E-07	2.095E-07	800
130.0	14.7	67	8.923E-08	1.695E-07	800
130.0	16.8	33	4.455E-08	8.465E-08	800
130.0	21.0	16	2.164E-08	4.112E-08	800
130.0	25.2	49	6.548E-08	1.244E-07	800
130.0	29.4	7	1.041E-08	1.978E-08	800
130.0	33.6	12	1.650E-08	3.135E-08	800
130.0	37.8	24	3.218E-08	6.114E-08	800
130.0	42.0	8	1.071E-08	2.035E-08	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/O SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
N 130.0	.3	1	0.	0.	800

TOWER DATA FOLLOW....

TEST D2 JULY 11, 1967 0350 TO 0420 PST  
ZINC SULFIDE RELEASE FROM ELFVATION OF 2M  
1600M ARC U= 1.9 M/SEC AT 2M

TOWER DATA FOLLOW....

TEST D2 JULY 11, 1967 0350 TO 0420 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 2M  
1600M ARC U= 1.9 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/O SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	.2	16964	2.241E-05	4.258E-05	1600
98.0	.4	16599	2.193E-05	4.166E-05	1600
98.0	.8	21191	2.799E-05	5.319E-05	1600
98.0	1.5	18790	2.482E-05	4.716E-05	1600
98.0	1.6	21141	2.793E-05	5.306E-05	1600
98.0	3.1	22488	2.971E-05	5.644E-05	1600
98.0	6.2	16838	2.274E-05	4.226E-05	1600
98.0	9.3	12039	1.590E-05	3.022E-05	1600
98.0	12.4	7905	1.044E-05	1.984E-05	1600
98.0	15.5	3741	4.943E-06	9.391E-06	1600
98.0	18.6	1225	1.620E-06	3.077E-06	1600
98.0	21.7	506	6.687E-07	1.271E-06	1600
98.0	24.8	132	1.745E-07	3.315E-07	1600
98.0	31.0	18	2.462E-08	4.677E-08	1600
98.0	37.2	1	1.358E-09	2.580E-09	1600
98.0	43.4	3	5.095E-09	9.680E-09	1600
98.0	49.6	0	0.	0.	1600
98.0	55.8	4	5.973E-09	1.135E-08	1600
98.0	62.0	0	0.	0.	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/O SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	.2	15800	2.087E-05	3.966E-05	1600
98.0	.4	16700	2.206E-05	4.192E-05	1600
98.0	.8	18300	2.417E-05	4.593E-05	1600
98.0	1.5	21000	2.774E-05	5.271E-05	1600
98.0	1.6	19800	2.616E-05	4.970E-05	1600
98.0	3.1	22200	2.933E-05	5.572E-05	1600
98.0	6.2	18100	2.391E-05	4.543E-05	1600
98.0	9.3	16100	2.127E-05	4.041E-05	1600
98.0	12.4	5500	7.266E-06	1.380E-05	1600
98.0	15.5	11500	1.519E-05	2.886E-05	1600
98.0	18.6	1380	1.823E-06	3.464E-06	1600
98.0	21.7	590	7.794E-07	1.481E-06	1600
98.0	24.8	220	2.906E-07	5.522E-07	1600
98.0	31.0	10	1.321E-08	2.510E-08	1600
L 98.0	37.2	1	0.	0.	1600
L 98.0	43.4	1	0.	0.	1600
L 98.0	49.6	1	0.	0.	1600
L 98.0	55.8	1	0.	0.	1600
L 98.0	62.0	1	0.	0.	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/O SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
E 106.0	.2	7948	1.050E-05	1.995E-05	1600
E 106.0	.4	8179	1.080E-05	2.053E-05	1600
E 106.0	.8	10160	1.342E-05	2.550E-05	1600
E 106.0	1.5	10223	1.350E-05	2.566E-05	1600
106.0	1.6	10354	1.368E-05	2.599E-05	1600
106.0	3.1	12082	1.596E-05	3.033E-05	1600
106.0	6.2	9360	1.236E-05	2.349E-05	1600
106.0	9.3	9474	1.252E-05	2.378E-05	1600
106.0	12.4	7475	9.875E-06	1.876E-05	1600
106.0	15.5	3328	4.397E-06	8.354E-06	1600
106.0	18.6	2389	3.157E-06	5.998E-06	1600
106.0	21.7	1387	1.826E-06	3.469E-06	1600
106.0	24.8	841	1.112E-06	2.112E-06	1600
106.0	31.0	457	6.038E-07	1.147E-06	1600
106.0	37.2	74	9.778E-08	1.858E-07	1600
106.0	43.4	46	6.114E-08	1.162E-07	1600
106.0	49.6	2	3.661E-09	6.956E-09	1600
106.0	55.8	3	4.778E-09	9.079E-09	1600
106.0	62.0	0	0.	0.	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/O SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
E 106.0	.2	8500	1.123E-05	2.133E-05	1600
E 106.0	.4	8500	1.123E-05	2.133E-05	1600
E 106.0	.8	8500	1.123E-05	2.133E-05	1600
106.0	1.5	11000	1.453E-05	2.761E-05	1600
106.0	1.6	10200	1.347E-05	2.560E-05	1600
106.0	3.1	11200	1.480E-05	2.811E-05	1600
106.0	6.2	8900	1.176E-05	2.234E-05	1600
106.0	9.3	10900	1.440E-05	2.736E-05	1600
106.0	12.4	9300	1.229E-05	2.334E-05	1600
106.0	15.5	4800	6.341E-06	1.205E-05	1600
106.0	18.6	2050	2.708E-06	5.145E-06	1600
106.0	21.7	2050	2.708E-06	5.145E-06	1600
106.0	24.8	1150	1.519E-06	2.886E-06	1600
106.0	31.0	630	8.322E-07	1.581E-06	1600
106.0	37.2	480	6.341E-07	1.205E-06	1600
106.0	43.4	1600	2.114E-06	4.016E-06	1600
106.0	49.6	1	0.	0.	1600
106.0	55.8	1	0.	0.	1600
106.0	62.0	1	0.	0.	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
114.0	.2	6207	8.201E-06	1.558E-05	1600	114.0	.2	5650	7.464E-06	1.418E-05	1600
114.0	.4	5723	7.561E-06	1.437E-05	1600	114.0	.4	5600	7.398E-06	1.406E-05	1600
114.0	.8	6395	8.448E-06	1.605E-05	1600	114.0	.8	4400	5.812E-06	1.104E-05	1600
114.0	1.5	7028	9.285E-06	1.764E-05	1600	114.0	1.5	6500	8.587E-06	1.631E-05	1600
114.0	1.6	6603	8.723E-06	1.657E-05	1600	114.0	1.6	4850	6.407E-06	1.217E-05	1600
114.0	3.1	7299	9.642E-06	1.832E-05	1600	114.0	3.1	4100	5.416E-06	1.029E-05	1600
114.0	6.2	6847	9.045E-06	1.719E-05	1600	114.0	6.2	3900	5.152E-06	9.789E-06	1600
114.0	9.3	6033	7.971E-06	1.514E-05	1600	114.0	9.3	3650	4.822E-06	9.161E-06	1600
114.0	12.4	2910	3.845E-06	7.305E-06	1600	114.0	12.4	3200	4.227E-06	8.032E-06	1600
114.0	15.5	1530	2.022E-06	3.842E-06	1600	114.0	15.5	1450	1.915E-06	3.639E-06	1600
114.0	18.6	794	1.049E-06	1.994E-06	1600	114.0	18.6	840	1.110E-06	2.108E-06	1600
114.0	21.7	292	3.867E-07	7.348E-07	1600	114.0	21.7	260	3.435E-07	6.526E-07	1600
114.0	24.8	119	1.575E-07	2.992E-07	1600	114.0	24.8	160	2.114E-07	4.016E-07	1600
114.0	31.0	41	5.502E-08	1.045E-07	1600	114.0	31.0	70	9.247E-08	1.757E-07	1600
114.0	37.2	21	2.852E-08	5.419E-08	1600	114.0	37.2	10	1.321E-08	2.510E-08	1600
114.0	43.4	10	1.401E-08	2.662E-08	1600	114.0	43.4	20	2.642E-08	5.020E-08	1600
114.0	49.6	1	2.441E-09	4.637E-09	1600	114.0	49.6	40	5.284E-08	1.004E-07	1600
114.0	55.8	0	1.195E-09	2.270E-09	1600	114.0	55.8	20	2.642E-08	5.020E-08	1600
114.0	62.0	0	0.	0.	1600	114.0	62.0	1	0.	0.	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
122.0	.2	2	2.978E-09	5.658E-09	1600	122.0	.2	1	0.	0.	1600
122.0	.4	0	0.	0.	1600	122.0	.4	1	0.	0.	1600
122.0	.8	0	0.	0.	1600	122.0	.8	1	0.	0.	1600
122.0	1.5	0	0.	0.	1600	122.0	1.5	1	0.	0.	1600
122.0	1.6	0	0.	0.	1600	122.0	1.6	1	0.	0.	1600
122.0	3.1	59	7.850E-08	1.492E-07	1600	122.0	3.1	1	0.	0.	1600
122.0	6.2	68	9.088E-08	1.727E-07	1600	122.0	6.2	80	1.057E-07	2.008E-07	1600
122.0	9.3	19	2.608E-08	4.956E-08	1600	122.0	9.3	1	0.	0.	1600
122.0	12.4	0	0.	0.	1600	122.0	12.4	1	0.	0.	1600
122.0	15.5	29	3.861E-08	7.337E-08	1600	122.0	15.5	1	0.	0.	1600
122.0	18.6	2	3.363E-09	6.391E-09	1600	122.0	18.6	1	0.	0.	1600
122.0	21.7	36	4.834E-08	9.185E-08	1600	122.0	21.7	30	3.963E-08	7.530E-08	1600
122.0	24.8	8	1.081E-08	2.053E-08	1600	122.0	24.8	40	5.284E-08	1.004E-07	1600
122.0	31.0	55	7.385E-08	1.403E-07	1600	122.0	31.0	10	1.321E-08	2.510E-08	1600
122.0	37.2	20	2.716E-08	5.161E-08	1600	122.0	37.2	20	2.642E-08	5.020E-08	1600
122.0	43.4	11	1.528E-08	2.904E-08	1600	122.0	43.4	60	7.926E-08	1.506E-07	1600
122.0	49.6	7	9.763E-09	1.855E-08	1600	122.0	49.6	1	0.	0.	1600
122.0	55.8	0	0.	0.	1600	122.0	55.8	1	0.	0.	1600
122.0	62.0	0	0.	0.	1600	122.0	62.0	1	0.	0.	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
130.0	.2	0	0.	0.	1600	N 130.0	.2	1	0.	0.	1600
130.0	.4	8	1.134E-08	2.155E-08	1600						
130.0	.8	23	3.120E-08	5.927E-08	1600						
130.0	1.5	0	0.	0.	1600						
130.0	1.6	21	2.836E-08	5.388E-08	1600						
130.0	3.1	153	2.030E-07	3.858E-07	1600						
130.0	6.2	15	2.020E-08	3.837E-08	1600						
130.0	9.3	6	8.694E-09	1.652E-08	1600						
130.0	12.4	57	7.648E-08	1.453E-07	1600						
130.0	15.5	5	7.021E-09	1.334E-08	1600						
130.0	18.6	40	5.382E-08	1.023E-07	1600						
130.0	21.7	19	2.578E-08	4.899E-08	1600						
130.0	24.8	30	4.014E-08	7.627E-08	1600						
130.0	31.0	6	8.688E-09	1.651E-08	1600						
130.0	37.2	0	0.	0.	1600						
130.0	43.4	47	6.241E-08	1.186E-07	1600						
130.0	49.6	7	9.763E-09	1.855E-08	1600						
130.0	55.8	0	0.	0.	1600						
130.0	62.0	22	2.976E-08	5.654E-08	1600						

TOWER DATA FOLLOW....

TEST D2 JULY 11, 1967 0350 TO 0420 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
3200M ARC U= 1.9 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	.2	74	9.831E-08	1.868E-07	3200
98.0	.4	76	1.010E-07	1.919E-07	3200
98.0	.8	78	1.037E-07	1.970E-07	3200
98.0	1.5	60	7.952E-08	1.511E-07	3200
98.0	1.6	115	1.526E-07	2.900E-07	3200
98.0	3.1	145	1.924E-07	3.655E-07	3200
98.0	6.2	103	1.372E-07	2.607E-07	3200
98.0	9.3	12	1.714E-08	3.256E-08	3200
98.0	12.4	8	1.122E-08	2.131E-08	3200
98.0	15.5	6	8.501E-09	1.615E-08	3200
98.0	18.6	3	4.137E-09	7.861E-09	3200
98.0	21.7	3	4.027E-09	7.651E-09	3200
98.0	24.8	0	0.	0.	3200
98.0	31.0	2	3.764E-09	7.151E-09	3200
98.0	37.2	0	0.	0.	3200
98.0	43.4	0	0.	0.	3200
98.0	49.6	0	0.	0.	3200
98.0	55.8	0	0.	0.	3200
98.0	62.0	0	0.	0.	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
106.0	.2	2227	2.942E-06	5.591E-06	3200
106.0	.4	2628	3.472E-06	6.596E-06	3200
106.0	.8	2717	3.590E-06	6.821E-06	3200
106.0	1.5	1141	1.508E-06	2.866E-06	3200
106.0	1.6	1810	2.392E-06	4.545E-06	3200
106.0	3.1	2232	2.949E-06	5.602E-06	3200
106.0	6.2	2294	3.031E-06	5.758E-06	3200
106.0	9.3	2711	3.582E-06	6.806E-06	3200
106.0	12.4	3019	3.989E-06	7.579E-06	3200
106.0	15.5	2428	3.208E-06	6.096E-06	3200
106.0	18.6	2008	2.653E-06	5.041E-06	3200
106.0	21.7	1497	1.978E-06	3.759E-06	3200
106.0	24.8	1088	1.437E-06	2.731E-06	3200
106.0	31.0	538	7.113E-07	1.351E-06	3200
106.0	37.2	258	3.415E-07	6.489E-07	3200
106.0	43.4	61	8.155E-08	1.549E-07	3200
106.0	49.6	0	0.	0.	3200
106.0	55.8	0	0.	0.	3200
106.0	62.0	0	0.	0.	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
114.0	.2	1970	2.603E-06	4.946E-06	3200
114.0	.4	1826	2.413E-06	4.585E-06	3200
114.0	.8	2295	3.033E-06	5.762E-06	3200
114.0	1.5	1967	2.600E-06	4.939E-06	3200
114.0	1.6	2203	2.911E-06	5.532E-06	3200
114.0	3.1	2825	3.732E-06	7.091E-06	3200
114.0	6.2	2476	3.272E-06	6.216E-06	3200
114.0	9.3	2506	3.312E-06	6.292E-06	3200
114.0	12.4	1847	2.441E-06	4.638E-06	3200
114.0	15.5	1694	2.239E-06	4.254E-06	3200
114.0	18.6	1609	2.127E-06	4.040E-06	3200
114.0	21.7	1223	1.617E-06	3.072E-06	3200
114.0	24.8	984	1.300E-06	2.470E-06	3200
114.0	31.0	471	6.229E-07	1.183E-06	3200
114.0	37.2	167	2.214E-07	4.206E-07	3200
114.0	43.4	105	1.397E-07	2.654E-07	3200
114.0	49.6	29	3.884E-08	7.380E-08	3200
114.0	55.8	22	2.916E-08	5.540E-08	3200
114.0	62.0	11	1.541E-08	2.927E-08	3200

TOWER DATA FOLLOW....

TEST D2 JULY 11, 1967 0350 TO 0420 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 2M  
3200M ARC U= 1.9 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	.2	50	6.605E-08	1.255E-07	3200
98.0	.4	70	9.247E-08	1.757E-07	3200
98.0	.8	70	9.247E-08	1.757E-07	3200
98.0	1.5	60	7.926E-08	1.506E-07	3200
98.0	1.6	70	9.247E-08	1.757E-07	3200
98.0	3.1	90	1.189E-07	2.259E-07	3200
98.0	6.2	60	7.926E-08	1.506E-07	3200
98.0	9.3	1	0.	0.	3200
98.0	12.4	1	0.	0.	3200
98.0	15.5	1	0.	0.	3200
98.0	18.6	1	0.	0.	3200
98.0	21.7	1	0.	0.	3200
98.0	24.8	1	0.	0.	3200
98.0	31.0	1	0.	0.	3200
98.0	37.2	1	0.	0.	3200
98.0	43.4	1	0.	0.	3200
98.0	49.6	1	0.	0.	3200
98.0	55.8	1	0.	0.	3200
98.0	62.0	1	0.	0.	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
106.0	.2	3300	4.359E-06	8.283E-06	3200
106.0	.4	3050	4.029E-06	7.655E-06	3200
106.0	.8	3350	4.425E-06	8.408E-06	3200
106.0	1.5	2400	3.170E-06	6.024E-06	3200
106.0	1.6	2850	3.765E-06	7.153E-06	3200
106.0	3.1	4300	5.680E-06	1.079E-05	3200
106.0	6.2	3550	4.690E-06	8.910E-06	3200
106.0	9.3	3700	4.888E-06	9.287E-06	3200
106.0	12.4	3600	4.756E-06	9.036E-06	3200
106.0	15.5	2900	3.831E-06	7.279E-06	3200
106.0	18.6	2600	3.435E-06	6.526E-06	3200
106.0	21.7	2000	2.642E-06	5.020E-06	3200
106.0	24.8	2050	2.708E-06	5.145E-06	3200
106.0	31.0	680	8.983E-07	1.707E-06	3200
106.0	37.2	240	3.170E-07	6.024E-07	3200
106.0	43.4	90	1.189E-07	2.259E-07	3200
106.0	49.6	1	0.	0.	3200
106.0	55.8	1	0.	0.	3200
106.0	62.0	1	0.	0.	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
114.0	.2	1750	2.312E-06	4.392E-06	3200
114.0	.4	1750	2.312E-06	4.392E-06	3200
114.0	.8	1580	2.087E-06	3.966E-06	3200
114.0	1.5	2350	3.104E-06	5.898E-06	3200
114.0	1.6	1660	2.193E-06	4.166E-06	3200
114.0	3.1	1650	2.180E-06	4.141E-06	3200
114.0	6.2	2040	2.695E-06	5.120E-06	3200
114.0	9.3	2230	2.946E-06	5.597E-06	3200
114.0	12.4	1830	2.417E-06	4.593E-06	3200
114.0	15.5	1760	2.325E-06	4.417E-06	3200
114.0	18.6	1700	2.246E-06	4.267E-06	3200
114.0	21.7	1650	2.180E-06	4.141E-06	3200
114.0	24.8	1350	1.783E-06	3.388E-06	3200
114.0	31.0	1050	1.387E-06	2.635E-06	3200
114.0	37.2	740	9.775E-07	1.857E-06	3200
114.0	43.4	570	7.530E-07	1.431E-06	3200
114.0	49.6	240	3.170E-07	6.024E-07	3200
114.0	55.8	80	1.057E-07	2.008E-07	3200
114.0	62.0	50	6.605E-08	1.255E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
122.0	.2	0	0.	0.	3200	N 122.0	.2	1	0.	0.	3200
122.0	.4	0	0.	0.	3200						
122.0	.8	0	0.	0.	3200						
122.0	1.5	0	0.	0.	3200						
122.0	1.6	0	0.	0.	3200						
122.0	3.1	17	2.309E-08	4.386E-08	3200						
122.0	6.2	22	2.950E-08	5.605E-08	3200						
122.0	9.3	25	3.305E-08	6.280E-08	3200						
122.0	12.4	16	2.131E-08	4.049E-08	3200						
122.0	15.5	1	2.125E-09	4.038E-09	3200						
122.0	18.6	7	9.309E-09	1.769E-08	3200						
122.0	21.7	11	1.510E-08	2.869E-08	3200						
122.0	24.8	8	1.176E-08	2.234E-08	3200						
122.0	31.0	2	3.764E-09	7.151E-09	3200						
122.0	37.2	1	1.807E-09	3.433E-09	3200						
122.0	43.4	13	1.735E-08	3.297E-08	3200						
122.0	49.6	5	6.755E-09	1.283E-08	3200						
122.0	55.8	6	8.331E-09	1.583E-08	3200						
M 122.0	62.0	0	0.	0.	3200						

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
130.0	.2	0	0.	0.	3200	N 130.0	.2	1	0.	0.	3200
130.0	.4	0	0.	0.	3200						
130.0	.8	4	5.387E-09	1.023E-08	3200						
130.0	1.5	0	0.	0.	3200						
130.0	1.6	0	0.	0.	3200						
130.0	3.1	19	2.565E-08	4.874E-08	3200						
130.0	6.2	19	2.565E-08	4.874E-08	3200						
130.0	9.3	6	8.570E-09	1.628E-08	3200						
130.0	12.4	6	8.974E-09	1.705E-08	3200						
130.0	15.5	0	0.	0.	3200						
130.0	18.6	0	0.	0.	3200						
130.0	21.7	0	0.	0.	3200						
130.0	24.8	0	0.	0.	3200						
130.0	31.0	12	1.694E-08	3.218E-08	3200						
130.0	37.2	12	1.626E-08	3.090E-08	3200						
130.0	43.4	6	8.676E-09	1.648E-08	3200						
130.0	49.6	0	0.	0.	3200						
130.0	55.8	0	0.	0.	3200						
130.0	62.0	0	0.	0.	3200						

GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M.  
 CROSSWIND DISTRIBUTIONS ON ALL ARCS.  
 VERTICAL DISTRIBUTION OF TRACERS ON ALL 20 TOWERS; PEAK VALUES MEASURED, BUT TRUNCATED AT TOP IN ALL CASES.

200M ARC EXTRAPOLATED AT BOTH EDGES. FLAT OR MULTI-MODE  
 INVALID SAMPLES ABOVE 4.2M LEVEL ON TOWER AT 122 DEG ON 800M ARC.

TEST 03 JULY 13, 1967 0400 TU 0430 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
 200M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 2M

TEST 03 JULY 13, 1967 0400 TU 0430 PST  
 FLUORESCCEIN RELEASE FROM ELEVATION OF 2M  
 200M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
E 58.0	28	2.713E-08	7.053E-08	200
E 60.0	155	1.492E-07	3.879E-07	200
E 62.0	706	6.782E-07	1.763E-06	200
E 64.0	2402	2.306E-06	5.995E-06	200
E 66.0	8480	8.139E-06	2.116E-05	200
B 68.0	27764	2.665E-05	6.928E-05	200
70.0	69638	6.683E-05	1.738E-04	200
72.0	86364	8.288E-05	2.155E-04	200
74.0	83348	7.999E-05	2.080E-04	200
76.0	77262	7.415E-05	1.928E-04	200
78.0	75114	7.209E-05	1.874E-04	200
80.0	73367	7.041E-05	1.831E-04	200
82.0	74254	7.126E-05	1.853E-04	200
84.0	55105	5.288E-05	1.375E-04	200
86.0	15877	4.979E-05	1.294E-04	200
88.0	52708	5.058E-05	1.315E-04	200
90.0	63348	6.080E-05	1.581E-04	200
92.0	78308	7.515E-05	1.954E-04	200
94.0	56103	5.384E-05	1.400E-04	200
96.0	52454	5.034E-05	1.309E-04	200
98.0	30425	2.920E-05	7.592E-05	200
100.0	35781	3.434E-05	8.928E-05	200
102.0	25449	2.442E-05	6.350E-05	200
104.0	20932	2.009E-05	5.223E-05	200
106.0	16794	1.612E-05	4.190E-05	200
108.0	17811	1.709E-05	4.444E-05	200
110.0	11284	1.083E-05	2.816E-05	200
112.0	14199	1.363E-05	3.543E-05	200
114.0	21011	2.016E-05	5.243E-05	200
116.0	16616	1.595E-05	4.146E-05	200
118.0	20403	1.958E-05	5.091E-05	200
120.0	15081	1.447E-05	3.763E-05	200
122.0	16076	1.543E-05	4.011E-05	200
124.0	20593	1.976E-05	5.138E-05	200
126.0	13647	1.310E-05	3.405E-05	200
128.0	23007	2.208E-05	5.741E-05	200
130.0	20401	1.958E-05	5.090E-05	200
132.0	32550	3.124E-05	8.122E-05	200
134.0	19914	1.911E-05	4.969E-05	200
136.0	10597	1.017E-05	2.644E-05	200
138.0	14741	1.415E-05	3.678E-05	200
140.0	18379	1.764E-05	4.586E-05	200
142.0	19954	1.915E-05	4.979E-05	200
144.0	20596	1.977E-05	5.139E-05	200
146.0	16245	1.559E-05	4.054E-05	200
148.0	17698	1.699E-05	4.416E-05	200
S 150.0	19298	1.852E-05	4.815E-05	200
152.0	20892	2.005E-05	5.213E-05	200
154.0	22654	2.174E-05	5.653E-05	200
156.0	24336	2.336E-05	6.072E-05	200
B 158.0	32050	3.076E-05	7.997E-05	200
E 160.0	33921	3.255E-05	8.464E-05	200
E 162.0	33921	3.255E-05	8.464E-05	200
E 164.0	32508	3.120E-05	8.111E-05	200
E 166.0	29681	2.849E-05	7.406E-05	200
E 168.0	25441	2.442E-05	6.348E-05	200
E 170.0	19222	1.845E-05	4.796E-05	200
E 172.0	11872	1.139E-05	2.962E-05	200
E 174.0	5936	5.697E-06	1.481E-05	200
E 176.0	2544	2.442E-06	6.348E-06	200
E 178.0	932	8.952E-07	2.328E-06	200
E 180.0	367	3.527E-07	9.170E-07	200
E 182.0	113	1.085E-07	2.821E-07	200
E 184.0	22	2.170E-08	5.643E-08	200

CROSSWIND INTEGRATED= 1.216E-02 SEC/SQ.M 3.161E-02 1/M

AZIMUTH DEGRFES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
E 58.0	11	1.066E-08	2.772E-08	200
E 60.0	122	1.173E-07	3.049E-07	200
E 62.0	51	4.975E-08	1.293E-07	200
E 64.0	3173	3.045E-06	7.918E-06	200
E 66.0	13281	1.275E-05	3.314E-05	200
B 68.0	34968	3.356E-05	8.725E-05	200
70.0	64738	6.213E-05	1.615E-04	200
72.0	78134	7.499E-05	1.950E-04	200
74.0	109392	1.050E-04	2.730E-04	200
76.0	82599	7.927E-05	2.061E-04	200
78.0	120556	1.157E-04	3.008E-04	200
80.0	89298	8.570E-05	2.228E-04	200
82.0	98228	9.427E-05	2.451E-04	200
84.0	84832	8.141E-05	2.117E-04	200
86.0	51341	4.927E-05	1.281E-04	200
88.0	78134	7.499E-05	1.950E-04	200
90.0	89298	8.570E-05	2.228E-04	200
92.0	113858	1.093E-04	2.841E-04	200
94.0	71436	6.856E-05	1.782E-04	200
96.0	91530	8.744E-05	2.284E-04	200
98.0	51341	4.927E-05	1.281E-04	200
100.0	43743	4.196E-05	1.091E-04	200
102.0	34768	3.337E-05	8.675E-05	200
104.0	33424	3.208E-05	8.340E-05	200
106.0	17250	1.556E-05	4.304E-05	200
108.0	20205	1.939E-05	5.042E-05	200
110.0	13285	1.275E-05	3.315E-05	200
112.0	18650	1.790E-05	4.654E-05	200
114.0	24371	2.387E-05	6.206E-05	200
116.0	19428	1.864E-05	4.848E-05	200
118.0	27981	2.685E-05	6.982E-05	200
120.0	24371	2.387E-05	6.206E-05	200
122.0	20983	2.014E-05	5.236E-05	200
124.0	22538	2.183E-05	5.624E-05	200
126.0	15151	1.454E-05	3.781E-05	200
128.0	29536	2.835E-05	7.371E-05	200
130.0	19428	1.864E-05	4.848E-05	200
132.0	31391	2.984E-05	7.758E-05	200
134.0	17017	1.533E-05	4.246E-05	200
136.0	18183	1.745E-05	4.537E-05	200
138.0	16317	1.566E-05	4.072E-05	200
140.0	11419	1.095E-05	2.849E-05	200
142.0	17017	1.633E-05	4.246E-05	200
144.0	21760	2.088E-05	5.430E-05	200
146.0	21760	2.088E-05	5.430E-05	200
148.0	23315	2.238E-05	5.818E-05	200
S 150.0	20983	2.014E-05	5.236E-05	200
152.0	15351	1.521E-05	3.955E-05	200
154.0	24671	2.387E-05	6.206E-05	200
156.0	21760	2.088E-05	5.430E-05	200
P 158.0	28758	2.760E-05	7.176E-05	200
E 160.0	31091	2.984E-05	7.758E-05	200
E 162.0	31091	2.984E-05	7.758E-05	200
E 164.0	26426	2.535E-05	6.594E-05	200
E 166.0	18650	1.790E-05	4.654E-05	200
E 168.0	13207	1.268E-05	3.296E-05	200
F 170.0	7453	7.153E-06	1.860E-05	200
E 172.0	4098	3.934E-06	1.023E-05	200
E 174.0	1840	1.786E-06	4.592E-06	200
E 176.0	607	5.829E-07	1.515E-06	200
E 178.0	132	1.276E-07	3.317E-07	200
E 180.0	30	2.948E-08	7.668E-08	200
E 182.0	5	4.975E-09	1.293E-08	200

CROSSWIND INTEGRATED= 1.432E-02 SEC/SQ.M 3.723E-02 1/M

TEST D3 JULY 13, 1967 0400 TO 0430 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
 800M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
76.0	0	0.	0.	800
78.0	158	1.522E-07	3.957E-07	800
80.0	596	5.721E-07	1.487E-06	800
82.0	3308	3.175E-06	8.256E-06	800
84.0	7385	7.088E-06	1.843E-05	800
86.0	12690	1.218E-05	3.167E-05	800
88.0	10656	1.023E-05	2.659E-05	800
90.0	8063	7.739E-06	2.012E-05	800
92.0	6220	5.970E-06	1.552E-05	800
94.0	3814	3.661E-06	9.518E-06	800
96.0	3770	3.619E-06	9.409E-06	800
98.0	2586	2.483E-06	6.455E-06	800
100.0	2411	2.315E-06	6.018E-06	800
102.0	1462	1.404E-06	3.650E-06	800
104.0	910	8.739E-07	2.272E-06	800
106.0	1725	1.656E-06	4.305E-06	800
108.0	1791	1.719E-06	4.469E-06	800
110.0	2597	2.493E-06	6.482E-06	800
112.0	3511	3.369E-06	8.761E-06	800
114.0	3784	3.632E-06	9.443E-06	800
116.0	4459	4.280E-06	1.113E-05	800
118.0	5036	4.834E-06	1.257E-05	800
120.0	4662	4.474E-06	1.163E-05	800
122.0	5318	5.104E-06	1.327E-05	800
124.0	5099	4.894E-06	1.272E-05	800
126.0	4511	4.330E-06	1.126E-05	800
128.0	4536	4.354E-06	1.132E-05	800
130.0	4872	4.676E-06	1.216E-05	800
132.0	5425	5.206E-06	1.354E-05	800
134.0	5493	5.272E-06	1.371E-05	800
136.0	5277	5.065E-06	1.317E-05	800
138.0	4186	4.018E-06	1.045E-05	800
140.0	4809	4.616E-06	1.200E-05	800
142.0	4443	4.264E-06	1.109E-05	800
144.0	5873	5.637E-06	1.466E-05	800
146.0	6860	6.584E-06	1.712E-05	800
148.0	5561	5.338E-06	1.388E-05	800
150.0	6860	6.584E-06	1.712E-05	800
152.0	5403	5.185E-06	1.348E-05	800
154.0	4793	4.600E-06	1.196E-05	800
156.0	3647	3.501E-06	9.102E-06	800
158.0	1402	1.346E-06	3.500E-06	800
B 160.0	412	3.963E-07	1.030E-06	800
E 162.0	120	1.155E-07	3.002E-07	800
F 164.0	32	3.149E-08	8.188E-08	800
G 166.0	5	5.248E-09	1.365E-08	800

CROSSWIND INTEGRATED= 5.000E-03 SEC/SQ.M  
 1.300E-02 1/M

TEST D3 JULY 13, 1967 0400 TO 0430 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 2M  
 800M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
76.0	0	0.	0.	800
78.0	52	5.053E-08	1.314E-07	800
80.0	1421	1.365E-06	3.548E-06	800
82.0	4953	4.754E-06	1.236E-05	800
84.0	11722	1.125E-05	2.925E-05	800
86.0	15558	1.493E-05	3.882E-05	800
88.0	14430	1.385E-05	3.601E-05	800
90.0	10369	9.951E-06	2.587E-05	800
92.0	7435	7.136E-06	1.855E-05	800
94.0	5479	5.259E-06	1.367E-05	800
96.0	4577	4.393E-06	1.142E-05	800
E 98.0	1780	1.708E-06	4.442E-06	800
E 100.0	1278	1.227E-06	3.191E-06	800
102.0	7711	2.607E-06	6.765E-06	800
104.0	1314	1.262E-06	3.290E-06	800
106.0	2639	2.533E-06	6.587E-06	800
108.0	2890	2.774E-06	7.212E-06	800
110.0	3033	2.911E-06	7.570E-06	800
112.0	4577	4.393E-06	1.142E-05	800
114.0	6944	6.703E-06	1.743E-05	800
116.0	5856	5.620E-06	1.461E-05	800
118.0	5780	5.548E-06	1.442E-05	800
120.0	7661	7.352E-06	1.912E-05	800
122.0	9466	9.085E-06	2.362E-05	800
124.0	8112	7.786E-06	2.024E-05	800
126.0	16235	1.558E-05	4.051E-05	800
128.0	4953	4.754E-06	1.236E-05	800
130.0	5555	5.331E-06	1.386E-05	800
132.0	6984	6.703E-06	1.743E-05	800
134.0	6533	6.270E-06	1.630E-05	800
136.0	5254	5.043E-06	1.311E-05	800
138.0	5103	4.898E-06	1.274E-05	800
140.0	4126	3.967E-06	1.030E-05	800
142.0	5931	5.692E-06	1.480E-05	800
144.0	7886	7.569E-06	1.968E-05	800
146.0	7661	7.352E-06	1.912E-05	800
E 148.0	7661	7.352E-06	1.912E-05	800
150.0	7886	7.569E-06	1.968E-05	800
152.0	6984	6.703E-06	1.743E-05	800
154.0	6081	5.837E-06	1.518E-05	800
156.0	4502	4.321E-06	1.123E-05	800
158.0	1708	1.640E-06	4.263E-06	800
B 160.0	333	3.197E-07	8.311E-07	800
E 162.0	103	9.968E-08	2.592E-07	800
E 164.0	14	1.375E-08	3.575E-08	800
F 166.0	0	0.	0.	800

CROSSWIND INTEGRATED= 6.743E-03 SEC/SQ.M  
 1.753E-02 1/M

TEST D3 JULY 13, 1967 0400 TO 0430 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
 1600M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
83.0	0	0.	0.	1600
84.0	29	2.822E-08	7.336E-08	1600
85.0	21	2.069E-08	5.380E-08	1600
86.0	58	5.643E-08	1.467E-07	1600
87.0	25	2.445E-08	6.358E-08	1600
88.0	56	5.455E-08	1.418E-07	1600
89.0	74	7.148E-08	1.859E-07	1600
90.0	121	1.166E-07	3.032E-07	1600
91.0	889	8.540E-07	2.220E-06	1600
92.0	1340	1.287E-06	3.345E-06	1600
93.0	2606	2.502E-06	6.505E-06	1600
94.0	3751	3.600E-06	9.361E-06	1600
95.0	4196	4.027E-06	1.047E-05	1600
96.0	4582	4.398E-06	1.143E-05	1600
97.0	4386	4.210E-06	1.095E-05	1600
98.0	3265	3.134E-06	8.148E-06	1600
99.0	3965	3.805E-06	9.894E-06	1600
100.0	3669	3.521E-06	9.156E-06	1600
101.0	3783	3.631E-06	9.439E-06	1600
102.0	3579	3.435E-06	8.931E-06	1600
103.0	3496	3.356E-06	8.725E-06	1600
104.0	3541	3.399E-06	8.838E-06	1600
105.0	4392	4.216E-06	1.096E-05	1600
106.0	4051	3.888E-06	1.011E-05	1600
107.0	3063	2.940E-06	7.644E-06	1600
108.0	4682	4.494E-06	1.168E-05	1600
109.0	4557	4.374E-06	1.137E-05	1600
110.0	4394	4.217E-06	1.097E-05	1600
111.0	5213	5.004E-06	1.301E-05	1600
112.0	4674	4.486E-06	1.166E-05	1600
113.0	3343	3.209E-06	8.344E-06	1600
114.0	2785	2.673E-06	6.950E-06	1600
115.0	3847	3.693E-06	9.601E-06	1600
116.0	3608	3.463E-06	9.004E-06	1600
117.0	3306	3.173E-06	8.251E-06	1600
118.0	2693	2.585E-06	6.720E-06	1600
119.0	2697	2.588E-06	6.730E-06	1600
120.0	2095	2.011E-06	5.228E-06	1600
121.0	1779	1.708E-06	4.441E-06	1600
122.0	1454	1.396E-06	3.629E-06	1600
123.0	1376	1.321E-06	3.433E-06	1600
124.0	1442	1.385E-06	3.600E-06	1600
125.0	1528	1.467E-06	3.815E-06	1600
126.0	1595	1.531E-06	3.981E-06	1600
127.0	1301	1.249E-06	3.248E-06	1600
128.0	2120	2.035E-06	5.292E-06	1600
129.0	1885	1.810E-06	4.705E-06	1600
130.0	2205	2.116E-06	5.502E-06	1600
131.0	2060	1.977E-06	5.140E-06	1600
132.0	2326	2.233E-06	5.806E-06	1600
133.0	2169	2.082E-06	5.414E-06	1600
134.0	2630	2.524E-06	6.564E-06	1600
135.0	2657	2.551E-06	6.632E-06	1600
136.0	2608	2.504E-06	6.510E-06	1600
137.0	2481	2.381E-06	6.192E-06	1600
138.0	2603	2.498E-06	6.495E-06	1600
139.0	2436	2.338E-06	6.079E-06	1600
140.0	2897	2.780E-06	7.229E-06	1600
141.0	3367	3.232E-06	8.403E-06	1600
142.0	2975	2.856E-06	7.424E-06	1600
143.0	3392	3.256E-06	8.466E-06	1600
144.0	3012	2.891E-06	7.517E-06	1600
145.0	3134	3.008E-06	7.821E-06	1600
146.0	2632	2.526E-06	6.568E-06	1600
147.0	2473	2.374E-06	6.172E-06	1600
148.0	1864	1.789E-06	4.651E-06	1600
149.0	2136	2.050E-06	5.331E-06	1600
150.0	1270	1.219E-06	3.169E-06	1600
151.0	1031	9.895E-07	2.573E-06	1600
152.0	758	7.280E-07	1.893E-06	1600
153.0	482	4.628E-07	1.203E-06	1600
E 154.0	248	2.389E-07	6.211E-07	1600
E 155.0	150	1.448E-07	3.766E-07	1600
E 156.0	90	8.653E-08	2.250E-07	1600
E 157.0	47	4.515E-08	1.174E-07	1600
E 158.0	21	2.069E-08	5.380E-08	1600
E 159.0	7	7.524E-09	1.956E-08	1600
E 160.0	3	3.762E-09	9.782E-09	1600

CROSSWIND INTEGRATED= 4.757E-03 1.237E-02  
 SEC/SQ.M 1/M

TEST D3 JULY 13, 1967 0400 TO 0430 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 2M  
 1600M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
83.0	1	1.360E-09	3.536E-09	1600
84.0	21	2.040E-08	5.334E-08	1600
85.0	8	8.387E-09	2.181E-08	1600
86.0	5	5.440E-09	1.415E-08	1600
87.0	14	1.424E-08	3.713E-08	1600
88.0	51	4.987E-08	1.297E-07	1600
89.0	26	2.516E-08	6.542E-08	1500
90.0	226	2.176E-07	5.658E-07	1600
91.0	545	5.236E-07	1.361E-06	1600
92.0	2000	1.920E-06	4.992E-06	1600
93.0	7820	2.707E-06	7.037E-06	1600
94.0	4159	3.997E-06	1.038E-05	1600
95.0	4754	4.563E-06	1.196E-05	1500
96.0	5052	4.849E-06	1.261E-05	1600
97.0	5647	5.420E-06	1.409E-05	1600
98.0	7731	7.419E-06	1.929E-05	1600
99.0	5052	4.849E-06	1.261E-05	1600
100.0	4457	4.278E-06	1.112E-05	1600
101.0	3861	3.706E-06	9.636E-06	1500
102.0	2572	2.469E-06	6.418E-06	1600
103.0	3266	3.135E-06	8.151E-06	1600
104.0	3167	3.040E-06	7.904E-06	1600
105.0	4010	3.849E-06	1.001E-05	1600
106.0	4606	4.420E-06	1.149E-05	1600
107.0	2919	2.802E-06	7.285E-06	1500
108.0	4903	4.706E-06	1.224E-05	1600
109.0	4903	4.706E-06	1.224E-05	1600
110.0	4457	4.278E-06	1.112E-05	1600
111.0	4159	3.997E-06	1.038E-05	1600
112.0	4308	4.135E-06	1.075E-05	1600
113.0	5052	4.849E-06	1.261E-05	1500
114.0	3713	3.564E-06	9.265E-06	1600
115.0	3117	2.992E-06	7.788E-06	1600
116.0	3564	3.421E-06	8.894E-06	1600
117.0	4308	4.135E-06	1.075E-05	1600
118.0	2621	2.516E-06	6.542E-06	1600
119.0	2423	2.326E-06	6.047E-06	1500
120.0	2125	2.040E-06	5.334E-06	1600
121.0	1877	1.802E-06	4.686E-06	1600
122.0	1551	1.489E-06	3.872E-06	1600
123.0	1339	1.285E-06	3.342E-06	1600
124.0	1528	1.467E-06	3.813E-06	1600
125.0	1811	1.739E-06	4.521E-06	1500
126.0	2071	1.988E-06	5.169E-06	1600
127.0	1410	1.353E-06	3.519E-06	1600
128.0	2213	2.124E-06	5.523E-06	1600
129.0	1835	1.761E-06	4.580E-06	1600
130.0	1764	1.693E-06	4.433E-06	1500
131.0	1858	1.784E-06	4.638E-06	1500
132.0	2307	2.215E-06	5.758E-06	1600
133.0	1740	1.671E-06	4.344E-06	1600
134.0	2071	1.988E-06	5.169E-06	1600
135.0	2820	2.707E-06	7.037E-06	1600
136.0	2307	2.215E-06	5.758E-06	1500
137.0	2320	2.270E-06	7.037E-06	1600
138.0	2770	2.659E-06	6.913E-06	1600
139.0	2373	2.278E-06	5.923E-06	1600
140.0	2621	2.516E-06	6.542E-06	1600
141.0	2919	2.802E-06	7.285E-06	1600
142.0	2572	2.469E-06	6.418E-06	1500
143.0	3266	3.135E-06	7.656E-06	1600
144.0	2373	2.278E-06	5.923E-06	1600
145.0	2671	2.564E-06	6.666E-06	1600
146.0	2671	2.564E-06	6.666E-06	1600
147.0	2260	2.169E-06	5.640E-06	1600
148.0	2024	1.943E-06	5.051E-06	1500
149.0	1929	1.852E-06	4.815E-06	1600
150.0	1524	1.467E-06	3.813E-06	1600
151.0	1433	1.376E-06	3.578E-06	1500
152.0	866	8.319E-07	2.163E-06	1600
153.0	311	2.992E-07	7.788E-07	1600
E 154.0	148	1.428E-07	3.713E-07	1600
E 155.0	61	5.894E-08	1.532E-07	1600
E 156.0	30	2.947E-08	7.642E-08	1500
E 157.0	14	1.360E-08	3.536E-08	1600
E 158.0	5	4.987E-09	1.297E-08	1600
E 159.0	2	2.267E-09	5.894E-09	1600

CROSSWIND INTEGRATED= 4.944E-03 1.287E-02  
 SEC/SQ.M 1/M



TEST D3 JULY 13, 1967 0400 TO 0430 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
 3200M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 2M

TEST U3 JULY 13, 1967 0400 TO 0430 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 2M  
 3200M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 2M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
 DEGREES GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS  
 X10E+6

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
 DEGREES GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS  
 X10E+6

90.0	3	3.727E-09	9.690E-09	3200
91.0	22	2.143E-08	5.572E-08	3200
92.0	102	9.876E-08	2.568E-07	3200
93.0	332	3.187E-07	8.285E-07	3200
94.0	972	9.336E-07	2.427E-06	3200
95.0	1746	1.676E-06	4.358E-06	3200
96.0	1966	1.887E-06	4.906E-06	3200
97.0	1737	1.668E-06	4.336E-06	3200
98.0	1171	1.125E-06	2.924E-06	3200
99.0	942	9.047E-07	2.352E-06	3200
100.0	1131	1.085E-06	2.822E-06	3200
101.0	1136	1.091E-06	2.837E-06	3200
102.0	969	9.308E-07	2.420E-06	3200
103.0	626	6.010E-07	1.563E-06	3200
104.0	597	5.730E-07	1.490E-06	3200
105.0	692	6.643E-07	1.727E-06	3200
106.0	776	7.454E-07	1.938E-06	3200
107.0	896	8.600E-07	2.236E-06	3200
108.0	913	8.768E-07	2.280E-06	3200
109.0	624	5.991E-07	1.558E-06	3200
110.0	621	5.963E-07	1.550E-06	3200
111.0	855	8.209E-07	2.134E-06	3200
112.0	678	6.513E-07	1.693E-06	3200
113.0	1116	1.072E-06	2.786E-06	3200
114.0	950	9.122E-07	2.372E-06	3200
115.0	1366	1.311E-06	3.408E-06	3200
116.0	1203	1.155E-06	3.004E-06	3200
117.0	1203	1.155E-06	3.004E-06	3200
118.0	1031	9.895E-07	2.573E-06	3200
119.0	1480	1.421E-06	3.694E-06	3200
120.0	1281	1.230E-06	3.198E-06	3200
121.0	1264	1.213E-06	3.154E-06	3200
122.0	585	5.618E-07	1.461E-06	3200
123.0	1039	9.979E-07	2.595E-06	3200
124.0	962	9.234E-07	2.401E-06	3200
125.0	823	7.901E-07	2.054E-06	3200
126.0	1130	1.085E-06	2.820E-06	3200
127.0	909	8.730E-07	2.270E-06	3200
128.0	796	7.640E-07	1.986E-06	3200
129.0	706	6.783E-07	1.764E-06	3200
130.0	322	3.093E-07	8.043E-07	3200
131.0	852	8.181E-07	2.127E-06	3200
132.0	1007	9.671E-07	2.515E-06	3200
133.0	779	7.482E-07	1.945E-06	3200
134.0	887	8.516E-07	2.214E-06	3200
135.0	820	7.873E-07	2.047E-06	3200
136.0	1053	1.011E-06	2.628E-06	3200
137.0	1098	1.054E-06	2.740E-06	3200
138.0	1040	9.988E-07	2.597E-06	3200
139.0	793	7.612E-07	1.979E-06	3200
140.0	1045	1.003E-06	2.609E-06	3200
141.0	790	7.584E-07	1.972E-06	3200
142.0	647	6.215E-07	1.616E-06	3200
143.0	486	4.668E-07	1.214E-06	3200
144.0	322	3.093E-07	8.043E-07	3200
145.0	196	1.882E-07	4.894E-07	3200
146.0	199	1.910E-07	4.966E-07	3200
147.0	53	5.125E-08	1.332E-07	3200
148.0	10	1.025E-08	2.665E-08	3200
149.0	14	1.398E-08	3.634E-08	3200
150.0	12	1.211E-08	3.149E-08	3200
151.0	13	1.304E-08	3.392E-08	3200
152.0	6	6.522E-09	1.696E-08	3200
153.0	0	0.	0.	3200
154.0	0	0.	0.	3200
155.0	7	7.454E-09	1.938E-08	3200
156.0	0	0.	0.	3200

89.0	0	0.	0.	3200
90.0	1	1.230E-09	3.199E-09	3200
91.0	13	1.261E-08	3.278E-08	3200
92.0	112	1.076E-07	2.799E-07	3200
93.0	306	2.942E-07	7.650E-07	3200
94.0	648	6.223E-07	1.618E-06	3200
95.0	1656	1.590E-06	4.134E-06	3200
96.0	1611	1.547E-06	4.022E-06	3200
97.0	1410	1.353E-06	3.518E-06	3200
98.0	1387	1.332E-06	3.462E-06	3200
99.0	826	7.935E-07	2.063E-06	3200
100.0	1006	9.657E-07	2.511E-06	3200
101.0	1140	1.095E-06	2.847E-06	3200
102.0	961	9.227E-07	2.399E-06	3200
103.0	714	6.858E-07	1.783E-06	3200
104.0	647	6.213E-07	1.615E-06	3200
105.0	624	5.997E-07	1.559E-06	3200
106.0	804	7.720E-07	2.007E-06	3200
107.0	1028	9.872E-07	2.567E-06	3200
108.0	737	7.074E-07	1.839E-06	3200
109.0	647	6.213E-07	1.615E-06	3200
110.0	624	5.997E-07	1.559E-06	3200
111.0	781	7.504E-07	1.951E-06	3200
112.0	624	5.997E-07	1.559E-06	3200
113.0	849	8.150E-07	2.119E-06	3200
114.0	916	8.796E-07	2.287E-06	3200
115.0	1185	1.138E-06	2.954E-06	3200
116.0	737	7.074E-07	1.839E-06	3200
117.0	781	7.504E-07	1.951E-06	3200
118.0	849	8.150E-07	2.119E-06	3200
119.0	1028	9.872E-07	2.567E-06	3200
120.0	737	7.074E-07	1.839E-06	3200
121.0	1208	1.159E-06	3.015E-06	3200
122.0	883	8.478E-07	2.204E-06	3200
123.0	680	6.530E-07	1.678E-06	3200
124.0	627	6.018E-07	1.565E-06	3200
125.0	659	6.325E-07	1.645E-06	3200
126.0	915	8.786E-07	2.284E-06	3200
127.0	712	6.838E-07	1.778E-06	3200
128.0	616	5.915E-07	1.538E-06	3200
129.0	595	5.710E-07	1.485E-06	3200
130.0	530	5.095E-07	1.325E-06	3200
131.0	488	4.685E-07	1.218E-06	3200
132.0	723	6.940E-07	1.805E-06	3200
133.0	926	8.888E-07	2.311E-06	3200
134.0	541	5.198E-07	1.351E-06	3200
135.0	712	6.838E-07	1.778E-06	3200
136.0	744	7.145E-07	1.858E-06	3200
137.0	659	6.325E-07	1.645E-06	3200
138.0	936	8.991E-07	2.338E-06	3200
139.0	680	6.530E-07	1.698E-06	3200
140.0	776	7.453E-07	1.938E-06	3200
141.0	659	6.325E-07	1.645E-06	3200
142.0	327	3.147E-07	8.183E-07	3200
143.0	562	5.403E-07	1.405E-06	3200
144.0	249	2.399E-07	6.237E-07	3200
145.0	150	1.445E-07	3.758E-07	3200
146.0	102	9.842E-08	2.559E-07	3200
147.0	28	2.788E-08	7.197E-08	3200
148.0	14	1.353E-08	3.518E-08	3200
149.0	5	5.536E-09	1.434E-08	3200
150.0	8	7.689E-09	1.999E-08	3200
151.0	5	4.818E-09	1.253E-08	3200
152.0	3	2.973E-09	7.730E-09	3200
153.0	1	1.538E-09	3.998E-09	3200

CROSSWIND INTEGRATED= 2.259E-03 SEC/SQ.M 5.873E-03 1/M

CROSSWIND INTEGRATED= 2.671E-03 SEC/SQ.M 6.945E-03 1/M

TOWER DATA FOLLOW....

TEST D3 JULY 13, 1967 0400 TO 0430 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
200M ARC U= 2.6 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM.M X10E+6	F/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS	
4	98.0	.3	4111	3.946E-06	1.026E-05	
4	98.0	.7	4227	4.058E-06	1.055E-05	
98.0	1.4	4614	4.428E-06	1.151E-05	200	
98.0	1.5	30425	2.920E-05	7.592E-05	200	
98.0	2.7	41703	4.002E-05	1.041E-04	200	
98.0	4.1	51845	4.976E-05	1.294E-04	200	
98.0	5.4	52257	5.015E-05	1.304E-04	200	
E	98.0	6.8	46315	4.445E-05	1.156E-04	200
98.0	8.1	46042	4.419E-05	1.149E-04	200	
98.0	9.5	41258	3.960E-05	1.029E-04	200	
98.0	10.8	37178	3.568E-05	9.277E-05	200	
98.0	13.5	24109	2.314E-05	6.016E-05	200	
98.0	16.2	21437	2.057E-05	5.349E-05	200	
98.0	18.9	18972	1.821E-05	4.734E-05	200	
98.0	21.6	15021	1.442E-05	3.748E-05	200	
98.0	24.3	14167	1.360E-05	3.535E-05	200	
98.0	27.0	10972	1.053E-05	2.738E-05	200	

TOWER DATA FOLLOW....

TEST D3 JULY 13, 1967 0400 TO 0430 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 2M  
200M ARC U= 2.6 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM.M X10E+6	F/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
4	98.0	.3	17404	1.670E-05	4.343E-05
4	98.0	.7	13831	1.377E-05	3.451E-05
4	98.0	1.4	14724	1.413E-05	3.674E-05
98.0	1.5	51341	4.927E-05	1.281E-04	200
98.0	2.7	82599	7.927E-05	2.061E-04	200
98.0	4.1	95996	9.213E-05	2.395E-04	200
98.0	5.4	66970	6.427E-05	1.671E-04	200
Z	98.0	6.8	31991	3.070E-05	7.982E-05
98.0	8.1	80367	7.713E-05	2.005E-04	200
98.0	9.5	32735	3.142E-05	8.168E-05	200
98.0	10.8	25793	2.475E-05	6.436E-05	200
98.0	13.5	34768	3.337E-05	8.675E-05	200
98.0	16.2	22053	2.116E-05	5.503E-05	200
98.0	18.9	25419	2.439E-05	6.343E-05	200
98.0	21.6	10834	1.040E-05	2.703E-05	200
98.0	24.3	30280	2.906E-05	7.556E-05	200
98.0	27.0	25793	2.475E-05	6.436E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM.M X10E+6	F/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
106.0	.3	7307	7.013E-06	1.823E-05	200
106.0	.7	5865	5.629E-06	1.464E-05	200
106.0	1.4	3610	3.465E-06	9.008E-06	200
106.0	1.5	16794	1.612E-05	4.190E-05	200
106.0	2.7	15713	1.508E-05	3.921E-05	200
106.0	4.1	18327	1.759E-05	4.573E-05	200
106.0	5.4	17505	1.680E-05	4.368E-05	200
106.0	6.8	11494	1.103E-05	2.868E-05	200
106.0	8.1	17704	1.699E-05	4.418E-05	200
106.0	9.5	15249	1.463E-05	3.805E-05	200
106.0	10.8	19707	1.891E-05	4.917E-05	200
106.0	13.5	15713	1.508E-05	3.921E-05	200
106.0	16.2	13641	1.309E-05	3.404E-05	200
106.0	18.9	13163	1.263E-05	3.285E-05	200
106.0	21.6	12918	1.240E-05	3.223E-05	200
106.0	24.3	11260	1.081E-05	2.810E-05	200
106.0	27.0	6778	6.505E-06	1.691E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM.M X10E+6	F/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
106.0	.3	6598	6.332E-06	1.646E-05	200
106.0	.7	7920	7.601E-06	1.976E-05	200
106.0	1.4	4809	4.616E-06	1.200E-05	200
106.0	1.5	17250	1.656E-05	4.304E-05	200
106.0	2.7	16317	1.566E-05	4.072E-05	200
106.0	4.1	17017	1.633E-05	4.246E-05	200
106.0	5.4	16084	1.544E-05	4.013E-05	200
106.0	6.8	13751	1.320E-05	3.431E-05	200
106.0	8.1	27203	2.611E-05	6.788E-05	200
106.0	9.5	18650	1.790E-05	4.654E-05	200
106.0	10.8	17484	1.678E-05	4.363E-05	200
106.0	13.5	16084	1.544E-05	4.013E-05	200
106.0	16.2	15617	1.499E-05	3.897E-05	200
106.0	18.9	34701	3.282E-05	8.534E-05	200
106.0	21.6	15151	1.454E-05	3.781E-05	200
106.0	24.3	40422	3.879E-05	1.009E-04	200
106.0	27.0	9786	9.392E-06	2.442E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM.M X10E+6	F/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
114.0	.3	5277	5.065E-06	1.317E-05	200
114.0	.7	6163	5.915E-06	1.538E-05	200
114.0	1.4	5900	5.663E-06	1.472E-05	200
114.0	1.5	21011	2.016E-05	5.243E-05	200
114.0	2.7	19075	1.831E-05	4.760E-05	200
114.0	4.1	22659	2.175E-05	5.654E-05	200
114.0	5.4	19308	1.853E-05	4.818E-05	200
114.0	6.8	18305	1.757E-05	4.567E-05	200
114.0	8.1	23316	2.238E-05	5.818E-05	200
114.0	9.5	33194	3.186E-05	8.283E-05	200
114.0	10.8	31360	3.010E-05	7.825E-05	200
114.0	13.5	27207	2.611E-05	6.789E-05	200
114.0	16.2	30381	2.916E-05	7.581E-05	200
114.0	18.9	18368	1.763E-05	4.583E-05	200
114.0	21.6	13260	1.273E-05	3.309E-05	200
114.0	24.3	6283	6.031E-06	1.568E-05	200
114.0	27.0	3500	3.360E-06	8.736E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM.M X10E+6	F/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
114.0	.3	5356	5.138E-06	1.336E-05	200
114.0	.7	6442	6.183E-06	1.608E-05	200
114.0	1.4	5276	5.064E-06	1.317E-05	200
114.0	1.5	24871	2.387E-05	6.206E-05	200
114.0	2.7	19350	1.857E-05	4.828E-05	200
114.0	4.1	23315	2.238E-05	5.818E-05	200
114.0	5.4	17017	1.633E-05	4.246E-05	200
114.0	6.8	19503	1.879E-05	4.887E-05	200
114.0	8.1	26426	2.536E-05	6.594E-05	200
114.0	9.5	38134	3.660E-05	9.515E-05	200
114.0	10.8	40377	3.875E-05	1.008E-04	200
114.0	13.5	38134	3.660E-05	9.515E-05	200
114.0	16.2	23923	2.246E-05	5.969E-05	200
114.0	18.9	24871	2.387E-05	6.206E-05	200
114.0	21.6	21760	2.088E-05	5.430E-05	200
114.0	24.3	6986	6.705E-06	1.743E-05	200
114.0	27.0	5509	5.288E-06	1.375E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/Q SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/Q SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
122.0	.3	350	3.360E-07	8.737E-07	200	122.0	.3	522	5.010E-07	1.303E-06	200
122.0	.7	3250	3.120E-06	8.111E-06	200	122.0	.7	6209	5.959E-06	1.549E-05	200
122.0	1.4	4007	3.846E-06	1.000E-05	200	122.0	1.4	11885	1.141E-05	2.966E-05	200
122.0	1.5	16076	1.543E-05	4.011E-05	200	122.0	1.5	20983	2.014E-05	5.236E-05	200
122.0	2.7	16433	1.577E-05	4.101E-05	200	122.0	2.7	0	0.	0.	200
122.0	4.1	18591	1.784E-05	4.639E-05	200	122.0	4.1	20963	2.014E-05	5.236E-05	200
122.0	5.4	19888	1.909E-05	4.962E-05	200	122.0	5.4	14918	1.432E-05	3.722E-05	200
122.0	6.8	13522	1.298E-05	3.374E-05	200	122.0	6.8	12352	1.185E-05	3.082E-05	200
122.0	8.1	15207	1.459E-05	3.795E-05	200	122.0	8.1	24871	2.387E-05	6.206E-05	200
122.0	9.5	14006	1.344E-05	3.495E-05	200	122.0	9.5	12352	1.185E-05	3.082E-05	200
122.0	10.8	16783	1.611E-05	4.188E-05	200	122.0	10.8	15851	1.571E-05	3.955E-05	200
122.0	13.5	12443	1.194E-05	3.105E-05	200	122.0	13.5	19428	1.864E-05	4.848E-05	200
122.0	16.2	9882	9.484E-06	2.466E-05	200	122.0	16.2	11885	1.141E-05	2.966E-05	200
122.0	18.9	9684	9.294E-06	2.416E-05	200	122.0	18.9	20205	1.939E-05	5.042E-05	200
122.0	21.6	9903	9.505E-06	2.471E-05	200	122.0	21.6	10252	9.840E-06	2.558E-05	200
122.0	24.3	6242	5.991E-06	1.558E-05	200	122.0	24.3	12818	1.230E-05	3.199E-05	200
122.0	27.0	5880	5.644E-06	1.467E-05	200	122.0	27.0	13518	1.297E-05	3.373E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/Q SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/Q SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
130.0	.3	7992	7.670E-06	1.994E-05	200	130.0	.3	13985	1.342E-05	3.490E-05	200
130.0	.7	6025	5.783E-06	1.503E-05	200	130.0	.7	8853	8.496E-06	2.209E-05	200
130.0	1.4	6322	6.067E-06	1.577E-05	200	130.0	1.4	8853	8.496E-06	2.209E-05	200
130.0	1.5	20401	1.958E-05	5.090E-05	200	130.0	1.5	19428	1.864E-05	4.848E-05	200
130.0	2.7	18817	1.806E-05	4.695E-05	200	130.0	2.7	34979	3.357E-05	8.728E-05	200
130.0	4.1	16819	1.614E-05	4.197E-05	200	130.0	4.1	19428	1.864E-05	4.848E-05	200
130.0	5.4	32703	3.138E-05	8.160E-05	200	130.0	5.4	47109	4.571E-05	1.175E-04	200
130.0	6.8	27844	2.672E-05	6.948E-05	200	130.0	6.8	34768	3.337E-05	8.675E-05	200
130.0	8.1	34902	3.350E-05	8.709E-05	200	130.0	8.1	38134	3.660E-05	9.515E-05	200
130.0	9.5	24433	2.345E-05	6.097E-05	200	130.0	9.5	28758	2.760E-05	7.176E-05	200
130.0	10.8	22045	2.116E-05	5.501E-05	200	130.0	10.8	26426	2.536E-05	6.594E-05	200
130.0	13.5	21258	2.040E-05	5.304E-05	200	130.0	13.5	38867	3.730E-05	9.698E-05	200
130.0	16.2	21263	2.041E-05	5.306E-05	200	130.0	16.2	34201	3.282E-05	8.534E-05	200
130.0	18.9	15734	1.510E-05	3.926E-05	200	130.0	18.9	23315	2.238E-05	5.818E-05	200
130.0	21.6	14107	1.354E-05	3.520E-05	200	130.0	21.6	23315	2.238E-05	5.818E-05	200
130.0	24.3	9573	9.187E-06	2.389E-05	200	130.0	24.3	13985	1.342E-05	3.490E-05	200
130.0	27.0	6009	5.768E-06	1.500E-05	200	130.0	27.0	8619	8.272E-06	2.151E-05	200

TOWER DATA FOLLOW....

TEST D3 JULY 13, 1967 0400 TO 0430 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
800M ARC U = 2.6 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/Q SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
98.0	.3	618	5.937E-07	1.544E-06	800
98.0	.5	2306	2.213E-06	5.755E-06	800
98.0	1.1	2563	2.460E-06	6.397E-06	800
98.0	1.5	2586	2.483E-06	6.455E-06	800
98.0	2.1	432	4.146E-07	1.078E-06	800
98.0	4.2	3230	3.100E-06	8.061E-06	800
98.0	6.3	2807	2.694E-06	7.005E-06	800
98.0	8.4	2853	2.738E-06	7.120E-06	800
98.0	10.5	3101	2.977E-06	7.740E-06	800
98.0	12.6	3357	3.222E-06	8.378E-06	800
98.0	14.7	1667	1.600E-06	4.160E-06	800
98.0	16.8	2559	2.456E-06	6.386E-06	800
98.0	21.0	4449	4.271E-06	1.110E-05	800
D 98.0	25.2	2812	2.699E-06	7.017E-06	800
D 98.0	29.4	2420	2.323E-06	6.041E-06	800
98.0	33.6	3203	3.074E-06	7.994E-06	800
98.0	37.8	3607	3.462E-06	9.001E-06	800
98.0	42.0	2735	2.625E-06	6.825E-06	800

TOWER DATA FOLLOW....

TEST D3 JULY 13, 1967 0400 TO 0430 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 2M  
800M ARC U = 2.6 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/Q SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
98.0	.3	386	3.712E-07	9.652E-07	800
98.0	.5	1923	1.846E-06	4.799E-06	800
98.0	1.1	2496	2.396E-06	6.229E-06	800
98.0	1.5	179	1.719E-07	4.469E-07	800
98.0	2.1	569	5.465E-07	1.421E-06	800
98.0	4.2	3141	3.015E-06	7.838E-06	800
98.0	6.3	3825	3.671E-06	9.545E-06	800
98.0	8.4	2997	2.877E-06	7.480E-06	800
98.0	10.5	4351	4.176E-06	1.086E-05	800
98.0	12.6	3750	3.599E-06	9.357E-06	800
98.0	14.7	2424	2.327E-06	6.050E-06	800
98.0	16.8	3073	2.949E-06	7.668E-06	800
98.0	21.0	5705	5.476E-06	1.424E-05	800
D 98.0	25.2	1636	1.571E-06	4.083E-06	800
D 98.0	29.4	1433	1.376E-06	3.577E-06	800
98.0	33.6	3524	3.382E-06	8.794E-06	800
98.0	37.8	9240	8.868E-06	2.306E-05	800
98.0	42.0	4577	4.393E-06	1.142E-05	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
106.0	.3	1760	1.689E-06	4.392E-06	800	106.0	.3	2209	2.171E-06	5.514E-06	800
106.0	.5	1402	1.346E-06	3.500E-06	800	106.0	.5	1744	1.674E-06	4.352E-06	800
106.0	1.1	1560	1.498E-06	3.895E-06	800	106.0	1.1	1744	1.674E-06	4.352E-06	800
106.0	1.5	1725	1.656E-06	4.305E-06	800	106.0	1.5	2639	2.533E-06	6.587E-06	800
106.0	2.1	475	4.566E-07	1.187E-06	800	106.0	2.1	397	3.815E-07	9.920E-07	800
106.0	4.2	3329	3.195E-06	8.308E-06	800	106.0	4.2	2697	2.588E-06	6.730E-06	800
106.0	6.3	242	2.326E-07	6.048E-07	800	106.0	6.3	128	1.237E-07	3.217E-07	800
106.0	8.4	285	2.741E-07	7.126E-07	800	106.0	8.4	89	8.593E-08	2.234E-07	800
106.0	10.5	206	1.982E-07	5.152E-07	800	106.0	10.5	2	2.062E-09	5.362E-09	800
106.0	12.6	147	1.416E-07	3.681E-07	800	106.0	12.6	17	1.650E-08	4.290E-08	800
106.0	14.7	501	4.808E-07	1.250E-06	800	106.0	14.7	0	0.	0.	800
106.0	16.8	121	1.161E-07	3.019E-07	800	106.0	16.8	41	4.072E-08	1.066E-07	800
106.0	21.0	315	3.024E-07	7.862E-07	800	106.0	21.0	0	6.875E-10	1.787E-09	800
106.0	25.2	193	1.859E-07	4.833E-07	800	106.0	25.2	1	1.375E-09	3.575E-09	800
106.0	29.4	249	2.396E-07	6.230E-07	800	106.0	29.4	0	0.	0.	800
106.0	33.6	124	1.199E-07	3.117E-07	800	106.0	33.6	0	0.	0.	800
106.0	37.8	97	9.313E-08	2.422E-07	800	106.0	37.8	11	1.134E-08	2.949E-08	800
106.0	42.0	94	9.045E-08	2.352E-07	800	106.0	42.0	0	0.	0.	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
114.0	.3	4484	4.304E-06	1.119E-05	800	114.0	.3	5028	4.826E-06	1.255E-05	800
114.0	.5	3025	2.904E-06	7.550E-06	800	114.0	.5	3900	3.743E-06	9.732E-06	800
114.0	1.1	4070	3.906E-06	1.016E-05	800	114.0	1.1	5254	5.043E-06	1.311E-05	800
114.0	1.5	3784	3.632E-06	9.443E-06	800	114.0	1.5	6984	6.703E-06	1.743E-05	800
114.0	2.1	792	7.610E-07	1.979E-06	800	114.0	2.1	1565	1.502E-06	3.905E-06	800
114.0	4.2	3342	3.207E-06	8.339E-06	800	114.0	4.2	4126	3.960E-06	1.030E-05	800
114.0	6.3	3014	2.893E-06	7.522E-06	800	114.0	6.3	4803	4.609E-06	1.198E-05	800
114.0	8.4	3368	3.232E-06	8.404E-06	800	114.0	8.4	3900	3.743E-06	9.732E-06	800
114.0	10.5	3421	3.283E-06	8.537E-06	800	114.0	10.5	6307	6.053E-06	1.574E-05	800
114.0	12.6	2886	2.770E-06	7.203E-06	800	114.0	12.6	2922	2.805E-06	7.293E-06	800
114.0	14.7	1830	1.757E-06	4.568E-06	800	114.0	14.7	2711	2.602E-06	6.765E-06	800
114.0	16.8	1922	1.845E-06	4.797E-06	800	114.0	16.8	2496	2.396E-06	6.229E-06	800
114.0	21.0	2137	2.051E-06	5.332E-06	800	114.0	21.0	2424	2.327E-06	6.050E-06	800
114.0	25.2	1565	1.502E-06	3.906E-06	800	114.0	25.2	1887	1.811E-06	4.710E-06	800
114.0	29.4	1159	1.113E-06	2.893E-06	800	114.0	29.4	2281	2.190E-06	5.693E-06	800
114.0	33.6	2229	2.140E-06	5.563E-06	800	114.0	33.6	1869	1.794E-06	4.665E-06	800
114.0	37.8	1214	1.165E-06	3.029E-06	800	114.0	37.8	2209	2.121E-06	5.514E-06	800
114.0	42.0	1612	1.547E-06	4.023E-06	800	114.0	42.0	2066	1.983E-06	5.157E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
122.0	.3	5479	5.258E-06	1.367E-05	800	122.0	.3	12851	1.233E-05	3.207E-05	800
122.0	.5	5272	5.060E-06	1.316E-05	800	122.0	.5	3674	3.577E-06	9.169E-06	800
122.0	1.1	6363	6.107E-06	1.588E-05	800	122.0	1.1	5254	5.043E-06	1.311E-05	800
122.0	1.5	5318	5.104E-06	1.327E-05	800	122.0	1.5	9465	9.085E-06	2.362E-05	800
122.0	2.1	1402	1.346E-06	3.500E-06	800	122.0	2.1	1421	1.365E-06	3.548E-06	800
122.0	4.2	6699	6.429E-06	1.672E-05	800	122.0	4.2	8112	7.786E-06	2.024E-05	800
P 122.0	6.3	401	3.852E-07	1.002E-06	800	F 122.0	6.3	25	2.475E-08	6.435E-08	800
P 122.0	8.4	356	3.426E-07	8.908E-07	800	P 122.0	8.4	7	7.562E-09	1.966E-08	800
P 122.0	10.5	352	3.387E-07	8.806E-07	800	F 122.0	10.5	118	1.134E-07	2.949E-07	800
P 122.0	12.6	201	1.932E-07	5.024E-07	800	F 122.0	12.6	15	1.444E-08	3.754E-08	800
P 122.0	14.7	426	4.089E-07	1.063E-06	800	P 122.0	14.7	20	1.959E-08	5.094E-08	800
P 122.0	16.8	490	4.711E-07	1.225E-06	800	P 122.0	16.8	0	0.	0.	800
P 122.0	21.0	111	1.074E-07	2.792E-07	800	F 122.0	21.0	0	0.	0.	800
P 122.0	25.2	253	2.436E-07	6.333E-07	800	F 122.0	25.2	0	0.	0.	800
P 122.0	29.4	245	2.355E-07	6.122E-07	800	F 122.0	29.4	0	0.	0.	800
P 122.0	33.6	232	2.235E-07	5.812E-07	800	P 122.0	33.6	0	0.	0.	800
P 122.0	37.8	51	4.954E-08	1.288E-07	800	F 122.0	37.8	0	0.	0.	800
P 122.0	42.0	121	1.168E-07	3.038E-07	800	F 122.0	42.0	0	0.	0.	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
130.0	.3	1438	1.381E-06	3.591E-06	800	130.0	.3	1457	1.399E-06	3.637E-06	800
130.0	.5	2573	2.470E-06	6.422E-06	800	130.0	.5	1529	1.468E-06	3.816E-06	800
130.0	1.1	5893	5.656E-06	1.470E-05	800	130.0	1.1	4878	4.682E-06	1.217E-05	800
130.0	1.5	4872	4.676E-06	1.216E-05	800	130.0	1.5	5555	5.331E-06	1.386E-05	800
130.0	2.1	1643	1.577E-06	4.101E-06	800	130.0	2.1	1529	1.468E-06	3.816E-06	800
130.0	4.2	4929	4.731E-06	1.230E-05	800	130.0	4.2	3223	3.094E-06	8.043E-06	800
130.0	6.3	4665	4.478E-06	1.164E-05	800	130.0	6.3	3524	3.382E-06	8.794E-06	800
130.0	8.4	3025	2.904E-06	7.550E-06	800	130.0	8.4	2245	2.155E-06	5.604E-06	800
130.0	10.5	2624	2.518E-06	6.548E-06	800	130.0	10.5	2922	2.805E-06	7.293E-06	800
130.0	12.6	2542	2.440E-06	6.344E-06	800	130.0	12.6	2847	2.733E-06	7.105E-06	800
130.0	14.7	1887	1.811E-06	4.709E-06	800	130.0	14.7	1851	1.777E-06	4.620E-06	800
130.0	16.8	1664	1.597E-06	4.153E-06	800	130.0	16.8	1887	1.811E-06	4.710E-06	800
130.0	21.0	1525	1.464E-06	3.806E-06	800	130.0	21.0	1027	9.865E-07	2.565E-06	800
130.0	25.2	1540	1.479E-06	3.845E-06	800	130.0	25.2	1135	1.090E-06	2.833E-06	800
130.0	29.4	1348	1.294E-06	3.364E-06	800	130.0	29.4	1457	1.399E-06	3.637E-06	800
130.0	33.6	1128	1.083E-06	2.816E-06	800	130.0	33.6	1457	1.399E-06	3.637E-06	800
130.0	37.8	1170	1.124E-06	2.921E-06	800	130.0	37.8	1242	1.193E-06	3.101E-06	800
130.0	42.0	1091	1.048E-06	2.724E-06	800	130.0	42.0	1027	9.865E-07	2.565E-06	800

TOWER DATA FOLLOW....

TEST 03 JULY 13, 1967 0400 TO 0430 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
1600M ARC U= 2.6 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
98.0	.2	3678	3.530E-06	9.179E-06	1600
98.0	.4	3999	3.838E-06	9.980E-06	1600
98.0	.8	3649	3.503E-06	9.107E-06	1600
98.0	1.5	3265	3.134E-06	8.148E-06	1600
98.0	1.6	2265	2.175E-06	5.654E-06	1600
98.0	3.1	4837	4.643E-06	1.207E-05	1600
98.0	6.2	3787	3.635E-06	9.451E-06	1600
98.0	9.3	3367	3.232E-06	8.402E-06	1600
98.0	12.4	2093	2.009E-06	5.223E-06	1600
98.0	15.5	1829	1.756E-06	4.566E-06	1600
98.0	18.6	1691	1.623E-06	4.220E-06	1600
98.0	21.7	1952	1.874E-06	4.872E-06	1600
98.0	24.8	2067	1.984E-06	5.159E-06	1600
98.0	31.0	1803	1.731E-06	4.501E-06	1600
98.0	37.2	2029	1.948E-06	5.064E-06	1600
98.0	43.4	1555	1.493E-06	3.881E-06	1600
98.0	49.6	1293	1.242E-06	3.228E-06	1600
98.0	55.8	1135	1.090E-06	2.834E-06	1600
98.0	62.0	872	8.375E-07	2.178E-06	1600

TOWER DATA FOLLOW....

TEST 03 JULY 13, 1967 0400 TO 0430 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 2M  
1600M ARC U= 2.6 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
98.0	.2	3266	3.135E-06	8.151E-06	1600
98.0	.4	3465	3.375E-06	8.646E-06	1600
98.0	.8	3415	3.278E-06	8.522E-06	1600
98.0	1.5	7731	7.419E-06	1.929E-05	1600
98.0	1.6	2423	2.376E-06	6.047E-06	1600
98.0	3.1	4903	4.706E-06	1.224E-05	1600
98.0	6.2	3613	3.468E-06	9.018E-06	1600
98.0	9.3	2274	2.183E-06	5.676E-06	1600
98.0	12.4	1381	1.326E-06	3.448E-06	1600
98.0	15.5	1183	1.136E-06	2.953E-06	1600
98.0	18.6	1580	1.517E-06	3.943E-06	1600
98.0	21.7	4754	4.563E-06	1.186E-05	1600
98.0	24.8	1049	1.007E-06	2.619E-06	1600
98.0	31.0	1629	1.564E-06	4.067E-06	1600
98.0	37.2	1877	1.802E-06	4.686E-06	1600
98.0	43.4	1138	1.093E-06	2.841E-06	1600
98.0	49.6	1599	1.535E-06	3.990E-06	1600
98.0	55.8	1079	1.036E-06	2.693E-06	1600
98.0	62.0	890	8.546E-07	2.222E-06	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
106.0	.2	3378	3.243E-06	8.431E-06	1600
106.0	.4	3999	3.838E-06	9.980E-06	1600
106.0	.8	3895	3.739E-06	9.720E-06	1600
106.0	1.5	4051	3.888E-06	1.011E-05	1600
106.0	1.6	3937	3.779E-06	9.826E-06	1600
106.0	3.1	4161	3.994E-06	1.038E-05	1600
106.0	6.2	2491	2.392E-06	6.218E-06	1600
106.0	9.3	803	7.714E-07	2.006E-06	1600
106.0	12.4	1455	1.397E-06	3.631E-06	1600
106.0	15.5	1225	1.177E-06	3.059E-06	1600
106.0	18.6	1410	1.354E-06	3.520E-06	1600
106.0	21.7	1064	1.072E-06	2.657E-06	1600
106.0	24.8	1102	1.058E-06	2.751E-06	1600
106.0	31.0	1171	1.124E-06	2.923E-06	1600
106.0	37.2	1093	1.050E-06	2.729E-06	1600
106.0	43.4	734	7.050E-07	1.833E-06	1600
106.0	49.6	830	7.975E-07	2.073E-06	1600
106.0	55.8	929	8.917E-07	2.318E-06	1600
106.0	62.0	840	8.063E-07	2.096E-06	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
106.0	.2	3018	2.897E-06	7.532E-06	1600
106.0	.4	2969	2.849E-06	7.409E-06	1600
106.0	.8	3365	3.230E-06	8.399E-06	1600
106.0	1.5	4606	4.420E-06	1.149E-05	1600
106.0	1.6	3217	3.087E-06	8.027E-06	1600
106.0	3.1	2076	1.993E-06	5.181E-06	1600
106.0	6.2	1381	1.326E-06	3.448E-06	1600
106.0	9.3	654	6.279E-07	1.633E-06	1600
106.0	12.4	890	8.546E-07	2.222E-06	1600
106.0	15.5	701	6.733E-07	1.750E-06	1600
106.0	18.6	819	7.866E-07	2.045E-06	1600
106.0	21.7	819	7.866E-07	2.045E-06	1600
106.0	24.8	701	6.733E-07	1.750E-06	1600
106.0	31.0	725	6.959E-07	1.809E-06	1600
106.0	37.2	630	6.053E-07	1.574E-06	1600
106.0	43.4	772	7.413E-07	1.927E-06	1600
106.0	49.6	425	4.080E-07	1.061E-06	1600
106.0	55.8	1150	1.104E-06	2.870E-06	1600
106.0	62.0	819	7.866E-07	2.045E-06	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
114.0	.2	2668	2.561E-06	6.659E-06	1600	114.0	.2	2225	2.135E-06	5.552E-06	1600
114.0	.4	2464	2.365E-06	6.149E-06	1600	114.0	.4	2175	2.088E-06	5.428E-06	1600
114.0	.8	2014	1.933E-06	5.026E-06	1600	114.0	.8	2274	2.183E-06	5.676E-06	1600
114.0	1.5	2785	2.673E-06	6.950E-06	1600	114.0	1.5	3713	3.564E-06	9.265E-06	1600
114.0	1.6	2367	2.272E-06	5.908E-06	1600	114.0	1.6	2373	2.278E-06	5.923E-06	1600
114.0	3.1	4016	3.854E-06	1.002E-05	1600	114.0	3.1	2721	2.611E-06	6.790E-06	1600
114.0	6.2	4081	3.917E-06	1.019E-05	1600	114.0	6.2	2721	2.611E-06	6.790E-06	1600
114.0	9.3	3513	3.372E-06	8.768E-06	1600	114.0	9.3	2770	2.659E-06	6.913E-06	1600
114.0	12.4	3324	3.191E-06	8.296E-06	1600	114.0	12.4	3415	3.278E-06	8.522E-06	1600
114.0	15.5	3258	3.127E-06	8.130E-06	1600	114.0	15.5	2969	2.849E-06	7.409E-06	1600
114.0	18.6	2705	2.596E-06	6.750E-06	1600	114.0	18.6	2770	2.659E-06	6.913E-06	1600
114.0	21.7	3017	2.896E-06	7.529E-06	1600	114.0	21.7	2076	1.993E-06	5.181E-06	1600
114.0	24.8	2479	2.380E-06	6.188E-06	1600	114.0	24.8	1679	1.612E-06	4.191E-06	1600
114.0	31.0	2101	2.017E-06	5.243E-06	1600	114.0	31.0	1877	1.802E-06	4.686E-06	1600
114.0	37.2	1695	1.628E-06	4.232E-06	1600	114.0	37.2	1877	1.802E-06	4.686E-06	1600
114.0	43.4	1445	1.388E-06	3.608E-06	1600	114.0	43.4	1079	1.036E-06	2.693E-06	1600
114.0	49.6	1104	1.060E-06	2.756E-06	1600	114.0	49.6	1150	1.104E-06	2.870E-06	1600
114.0	55.8	833	7.998E-07	2.080E-06	1600	114.0	55.8	1126	1.081E-06	2.811E-06	1600
114.0	62.0	686	6.590E-07	1.713E-06	1600	114.0	62.0	1150	1.104E-06	2.870E-06	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
122.0	.2	1377	1.322E-06	3.437E-06	1600	122.0	.2	1008	9.679E-07	2.517E-06	1600
122.0	.4	1511	1.450E-06	3.771E-06	1600	122.0	.4	1126	1.081E-06	2.811E-06	1600
122.0	.8	1288	1.237E-06	3.216E-06	1600	122.0	.8	1292	1.240E-06	3.224E-06	1600
122.0	1.5	1454	1.396E-06	3.629E-06	1600	122.0	1.5	1551	1.489E-06	3.872E-06	1600
122.0	1.6	1530	1.469E-06	3.820E-06	1600	122.0	1.6	1339	1.285E-06	3.342E-06	1600
122.0	3.1	1364	1.309E-06	3.404E-06	1600	122.0	3.1	1079	1.036E-06	2.693E-06	1600
122.0	6.2	1882	1.806E-06	4.697E-06	1600	122.0	6.2	1197	1.149E-06	2.988E-06	1600
122.0	9.3	1235	1.186E-06	3.084E-06	1600	122.0	9.3	1292	1.240E-06	3.224E-06	1600
122.0	12.4	1401	1.345E-06	3.497E-06	1600	122.0	12.4	1173	1.127E-06	2.929E-06	1600
122.0	15.5	1752	1.682E-06	4.374E-06	1600	122.0	15.5	984	9.453E-07	2.458E-06	1600
122.0	18.6	1284	1.232E-06	3.204E-06	1600	122.0	18.6	961	9.276E-07	2.399E-06	1600
122.0	21.7	1489	1.429E-06	3.717E-06	1600	122.0	21.7	630	6.053E-07	1.574E-06	1600
122.0	24.8	1063	1.020E-06	2.652E-06	1600	122.0	24.8	630	6.053E-07	1.574E-06	1600
122.0	31.0	1050	1.008E-06	2.621E-06	1600	122.0	31.0	583	5.599E-07	1.456E-06	1600
122.0	37.2	866	8.316E-07	2.162E-06	1600	122.0	37.2	439	4.216E-07	1.096E-06	1600
122.0	43.4	737	7.079E-07	1.841E-06	1600	122.0	43.4	725	6.959E-07	1.809E-06	1600
122.0	49.6	419	4.030E-07	1.048E-06	1600	122.0	49.6	311	2.992E-07	7.780E-07	1600
122.0	55.8	531	5.097E-07	1.325E-06	1600	122.0	55.8	283	2.720E-07	7.073E-07	1600
122.0	62.0	273	2.671E-07	6.815E-07	1600	122.0	62.0	184	1.768E-07	4.597E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
130.0	.2	2335	2.241E-06	5.827E-06	1600	130.0	.2	1282	1.231E-06	3.200E-06	1600
130.0	.4	1764	1.694E-06	4.403E-06	1600	130.0	.4	1094	1.050E-06	2.730E-06	1600
130.0	.8	1442	1.385E-06	3.600E-06	1600	130.0	.8	1433	1.376E-06	3.578E-06	1600
130.0	1.5	2205	2.116E-06	5.502E-06	1600	130.0	1.5	1764	1.693E-06	4.403E-06	1600
130.0	1.6	1452	1.394E-06	3.624E-06	1600	130.0	1.6	937	8.999E-07	2.340E-06	1600
130.0	3.1	1650	1.584E-06	4.118E-06	1600	130.0	3.1	796	7.639E-07	1.986E-06	1600
130.0	6.2	1729	1.660E-06	4.315E-06	1600	130.0	6.2	989	9.500E-07	2.470E-06	1600
130.0	9.3	1495	1.436E-06	3.733E-06	1600	130.0	9.3	796	7.639E-07	1.986E-06	1600
130.0	12.4	1283	1.232E-06	3.202E-06	1600	130.0	12.4	517	4.964E-07	1.291E-06	1600
130.0	15.5	1156	1.109E-06	2.885E-06	1600	130.0	15.5	725	6.959E-07	1.809E-06	1600
130.0	18.6	857	8.233E-07	2.141E-06	1600	130.0	18.6	677	6.506E-07	1.692E-06	1600
130.0	21.7	889	8.536E-07	2.219E-06	1600	130.0	21.7	607	5.876E-07	1.515E-06	1600
130.0	24.8	990	9.509E-07	2.472E-06	1600	130.0	24.8	725	6.959E-07	1.809E-06	1600
130.0	31.0	697	6.695E-07	1.741E-06	1600	130.0	31.0	677	6.506E-07	1.692E-06	1600
130.0	37.2	645	6.198E-07	1.612E-06	1600	130.0	37.2	460	4.420E-07	1.149E-06	1600
130.0	43.4	533	5.124E-07	1.332E-06	1600	130.0	43.4	255	2.448E-07	6.365E-07	1600
130.0	49.6	431	4.143E-07	1.077E-06	1600	130.0	49.6	347	3.332E-07	8.664E-07	1600
130.0	55.8	388	3.726E-07	9.689E-07	1600	130.0	55.8	181	1.745E-07	4.538E-07	1600
130.0	62.0	334	3.208E-07	8.340E-07	1600	130.0	62.0	226	2.176E-07	5.658E-07	1600

TOWER DATA FOLLOW....

TEST D3 JULY 13, 1967 0400 TO 0430 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
3200M ARC U= 2.6 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	.2	1315	1.262E-06	3.281E-06	3200
98.0	.4	1417	1.360E-06	3.537E-06	3200
98.0	.8	1359	1.304E-06	3.392E-06	3200
98.0	1.5	1171	1.125E-06	2.924E-06	3200
98.0	1.6	1278	1.227E-06	3.190E-06	3200
98.0	3.1	1687	1.619E-06	4.210E-06	3200
98.0	6.2	1579	1.516E-06	3.941E-06	3200
98.0	9.3	196	1.886E-07	4.902E-07	3200
98.0	12.4	1315	1.263E-06	3.284E-06	3200
98.0	15.5	661	6.350E-07	1.651E-06	3200
98.0	18.6	570	5.479E-07	1.424E-06	3200
98.0	21.7	311	2.988E-07	7.770E-07	3200
98.0	24.8	102	9.872E-08	2.567E-07	3200
98.0	31.0	63	6.137E-08	1.596E-07	3200
98.0	37.2	65	6.315E-08	1.642E-07	3200
98.0	43.4	28	2.716E-08	7.061E-08	3200
98.0	49.6	32	3.139E-08	8.161E-08	3200
98.0	55.8	14	1.348E-08	3.506E-08	3200
98.0	62.0	1	1.523E-09	3.961E-09	3200

TOWER DATA FOLLOW....

TEST D3 JULY 13, 1967 0400 TO 0430 PST  
FLUOROCESCEIN RELEASE FROM ELEVATION OF 2M  
3200M ARC U= 2.6 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	.2	1297	1.246E-06	3.239E-06	3200
98.0	.4	1320	1.267E-06	3.294E-06	3200
98.0	.8	1297	1.246E-06	3.239E-06	3200
98.0	1.5	1387	1.332E-06	3.462E-06	3200
98.0	1.6	1522	1.461E-06	3.798E-06	3200
98.0	3.1	1611	1.547E-06	4.022E-06	3200
98.0	6.2	1432	1.375E-06	3.574E-06	3200
98.0	9.3	157	1.507E-07	3.918E-07	3200
98.0	12.4	849	8.150E-07	2.119E-06	3200
98.0	15.5	781	7.504E-07	1.951E-06	3200
98.0	18.6	509	4.890E-07	1.271E-06	3200
98.0	21.7	295	2.840E-07	7.383E-07	3200
98.0	24.8	147	1.415E-07	3.678E-07	3200
98.0	31.0	50	4.818E-08	1.253E-07	3200
98.0	37.2	50	4.818E-08	1.253E-07	3200
98.0	43.4	54	5.228E-08	1.359E-07	3200
98.0	49.6	14	1.384E-08	3.598E-08	3200
98.0	55.8	6	6.151E-09	1.599E-08	3200
98.0	62.0	20	1.968E-08	5.118E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
3 106.0	.2	471	4.530E-07	1.178E-06	3200
4 106.0	.4	346	3.326E-07	8.648E-07	3200
4 106.0	.8	370	3.559E-07	9.254E-07	3200
E 106.0	1.5	776	7.454E-07	1.938E-06	3200
6 106.0	1.6	100	9.690E-08	2.519E-07	3200
5 106.0	3.1	350	3.364E-07	8.745E-07	3200
106.0	6.2	843	8.097E-07	2.105E-06	3200
106.0	9.3	808	7.755E-07	2.016E-06	3200
106.0	12.4	780	7.489E-07	1.947E-06	3200
106.0	15.5	658	6.324E-07	1.644E-06	3200
106.0	18.6	528	5.070E-07	1.318E-06	3200
106.0	21.7	522	5.016E-07	1.304E-06	3200
106.0	24.8	493	4.732E-07	1.230E-06	3200
106.0	31.0	403	3.869E-07	1.006E-06	3200
106.0	37.2	310	2.979E-07	7.747E-07	3200
106.0	43.4	326	3.132E-07	8.142E-07	3200
106.0	49.6	287	2.759E-07	7.173E-07	3200
106.0	55.8	293	2.816E-07	7.321E-07	3200
106.0	62.0	58	5.636E-08	1.465E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
3 106.0	.2	541	5.198E-07	1.351E-06	3200
4 106.0	.4	659	6.375E-07	1.645E-06	3200
4 106.0	.8	605	5.813E-07	1.511E-06	3200
5 106.0	1.5	804	7.700E-07	2.007E-06	3200
6 106.0	1.6	595	5.710E-07	1.465E-06	3200
5 106.0	3.1	691	6.633E-07	1.725E-06	3200
106.0	6.2	744	7.145E-07	1.858E-06	3200
106.0	9.3	573	5.505E-07	1.431E-06	3200
106.0	12.4	562	5.403E-07	1.405E-06	3200
106.0	15.5	509	4.890E-07	1.271E-06	3200
106.0	18.6	456	4.377E-07	1.136E-06	3200
106.0	21.7	498	4.788E-07	1.245E-06	3200
106.0	24.8	274	2.635E-07	6.850E-07	3200
106.0	31.0	263	2.532E-07	6.584E-07	3200
106.0	37.2	263	2.532E-07	6.584E-07	3200
106.0	43.4	211	2.030E-07	5.278E-07	3200
106.0	49.6	201	1.938E-07	5.038E-07	3200
106.0	55.8	272	2.614E-07	6.797E-07	3200
106.0	62.0	8	7.996E-09	2.079E-08	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
114.0	.2	753	7.230E-07	1.880E-06	3200
114.0	.4	999	9.588E-07	2.493E-06	3200
114.0	.8	656	6.299E-07	1.638E-06	3200
114.0	1.5	950	9.122E-07	2.372E-06	3200
114.0	1.6	919	8.824E-07	2.294E-06	3200
114.0	3.1	1574	1.511E-06	3.929E-06	3200
114.0	6.2	1492	1.432E-06	3.723E-06	3200
114.0	9.3	1867	1.792E-06	4.660E-06	3200
114.0	12.4	1820	1.747E-06	4.542E-06	3200
114.0	15.5	1758	1.687E-06	4.387E-06	3200
114.0	18.6	1648	1.582E-06	4.114E-06	3200
114.0	21.7	1853	1.779E-06	4.625E-06	3200
114.0	24.8	1657	1.590E-06	4.135E-06	3200
114.0	31.0	1230	1.181E-06	3.071E-06	3200
114.0	37.2	1192	1.145E-06	2.976E-06	3200
114.0	43.4	1144	1.098E-06	2.855E-06	3200
114.0	49.6	1035	9.937E-07	2.584E-06	3200
114.0	55.8	586	5.632E-07	1.464E-06	3200
114.0	62.0	522	5.012E-07	1.303E-06	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
114.0	.2	691	6.633E-07	1.725E-06	3200
114.0	.4	1775	1.274E-06	3.183E-06	3200
114.0	.8	808	7.761E-07	2.018E-06	3200
114.0	1.5	915	8.796E-07	2.287E-06	3200
114.0	1.6	979	9.401E-07	2.444E-06	3200
114.0	3.1	1073	1.030E-06	2.679E-06	3200
114.0	6.2	2083	1.999E-06	5.198E-06	3200
114.0	9.3	1253	1.203E-06	3.127E-06	3200
114.0	12.4	1926	1.848E-06	4.806E-06	3200
114.0	15.5	1477	1.418E-06	3.686E-06	3200
114.0	18.6	1634	1.569E-06	4.078E-06	3200
114.0	21.7	1253	1.203E-06	3.127E-06	3200
114.0	24.8	3159	3.032E-06	7.884E-06	3200
114.0	31.0	1454	1.396E-06	3.630E-06	3200
114.0	37.2	1028	9.872E-07	2.567E-06	3200
114.0	43.4	1230	1.181E-06	3.071E-06	3200
114.0	49.6	983	9.442E-07	2.455E-06	3200
114.0	55.8	573	5.505E-07	1.431E-06	3200
114.0	62.0	552	5.300E-07	1.378E-06	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
122.0	.2	776	7.455E-07	1.938E-06	3200	122.0	.2	936	8.991E-07	2.338E-06	3200
122.0	.4	665	6.382E-07	1.659E-06	3200	122.0	.4	797	7.658E-07	1.991E-06	3200
122.0	.8	306	2.944E-07	7.655E-07	3200	122.0	.8	851	8.171E-07	2.124E-06	3200
122.0	1.5	585	5.618E-07	1.461E-06	3200	122.0	1.5	883	8.478E-07	2.204E-06	3200
H 122.0	1.6	470	4.519E-07	1.175E-06	3200	H 122.0	1.6	1454	1.396E-06	3.630E-06	3200
H 122.0	3.1	1070	1.028E-06	2.672E-06	3200	H 122.0	3.1	1163	1.116E-06	2.903E-06	3200
H 122.0	6.2	1418	1.361E-06	3.539E-06	3200	H 122.0	6.2	1275	1.224E-06	3.183E-06	3200
122.0	9.3	1426	1.369E-06	3.559E-06	3200	122.0	9.3	1140	1.095E-06	2.847E-06	3200
122.0	12.4	1410	1.354E-06	3.519E-06	3200	122.0	12.4	938	9.011E-07	2.343E-06	3200
122.0	15.5	1206	1.158E-06	3.011E-06	3200	122.0	15.5	871	8.365E-07	2.175E-06	3200
122.0	18.6	1062	1.020E-06	2.652E-06	3200	122.0	18.6	669	6.428E-07	1.671E-06	3200
122.0	21.7	972	9.330E-07	2.426E-06	3200	122.0	21.7	849	8.150E-07	2.119E-06	3200
122.0	24.8	691	6.635E-07	1.725E-06	3200	122.0	24.8	776	7.453E-07	1.938E-06	3200
122.0	31.0	515	4.945E-07	1.286E-06	3200	122.0	31.0	477	4.583E-07	1.191E-06	3200
122.0	37.2	443	4.260E-07	1.108E-06	3200	122.0	37.2	359	3.455E-07	8.983E-07	3200
122.0	43.4	449	4.311E-07	1.121E-06	3200	122.0	43.4	424	4.070E-07	1.058E-06	3200
122.0	49.6	370	3.560E-07	9.256E-07	3200	122.0	49.6	327	3.147E-07	8.183E-07	3200
122.0	55.8	219	2.110E-07	5.486E-07	3200	122.0	55.8	189	1.815E-07	4.718E-07	3200
122.0	62.0	155	1.493E-07	3.881E-07	3200	122.0	62.0	176	1.692E-07	4.398E-07	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
130.0	.2	529	5.078E-07	1.320E-06	3200	130.0	.2	530	5.095E-07	1.325E-06	3200
130.0	.4	507	4.873E-07	1.267E-06	3200	130.0	.4	424	4.070E-07	1.058E-06	3200
130.0	.8	333	3.196E-07	8.309E-07	3200	130.0	.8	262	2.522E-07	6.557E-07	3200
130.0	1.5	322	3.093E-07	8.043E-07	3200	4 130.0	1.5	530	5.095E-07	1.325E-06	3200
130.0	1.6	213	2.050E-07	5.330E-07	3200	130.0	1.6	562	5.403E-07	1.405E-06	3200
130.0	3.1	602	5.786E-07	1.504E-06	3200	130.0	3.1	712	6.838E-07	1.778E-06	3200
130.0	6.2	980	9.411E-07	2.447E-06	3200	130.0	6.2	1230	1.184E-06	3.071E-06	3200
130.0	9.3	907	8.707E-07	2.264E-06	3200	130.0	9.3	781	7.504E-07	1.951E-06	3200
130.0	12.4	865	8.307E-07	2.160E-06	3200	130.0	12.4	647	6.213E-07	1.615E-06	3200
130.0	15.5	782	7.506E-07	1.952E-06	3200	130.0	15.5	616	5.915E-07	1.538E-06	3200
130.0	18.6	793	7.613E-07	1.979E-06	3200	130.0	18.6	509	4.890E-07	1.271E-06	3200
130.0	21.7	613	5.888E-07	1.531E-06	3200	130.0	21.7	584	5.608E-07	1.458E-06	3200
130.0	24.8	711	6.831E-07	1.776E-06	3200	130.0	24.8	573	5.505E-07	1.431E-06	3200
130.0	31.0	556	5.345E-07	1.390E-06	3200	130.0	31.0	424	4.070E-07	1.058E-06	3200
130.0	37.2	369	3.549E-07	9.227E-07	3200	130.0	37.2	338	3.250E-07	8.449E-07	3200
130.0	43.4	482	4.634E-07	1.205E-06	3200	130.0	43.4	306	2.942E-07	7.650E-07	3200
130.0	49.6	265	2.552E-07	6.636E-07	3200	130.0	49.6	306	2.942E-07	7.650E-07	3200
130.0	55.8	360	3.458E-07	8.991E-07	3200	130.0	55.8	240	2.307E-07	5.997E-07	3200
130.0	62.0	253	2.437E-07	6.337E-07	3200	130.0	62.0	243	2.337E-07	6.077E-07	3200



GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. ALL GROUND LEVEL SAMPLING TRUNCATED SIGNIFICANTLY ON NORTH.  
 TEST TERMINATED AFTER 16 MINUTES BECAUSE SURFACE WIND SPEED DROPPED TO CALM.  
 TRACER ON MOST TOWERS, BUT FREQUENTLY LIGHT AND SPOTTY.

TEST D4 AUGUST 8, 1967 0405 TO 0421 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
 200M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
8 68.0	12791	2.799E-05	3.919E-05	200
70.0	11509	2.519E-05	3.526E-05	200
72.0	14191	3.105E-05	4.348E-05	200
74.0	11577	2.533E-05	3.547E-05	200
76.0	11336	2.481E-05	3.473E-05	200
78.0	24117	5.277E-05	7.388E-05	200
80.0	36681	8.027E-05	1.124E-04	200
82.0	53988	1.181E-04	1.654E-04	200
84.0	95514	2.090E-04	2.926E-04	200
86.0	138912	3.040E-04	4.256E-04	200
88.0	170216	3.725E-04	5.214E-04	200
90.0	124916	2.733E-04	3.827E-04	200
92.0	66905	1.464E-04	2.050E-04	200
4 94.0	22209	4.860E-05	6.804E-05	200
5 96.0	4683	1.025E-05	1.435E-05	200
98.0	3588	7.851E-06	1.099E-05	200
100.0	1586	3.472E-06	4.861E-06	200
102.0	909	1.989E-06	2.785E-06	200
104.0	346	7.591E-07	1.063E-06	200
106.0	369	8.083E-07	1.132E-06	200
108.0	0	0.	0.	200
110.0	0	0.	0.	200

CROSSWIND INTEGRATED= 1.232E-02 SEC/SQ.M  
 1.725E-02 1/M

TEST D4 AUGUST 8, 1967 0405 TO 0421 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 2M  
 200M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
8 68.0	16789	3.674E-05	5.144E-05	200
70.0	15390	3.368E-05	4.715E-05	200
72.0	22543	4.933E-05	6.906E-05	200
74.0	17023	3.725E-05	5.215E-05	200
76.0	17489	3.827E-05	5.358E-05	200
78.0	29912	6.545E-05	9.164E-05	200
80.0	51602	1.124E-04	1.581E-04	200
82.0	205679	4.501E-04	6.301E-04	200
84.0	290249	6.351E-04	8.892E-04	200
86.0	439097	9.608E-04	1.345E-03	200
88.0	394443	8.631E-04	1.200E-03	200
90.0	200940	4.397E-04	6.156E-04	200
92.0	179501	3.928E-04	5.499E-04	200
4 94.0	46648	1.021E-04	1.429E-04	200
5 96.0	14223	3.112E-05	4.357E-05	200
98.0	4115	9.006E-06	1.261E-05	200
100.0	1845	4.039E-06	5.655E-06	200
102.0	186	4.092E-07	5.728E-07	200
104.0	52	1.142E-07	1.599E-07	200
106.0	109	2.390E-07	3.346E-07	200
1 108.0	19	4.294E-08	6.012E-08	200
1 110.0	25	5.591E-08	7.827E-08	200

CROSSWIND INTEGRATED= 2.976E-02 SEC/SQ.M  
 4.166E-02 1/M

TEST D4 AUGUST 8, 1967 0405 TO 0421 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
 800M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
8 70.0	5633	1.233E-05	1.726E-05	800
72.0	4129	9.036E-06	1.265E-05	800
74.0	4527	9.907E-06	1.387E-05	800
76.0	5064	1.108E-05	1.552E-05	800
78.0	4319	9.451E-06	1.323E-05	800
80.0	2423	5.304E-06	7.425E-06	800
82.0	3076	6.731E-06	9.424E-06	800
84.0	2178	4.766E-06	6.673E-06	800
86.0	2510	5.494E-06	7.691E-06	800
88.0	1301	2.849E-06	3.989E-06	800
90.0	341	7.479E-07	1.047E-06	800
92.0	354	7.751E-07	1.085E-06	800
94.0	198	4.352E-07	6.092E-07	800
96.0	139	3.060E-07	4.284E-07	800
98.0	257	5.643E-07	7.901E-07	800
100.0	77	1.700E-07	2.380E-07	800
102.0	0	0.	0.	800
104.0	71	1.564E-07	2.189E-07	800
106.0	12	2.720E-08	3.808E-08	800
108.0	0	0.	0.	800

CROSSWIND INTEGRATED= 2.238E-03 SEC/SQ.M  
 3.133E-03 1/M

TEST D4 AUGUST 8, 1967 0405 TO 0421 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 2M  
 800M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
8 70.0	6011	1.316E-05	1.842E-05	800
72.0	5034	1.102E-05	1.542E-05	800
74.0	4432	9.699E-06	1.358E-05	800
76.0	5563	1.217E-05	1.703E-05	800
78.0	6764	1.480E-05	2.072E-05	800
80.0	3078	6.736E-06	9.431E-06	800
82.0	3830	8.382E-06	1.173E-05	800
84.0	3604	7.888E-06	1.104E-05	800
86.0	2627	5.749E-06	8.044E-06	800
88.0	2107	4.612E-06	6.457E-06	800
90.0	1176	2.575E-06	3.604E-06	800
92.0	832	1.822E-06	2.551E-06	800
94.0	316	6.936E-07	9.711E-07	800
96.0	145	3.174E-07	4.444E-07	800
98.0	256	5.604E-07	7.845E-07	800
100.0	170	3.723E-07	5.212E-07	800
102.0	17	2.919E-08	5.486E-08	800
104.0	1	2.586E-09	3.621E-09	800
106.0	25	5.643E-08	7.900E-08	800
108.0	0	1.176E-09	1.646E-09	800

CROSSWIND INTEGRATED= 2.811E-03 SEC/SQ.M  
 3.935E-03 1/M

TEST D4 AUGUST 8, 1967 0405 TO 0421 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
1600M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
70.0	1410	3.086E-06	4.321E-06	1600
71.0	1356	2.969E-06	4.156E-06	1600
72.0	1223	2.678E-06	3.749E-06	1600
73.0	1902	4.162E-06	5.827E-06	1600
74.0	2443	5.346E-06	7.484E-06	1600
75.0	2668	5.839E-06	8.175E-06	1600
76.0	2550	5.581E-06	7.813E-06	1600
77.0	2299	5.031E-06	7.044E-06	1600
78.0	2378	5.205E-06	7.287E-06	1600
79.0	2260	4.947E-06	6.925E-06	1600
80.0	2155	4.716E-06	6.603E-06	1600
81.0	2662	5.825E-06	8.155E-06	1600
82.0	1919	4.200E-06	5.880E-06	1600
83.0	1983	4.341E-06	6.077E-06	1600
84.0	2254	4.932E-06	6.905E-06	1600
85.0	3765	8.240E-06	1.154E-05	1600
86.0	1245	2.725E-06	3.814E-06	1600
87.0	1820	3.984E-06	5.577E-06	1600
88.0	1373	3.006E-06	4.209E-06	1600
89.0	1092	2.391E-06	3.348E-06	1600
90.0	792	1.733E-06	2.427E-06	1600
91.0	1300	2.847E-06	3.985E-06	1600
92.0	944	2.067E-06	2.894E-06	1600
93.0	463	1.015E-06	1.421E-06	1600
94.0	197	4.322E-07	6.051E-07	1600
95.0	272	5.966E-07	8.352E-07	1600
96.0	55	1.221E-07	1.710E-07	1600
97.0	137	3.006E-07	4.209E-07	1600
98.0	62	1.362E-07	1.907E-07	1600
99.0	40	8.925E-08	1.250E-07	1600
100.0	23	5.167E-08	7.234E-08	1600
101.0	0	0.	0.	1600

CROSSWIND INTEGRATED= 2.753E-03 SEC/SQ.M 3.855E-03 1/M

TEST D4 AUGUST 8, 1967 0405 TO 0421 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
3200M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
71.0	251	5.510E-07	7.714E-07	3200
72.0	240	5.264E-07	7.370E-07	3200
73.0	287	6.290E-07	8.807E-07	3200
74.0	237	5.197E-07	7.276E-07	3200
75.0	314	6.893E-07	9.650E-07	3200
76.0	251	5.510E-07	7.714E-07	3200
77.0	251	5.510E-07	7.714E-07	3200
78.0	258	5.666E-07	7.932E-07	3200
79.0	283	6.201E-07	8.682E-07	3200
80.0	314	6.893E-07	9.650E-07	3200
81.0	335	7.339E-07	1.027E-06	3200
82.0	305	6.692E-07	9.369E-07	3200
83.0	290	6.357E-07	8.900E-07	3200
84.0	318	6.960E-07	9.744E-07	3200
85.0	196	4.305E-07	6.027E-07	3200
86.0	301	6.603E-07	9.244E-07	3200
87.0	241	5.287E-07	7.401E-07	3200
88.0	126	2.766E-07	3.872E-07	3200
89.0	165	3.614E-07	5.059E-07	3200
90.0	86	1.896E-07	2.654E-07	3200
91.0	77	1.695E-07	2.373E-07	3200
92.0	42	9.369E-08	1.312E-07	3200
93.0	33	7.361E-08	1.031E-07	3200
94.0	4	8.923E-09	1.249E-08	3200
95.0	11	2.454E-08	3.435E-08	3200
96.0	8	1.785E-08	2.498E-08	3200
97.0	15	3.346E-08	4.684E-08	3200
98.0	10	2.231E-08	3.123E-08	3200
99.0	12	2.677E-08	3.748E-08	3200
100.0	4	8.923E-09	1.249E-08	3200
101.0	0	0.	0.	3200

CROSSWIND INTEGRATED= 6.453E-04 SEC/SQ.M 9.035E-04 1/M

TEST D4 AUGUST 8, 1967 0405 TO 0421 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 2M  
1600M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
70.0	1508	3.300E-06	4.620E-06	1600
71.0	1720	3.765E-06	5.271E-06	1600
72.0	1697	3.714E-06	5.199E-06	1600
73.0	2027	4.437E-06	6.212E-06	1600
74.0	1980	4.334E-06	6.067E-06	1600
75.0	2724	5.962E-06	8.347E-06	1600
76.0	2327	5.094E-06	7.131E-06	1600
77.0	2575	5.636E-06	7.891E-06	1600
78.0	2625	5.745E-06	8.043E-06	1600
79.0	2278	4.985E-06	6.979E-06	1600
80.0	2774	6.071E-06	8.499E-06	1600
81.0	2675	5.853E-06	8.195E-06	1600
82.0	2179	4.768E-06	6.675E-06	1600
83.0	2129	4.660E-06	6.523E-06	1600
84.0	1681	4.117E-06	5.764E-06	1600
85.0	2030	4.442E-06	6.219E-06	1600
86.0	2145	4.696E-06	6.574E-06	1600
87.0	2027	4.437E-06	6.212E-06	1600
88.0	1791	3.920E-06	5.489E-06	1600
89.0	1201	2.628E-06	3.680E-06	1600
90.0	1413	3.093E-06	4.331E-06	1600
91.0	1059	2.318E-06	3.245E-06	1600
92.0	775	1.698E-06	2.377E-06	1600
93.0	435	9.536E-07	1.335E-06	1600
94.0	492	1.078E-06	1.509E-06	1600
95.0	126	2.765E-07	3.871E-07	1600
96.0	135	2.972E-07	4.161E-07	1600
97.0	37	8.218E-08	1.151E-07	1600
98.0	12	2.739E-08	3.835E-08	1600
99.0	76	1.680E-07	2.352E-07	1600
100.0	0	1.005E-09	1.520E-09	1600
101.0	0	0.	0.	1600
102.0	0	6.202E-10	8.683E-10	1600
103.0	0	0.	0.	1600

CROSSWIND INTEGRATED= 2.864E-03 SEC/SQ.M 4.010E-03 1/M

TEST D4 AUGUST 8, 1967 0405 TO 0421 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 2M  
3200M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
71.0	286	6.276E-07	8.787E-07	3200
72.0	297	6.510E-07	9.114E-07	3200
73.0	318	5.977E-07	9.768E-07	3200
74.0	286	6.276E-07	8.787E-07	3200
75.0	276	6.042E-07	8.459E-07	3200
76.0	241	5.294E-07	7.412E-07	3200
77.0	340	7.445E-07	1.042E-06	3200
78.0	372	8.146E-07	1.140E-06	3200
79.0	129	2.840E-07	3.976E-07	3200
80.0	361	7.912E-07	1.108E-06	3200
81.0	393	8.614E-07	1.206E-06	3200
82.0	276	6.042E-07	8.459E-07	3200
83.0	265	5.809E-07	8.132E-07	3200
84.0	200	4.383E-07	6.136E-07	3200
85.0	238	5.224E-07	7.314E-07	3200
86.0	270	5.925E-07	8.296E-07	3200
87.0	123	2.700E-07	3.780E-07	3200
88.0	161	3.541E-07	4.958E-07	3200
89.0	52	1.157E-07	1.620E-07	3200
90.0	158	3.471E-07	4.860E-07	3200
91.0	129	2.840E-07	3.976E-07	3200
92.0	25	5.540E-08	7.756E-08	3200
93.0	18	4.067E-08	5.694E-08	3200
94.0	11	2.454E-08	3.436E-08	3200
95.0	40	8.766E-08	1.227E-07	3200
96.0	2	5.844E-09	8.181E-09	3200
97.0	16	3.506E-08	4.909E-08	3200
98.0	0	4.909E-10	6.872E-10	3200
99.0	50	1.110E-07	1.554E-07	3200
100.0	9	2.174E-08	3.043E-08	3200
101.0	3	8.181E-09	1.145E-08	3200

CROSSWIND INTEGRATED= 6.553E-04 SEC/SQ.M 9.174E-04 1/M

TOWER DATA FOLLOW....

TEST D4 AUGUST 8, 1967 0405 TO 0421 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
200M ARC U= 1.4 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
98.0	.3	2932	6.418E-06	8.985E-06	200
98.0	.7	5865	1.284E-05	1.797E-05	200
98.0	1.5	3588	7.851E-06	1.099E-05	200
98.0	1.4	2356	5.157E-06	7.220E-06	200
98.0	2.7	7452	1.631E-05	2.283E-05	200
98.0	4.1	10204	2.233E-05	3.126E-05	200
98.0	5.4	11519	2.521E-05	3.529E-05	200
98.0	6.8	4166	9.116E-06	1.276E-05	200
98.0	8.1	11561	2.530E-05	3.542E-05	200
98.0	9.5	16893	3.697E-05	5.175E-05	200
98.0	10.8	18444	4.036E-05	5.651E-05	200
98.0	13.5	24932	5.456E-05	7.638E-05	200
98.0	16.2	31593	6.913E-05	9.678E-05	200
98.0	18.9	25861	5.659E-05	7.923E-05	200
98.0	21.6	29957	6.555E-05	9.177E-05	200
98.0	24.3	8785	1.922E-05	2.691E-05	200
98.0	27.0	22490	4.921E-05	6.890E-05	200

TOWER DATA FOLLOW....

TEST D4 AUGUST 8, 1967 0405 TO 0421 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 2M  
200M ARC U= 1.4 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
98.0	.3	3415	7.474E-06	1.046E-05	200
98.0	.7	4426	9.686E-06	1.356E-05	200
98.0	1.4	3726	8.155E-06	1.142E-05	200
98.0	1.5	4115	9.006E-06	1.261E-05	200
98.0	2.7	6992	1.530E-05	2.142E-05	200
98.0	4.1	9091	1.989E-05	2.785E-05	200
98.0	5.4	11891	2.602E-05	3.643E-05	200
98.0	6.8	7225	1.581E-05	2.214E-05	200
98.0	8.1	12357	2.704E-05	3.786E-05	200
98.0	9.5	20211	4.423E-05	6.192E-05	200
98.0	10.8	20211	4.423E-05	6.192E-05	200
98.0	13.5	26431	5.784E-05	8.097E-05	200
98.0	16.2	33429	7.315E-05	1.024E-04	200
98.0	18.9	26431	5.784E-05	8.097E-05	200
98.0	21.6	29542	6.464E-05	9.050E-05	200
T 98.0	24.3	9325	2.041E-05	2.857E-05	200
98.0	27.0	24876	5.443E-05	7.621E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
E 106.0	.3	70	1.546E-07	2.165E-07	200
E 106.0	.7	176	3.866E-07	5.412E-07	200
106.0	1.5	369	8.083E-07	1.132E-06	200
E 106.0	1.4	353	7.732E-07	1.082E-06	200
E 106.0	2.7	551	1.206E-06	1.689E-06	200
106.0	4.1	402	8.814E-07	1.234E-06	200
106.0	5.4	268	5.876E-07	8.227E-07	200
106.0	6.8	392	8.583E-07	1.202E-06	200
106.0	8.1	194	4.253E-07	5.954E-07	200
106.0	9.5	106	2.320E-07	3.247E-07	200
106.0	10.8	632	1.384E-06	1.938E-06	200
106.0	13.5	628	1.376E-06	1.927E-06	200
106.0	16.2	1088	2.381E-06	3.334E-06	200
106.0	18.9	1872	4.098E-06	5.737E-06	200
106.0	21.6	1459	3.193E-06	4.471E-06	200
106.0	24.3	1427	3.124E-06	4.373E-06	200
106.0	27.0	1084	2.374E-06	3.323E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
I 106.0	.3	0	0.	0.	200
I 106.0	.7	0	0.	0.	200
I 106.0	1.4	0	0.	0.	200
I 106.0	1.5	109	2.390E-07	3.346E-07	200
I 106.0	2.7	0	0.	0.	200
106.0	4.1	0	9.723E-10	1.361E-09	200
106.0	5.4	0	0.	0.	200
106.0	6.8	201	4.416E-07	6.182E-07	200
106.0	8.1	1	2.431E-09	3.403E-09	200
106.0	9.5	209	4.578E-07	6.409E-07	200
106.0	10.8	124	2.714E-07	3.800E-07	200
106.0	13.5	242	5.307E-07	7.430E-07	200
106.0	16.2	794	1.738E-06	2.433E-06	200
106.0	18.9	805	1.762E-06	2.467E-06	200
106.0	21.6	1216	2.662E-06	3.726E-06	200
106.0	24.3	1216	2.662E-06	3.726E-06	200
106.0	27.0	572	1.252E-06	1.753E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
I 114.0	.3	0	0.	0.	200
I 114.0	.7	0	0.	0.	200
I 114.0	1.4	0	0.	0.	200
I 114.0	2.7	477	1.044E-06	1.461E-06	200
114.0	4.1	512	1.121E-06	1.570E-06	200
114.0	5.4	346	7.577E-07	1.061E-06	200
114.0	6.8	310	6.804E-07	9.526E-07	200
114.0	8.1	349	7.655E-07	1.072E-06	200
114.0	9.5	38	8.505E-08	1.191E-07	200
114.0	10.8	141	3.093E-07	4.330E-07	200
114.0	13.5	63	1.392E-07	1.948E-07	200
114.0	16.2	109	2.397E-07	3.356E-07	200
114.0	18.9	45	1.005E-07	1.407E-07	200
114.0	21.6	0	0.	0.	200
114.0	24.3	0	0.	0.	200
114.0	27.0	67	1.469E-07	2.057E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
N 114.0	.3	0	0.	0.	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
122.0	.3	0	0.	0.	200
122.0	.7	0	0.	0.	200
122.0	1.4	0	0.	0.	200
122.0	2.7	0	0.	0.	200
122.0	4.1	614	1.345E-06	1.884E-06	200
122.0	5.4	378	8.273E-07	1.158E-06	200
122.0	6.8	187	4.098E-07	5.737E-07	200
122.0	8.1	342	7.500E-07	1.050E-06	200
122.0	9.5	201	4.407E-07	6.170E-07	200
122.0	10.8	484	1.059E-06	1.483E-06	200
122.0	13.5	378	8.273E-07	1.158E-06	200
122.0	16.2	116	2.552E-07	3.572E-07	200
122.0	18.9	130	2.861E-07	4.005E-07	200
122.0	21.6	0	0.	0.	200
122.0	24.3	8	1.965E-08	2.751E-08	200
122.0	27.0	0	0.	0.	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
N 122.0	.3	0	0.	0.	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
130.0	.3	0	0.	0.	200
130.0	.7	21	4.639E-08	6.495E-08	200
130.0	1.4	0	0.	0.	200
130.0	2.7	385	8.428E-07	1.180E-06	200
130.0	4.1	381	8.351E-07	1.169E-06	200
130.0	5.4	812	1.778E-06	2.490E-06	200
130.0	6.8	70	1.546E-07	2.165E-07	200
130.0	8.1	360	7.887E-07	1.104E-06	200
130.0	9.5	173	3.789E-07	5.304E-07	200
130.0	10.8	49	1.082E-07	1.515E-07	200
130.0	13.5	21	4.639E-08	6.495E-08	200
130.0	16.2	0	0.	0.	200
130.0	18.9	88	1.933E-07	2.706E-07	200
130.0	21.6	0	0.	0.	200
130.0	24.3	0	0.	0.	200
130.0	27.0	17	3.866E-08	5.412E-08	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
N 130.0	.3	0	0.	0.	200

TOWER DATA FOLLOW....

TEST D4 AUGUST 8, 1967 0405 TO 0421 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
800M ARC U= 1.4 M/SEC AT 2M

TOWER DATA FOLLOW....

TEST D4 AUGUST 8, 1967 0405 TO 0421 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 2M  
800M ARC U= 1.4 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	.3	51	1.122E-07	1.571E-07	800
98.0	.5	107	2.351E-07	3.291E-07	800
98.0	1.1	263	5.770E-07	8.078E-07	800
98.0	1.5	257	5.643E-07	7.901E-07	800
98.0	2.1	251	5.507E-07	7.710E-07	800
98.0	4.2	966	2.115E-06	2.960E-06	800
98.0	6.3	1052	2.302E-06	3.223E-06	800
98.0	8.4	686	1.502E-06	2.103E-06	800
98.0	10.5	1193	2.612E-06	3.656E-06	800
98.0	12.6	1489	3.260E-06	4.564E-06	800
98.0	14.7	1536	3.363E-06	4.708E-06	800
98.0	16.8	1893	4.142E-06	5.799E-06	800
98.0	21.0	3289	7.198E-06	1.008E-05	800
98.0	25.2	4321	9.457E-06	1.324E-05	800
98.0	29.4	3653	7.995E-06	1.119E-05	800
98.0	33.6	4289	9.387E-06	1.314E-05	800
98.0	37.8	3916	8.570E-06	1.200E-05	800
98.0	42.0	4109	8.992E-06	1.259E-05	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	.3	42	9.405E-08	1.317E-07	800
98.0	.5	109	2.390E-07	3.347E-07	800
98.0	1.1	209	4.585E-07	6.419E-07	800
98.0	1.5	256	5.604E-07	7.845E-07	800
98.0	2.1	370	8.112E-07	1.136E-06	800
98.0	4.2	316	6.996E-07	9.711E-07	800
98.0	6.3	628	1.375E-06	1.926E-06	800
98.0	8.4	890	1.948E-06	2.727E-06	800
98.0	10.5	843	1.846E-06	2.584E-06	800
98.0	12.6	2251	4.926E-06	6.896E-06	800
98.0	14.7	2072	4.534E-06	6.348E-06	800
98.0	16.8	2852	6.243E-06	8.740E-06	800
98.0	21.0	3981	8.711E-06	1.220E-05	800
98.0	25.2	5109	1.118E-05	1.565E-05	800
98.0	29.4	5410	1.184E-05	1.657E-05	800
98.0	33.6	6989	1.529E-05	2.141E-05	800
98.0	37.8	7440	1.628E-05	2.280E-05	800
98.0	42.0	4281	9.370E-06	1.312E-05	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
106.0	.3	68	1.496E-07	2.094E-07	800	106.0	.3	0 0.	0.	0.	800
106.0	.5	16	3.562E-08	4.986E-08	800	106.0	.5	0 0.	0.	0.	800
106.0	1.1	0	0.	0.	800	106.0	1.1	0 0.	0.	0.	800
106.0	1.5	12	2.720E-08	3.808E-08	800	106.0	1.5	25 5.643E-08	7.900E-08	0.	800
106.0	2.1	0	0.	0.	800	106.0	2.1	0 0.	0.	0.	800
106.0	4.2	820	1.795E-06	2.513E-06	800	106.0	4.2	0 0.	0.	0.	800
106.0	6.3	425	9.300E-07	1.302E-06	800	106.0	6.3	0 0.	0.	0.	800
106.0	8.4	199	4.358E-07	6.101E-07	800	106.0	8.4	8 1.881E-08	2.633E-08	0.	800
106.0	10.5	515	1.128E-06	1.579E-06	800	106.0	10.5	6 1.489E-08	2.085E-08	0.	800
106.0	12.6	153	3.366E-07	4.712E-07	800	106.0	12.6	2 6.270E-09	8.778E-09	0.	800
106.0	14.7	360	7.898E-07	1.106E-06	800	106.0	14.7	17 3.840E-08	5.376E-08	0.	800
106.0	16.8	73	1.611E-07	2.255E-07	800	106.0	16.8	0 0.	0.	0.	800
106.0	21.0	58	1.271E-07	1.779E-07	800	106.0	21.0	2 5.643E-09	7.900E-09	0.	800
106.0	25.2	38	8.406E-08	1.177E-07	800	106.0	25.2	32 7.054E-08	9.875E-08	0.	800
106.0	29.4	189	4.141E-07	5.798E-07	800	106.0	29.4	16 3.527E-08	4.938E-08	0.	800
106.0	33.6	71	1.575E-07	2.205E-07	800	106.0	33.6	130 2.861E-07	4.005E-07	0.	800
106.0	37.8	130	2.864E-07	4.010E-07	800	106.0	37.8	94 2.077E-07	2.908E-07	0.	800
106.0	42.0	82	1.802E-07	2.522E-07	800	106.0	42.0	220 4.820E-07	6.748E-07	0.	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
114.0	.3	27	5.983E-08	8.377E-08	800	N 114.0	.3	0 0.	0.	0.	800
114.0	.5	13	2.849E-08	3.989E-08	800						
114.0	1.1	0	0.	0.	800						
114.0	2.1	0	0.	0.	800						
114.0	4.2	472	1.034E-06	1.447E-06	800						
114.0	6.3	297	6.504E-07	9.105E-07	800						
114.0	8.4	315	6.894E-07	9.652E-07	800						
114.0	10.5	273	5.983E-07	8.377E-07	800						
114.0	12.6	253	5.547E-07	7.766E-07	800						
114.0	14.7	73	1.616E-07	2.262E-07	800						
114.0	16.8	78	1.726E-07	2.416E-07	800						
114.0	21.0	224	4.917E-07	6.884E-07	800						
114.0	25.2	24	5.254E-08	7.355E-08	800						
114.0	29.4	89	1.949E-07	2.728E-07	800						
114.0	33.6	12	2.780E-08	3.892E-08	800						
114.0	37.8	16	3.525E-08	4.935E-08	800						
114.0	42.0	30	6.704E-08	9.386E-08	800						

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
122.0	.3	58	1.271E-07	1.780E-07	800	N 122.0	.3	0 0.	0.	0.	800
122.0	.5	0	0.	0.	800						
122.0	1.1	0	0.	0.	800						
122.0	2.1	0	0.	0.	800						
122.0	4.2	99	2.176E-07	3.046E-07	800						
122.0	6.3	267	5.853E-07	8.195E-07	800						
122.0	8.4	109	2.406E-07	3.369E-07	800						
122.0	10.5	37	8.103E-08	1.134E-07	800						
122.0	12.6	93	2.057E-07	2.880E-07	800						
122.0	14.7	139	3.052E-07	4.272E-07	800						
122.0	16.8	181	3.970E-07	5.558E-07	800						
122.0	21.0	68	1.492E-07	2.088E-07	800						
122.0	25.2	151	3.310E-07	4.634E-07	800						
122.0	29.4	109	2.387E-07	3.342E-07	800						
122.0	33.6	88	1.946E-07	2.724E-07	800						
122.0	37.8	38	8.372E-08	1.172E-07	800						
122.0	42.0	42	9.218E-08	1.291E-07	800						

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>3</sup> X10E+6	F/Q SEC/CM <sup>3</sup>	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>3</sup> X10E+6	F/Q SEC/CM <sup>3</sup>	EU/Q 1/SQ.M	DISTANCE METERS
130.0	.3	0	0.	0.	800	N 130.0	.3	0	0.	0.	800
130.0	.5	0	0.	0.	800						
130.0	1.1	0	0.	0.	800						
130.0	2.1	0	0.	0.	800						
130.0	4.2	68	1.496E-07	2.094E-07	800						
130.0	6.3	32	7.154E-08	1.002E-07	800						
130.0	8.4	20	4.553E-08	6.374E-08	800						
130.0	10.5	0	0.	0.	800						
130.0	12.6	0	0.	0.	800						
130.0	14.7	21	4.787E-08	6.701E-08	800						
130.0	16.8	0	0.	0.	800						
130.0	21.0	10	2.210E-08	3.094E-08	800						
130.0	25.2	9	2.101E-08	2.942E-08	800						
130.0	29.4	0	0.	0.	800						
130.0	33.6	29	6.486E-08	9.081E-08	800						
130.0	37.8	20	4.406E-08	6.168E-08	800						
130.0	42.0	34	7.542E-08	1.056E-07	800						

TOWER DATA FOLLOW....

TEST D4 AUGUST 8, 1967 0405 TO 0421 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
1600M ARC U= 1.4 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>3</sup> X10E+6	F/Q SEC/CM <sup>3</sup>	EU/Q 1/SQ.M	DISTANCE METERS
98.0	.2	36	7.892E-08	1.105E-07	1600
98.0	.4	56	1.233E-07	1.726E-07	1600
98.0	.8	15	3.288E-08	4.604E-08	1600
98.0	1.5	62	1.362E-07	1.907E-07	1600
98.0	1.6	113	2.490E-07	3.486E-07	1600
98.0	3.1	184	4.040E-07	5.656E-07	1600
98.0	6.2	192	4.215E-07	5.901E-07	1600
98.0	9.3	375	8.206E-07	1.149E-06	1600
98.0	12.4	1250	2.735E-06	3.829E-06	1600
98.0	15.5	974	2.132E-06	2.984E-06	1600
98.0	18.6	1621	3.547E-06	4.966E-06	1600
98.0	21.7	2016	4.412E-06	6.176E-06	1600
E 98.0	24.8	2188	4.788E-06	6.703E-06	1600
98.0	31.0	2151	4.708E-06	6.591E-06	1600
98.0	37.2	2044	4.474E-06	6.264E-06	1600
98.0	43.4	1778	3.892E-06	5.449E-06	1600
98.0	49.6	1670	3.655E-06	5.117E-06	1600
98.0	55.8	1227	2.685E-06	3.759E-06	1600
98.0	62.0	687	1.504E-06	2.106E-06	1600

TOWER DATA FOLLOW....

TEST D4 AUGUST 8, 1967 0405 TO 0421 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 2M  
1600M ARC U= 1.4 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>3</sup> X10E+6	F/Q SEC/CM <sup>3</sup>	EU/Q 1/SQ.M	DISTANCE METERS
98.0	.2	3	6.719E-09	9.407E-09	1600
98.0	.4	1	2.946E-09	4.125E-09	1600
98.0	.8	14	3.101E-08	4.342E-08	1600
98.0	1.6	24	5.272E-08	7.381E-08	1600
98.0	3.1	40	8.838E-08	1.237E-07	1600
98.0	6.2	159	3.489E-07	4.884E-07	1600
98.0	9.3	393	8.606E-07	1.205E-06	1600
Z 98.0	12.4	1720	3.765E-06	5.271E-06	1600
98.0	15.5	823	1.801E-06	2.522E-06	1600
98.0	18.6	1956	4.242E-06	5.995E-06	1600
98.0	21.7	2575	5.636E-06	7.891E-06	1600
T 98.0	24.8	1236	2.706E-06	3.788E-06	1600
98.0	31.0	2972	6.505E-06	9.107E-06	1600
98.0	37.2	2575	5.636E-06	7.891E-06	1600
98.0	43.4	3022	6.613E-06	9.259E-06	1600
98.0	49.6	2228	4.877E-06	6.827E-06	1600
98.0	55.8	2129	4.660E-06	6.523E-06	1600
98.0	62.0	1768	3.869E-06	5.416E-06	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>3</sup> X10E+6	F/Q SEC/CM <sup>3</sup>	EU/Q 1/SQ.M	DISTANCE METERS
106.0	.2	0	0.	0.	1600
106.0	.4	0	0.	0.	1600
106.0	.8	0	0.	0.	1600
106.0	1.6	4	9.395E-09	1.315E-08	1600
106.0	3.1	244	5.355E-07	7.497E-07	1600
106.0	6.2	307	6.726E-07	9.417E-07	1600
106.0	9.3	75	1.659E-07	2.323E-07	1600
106.0	12.4	172	3.767E-07	5.273E-07	1600
106.0	15.5	103	2.273E-07	3.183E-07	1600
M 106.0	18.6	164	3.603E-07	5.044E-07	1600
106.0	21.7	97	2.133E-07	2.986E-07	1600
106.0	24.8	100	2.204E-07	3.085E-07	1600
106.0	31.0	23	5.150E-08	7.209E-08	1600
106.0	37.2	61	1.345E-07	1.884E-07	1600
106.0	43.4	112	2.459E-07	3.443E-07	1600
106.0	49.6	102	2.232E-07	3.125E-07	1600
106.0	55.8	88	1.931E-07	2.703E-07	1600
M 106.0	62.0	30	6.686E-08	9.360E-08	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>3</sup> X10E+6	F/Q SEC/CM <sup>3</sup>	EU/Q 1/SQ.M	DISTANCE METERS
106.0	.2	0	0.	0.	1600
106.0	.4	0	1.551E-10	2.171E-10	1600
106.0	.8	0	0.	0.	1600
E 106.0	1.5	0	0.	0.	1600
106.0	1.6	0	0.	0.	1600
106.0	3.1	0	0.	0.	1600
106.0	6.2	0	0.	0.	1600
106.0	9.3	0	0.	0.	1600
106.0	12.4	0	0.	0.	1600
106.0	15.5	0	0.	0.	1600
L 106.0	18.6	0	0.	0.	1600
106.0	21.7	4	1.034E-08	1.447E-08	1600
106.0	24.8	21	4.652E-08	6.512E-08	1600
106.0	31.0	1	2.481E-09	3.473E-09	1600
106.0	37.2	0	1.085E-09	1.520E-09	1600
106.0	43.4	55	1.215E-07	1.700E-07	1600
106.0	49.6	126	2.765E-07	3.871E-07	1600
106.0	55.8	133	2.920E-07	4.088E-07	1600
L 106.0	62.0	0	0.	0.	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	F/Q SEC/CM.	EU/Q 1/SQ.M	DISTANCE METERS
114.0	.2	0	0.	0.	1600
114.0	.4	0	0.	0.	1600
114.0	.8	0	0.	0.	1600
114.0	1.6	0	0.	0.	1600
114.0	3.1	337	7.375E-07	1.033E-06	1600
114.0	6.2	245	5.381E-07	7.533E-07	1600
114.0	9.3	102	2.242E-07	3.139E-07	1600
114.0	12.4	174	3.811E-07	5.336E-07	1600
114.0	15.5	384	8.407E-07	1.177E-06	1600
114.0	18.6	305	6.691E-07	9.367E-07	1600
114.0	21.7	107	2.342E-07	3.278E-07	1600
114.0	24.8	139	3.045E-07	4.263E-07	1600
M 114.0	31.0	127	2.795E-07	3.914E-07	1600
114.0	37.2	96	2.104E-07	2.946E-07	1600
114.0	43.4	28	6.147E-08	8.606E-08	1600
114.0	49.6	59	1.302E-07	1.823E-07	1600
114.0	55.8	48	1.069E-07	1.497E-07	1600
114.0	62.0	16	3.621E-08	5.070E-08	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	F/Q SEC/CM.	EU/Q 1/SQ.M	DISTANCE METERS
N 114.0	.2	0	0.	0.	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	F/Q SEC/CM.	EU/Q 1/SQ.M	DISTANCE METERS
122.0	.2	0	0.	0.	1600
122.0	.4	0	0.	0.	1600
122.0	.8	0	0.	0.	1600
122.0	1.6	45	9.865E-08	1.381E-07	1600
122.0	3.1	55	1.221E-07	1.710E-07	1600
122.0	6.2	145	3.184E-07	4.457E-07	1600
122.0	9.3	45	9.865E-08	1.381E-07	1600
122.0	12.4	63	1.390E-07	1.946E-07	1600
122.0	15.5	56	1.244E-07	1.741E-07	1600
122.0	18.6	215	4.718E-07	6.605E-07	1600
122.0	21.7	116	2.551E-07	3.571E-07	1600
122.0	24.8	205	4.487E-07	6.282E-07	1600
122.0	31.0	23	5.150E-08	7.209E-08	1600
122.0	37.2	127	2.794E-07	3.912E-07	1600
122.0	43.4	56	1.229E-07	1.721E-07	1600
122.0	49.6	55	1.209E-07	1.693E-07	1600
122.0	55.8	47	1.040E-07	1.455E-07	1600
122.0	62.0	34	7.522E-08	1.053E-07	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	F/Q SEC/CM.	EU/Q 1/SQ.M	DISTANCE METERS
N 122.0	.2	0	0.	0.	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	F/Q SEC/CM.	EU/Q 1/SQ.M	DISTANCE METERS
130.0	.2	0	0.	0.	1600
130.0	.4	0	0.	0.	1600
130.0	.8	0	0.	0.	1600
130.0	1.6	0	0.	0.	1600
130.0	3.1	0	0.	0.	1600
130.0	6.2	0	0.	0.	1600
130.0	9.3	0	0.	0.	1600
130.0	12.4	8	1.794E-08	2.511E-08	1600
130.0	15.5	0	0.	0.	1600
130.0	18.6	11	2.573E-08	3.603E-08	1600
130.0	21.7	17	3.764E-08	5.269E-08	1600
130.0	24.8	38	8.414E-08	1.178E-07	1600
130.0	31.0	0	0.	0.	1600
130.0	37.2	0	0.	0.	1600
130.0	43.4	16	3.559E-08	4.983E-08	1600
130.0	49.6	5	1.240E-08	1.736E-08	1600
130.0	55.8	0	0.	0.	1600
130.0	62.0	0	0.	0.	1600

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	F/Q SEC/CM.	EU/Q 1/SQ.M	DISTANCE METERS
N 130.0	.2	0	0.	0.	1600

TOWER DATA FOLLOW....

TEST D4 AUGUST 8, 1967 0405 TO 0421 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
3200M ARC U= 1.4 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	.2	11	2.454E-08	3.435E-08	3200
98.0	.4	7	1.561E-08	2.186E-08	3200
98.0	.8	9	2.008E-08	2.811E-08	3200
98.0	1.5	10	2.231E-08	3.123E-08	3200
98.0	1.6	7	1.561E-08	2.186E-08	3200
98.0	3.1	8	1.785E-08	2.498E-08	3200
98.0	6.2	0	0.	0.	3200
98.0	9.3	0	0.	0.	3200
98.0	12.4	17	3.824E-08	5.354E-08	3200
98.0	15.5	89	1.954E-07	2.736E-07	3200
98.0	18.6	163	3.569E-07	4.997E-07	3200
98.0	21.7	203	4.461E-07	6.246E-07	3200
98.0	24.8	245	5.374E-07	7.523E-07	3200
98.0	31.0	434	9.511E-07	1.332E-06	3200
98.0	37.2	580	1.271E-06	1.779E-06	3200
98.0	43.4	382	8.362E-07	1.171E-06	3200
98.0	49.6	561	1.228E-06	1.719E-06	3200
E 98.0	55.8	464	1.017E-06	1.424E-06	3200
98.0	62.0	346	7.590E-07	1.063E-06	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
106.0	.2	0	0.	0.	3200
106.0	.4	0	0.	0.	3200
106.0	.8	0	0.	0.	3200
106.0	1.6	0	0.	0.	3200
106.0	3.1	0	0.	0.	3200
106.0	6.2	0	0.	0.	3200
106.0	9.3	0	0.	0.	3200
106.0	12.4	0	0.	0.	3200
106.0	15.5	0	0.	0.	3200
106.0	18.6	0	0.	0.	3200
106.0	21.7	7	1.700E-08	2.379E-08	3200
106.0	24.8	16	3.650E-08	5.110E-08	3200
106.0	31.0	11	2.433E-08	3.407E-08	3200
106.0	37.2	7	1.552E-08	2.172E-08	3200
106.0	43.4	12	2.825E-08	3.955E-08	3200
106.0	49.6	27	6.049E-08	8.469E-08	3200
106.0	55.8	37	8.207E-08	1.149E-07	3200
M 106.0	62.0	3	6.853E-09	9.594E-09	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
114.0	.2	0	0.	0.	3200
114.0	.4	1	2.231E-09	3.123E-09	3200
114.0	.8	4	8.923E-09	1.249E-08	3200
114.0	1.6	0	0.	0.	3200
114.0	3.1	18	4.015E-08	5.621E-08	3200
114.0	6.2	8	1.912E-08	2.677E-08	3200
T 114.0	9.3	12	2.762E-08	3.866E-08	3200
114.0	12.4	16	3.612E-08	5.056E-08	3200
M 114.0	15.5	29	6.373E-08	8.923E-08	3200
114.0	18.6	29	6.373E-08	8.923E-08	3200
114.0	21.7	69	1.530E-07	2.141E-07	3200
114.0	24.8	27	6.084E-08	8.517E-08	3200
114.0	31.0	5	1.217E-08	1.703E-08	3200
114.0	37.2	33	7.371E-08	1.032E-07	3200
114.0	43.4	14	3.202E-08	4.482E-08	3200
114.0	49.6	39	8.616E-08	1.206E-07	3200
114.0	55.8	13	2.855E-08	3.997E-08	3200
114.0	62.0	18	3.941E-08	5.517E-08	3200

TOWER DATA FOLLOW....

TEST D4 AUGUST 8, 1967 0405 TO 0421 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 2M  
3200M ARC U= 1.4 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	.2	3	6.779E-09	9.490E-09	3200
98.0	.4	0	1.192E-09	1.669E-09	3200
98.0	.8	0	1.402E-10	1.963E-10	3200
98.0	1.5	0	4.909E-10	6.872E-10	3200
98.0	1.6	0	0.	0.	3200
98.0	3.1	0	0.	0.	3200
98.0	6.2	0	0.	0.	3200
98.0	9.3	0	0.	0.	3200
98.0	12.4	40	8.766E-08	1.227E-07	3200
98.0	15.5	13	2.945E-08	4.123E-08	3200
98.0	18.6	149	3.261E-07	4.565E-07	3200
98.0	21.7	254	5.575E-07	7.805E-07	3200
98.0	24.8	222	4.874E-07	6.823E-07	3200
98.0	31.0	372	8.146E-07	1.140E-06	3200
98.0	37.2	382	8.380E-07	1.173E-06	3200
98.0	43.4	361	7.912E-07	1.108E-06	3200
98.0	49.6	607	1.329E-06	1.860E-06	3200
L 98.0	55.8	*	.	.	3200
98.0	62.0	415	9.081E-07	1.271E-06	3200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
106.0	.2	0	0.	0.	3200
106.0	.4	0	0.	0.	3200
106.0	.8	0	0.	0.	3200
106.0	1.6	0	0.	0.	3200
106.0	3.1	0	0.	0.	3200
106.0	6.2	0	0.	0.	3200
106.0	9.3	0	0.	0.	3200
106.0	12.4	0	0.	0.	3200
106.0	15.5	0	0.	0.	3200
106.0	18.6	0	0.	0.	3200
106.0	21.7	0	0.	0.	3200
106.0	24.8	0	0.	0.	3200
106.0	31.0	0	0.	0.	3200
106.0	37.2	2	6.545E-09	9.163E-09	3200
106.0	43.4	5	1.099E-08	1.538E-08	3200
106.0	49.6	6	1.473E-08	2.062E-08	3200
106.0	55.8	36	8.064E-08	1.129E-07	3200
L 106.0	62.0	*	.	.	3200
N 114.0	.2	0	0.	0.	3200



AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
W 122.0	.2	0	0.	0.	3200	N 122.0	.2	0	0.	0.	3200
W 122.0	.4	0	0.	0.	3200						
W 122.0	.8	0	0.	0.	3200						
W 122.0	1.6	0	0.	0.	3200						
W 122.0	3.1	0	0.	0.	3200						
W 122.0	6.2	0	0.	0.	3200						
122.0	9.3	32	7.011E-08	9.815E-08	3200						
122.0	12.4	44	9.772E-08	1.368E-07	3200						
M 122.0	15.5	0	0.	0.	3200						
122.0	18.6	2	6.373E-09	8.923E-09	3200						
122.0	21.7	24	5.311E-08	7.436E-08	3200						
122.0	24.8	11	2.433E-08	3.407E-08	3200						
122.0	31.0	20	4.461E-08	6.246E-08	3200						
122.0	37.2	3	7.759E-09	1.086E-08	3200						
122.0	43.4	3	7.534E-09	1.055E-08	3200						
122.0	49.6	0	0.	0.	3200						
M 122.0	55.8	25	5.531E-08	7.744E-08	3200						
M 122.0	62.0	46	1.028E-07	1.439E-07	3200						

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/O SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/O SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
130.0	.2	0	0.	0.	3200	N 130.0	.2	0	0.	0.	3200
130.0	.4	0	0.	0.	3200						
130.0	.8	0	0.	0.	3200						
130.0	1.6	0	0.	0.	3200						
130.0	3.1	0	0.	0.	3200						
130.0	6.2	0	0.	0.	3200						
130.0	9.3	4	1.062E-08	1.487E-08	3200						
130.0	12.4	0	0.	0.	3200						
130.0	15.5	0	0.	0.	3200						
130.0	18.6	0	0.	0.	3200						
M 130.0	21.7	6	1.487E-08	2.082E-08	3200						
130.0	24.8	0	0.	0.	3200						
130.0	31.0	0	0.	0.	3200						
130.0	37.2	0	0.	0.	3200						
130.0	43.4	0	0.	0.	3200						
130.0	49.6	10	2.383E-08	3.336E-08	3200						
M 130.0	55.8	0	0.	0.	3200						
M 130.0	62.0	1	3.427E-09	4.797E-09	3200						

GROUND LEVEL AND TOWER SAMPLING AT 200M AND 800M ONLY. AFTER RELATIVELY MINOR EXTRAPOLATION ON NORTH, BOTH ARCS EMBRACE CROSSWIND EXTENT OF TRACER. ONLY 3 TOWERS SAMPLING AT EACH ARC; 3 OF 4 TOWERS "HIT" EMBRALE THE VERTICAL EXTENT OF TRACER. DIRECTION SHEAR WITH HEIGHT IS OBVIOUS FROM TOWER SAMPLES.

TEST C1 SEPTEMBER 15, 1967 0000 TO 0015 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 1M  
 200M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE CI-SEC/CM	E/W SEC/CM	EU/O 1/SQ.M	DISTANCE METERS
	X10E+7			
E 88.0	197	1.814E-06	2.540E-06	200
E 90.0	4655	4.271E-05	5.979E-05	200
E 92.0	29727	2.727E-04	3.818E-04	200
94.0	64034	5.875E-04	8.225E-04	200
96.0	89158	8.180E-04	1.145E-03	200
98.0	137522	1.262E-03	1.766E-03	200
100.0	174669	1.602E-03	2.243E-03	200
102.0	173360	1.590E-03	2.227E-03	200
104.0	168032	1.542E-03	2.158E-03	200
106.0	183920	1.687E-03	2.362E-03	200
108.0	230279	2.113E-03	2.958E-03	200
110.0	211528	1.941E-03	2.717E-03	200
112.0	106533	9.774E-04	1.368E-03	200
114.0	42399	3.890E-04	5.446E-04	200
116.0	17398	1.596E-04	2.235E-04	200
118.0	3365	3.088E-05	4.323E-05	200
120.0	526	4.826E-06	6.750E-06	200
122.0	759	6.467E-06	9.754E-06	200
124.0	0	0.	0.	200

CROSSWIND INTEGRATED= 1.049E-01 1.469E-01  
 SEC/SQ.M 1/M

TEST C1 SEPTEMBER 15, 1967 0000 TO 0015 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 1M  
 800M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE CI-SEC/CM	E/W SEC/CM	EU/O 1/SQ.M	DISTANCE METERS
	X10E+7			
E 90.0	158	1.451E-06	2.032E-06	800
E 92.0	1095	1.705E-05	1.407E-05	800
94.0	3887	3.567E-05	4.994E-05	800
E 96.0	7079	6.495E-05	9.093E-05	800
98.0	12648	1.160E-04	1.625E-04	800
100.0	12304	1.129E-04	1.580E-04	800
102.0	18178	1.668E-04	2.335E-04	800
104.0	17379	1.594E-04	2.232E-04	800
106.0	19946	1.830E-04	2.562E-04	800
108.0	20001	1.835E-04	2.569E-04	800
110.0	19431	1.783E-04	2.496E-04	800
112.0	10528	9.559E-05	1.352E-04	800
114.0	3773	3.462E-05	4.846E-05	800
116.0	644	5.915E-06	8.281E-06	800
118.0	59	5.443E-07	7.620E-07	800
120.0	0	0.	0.	800

CROSSWIND INTEGRATED= 3.769E-02 5.277E-02  
 SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST C1 SEPTEMBER 15, 1967 0000 TO 0015 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 1M  
 200M ARC U= 1.4 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10E+7	E/O SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
98.0	.8	162942	1.495E-03	2.043E-03	200
98.0	1.5	137522	1.262E-03	1.766E-03	200
98.0	3.0	72933	6.691E-04	9.368E-04	200
98.0	6.1	5679	5.211E-05	7.245E-05	200
98.0	10.6	0	0.	0.	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10E+7	E/O SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
114.0	.8	31720	2.910E-04	4.074E-04	200
114.0	1.5	42399	3.890E-04	5.446E-04	200
114.0	3.0	60241	5.527E-04	7.737E-04	200
114.0	6.1	51219	4.699E-04	6.579E-04	200
114.0	10.6	7139	6.550E-05	9.170E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10E+7	E/O SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
N 130.0	.8	0	0.	0.	200

TOWER DATA FOLLOW....

TEST C1 SEPTEMBER 15, 1967 0000 TO 0015 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 1M  
 800M ARC U= 1.4 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10E+7	E/O SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
L 98.0	.8	0	0.	0.	800
98.0	1.5	12644	1.160E-04	1.625E-04	800
98.0	4.6	8044	7.381E-05	1.033E-04	800
98.0	10.6	711	6.532E-06	9.144E-06	800
98.0	21.0	0	0.	0.	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10E+7	E/O SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
114.0	.8	3891	3.571E-05	4.999E-05	800
114.0	1.5	3773	3.462E-05	4.846E-05	800
114.0	4.6	5996	5.501E-05	7.701E-05	800
114.0	10.6	6158	5.650E-05	7.910E-05	800
114.0	21.0	59	5.443E-07	7.620E-07	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10E+7	E/O SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
N 130.0	.8	0	0.	0.	800

GROUND LEVEL AND TOWER SAMPLING AT 2004 AND 8004 ONLY. AFTER RATHER BOLD EXTRAPOLATION ON SOUTH END OF 2004-ARC. BOTH ARCS EMBRACE CROSSWIND EXTENT OF TRACER. ONLY 3 TOWERS SAMPLING AT EACH ARC, AND ONLY 3 OF THESE INTERCEPT TRACER. NONE OF THE TOWERS EMBRACE THE VERTICAL EXTENT OF THE PLUME DURING THIS UNSTABLE RELEASE.

TEST C2 OCTOBER 17, 1967 0802 TO 0817 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 14  
 2004 ARC SAMPLER HT 1.5M U= 4.1 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE CI-SEC/CU.M	E/Q SEC/CU.M	EJ/Q 1/SQ.M	DISTANCE METERS
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110.0	0	0.	0.	200
112.0	98	9.072E-07	3.719E-06	200
114.0	969	8.890E-06	3.645E-05	200
116.0	3931	3.637E-05	1.479E-04	200
118.0	7981	7.323E-05	3.002E-04	200
120.0	13400	1.229E-04	5.040E-04	200
122.0	17727	1.625E-04	6.559E-04	200
124.0	19305	1.771E-04	7.262E-04	200
126.0	20436	1.875E-04	7.687E-04	200
128.0	24229	2.223E-04	9.114E-04	200
130.0	21975	2.016E-04	8.266E-04	200
B 132.0	17177	1.575E-04	6.451E-04	200
E 134.0	11074	1.015E-04	4.155E-04	200
E 136.0	5141	4.717E-05	1.934E-04	200
E 138.0	1819	1.669E-05	6.844E-05	200
E 140.0	395	3.629E-06	1.488E-05	200
E 142.0	31	2.933E-07	1.190E-06	200
E 144.0	0	0.	0.	200

CROSSWIND INTEGRATED= 1.061E-02 4.351E-02  
 SEC/SQ.M 1/M

TEST C2 OCTOBER 17, 1967 0802 TO 0817 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 14  
 8004 ARC SAMPLER HT 1.5M U= 4.1 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE CI-SEC/CU.M	E/Q SEC/CU.M	EJ/Q 1/SQ.M	DISTANCE METERS
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116.0	0	0.	0.	300
118.0	3	3.529E-08	1.488E-07	300
120.0	75	5.894E-07	2.327E-06	300
122.0	755	6.931E-06	2.842E-05	300
124.0	1218	1.118E-05	4.592E-05	300
126.0	1989	1.825E-05	7.483E-05	300
128.0	1914	1.756E-05	7.201E-05	300
130.0	1035	9.507E-06	3.898E-05	300
132.0	241	2.213E-06	9.075E-06	300
E 134.0	23	2.177E-07	8.926E-07	300
E 136.0	0	0.	0.	300

CROSSWIND INTEGRATED= 1.859E-03 7.624E-03  
 SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST C2 OCTOBER 17, 1967 0802 TO 0817 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 1M  
 200M ARC U= 4.1 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10E+7	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
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N 98.0	.8	0	0.	0.	200
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AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10E+7	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
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114.0	.8	957	9.791E-06	3.600E-05	200
114.0	1.5	969	8.890E-06	3.545E-05	200
114.0	3.0	996	9.144E-06	3.749E-05	200
114.0	6.1	1194	1.096E-05	4.493E-05	200
114.0	10.6	1127	1.034E-05	4.240E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10E+7	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
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130.0	.8	22081	2.026E-04	8.306E-04	200
130.0	1.5	21975	2.016E-04	8.266E-04	200
130.0	3.0	20895	1.917E-04	7.350E-04	200
G 130.0	6.1	12454	1.143E-04	4.685E-04	200
130.0	10.6	16512	1.515E-04	6.211E-04	200

TOWER DATA FOLLOW....

TEST C2 OCTOBER 17, 1967 0802 TO 0817 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 1M  
 800M ARC U= 4.1 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10E+7	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
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N 98.0	.8	0	0.	0.	800
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AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10E+7	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
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N 114.0	.8	0	0.	0.	800
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AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10E+7	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
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130.0	.8	1344	1.234E-05	5.058E-05	800
130.0	1.5	1036	9.507E-06	3.998E-05	800
130.0	4.6	976	8.963E-06	3.675E-05	800
130.0	10.6	1123	1.031E-05	4.225E-05	800
130.0	21.0	779	7.148E-06	2.931E-05	800

GROUND LEVEL AND TOWER SAMPLING AT 200M AND 800M ONLY. BOTH ARCS SEVERELY TRUNCATED AT SOUTH END. ONLY 3 TOWERS SAMPLING AT EACH ARC; 5 OF THE 6 TOWERS INTERCEPT TRACER. NO TOWER COMPLETELY EMBRACES THE VERTICAL EXTENT OF TRACER DURING THIS RELEASE INTO AN UNSTABLE ATMOSPHERE.

TEST C3 OCTOBER 23, 1967 1102 TO 1115 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 14  
 200M ARC SAMPLER AT 1.5M U= 8.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE CI-SEC/CJ.M	E/Q SEC/CU.M	EJ/Q 1/SQ.M	DISTANCE METERS
94.0	23	9.971E-08	8.175E-07	200
96.0	308	1.295E-06	1.063E-05	200
98.0	1056	4.437E-06	3.638E-05	200
100.0	1961	8.243E-06	6.759E-05	200
102.0	4081	1.715E-05	1.406E-04	200
104.0	5961	2.453E-05	2.020E-04	200
106.0	8361	3.513E-05	2.881E-04	200
108.0	9777	4.108E-05	3.369E-04	200
110.0	9322	3.917E-05	3.212E-04	200
112.0	9298	3.907E-05	3.204E-04	200
114.0	9515	3.993E-05	3.299E-04	200
116.0	9472	3.990E-05	3.254E-04	200
118.0	10726	4.507E-05	3.696E-04	200
120.0	17561	7.379E-05	6.050E-04	200
122.0	19253	8.090E-05	6.634E-04	200
124.0	17948	7.541E-05	6.184E-04	200
126.0	15390	5.937E-05	5.647E-04	200
128.0	17541	7.370E-05	6.044E-04	200
130.0	17739	7.453E-05	6.112E-04	200
B 132.0	17996	7.551E-05	6.200E-04	200

CROSSWIND INTEGRATED= 5.990E-03 SEC/SQ.M  
 4.912E-02 1/4

TEST C3 OCTOBER 23, 1967 1102 TO 1115 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 14  
 800M ARC SAMPLER AT 1.5M U= 8.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE CI-SEC/CU.M	E/Q SEC/CU.M	EJ/Q 1/SQ.M	DISTANCE METERS
102.0	0	0.	0.	800
104.0	241	1.014E-06	8.313E-06	800
106.0	561	2.350E-06	1.935E-05	800
108.0	684	2.875E-06	2.357E-05	800
110.0	251	1.097E-06	8.994E-06	800
E 112.0	153	5.547E-07	5.451E-06	800
114.0	105	4.437E-07	3.679E-06	800
116.0	253	1.064E-06	8.721E-06	800
118.0	288	1.213E-06	9.948E-06	800
120.0	399	1.678E-06	1.376E-05	800
122.0	921	3.372E-06	3.175E-05	800
124.0	345	3.555E-06	2.915E-05	800
126.0	1000	4.204E-06	3.448E-05	800
128.0	989	4.155E-06	3.407E-05	800
130.0	845	3.555E-06	2.915E-05	800
B 132.0	1249	5.251E-06	4.306E-05	800

CROSSWIND INTEGRATED= 1.033E-03 SEC/SQ.M  
 8.475E-03 1/4

TOWER DATA FOLLOW....

TEST C3 OCTOBER 23, 1967 1102 TO 1116 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 14  
 203M ARC U= 0.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10E+7	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
98.0	.8	1055	4.437E-06	3.538E-05	200
98.0	1.5	1056	4.437E-06	3.538E-05	200
98.0	3.0	1040	4.371E-06	3.584E-05	200
98.0	6.1	775	3.257E-06	2.671E-05	200
98.0	10.6	474	1.994E-06	1.535E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10E+7	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
114.0	.8	9534	4.049E-05	3.320E-04	200
114.0	1.5	9516	3.998E-05	3.279E-04	200
114.0	3.0	9128	3.836E-05	3.145E-04	200
114.0	6.1	7724	3.246E-05	2.661E-04	200
114.0	10.6	5078	2.134E-05	1.750E-04	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10E+7	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
130.0	.8	17422	7.320E-05	6.003E-04	200
130.0	1.5	17739	7.453E-05	6.112E-04	200
130.0	3.0	17003	7.144E-05	5.958E-04	200
130.0	6.1	8764	3.683E-05	3.020E-04	200
130.0	10.6	13823	5.808E-05	4.763E-04	200

TOWER DATA FOLLOW....

TEST C3 OCTOBER 23, 1967 1102 TO 1116 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 14  
 800M ARC U= 0.2 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10E+7	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
N 98.0	.8	0	0	0	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10E+7	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
114.0	.8	159	5.547E-07	5.451E-06	800
114.0	1.5	106	4.487E-07	3.679E-06	800
114.0	4.6	142	5.983E-07	4.906E-06	800
114.0	10.6	122	5.152E-07	4.224E-06	800
114.0	21.0	94	3.988E-07	3.271E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10E+7	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
130.0	.8	1134	5.019E-06	4.115E-05	800
130.0	1.5	945	3.555E-06	2.915E-05	800
130.0	4.6	862	3.623E-06	2.971E-05	800
130.0	10.6	937	3.939E-06	3.230E-05	800
130.0	21.0	541	2.277E-06	1.957E-05	800

GROUND LEVEL AND TOWER SAMPLING AT 200M AND 800M ONLY. BOTH ARCS TRUNCATED AT SOUTH EDGE. ON 800M-ARC, SUSPECT FURTHER SAMPLING ON SOUTH WOULD HAVE REVEALED A BIMODAL DISTRIBUTION. ONLY 3 TOWERS SAMPLING AT EACH ARC, FOUR TOWERS INTERCEPTED TRACER DURING THIS RELEASE INTO AN UNSTABLE ATMOSPHERE.

TEST C4 OCTOBER 24, 1967 1104 TO 1114 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 14  
 200M ARC SAMPLER HT 1.5M U= 4.1 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE CI-SEC/CU.M X10E+7	E/D SEC/CU.M	EJ/D 1/SQ.M	DISTANCE METERS
104.0	0	0.	0.	200
106.0	309	1.353E-05	5.548E-05	200
108.0	1938	9.500E-05	3.435E-05	200
110.0	4287	1.880E-05	7.710E-05	200
112.0	10567	4.679E-05	1.918E-04	200
114.0	13831	6.066E-05	2.487E-04	200
116.0	17054	7.480E-05	3.067E-04	200
118.0	19553	9.520E-05	3.534E-04	200
120.0	22354	9.805E-05	4.020E-04	200
122.0	23762	1.042E-04	4.273E-04	200
124.0	22319	9.789E-05	4.014E-04	200
126.0	18273	8.014E-05	3.285E-04	200
128.0	16572	7.269E-05	2.980E-04	200
130.0	15172	6.554E-05	2.728E-04	200
B 132.0	11501	5.045E-05	2.059E-04	200

CRSSWIND INTEGRATED= 6.053E-03 2.482E-02  
 SEC/SQ.M 1/M

TEST C4 OCTOBER 24, 1967 1104 TO 1114 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 14  
 800M ARC SAMPLER HT 1.5M U= 4.1 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE CI-SEC/CU.M X10E+7	E/D SEC/CU.M	EJ/D 1/SQ.M	DISTANCE METERS
110.0	0	0.	0.	800
112.0	23	1.041E-07	4.257E-07	800
114.0	221	9.715E-07	3.993E-06	800
116.0	917	4.025E-06	1.550E-05	800
118.0	1435	6.297E-06	2.582E-05	800
120.0	1056	4.632E-06	1.899E-05	800
122.0	739	3.244E-06	1.330E-05	800
124.0	423	1.856E-06	7.610E-06	800
126.0	445	1.950E-06	8.037E-06	800
128.0	272	1.197E-06	4.909E-06	800
130.0	96	4.163E-07	1.707E-06	800
B 132.0	90	3.990E-07	1.636E-06	800

CRSSWIND INTEGRATED= 7.010E-04 2.874E-03  
 SEC/SQ.M 1/M



TOWER DATA FOLLOW....

TEST C4 OCTOBER 24, 1957 1104 TO 1114 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 14  
 200M ARC U= 4.1 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10E+7	E/D SEC/CM	EU/D 1/SQ.M	DISTANCE METERS
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M 98.0	.8	0	0.	0.	200
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AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10E+7	E/D SEC/CM	EJ/D 1/SQ.M	DISTANCE METERS
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114.0	.8	13597	5.964E-05	2.445E-04	200
114.0	1.5	13931	5.056E-05	2.487E-04	200
114.0	3.0	13230	5.803E-05	2.379E-04	200
114.0	6.1	9864	4.326E-05	1.774E-04	200
114.0	10.6	5715	2.507E-05	1.028E-04	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10E+7	E/D SEC/CM	EU/D 1/SQ.M	DISTANCE METERS
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130.0	.8	15195	5.655E-05	2.733E-04	200
130.0	1.5	15172	6.654E-05	2.728E-04	200
130.0	3.0	13935	5.134E-05	2.515E-04	200
S 130.0	6.1	7902	3.455E-05	1.421E-04	200
130.0	10.6	10932	4.795E-05	1.966E-04	200

TOWER DATA FOLLOW....

TEST C4 OCTOBER 24, 1967 1104 TO 1114 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 14  
 800M ARC U= 4.1 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10E+7	E/D SEC/CM	EU/D 1/SQ.M	DISTANCE METERS
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M 98.0	.8	0	0.	0.	800
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AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10E+7	E/D SEC/CM	EU/D 1/SQ.M	DISTANCE METERS
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114.0	.8	0	0.	0.	800
114.0	1.5	221	9.715E-07	3.993E-06	800
114.0	4.6	185	8.153E-07	3.343E-06	800
114.0	10.6	201	8.847E-07	3.627E-06	800
114.0	21.0	221	9.715E-07	3.993E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10E+7	E/D SEC/CM	EJ/D 1/SQ.M	DISTANCE METERS
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130.0	.8	162	7.112E-07	2.916E-06	800
130.0	1.5	34	4.153E-07	1.707E-06	800
G 130.0	4.6	249	1.093E-06	4.431E-06	800
130.0	10.6	150	6.592E-07	2.703E-06	800
130.0	21.0	134	5.898E-07	2.418E-06	800

GROUND LEVEL AND TOWER SAMPLING AT 200M AND 800M ONLY. KRYPTON RELEASED ABOUT 2M TO RIGHT (FACING DOWNWIND) AND 1M BELOW ZNS RELEASE POINT. BOTH ARCS EMBRACE THE CROSSWIND DISTRIBUTION OF TRACER. BOTH TRACER DISTRIBUTIONS EXTENDED ABOVE TOWER TOPS, BUT MAXIMUM CONCENTRATIONS WERE GENERALLY BELOW TOWER TOPS.

TEST C5 NOVEMBER 8, 1967 0512 TO 0532 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
200M ARC SAMPLER HT 1.5M U= 2.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>3</sup> X10E+6	E/Q SEC/CM <sup>3</sup>	EU/Q 1/SQ.M	DISTANCE METERS
88.0	0	0.	0.	200
90.0	31	3.166E-08	8.865E-08	200
92.0	122	1.227E-07	3.435E-07	200
94.0	1226	1.227E-06	3.435E-06	200
96.0	8239	8.240E-06	2.307E-05	200
98.0	43275	4.328E-05	1.212E-04	200
100.0	116818	1.168E-04	3.271E-04	200
102.0	249352	2.494E-04	6.982E-04	200
104.0	282014	2.820E-04	7.896E-04	200
106.0	231729	2.317E-04	6.488E-04	200
108.0	294607	2.946E-04	8.249E-04	200
110.0	250452	2.505E-04	7.013E-04	200
112.0	277023	2.770E-04	7.757E-04	200
114.0	304944	3.049E-04	8.538E-04	200
116.0	275907	2.759E-04	7.725E-04	200
118.0	249285	2.493E-04	6.980E-04	200
120.0	222940	2.229E-04	6.242E-04	200
122.0	135197	1.352E-04	3.786E-04	200
124.0	85273	8.527E-05	2.388E-04	200
126.0	44011	4.401E-05	1.232E-04	200
128.0	13756	1.376E-05	3.852E-05	200
130.0	3898	3.898E-06	1.091E-05	200
132.0	637	6.372E-07	1.784E-06	200
134.0	225	2.256E-07	6.316E-07	200
136.0	102	1.029E-07	2.881E-07	200
138.0	209	2.097E-07	5.873E-07	200
140.0	94	9.498E-08	2.659E-07	200
142.0	170	1.702E-07	4.765E-07	200
144.0	15	1.583E-08	4.432E-08	200
146.0	0	0.	0.	200

CROSSWIND INTEGRATED= 2.158E-02 SEC/SQ.M 6.043E-02 1/M

TEST C5 NOVEMBER 8, 1967 0512 TO 0532 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
800M ARC SAMPLER HT 1.5M U= 2.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>3</sup> X10E+6	E/Q SEC/CM <sup>3</sup>	EU/Q 1/SQ.M	DISTANCE METERS
96.0	0	0.	0.	800
98.0	914	9.149E-07	2.562E-06	800
100.0	7928	7.928E-06	2.220E-05	800
102.0	9042	9.042E-06	2.532E-05	800
104.0	11365	1.137E-05	3.182E-05	800
106.0	11802	1.180E-05	3.305E-05	800
108.0	14581	1.458E-05	4.083E-05	800
110.0	9486	9.486E-06	2.656E-05	800
112.0	12039	1.204E-05	3.371E-05	800
114.0	22184	2.218E-05	6.212E-05	800
116.0	14692	1.469E-05	4.114E-05	800
118.0	7158	7.159E-06	2.004E-05	800
120.0	593	5.934E-07	1.661E-06	800
122.0	103	1.034E-07	2.894E-07	800
124.0	38	3.828E-08	1.072E-07	800
126.0	0	0.	0.	800

CROSSWIND INTEGRATED= 3.405E-03 SEC/SQ.M 9.534E-03 1/M

TEST C5 NOVEMBER 8, 1967 0512 TO 0532 PST  
KRYPTON-R5 RELEASE FROM ELEVATION OF 1M  
200M ARC SAMPLER HT 1.5M U= 2.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE CI-SEC/CM <sup>3</sup> X10E+7	E/Q SEC/CM <sup>3</sup>	EU/Q 1/SQ.M	DISTANCE METERS
94.0	59	2.908E-07	8.143E-07	200
96.0	680	3.335E-06	9.337E-06	200
98.0	4552	2.232E-05	6.248E-05	200
100.0	13675	6.679E-05	1.870E-04	200
102.0	32420	1.589E-04	4.450E-04	200
104.0	46691	2.269E-04	6.409E-04	200
106.0	38673	1.896E-04	5.306E-04	200
108.0	38452	1.885E-04	5.278E-04	200
110.0	35794	1.755E-04	4.913E-04	200
112.0	41782	2.048E-04	5.735E-04	200
114.0	47331	2.320E-04	6.497E-04	200
116.0	44713	2.192E-04	6.137E-04	200
118.0	37400	1.833E-04	5.133E-04	200
120.0	31431	1.541E-04	4.314E-04	200
122.0	20290	9.946E-05	2.785E-04	200
124.0	11280	5.530E-05	1.548E-04	200
126.0	4742	2.325E-05	6.509E-05	200
128.0	1135	5.564E-06	1.556E-05	200
130.0	181	8.919E-07	2.497E-06	200
132.0	0	0.	0.	200

CROSSWIND INTEGRATED= 1.544E-02 SEC/SQ.M 4.324E-02 1/M

TEST C5 NOVEMBER 8, 1967 0512 TO 0532 PST  
KRYPTON-R5 RELEASE FROM ELEVATION OF 1M  
800M ARC SAMPLER HT 1.5M U= 2.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE CI-SEC/CM <sup>3</sup> X10E+7	E/Q SEC/CM <sup>3</sup>	EU/Q 1/SQ.M	DISTANCE METERS
96.0	0	0.	0.	800
98.0	55	2.714E-07	7.600E-07	800
100.0	1127	5.526E-06	1.547E-05	800
102.0	2025	9.927E-06	2.779E-05	800
104.0	1289	6.321E-06	1.770E-05	800
106.0	747	3.664E-06	1.026E-05	800
108.0	1835	8.996E-06	2.519E-05	800
110.0	2673	1.311E-05	3.670E-05	800
112.0	3579	1.755E-05	4.913E-05	800
114.0	4038	1.980E-05	5.543E-05	800
116.0	5517	2.705E-05	7.573E-05	800
118.0	6526	3.199E-05	8.957E-05	800
120.0	2827	1.386E-05	3.882E-05	800
122.0	814	3.994E-06	1.118E-05	800
124.0	55	2.714E-07	7.600E-07	800
126.0	0	0.	0.	800

CROSSWIND INTEGRATED= 4.533E-03 SEC/SQ.M 1.269E-02 1/M

TOWER DATA FOLLOW....

TEST C5 NOVEMBER 8, 1967 0512 TO 0532 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
 200M ARC U= 2.8 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	.3	11180	1.118E-05	3.130E-05	200
98.0	.7	32697	3.270E-05	9.155E-05	200
98.0	1.4	43513	4.351E-05	1.218E-04	200
98.0	1.5	43275	4.328E-05	1.212E-04	200
98.0	2.7	50793	5.079E-05	1.422E-04	200
98.0	4.1	41832	4.183E-05	1.171E-04	200
98.0	5.4	30490	3.049E-05	8.537E-05	200
98.0	6.8	19238	1.924E-05	5.387E-05	200
98.0	8.1	15494	1.549E-05	4.339E-05	200
98.0	9.5	9733	9.733E-06	2.725E-05	200
98.0	10.8	6564	6.565E-06	1.838E-05	200
S 98.0	13.5	4007	4.008E-06	1.122E-05	200
S 98.0	16.2	2347	2.348E-06	6.573E-06	200
98.0	18.9	2119	2.120E-06	5.935E-06	200
98.0	21.6	960	9.606E-07	2.690E-06	200
98.0	24.3	405	4.058E-07	1.136E-06	200
S 98.0	27.0	100	1.007E-07	2.821E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
106.0	.3	172967	1.730E-04	4.843E-04	200
106.0	.7	261847	2.618E-04	7.332E-04	200
106.0	1.4	222809	2.228E-04	6.259E-04	200
106.0	1.5	231729	2.317E-04	6.488E-04	200
106.0	2.7	260762	2.608E-04	7.301E-04	200
106.0	4.1	229356	2.294E-04	6.422E-04	200
106.0	5.4	244858	2.449E-04	6.856E-04	200
106.0	6.8	199451	1.995E-04	5.585E-04	200
S 106.0	8.1	153189	1.532E-04	4.289E-04	200
106.0	9.5	154614	1.546E-04	4.329E-04	200
106.0	10.8	125396	1.254E-04	3.511E-04	200
106.0	13.5	112442	1.124E-04	3.148E-04	200
106.0	16.2	79579	7.958E-05	2.228E-04	200
106.0	18.9	39374	3.937E-05	1.102E-04	200
106.0	21.6	23339	2.334E-05	6.535E-05	200
106.0	24.3	10859	1.086E-05	3.041E-05	200
106.0	27.0	7913	7.913E-06	2.216E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
114.0	.3	277221	2.772E-04	7.762E-04	200
114.0	.7	296363	2.964E-04	8.298E-04	200
114.0	1.4	256575	2.566E-04	7.184E-04	200
114.0	1.5	304944	3.049E-04	8.538E-04	200
114.0	2.7	254959	2.550E-04	7.139E-04	200
114.0	4.1	189984	1.900E-04	5.320E-04	200
114.0	5.4	204113	2.041E-04	5.715E-04	200
114.0	6.8	163265	1.633E-04	4.571E-04	200
114.0	8.1	153006	1.530E-04	4.284E-04	200
114.0	9.5	146280	1.463E-04	4.096E-04	200
114.0	10.8	120610	1.206E-04	3.377E-04	200
114.0	13.5	98883	9.888E-05	2.769E-04	200
114.0	16.2	69340	6.934E-05	1.942E-04	200
114.0	18.9	47059	4.706E-05	1.318E-04	200
114.0	21.6	21217	2.122E-05	5.941E-05	200
114.0	24.3	13606	1.361E-05	3.810E-05	200
114.0	27.0	7710	7.710E-06	2.159E-05	200

TOWER DATA FOLLOW....

TEST C5 NOVEMBER 8, 1967 0512 TO 0532 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 1M  
 200M ARC U= 2.8 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CU.M X10E+7	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	.8	4718	2.313E-05	6.476E-05	200
98.0	1.5	4552	2.232E-05	6.248E-05	200
98.0	3.0	5121	2.511E-05	7.030E-05	200
98.0	6.1	2808	1.377E-05	3.854E-05	200
98.0	10.6	834	4.091E-06	1.145E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CU.M X10E+7	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
114.0	.8	48289	2.367E-04	6.628E-04	200
114.0	1.5	47331	2.320E-04	6.497E-04	200
114.0	3.0	46153	2.262E-04	6.335E-04	200
114.0	6.1	38745	1.865E-04	5.222E-04	200
114.0	10.6	23339	1.144E-04	3.203E-04	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
122.0	.3	16869	1.687E-05	4.723E-05	200
122.0	.7	107163	1.072E-04	3.001E-04	200
122.0	1.4	99429	9.943E-05	2.784E-04	200
122.0	1.5	135197	1.352E-04	3.786E-04	200
122.0	2.7	115578	1.156E-04	3.236E-04	200
122.0	4.1	95171	9.517E-05	2.665E-04	200
122.0	5.4	96032	9.603E-05	2.689E-04	200
122.0	6.8	88425	8.843E-05	2.476E-04	200
122.0	8.1	88018	8.802E-05	2.465E-04	200
122.0	9.5	65495	6.550E-05	1.834E-04	200
122.0	10.8	59799	5.980E-05	1.674E-04	200
122.0	13.5	43641	4.364E-05	1.222E-04	200
122.0	16.2	23803	2.380E-05	6.665E-05	200
122.0	18.9	14369	1.437E-05	4.023E-05	200
122.0	21.6	11890	1.189E-05	3.329E-05	200
122.0	24.3	9372	9.373E-06	2.624E-05	200
122.0	27.0	3644	3.644E-06	1.020E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
130.0	.3	1650	1.650E-06	4.621E-06	200
130.0	.7	2550	2.551E-06	7.143E-06	200
130.0	1.4	2588	2.588E-06	7.247E-06	200
130.0	1.5	3898	3.898E-06	1.091E-05	200
130.0	2.7	2857	2.857E-06	8.001E-06	200
130.0	4.1	4137	4.137E-06	1.158E-05	200
130.0	5.4	4582	4.582E-06	1.283E-05	200
130.0	6.8	4232	4.232E-06	1.185E-05	200
130.0	8.1	4502	4.502E-06	1.261E-05	200
130.0	9.5	3530	3.531E-06	9.886E-06	200
130.0	10.8	4032	4.032E-06	1.129E-05	200
130.0	13.5	3037	3.038E-06	8.505E-06	200
130.0	16.2	2762	2.762E-06	7.735E-06	200
130.0	18.9	2163	2.164E-06	6.059E-06	200
130.0	21.6	1488	1.488E-06	4.167E-06	200
130.0	24.3	997	9.974E-07	2.793E-06	200
130.0	27.0	486	4.866E-07	1.363E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CU.M X10E+7	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
130.0	.8	106	5.235E-07	1.466E-06	200
130.0	1.5	181	8.919E-07	2.497E-06	200
130.0	3.0	253	1.241E-06	3.474E-06	200
130.0	6.1	502	2.462E-06	6.894E-06	200
130.0	10.6	605	2.966E-06	8.306E-06	200

TOWER DATA FOLLOW....

TEST C5 NOVEMBER 8, 1967 0512 TO 0532 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
 ROOM ARC U = 2.8 M/SEC AT 2M

TOWER DATA FOLLOW....

TEST C5 NOVEMBER 8, 1967 0512 TO 0532 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 1M  
 ROOM ARC U = 2.8 M/SEC AT 2M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	.3	917	9.179E-07	2.570E-06	800
98.0	.5	740	7.407E-07	2.074E-06	800
98.0	1.1	1228	1.228E-06	3.439E-06	800
98.0	1.5	914	9.149E-07	2.562E-06	800
98.0	2.1	1435	1.436E-06	4.020E-06	800
M 98.0	4.2	809	8.096E-07	2.267E-06	800
98.0	6.3	741	7.411E-07	2.075E-06	800
98.0	8.4	527	5.278E-07	1.478E-06	800
98.0	10.5	405	4.052E-07	1.135E-06	800
98.0	12.6	416	4.170E-07	1.168E-06	800
98.0	14.7	137	1.371E-07	3.839E-07	800
98.0	16.8	101	1.012E-07	2.833E-07	800
98.0	21.0	79	7.923E-08	2.218E-07	800
98.0	25.2	52	5.221E-08	1.462E-07	800
98.0	29.4	16	1.614E-08	4.519E-08	800
98.0	33.6	1	1.622E-09	4.541E-09	800
98.0	37.8	0	0.	0.	800
L 98.0	42.0	0	0.	0.	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CU.M X10E+7	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	.8	75	3.884E-07	1.031E-06	800
98.0	1.5	55	2.714E-07	7.600E-07	800
98.0	4.6	162	7.949E-07	2.226E-06	800
98.0	10.6	47	2.327E-07	6.514E-07	800
98.0	21.0	0	0.	0.	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
106.0	.3	6081	6.082E-06	1.703E-05	800
106.0	.5	6545	6.545E-06	1.833E-05	800
106.0	1.1	7975	7.975E-06	2.233E-05	800
106.0	1.5	11802	1.180E-05	3.305E-05	800
106.0	2.1	7626	7.627E-06	2.136E-05	800
106.0	4.2	9381	9.381E-06	2.627E-05	800
106.0	6.3	2982	2.982E-06	8.350E-06	800
106.0	8.4	2776	2.777E-06	7.774E-06	800
106.0	10.5	4859	4.860E-06	1.361E-05	800
106.0	12.6	3634	3.634E-06	1.018E-05	800
106.0	14.7	3997	3.998E-06	1.119E-05	800
106.0	16.8	4609	4.609E-06	1.291E-05	800
106.0	21.0	3125	3.125E-06	8.751E-06	800
106.0	25.2	2917	2.918E-06	8.170E-06	800
106.0	29.4	2555	2.555E-06	7.155E-06	800
106.0	33.6	2628	2.629E-06	7.360E-06	800
106.0	37.8	998	9.986E-07	2.796E-06	800
106.0	42.0	657	6.579E-07	1.842E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
114.0	.3	9670	9.671E-06	2.708E-05	800
114.0	.5	8030	8.031E-06	2.249E-05	800
114.0	1.1	11672	1.167E-05	3.268E-05	800
114.0	1.5	22184	2.218E-05	6.212E-05	800
114.0	2.1	12327	1.233E-05	3.452E-05	800
114.0	4.2	10987	1.099E-05	3.076E-05	800
114.0	6.3	19739	1.974E-05	5.527E-05	800
114.0	8.4	20084	2.008E-05	5.624E-05	800
114.0	10.5	18171	1.817E-05	5.088E-05	800
114.0	12.6	9450	9.450E-06	2.646E-05	800
114.0	14.7	13497	1.350E-05	3.779E-05	800
114.0	16.8	12505	1.251E-05	3.501E-05	800
114.0	21.0	8825	8.826E-06	2.471E-05	800
114.0	25.2	7450	7.450E-06	2.086E-05	800
114.0	29.4	4339	4.339E-06	1.215E-05	800
114.0	33.6	4561	4.562E-06	1.277E-05	800
114.0	37.8	3508	3.508E-06	9.824E-06	800
114.0	42.0	3313	3.314E-06	9.278E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
122.0	.3	39	3.915E-08	1.096E-07	800
122.0	.5	83	8.322E-08	2.330E-07	800
122.0	1.1	386	3.868E-07	1.083E-06	800
122.0	1.5	103	1.034E-07	2.894E-07	800
122.0	2.1	599	6.000E-07	1.680E-06	800
122.0	4.2	944	9.440E-07	2.643E-06	800
122.0	6.3	886	8.863E-07	2.482E-06	800
122.0	8.4	1058	1.058E-06	2.963E-06	800
122.0	10.5	645	6.457E-07	1.808E-06	800
122.0	12.6	1733	1.733E-06	4.854E-06	800
122.0	14.7	1113	1.114E-06	3.118E-06	800
122.0	16.8	1656	1.657E-06	4.640E-06	800
122.0	21.0	1184	1.184E-06	3.316E-06	800
122.0	25.2	2273	2.274E-06	6.367E-06	800
122.0	29.4	1316	1.316E-06	3.685E-06	800
122.0	33.6	758	7.589E-07	2.125E-06	800
122.0	37.8	479	4.797E-07	1.343E-06	800
122.0	42.0	463	4.634E-07	1.297E-06	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
N 130.0	.3	0	0.	0.	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10E+7	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
114.0	.8	5201	2.550E-05	7.139E-05	800
114.0	1.5	4038	1.980E-05	5.543E-05	800
114.0	4.6	4184	2.051E-05	5.744E-05	800
114.0	10.6	3294	1.615E-05	4.522E-05	800
7 114.0	21.0	2460	1.206E-05	3.317E-05	800

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10E+7	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
N 130.0	.8	0	0.	0.	800

SAMPLING 200M TO 300M; NO TOWER SAMPLING. CROSSWIND DISTRIBUTIONS RATHER HOLOLY EXTRAPOLATED ON NORTH FOR ALL ARCS BEYOND 400M. RELATIVELY FLAT OR MULTIMODAL CROSSWIND DISTRIBUTIONS. ZINC SULFIDE DISPERSAL INTERRUPTED FOR ABOUT 2 MIN STARTING AT 0502; FLUORESCIN ALSO INTERRUPTED FOR ABOUT 45 SEC.

TEST U56 JULY 18, 1967 0445 TO 0515 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
200M ARC SAMPLER HT 1.5M U= 1.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SIC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
10.0	0	0.	0.	200
14.0	7338	1.559E-06	2.806E-06	200
18.0	18811	1.254E-05	2.257E-05	200
22.0	28548	1.903E-05	3.426E-05	200
26.0	23000	1.533E-05	2.760E-05	200
30.0	8590	5.727E-06	1.031E-05	200
34.0	7927	5.285E-06	9.513E-06	200
38.0	35797	2.387E-05	4.296E-05	200
42.0	74214	4.948E-05	8.906E-05	200
46.0	91382	6.092E-05	1.097E-04	200
50.0	79864	5.324E-05	9.584E-05	200
54.0	56269	3.751E-05	6.752E-05	200
58.0	59011	3.934E-05	7.081E-05	200
E 62.0	59981	3.999E-05	7.198E-05	200
F 66.0	73063	4.871E-05	8.768E-05	200
E 70.0	88065	5.871E-05	1.057E-04	200
E 74.0	87519	5.835E-05	1.050E-04	200
78.0	73464	4.898E-05	8.816E-05	200
82.0	7318	4.879E-06	8.782E-06	200
86.0	3446	2.298E-06	4.136E-06	200
90.0	181	1.210E-07	2.178E-07	200
94.0	8	5.501E-09	9.902E-09	200
98.0	41	2.751E-08	4.951E-08	200
102.0	0	0.	0.	200

CROSSWIND INTEGRATED= 8.181E-03 SEC/SQ.M 1.473E-02 1/M

TEST U56 JULY 18, 1967 0445 TO 0515 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
300M ARC SAMPLER HT 1.5M U= 1.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	L/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
8.0	0	0.	0.	300
12.0	145	9.719E-08	1.749E-07	300
16.0	8264	5.509E-06	9.917E-06	300
20.0	24914	1.601E-05	2.882E-05	300
24.0	34997	2.333E-05	4.200E-05	300
28.0	20474	1.365E-05	2.457E-05	300
32.0	7485	4.991E-06	8.983E-06	300
36.0	7488	4.992E-06	8.986E-06	300
40.0	34980	2.332E-05	4.198E-05	300
44.0	68923	4.598E-05	8.259E-05	300
48.0	75273	5.018E-05	9.033E-05	300
52.0	50534	3.369E-05	6.064E-05	300
56.0	38060	2.537E-05	4.567E-05	300
60.0	37615	2.174E-05	3.914E-05	300
64.0	54368	3.625E-05	6.524E-05	300
68.0	40876	2.725E-05	4.905E-05	300
72.0	36470	2.431E-05	4.376E-05	300
76.0	35030	2.335E-05	4.204E-05	300
80.0	33505	2.234E-05	4.021E-05	300
84.0	5838	3.892E-06	7.006E-06	300
88.0	94	6.326E-08	1.139E-07	300
92.0	1	9.169E-10	1.650E-09	300
96.0	8	5.501E-09	9.902E-09	300
100.0	0	0.	0.	300

CROSSWIND INTEGRATED= 8.508E-03 SEC/SQ.M 1.531E-02 1/M

TEST U56 JULY 18, 1967 0445 TO 0515 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 26M  
200M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SIC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
10.0	0	1.297E-10	5.577E-10	200
14.0	10	2.010E-08	8.645E-08	200
18.0	344	6.885E-07	2.961E-06	200
22.0	189	3.794E-07	1.631E-06	200
26.0	12	2.594E-08	1.115E-07	200
30.0	5	1.102E-08	4.741E-08	200
34.0	3	7.350E-09	3.160E-08	200
38.0	21	4.215E-08	1.813E-07	200
42.0	32	6.593E-08	2.835E-07	200
46.0	72	1.459E-07	6.274E-07	200
50.0	22	4.432E-08	1.906E-07	200
54.0	44	8.971E-08	3.858E-07	200
58.0	92	1.848E-07	7.948E-07	200
E 62.0	106	2.129E-07	9.156E-07	200
E 66.0	106	2.129E-07	9.156E-07	200
E 70.0	106	2.129E-07	9.156E-07	200
E 74.0	106	2.129E-07	9.156E-07	200
78.0	63	1.265E-07	5.438E-07	200
82.0	7	1.492E-08	6.414E-08	200
86.0	18	3.761E-08	1.617E-07	200
90.0	2	4.972E-09	2.138E-08	200
94.0	0	5.837E-10	2.510E-09	200
98.0	3	7.782E-09	3.346E-08	200
4 102.0	13	2.724E-08	1.171E-07	200

CROSSWIND INTEGRATED= 3.877E-05 SEC/SQ.M 1.667E-04 1/M

TEST U56 JULY 18, 1967 0445 TO 0515 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 26M  
300M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
8.0	0	6.485E-11	2.789E-10	300
12.0	0	1.297E-10	5.577E-10	300
16.0	74	1.481E-07	6.357E-07	300
20.0	248	4.961E-07	2.133E-06	300
24.0	333	6.669E-07	2.868E-06	300
28.0	196	3.924E-07	1.687E-06	300
32.0	67	1.351E-07	5.810E-07	300
36.0	24	4.864E-08	2.091E-07	300
40.0	19	3.891E-08	1.673E-07	300
44.0	26	5.260E-08	2.262E-07	300
48.0	55	1.102E-07	4.741E-07	300
52.0	111	2.237E-07	9.621E-07	300
56.0	205	4.118E-07	1.771E-06	300
60.0	290	5.804E-07	2.496E-06	300
64.0	236	4.723E-07	2.031E-06	300
68.0	170	3.405E-07	1.464E-06	300
72.0	268	5.372E-07	2.310E-06	300
76.0	409	8.182E-07	3.518E-06	300
80.0	176	3.534E-07	1.520E-06	300
84.0	11	2.335E-08	1.004E-07	300
88.0	176	3.534E-07	1.520E-06	300
92.0	0	7.782E-10	3.346E-09	300
96.0	0	0.	0.	300
100.0	2	5.188E-09	2.231E-08	300

CROSSWIND INTEGRATED= 1.301E-04 SEC/SQ.M 5.592E-04 1/M

TEST U56 JULY 18, 1967 0445 TO 0515 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
400M ARC SAMPLER HT 1.5M U= 1.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
10.0	0	0.	0.	400
14.0	53	3.576E-08	6.436E-08	400
18.0	10932	7.288E-06	1.312E-05	400
22.0	17601	1.173E-05	2.112E-05	400
26.0	26426	1.762E-05	3.171E-05	400
30.0	14422	9.615E-06	1.731E-05	400
34.0	8209	5.473E-06	9.851E-06	400
38.0	8140	5.427E-06	9.769E-06	400
42.0	22936	1.529E-05	2.752E-05	400
46.0	70484	4.699E-05	8.458E-05	400
50.0	46386	3.092E-05	5.566E-05	400
54.0	43920	2.928E-05	5.270E-05	400
58.0	24616	1.641E-05	2.954E-05	400
62.0	31676	2.112E-05	3.801E-05	400
66.0	28517	1.901E-05	3.422E-05	400
70.0	29866	1.991E-05	3.584E-05	400
74.0	27338	1.823E-05	3.281E-05	400
78.0	34351	2.290E-05	4.122E-05	400
82.0	3119	2.079E-06	3.743E-06	400
86.0	382	2.549E-07	4.588E-07	400
90.0	4	2.751E-09	4.951E-09	400
94.0	0	0.	0.	400

CROSSWIND INTEGRATED= 8.366E-03 1.506E-02  
SFC/SQ.M 1/M

TEST U56 JULY 18, 1967 0445 TO 0515 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 26M  
400M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
10.0	0	0.	0.	400
14.0	0	0.	0.	400
18.0	215	4.313E-07	1.854E-06	400
22.0	121	2.432E-07	1.046E-06	400
26.0	28	5.729E-08	2.463E-07	400
30.0	71	1.438E-07	6.181E-07	400
34.0	5	1.146E-08	4.927E-08	400
38.0	25	5.080E-08	2.184E-07	400
42.0	42	8.539E-08	3.672E-07	400
46.0	212	4.248E-07	1.827E-06	400
50.0	124	2.497E-07	1.074E-06	400
54.0	365	7.317E-07	3.147E-06	400
58.0	636	1.272E-06	5.470E-06	400
62.0	355	7.101E-07	3.054E-06	400
66.0	225	4.507E-07	1.938E-06	400
70.0	124	2.497E-07	1.074E-06	400
74.0	192	3.859E-07	1.659E-06	400
78.0	257	5.156E-07	2.217E-06	400
82.0	12	2.464E-08	1.060E-07	400
86.0	7	1.427E-08	6.135E-08	400
90.0	17	3.502E-08	1.506E-07	400
94.0	16	3.307E-08	1.422E-07	400

CROSSWIND INTEGRATED= 1.709E-04 7.349E-04  
SFC/SQ.M 1/M

TEST U56 JULY 18, 1967 0445 TO 0515 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
500M ARC SAMPLER HT 1.5M U= 1.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
E 12.0	0	0.	0.	500
F 16.0	478	3.191E-07	5.743E-07	500
F 20.0	10312	6.875E-06	1.237E-05	500
E 24.0	18563	1.238E-05	2.228E-05	500
F 28.0	16500	1.100E-05	1.980E-05	500
E 32.0	8524	5.663E-06	1.023E-05	500
E 36.0	7974	5.316E-06	9.559E-06	500
B 40.0	16594	1.106E-05	1.991E-05	500
44.0	58951	3.930E-05	7.074E-05	500
48.0	23820	1.588E-05	2.858E-05	500
52.0	51671	3.445E-05	6.201E-05	500
56.0	53122	3.542E-05	6.375E-05	500
60.0	33417	2.228E-05	4.010E-05	500
64.0	41627	2.775E-05	4.995E-05	500
68.0	31069	2.071E-05	3.728E-05	500
72.0	29321	1.955E-05	3.519E-05	500
76.0	30099	2.007E-05	3.612E-05	500
80.0	10276	6.851E-06	1.233E-05	500
84.0	529	3.530E-07	6.354E-07	500
88.0	16	1.100E-08	1.980E-08	500
92.0	28	1.925E-08	3.466E-08	500
96.0	0	0.	0.	500

CROSSWIND INTEGRATED= 1.031E-02 1.655E-02  
SFC/SQ.M 1/M

TEST U56 JULY 18, 1967 0445 TO 0515 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 26M  
500M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
B 36.0	144	2.886E-07	1.241E-06	500
40.0	257	5.156E-07	2.217E-06	500
44.0	131	2.627E-07	1.129E-06	500
48.0	24	4.864E-08	2.091E-07	500
52.0	1541	3.084E-06	1.326E-05	500
56.0	1768	3.538E-06	1.521E-05	500
60.0	1292	2.584E-06	1.111E-05	500
64.0	679	1.359E-06	5.842E-06	500
68.0	656	1.313E-06	5.647E-06	500
72.0	787	1.575E-06	6.772E-06	500
76.0	765	1.532E-06	6.586E-06	500
80.0	141	2.821E-07	1.213E-06	500
84.0	58	1.178E-07	5.066E-07	500
88.0	4	8.863E-09	3.811E-08	500
92.0	3	6.053E-09	2.603E-08	500
96.0	0	0.	0.	500

CROSSWIND INTEGRATED= 5.765E-04 2.479E-03  
SFC/SQ.M 1/M

TEST US6 JULY 18, 1967 0445 TO 0515 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
 600M ARC SAMPLER HT 1.5M U= 1.8 M/SEC AT 2M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
 DEGREES GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS  
 X10E+6

E 14.0	0	0.	0.	600
E 19.0	1647	1.098E-06	1.977E-06	600
E 22.0	10999	7.333E-06	1.320E-05	600
E 26.0	16500	1.100E-05	1.980E-05	600
E 30.0	9624	6.416E-06	1.155E-05	600
E 34.0	6598	4.399E-06	7.918E-06	600
E 38.0	8386	5.591E-06	1.006E-05	600
E 42.0	19394	1.293E-05	2.327E-05	600
E 46.0	56167	3.745E-05	6.740E-05	600
E 50.0	48611	3.241E-05	5.833E-05	600
E 54.0	43113	2.874E-05	5.174E-05	600
E 58.0	32818	2.188E-05	3.938E-05	600
E 62.0	29109	1.941E-05	3.493E-05	600
E 66.0	30837	2.056E-05	3.700E-05	600
E 70.0	19325	1.288E-05	2.319E-05	600
E 74.0	19184	1.279E-05	2.302E-05	600
E 78.0	3388	2.059E-06	3.707E-06	600
S 82.0	280	1.870E-07	3.367E-07	600
E 86.0	0	0.	0.	600

CROSSWIND INTEGRATED= 9.933E-03 1.788E-02  
 SEC/SQ.M 1/M

TEST US6 JULY 18, 1967 0445 TO 0515 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
 700M ARC SAMPLER HT 1.5M U= 1.8 M/SEC AT 2M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
 DEGREES GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS  
 X10E+6

E 12.0	0	0.	0.	700
E 16.0	6	4.584E-09	8.252E-09	700
E 20.0	3573	2.382E-06	4.288E-06	700
E 24.0	13337	8.897E-06	1.601E-05	700
E 28.0	12650	8.433E-06	1.518E-05	700
E 32.0	9211	6.141E-06	1.105E-05	700
E 36.0	7286	4.858E-06	8.744E-06	700
E 40.0	16638	1.109E-05	1.997E-05	700
E 44.0	34846	2.323E-05	4.182E-05	700
E 48.0	33952	2.263E-05	4.074E-05	700
E 52.0	35587	2.372E-05	4.270E-05	700
E 56.0	33040	2.203E-05	3.965E-05	700
E 60.0	22178	1.479E-05	2.661E-05	700
E 64.0	20822	1.388E-05	2.499E-05	700
E 68.0	16972	1.132E-05	2.037E-05	700
E 72.0	17034	1.136E-05	2.044E-05	700
E 76.0	19230	1.282E-05	2.308E-05	700
E 80.0	2021	1.348E-06	2.426E-06	700
E 84.0	19	1.284E-08	2.311E-08	700
E 88.0	0	0.	0.	700

CROSSWIND INTEGRATED= 9.722E-03 1.750E-02  
 SEC/SQ.M 1/M

TEST US6 JULY 18, 1967 0445 TO 0515 PST  
 FLUORESCCEIN RELEASE FROM ELEVATION OF 26M  
 600M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
 DEGREES GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS  
 X10E+6

R 42.0	300	6.014E-07	2.586E-06	600
E 46.0	592	1.185E-06	5.096E-06	600
E 50.0	656	1.313E-06	5.644E-06	600
E 54.0	1586	3.174E-06	1.365E-05	600
E 58.0	25	5.058E-08	2.175E-07	600
E 62.0	2108	4.218E-06	1.814E-05	600
E 66.0	1178	2.357E-06	1.013E-05	600
E 70.0	797	1.596E-06	6.862E-06	600
E 74.0	560	1.120E-06	4.817E-06	600
E 78.0	79	1.582E-07	6.804E-07	600
S 82.0	10	2.010E-08	8.645E-08	600
E 86.0	0	1.081E-09	4.648E-09	600

CROSSWIND INTEGRATED= 6.616E-04 2.845E-03  
 SEC/SQ.M 1/M

TEST US6 JULY 18, 1967 0445 TO 0515 PST  
 FLUORESCCEIN RELEASE FROM ELEVATION OF 26M  
 700M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
 DEGREES GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS  
 X10E+6

P 40.0	0	0.	0.	700
B 44.0	311	6.226E-07	2.677E-06	700
E 48.0	743	1.487E-06	6.395E-06	700
E 52.0	1064	2.129E-06	9.156E-06	700
E 56.0	1768	3.537E-06	1.521E-05	700
E 60.0	2517	5.035E-06	2.165E-05	700
E 64.0	1836	3.673E-06	1.579E-05	700
E 68.0	951	1.902E-06	8.180E-06	700
E 72.0	754	1.509E-06	6.488E-06	700
E 76.0	657	1.314E-06	5.652E-06	700
E 80.0	430	8.604E-07	3.700E-06	700
E 84.0	49	9.944E-08	4.276E-07	700
E 88.0	4	9.512E-09	4.090E-08	700

CROSSWIND INTEGRATED= 1.084E-03 4.660E-03  
 SEC/SQ.M 1/M



TEST U56 JULY 18, 1967 0445 TO 0515 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
800M ARC SAMPLER HT 1.5M U= 1.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	L/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
E 16.0	0	0.	0.	800
E 19.0	1097	7.317E-07	1.317E-06	800
E 22.0	5498	3.666E-06	6.598E-06	800
E 25.0	13750	9.167E-06	1.650E-05	800
E 28.0	12375	8.250E-06	1.485E-05	800
E 31.0	8249	5.499E-06	9.899E-06	800
E 34.0	7148	4.766E-06	8.579E-06	800
E 37.0	7148	4.766E-06	8.579E-06	800
B 40.0	4291	6.194E-06	1.115E-05	800
43.0	17456	1.164E-05	2.095E-05	800
46.0	37889	2.576E-05	4.547E-05	800
49.0	39666	2.644E-05	4.760E-05	800
52.0	31585	2.106E-05	3.790E-05	800
55.0	27950	1.863E-05	3.354E-05	800
58.0	18726	1.248E-05	2.247E-05	800
61.0	16617	1.108E-05	1.994E-05	800
W 64.0	15209	1.014E-05	1.825E-05	800
W 67.0	15162	1.011E-05	1.820E-05	800
W 70.0	16755	1.117E-05	2.011E-05	800
W 73.0	12229	1.153E-05	1.468E-05	800
76.0	17200	8.134E-06	1.464E-05	800
79.0	2505	1.671E-06	3.007E-06	800
82.0	B1	5.410E-08	9.737E-08	800
85.0	0	0.	0.	800

CROSSWIND INTEGRATED= 9.176E-03 SEC/SQ.M 1.652E-02 1/M

TEST U56 JULY 18, 1967 0445 TO 0515 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 26M  
800M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	L/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
B 40.0	224	4.494E-07	1.933E-06	800
43.0	365	7.305E-07	3.141E-06	800
46.0	646	1.293E-06	5.558E-06	800
49.0	927	1.855E-06	7.975E-06	800
52.0	1132	2.265E-06	9.741E-06	800
55.0	2108	4.217E-06	1.813E-05	800
58.0	3061	6.124E-06	2.633E-05	800
61.0	44	8.807E-08	3.787E-07	800
W 64.0	22	4.449E-08	1.913E-07	800
W 67.0	1155	2.311E-06	9.936E-06	800
W 70.0	882	1.766E-06	7.593E-06	800
W 73.0	701	1.403E-06	6.032E-06	800
76.0	700	1.401E-06	6.023E-06	800
79.0	365	7.305E-07	3.141E-06	800
82.0	153	3.068E-07	1.319E-06	800
85.0	17	3.567E-08	1.534E-07	800

CROSSWIND INTEGRATED= 1.048E-03 SEC/SQ.M 4.506E-03 1/M

TEST U56 JULY 18, 1967 0445 TO 0515 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
1200M ARC SAMPLER HT 1.5M U= 1.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	L/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
E 16.0	0	0.	0.	1200
E 18.0	14	9.665E-09	1.740E-08	1200
E 20.0	602	4.016E-07	7.230E-07	1200
E 22.0	1770	1.180E-06	2.124E-06	1200
E 24.0	3622	2.415E-06	4.347E-06	1200
E 26.0	5233	3.489E-06	6.280E-06	1200
E 28.0	4992	3.328E-06	5.991E-06	1200
E 30.0	4025	2.684E-06	4.831E-06	1200
E 32.0	3542	2.362E-06	4.251E-06	1200
E 34.0	3461	2.308E-06	4.154E-06	1200
F 36.0	3461	2.308E-06	4.154E-06	1200
F 38.0	3381	2.254E-06	4.057E-06	1200
B 40.0	3328	2.219E-06	3.995E-06	1200
42.0	3099	2.066E-06	3.719E-06	1200
44.0	5476	3.651E-06	6.571E-06	1200
46.0	11400	7.800E-06	1.368E-05	1200
W 48.0	26135	1.742E-05	3.136E-05	1200
W 50.0	24659	1.644E-05	2.959E-05	1200
52.0	12282	8.189E-06	1.474E-05	1200
54.0	7148	4.766E-06	8.578E-06	1200
56.0	7798	5.199E-06	9.358E-06	1200
58.0	5475	3.650E-06	6.570E-06	1200
60.0	4530	3.020E-06	5.437E-06	1200
62.0	2089	1.393E-06	2.507E-06	1200
64.0	4753	3.169E-06	5.704E-06	1200
66.0	3938	2.626E-06	4.726E-06	1200
68.0	1912	1.275E-06	2.295E-06	1200
70.0	3498	2.333E-06	4.199E-06	1200
72.0	8441	5.627E-06	1.013E-05	1200
74.0	4246	2.831E-06	5.076E-06	1200
76.0	2026	1.351E-06	2.432E-06	1200
78.0	923	6.159E-07	1.109E-06	1200
80.0	339	2.261E-07	4.069E-07	1200
82.0	16	1.128E-08	2.030E-08	1200
84.0	16	1.128E-08	2.030E-08	1200
86.0	12	8.054E-09	1.450E-08	1200
88.0	0	0.	0.	1200

CROSSWIND INTEGRATED= 4.961E-03 SEC/SQ.M 8.930E-03 1/M

TEST U56 JULY 18, 1967 0445 TO 0515 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 26M  
1200M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	L/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
B 40.0	165	3.312E-07	1.424E-06	1200
42.0	165	3.312E-07	1.424E-06	1200
44.0	302	6.947E-07	2.600E-06	1200
46.0	466	9.338E-07	4.015E-06	1200
W 48.0	606	1.212E-06	5.213E-06	1200
W 50.0	985	1.972E-06	8.479E-06	1200
52.0	1517	3.035E-06	1.305E-05	1200
54.0	2695	5.390E-06	2.318E-05	1200
56.0	3796	7.593E-06	3.265E-05	1200
58.0	3956	7.913E-06	3.402E-05	1200
60.0	3590	7.182E-06	3.088E-05	1200
62.0	2581	5.162E-06	2.220E-05	1200
64.0	2277	4.555E-06	1.950E-05	1200
66.0	1973	3.947E-06	1.697E-05	1200
68.0	1403	2.808E-06	1.207E-05	1200
70.0	1251	2.504E-06	1.077E-05	1200
72.0	1061	2.124E-06	9.133E-06	1200
74.0	985	1.972E-06	8.479E-06	1200
76.0	834	1.668E-06	7.173E-06	1200
78.0	618	1.238E-06	5.322E-06	1200
80.0	390	7.807E-07	3.357E-06	1200
82.0	209	4.190E-07	1.802E-06	1200
84.0	88	1.778E-07	7.647E-07	1200
86.0	65	1.308E-07	5.625E-07	1200
88.0	6	1.326E-08	5.703E-08	1200

CROSSWIND INTEGRATED= 2.681E-03 SEC/SQ.M 1.153E-02 1/M

TEST US6 JULY 18, 1967 0445 TO 0515 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
 1600M ARC SAMPLER HT 1.5M U= 1.0 M/SEC AT 2M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
 DEGREES GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS  
 X10E+6

E	18.0	0	0.	0.	1600
E	20.0	119	7.947E-08	1.430E-07	1600
E	22.0	763	5.040E-07	9.163E-07	1600
E	24.0	2173	1.449E-06	2.608E-06	1600
E	26.0	3783	2.523E-06	4.541E-06	1600
E	28.0	3622	2.415E-06	4.347E-06	1600
E	30.0	3220	2.147E-06	3.864E-06	1600
E	32.0	2817	1.878E-06	3.381E-06	1600
E	34.0	2656	1.771E-06	3.188E-06	1600
E	36.0	2817	1.878E-06	3.381E-06	1600
E	38.0	3220	2.147E-06	3.864E-06	1600
B	40.0	3802	2.535E-06	4.563E-06	1600
	42.0	4177	2.785E-06	5.012E-06	1600
	44.0	2763	1.842E-06	3.316E-06	1600
	46.0	7002	4.668E-06	8.403E-06	1600
	48.0	11973	7.982E-06	1.437E-05	1500
	50.0	9604	6.403E-06	1.153E-05	1600
	52.0	6880	4.587E-06	8.257E-06	1600
	54.0	6275	4.184E-06	7.531E-06	1600
	56.0	6026	4.018E-06	7.232E-06	1600
	58.0	6331	4.221E-06	7.598E-06	1600
	60.0	3070	2.047E-06	3.684E-06	1600
	62.0	3570	2.380E-06	4.285E-06	1600
E	64.0	3279	2.187E-06	3.936E-06	1600
E	66.0	2467	1.645E-06	2.961E-06	1600
	68.0	2329	1.553E-06	2.795E-06	1600
	70.0	4287	2.858E-06	5.145E-06	1600
E	72.0	3301	2.201E-06	3.962E-06	1600
E	74.0	1729	1.153E-06	2.075E-06	1600
E	76.0	776	5.176E-07	9.317E-07	1600
E	78.0	428	2.857E-07	5.142E-07	1600
	80.0	80	5.370E-08	9.665E-08	1600
	82.0	16	1.074E-08	1.933E-08	1600
	84.0	0	0.	0.	1600

CROSSWIND INTEGRATED= 4.296E-03 7.732E-03  
 SEC/SQ.M 1/M

TEST US6 JULY 18, 1967 0445 TO 0515 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
 3200M ARC SAMPLER HT 1.5M U= 1.3 M/SEC AT 2M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
 DEGREES GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS  
 X10E+6

E	24.0	0	0.	0.	3200
E	26.0	124	8.312E-08	1.496E-07	3200
E	28.0	459	3.062E-07	5.512E-07	3200
F	30.0	668	4.457E-07	8.023E-07	3200
E	32.0	794	5.294E-07	9.529E-07	3200
E	34.0	335	5.573E-07	1.003E-06	3200
E	36.0	877	5.852E-07	1.053E-06	3200
E	38.0	877	5.852E-07	1.053E-06	3200
E	40.0	719	6.130E-07	1.103E-06	3200
E	42.0	1003	6.688E-07	1.204E-06	3200
E	44.0	1170	7.804E-07	1.405E-06	3200
E	46.0	1588	1.059E-06	1.907E-06	3200
E	46.0	2007	1.338E-06	2.409E-06	3200
E	50.0	2174	1.450E-06	2.610E-06	3200
E	52.0	2174	1.450E-06	2.610E-06	3200
E	54.0	1965	1.310E-06	2.359E-06	3200
E	56.0	1756	1.171E-06	2.108E-06	3200
E	58.0	1463	9.756E-07	1.756E-06	3200
B	60.0	1236	8.245E-07	1.484E-06	3200
	62.0	1025	6.836E-07	1.231E-06	3200
	64.0	738	4.926E-07	8.866E-07	3200
	66.0	489	3.260E-07	5.869E-07	3200
	68.0	351	2.340E-07	4.212E-07	3200
	70.0	221	1.475E-07	2.656E-07	3200
	72.0	106	7.112E-08	1.280E-07	3200
	74.0	34	2.315E-08	4.167E-08	3200
H	76.0	35	2.399E-08	4.318E-08	3200
	78.0	0	5.578E-10	1.004E-09	3200
H	80.0	7	5.299E-09	9.539E-09	3200
	82.0	0	0.	0.	3200

CROSSWIND INTEGRATED= 1.870E-03 3.366E-03  
 SEC/SQ.M 1/M

TEST US6 JULY 18, 1967 0445 TO 0515 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 26M  
 1600M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
 DEGREES GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS  
 X10E+6

B	40.0	76	1.525E-07	6.559E-07	1600
M	42.0	114	2.285E-07	9.825E-07	1600
	44.0	197	3.949E-07	1.698E-06	1600
	46.0	281	5.637E-07	2.424E-06	1600
	48.0	438	8.772E-07	3.772E-06	1500
	50.0	49	9.827E-08	4.225E-07	1600
	52.0	1631	3.263E-06	1.403E-05	1600
	54.0	2277	4.555E-06	1.958E-05	1600
	56.0	3150	6.302E-06	2.710E-05	1600
	58.0	4049	8.099E-06	3.483E-05	1600
	60.0	4429	8.859E-06	3.809E-05	1500
	62.0	4049	8.099E-06	3.483E-05	1600
I	64.0	0	1.206E-09	5.185E-09	1600
I	66.0	4	9.284E-09	3.992E-08	1600
	68.0	87	1.742E-07	7.492E-07	1600
	70.0	78	1.561E-07	6.714E-07	1600
I	72.0	1	2.291E-09	9.851E-09	1600
I	74.0	7	1.471E-08	6.325E-08	1600
P	76.0	3	6.752E-09	2.903E-08	1600
P	78.0	0	0.	0.	1600
	80.0	311	6.240E-07	2.683E-06	1600
	82.0	128	2.574E-07	1.107E-06	1600
	84.0	37	7.536E-08	3.240E-07	1600

CROSSWIND INTEGRATED= 2.391E-03 1.028E-02  
 SEC/SQ.M 1/M

TEST US6 JULY 18, 1967 0445 TO 0515 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 26M  
 3200M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
 DEGREES GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS  
 X10E+6

B	60.0	1103	2.208E-06	9.494E-06	3200
	62.0	985	1.971E-06	8.476E-06	3200
	64.0	985	1.971E-06	8.476E-06	3200
	66.0	768	1.537E-06	6.610E-06	3200
	68.0	610	1.222E-06	5.253E-06	3200
	70.0	452	9.059E-07	3.895E-06	3200
	72.0	308	6.166E-07	2.651E-06	3200
	74.0	218	4.368E-07	1.878E-06	3200
H	76.0	115	2.302E-07	9.897E-07	3200
	78.0	51	1.037E-07	4.457E-07	3200
H	80.0	16	3.351E-08	1.441E-07	3200
	82.0	3	6.325E-09	2.720E-08	3200

CROSSWIND INTEGRATED= 1.256E-03 5.400E-03  
 SEC/SQ.M 1/M

SAMPLING 400M TO 3200M; NO TOWER SAMPLING.  
 TRACER DISTRIBUTION EXTENSIVE BEYOND SAMPLERS AT 3200M, AND TO LESSER EXTENT AT 1600M. ZNS EXTRAPOLATED AT  
 3200M. STRONG LOW-LEVEL TEMPERATURE INVERSION.

TEST U57 AUGUST 1, 1967 0450 TO 0520 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
 400M ARC SAMPLER HT 1.5M U= 1.5 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
62.0	0	0.	0.	400
5 66.0	363	2.895E-07	4.343E-07	400
70.0	255	2.039E-07	3.050E-07	400
74.0	30	2.413E-08	3.619E-08	400
78.0	11	9.191E-09	1.379E-08	400
4 82.0	12	1.034E-08	1.551E-08	400
3 86.0	10993	8.746E-06	1.312E-05	400
3 90.0	53146	4.228E-05	6.342E-05	400
3 94.0	168194	1.338E-04	2.007E-04	400
3 98.0	86658	6.894E-05	1.034E-04	400
102.0	264424	2.104E-04	3.155E-04	400
106.0	393254	3.129E-04	4.693E-04	400
4 110.0	160537	1.277E-04	1.916E-04	400
6 114.0	11864	9.439E-06	1.416E-05	400
118.0	36	2.877E-08	4.308E-08	400
122.0	0	0.	0.	400

CROSSWIND INTEGRATED= 2.554E-02 3.832E-02  
 SFC/SQ.M 1/M

TEST U57 AUGUST 1, 1967 0450 TO 0520 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
 600M ARC SAMPLER HT 1.5M U= 1.5 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
59.0	0	0.	0.	600
62.0	5	4.595E-09	6.893E-09	600
66.0	5	4.595E-09	6.893E-09	500
70.0	358	2.849E-07	4.274E-07	600
74.0	553	4.400E-07	6.600E-07	600
E 78.0	979	7.789E-07	1.168E-06	600
E 82.0	1831	1.457E-06	2.185E-06	600
E 86.0	1946	1.549E-06	2.323E-06	600
E 90.0	16631	1.323E-05	1.985E-05	600
94.0	76288	6.069E-05	9.104E-05	600
98.0	200679	1.596E-04	2.395E-04	600
102.0	246046	1.957E-04	2.936E-04	600
106.0	394767	3.141E-04	4.711E-04	600
110.0	153675	1.223E-04	1.834E-04	500
114.0	6078	4.835E-06	7.253E-06	600
118.0	2	2.298E-09	3.446E-09	600
122.0	0	0.	0.	600

CROSSWIND INTEGRATED= 3.665E-02 5.498E-02  
 SFC/SQ.M 1/M

TEST U57 AUGUST 1, 1967 0450 TO 0520 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 26M  
 400M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
70.0	0	0.	0.	400
74.0	1	2.632E-09	8.950E-09	400
78.0	5	8.390E-09	2.853E-08	400
4 82.0	12	1.925E-08	6.544E-08	400
86.0	11	1.826E-08	6.209E-08	400
90.0	15	2.418E-08	8.222E-08	400
94.0	24	3.702E-08	1.259E-07	400
98.0	26	4.031E-08	1.370E-07	400
102.0	20	3.060E-08	1.040E-07	400
106.0	89	1.357E-07	4.615E-07	400
110.0	38	5.840E-08	1.986E-07	400
4 114.0	40	6.169E-08	2.098E-07	400
6 118.0	102	1.555E-07	5.286E-07	400
8 122.0	27	4.195E-08	1.426E-07	400

CROSSWIND INTEGRATED= 1.770E-05 6.018E-05  
 SEC/SQ.M 1/M

TEST U57 AUGUST 1, 1967 0450 TO 0520 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 26M  
 600M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
66.0	0	0.	0.	600
70.0	0	0.	0.	600
74.0	0	0.	0.	600
I 78.0	0	0.	0.	600
I 82.0	0	0.	0.	600
I 86.0	0	0.	0.	600
I 90.0	0	0.	0.	600
94.0	14	2.177E-08	7.383E-08	600
98.0	17	2.616E-08	8.894E-08	600
102.0	30	4.656E-08	1.583E-07	600
106.0	44	6.794E-08	2.310E-07	600
110.0	17	2.616E-08	8.894E-08	600
114.0	0	6.581E-10	2.237E-09	600
118.0	0	0.	0.	500
122.0	2	3.948E-09	1.342E-08	600

CROSSWIND INTEGRATED= 8.090E-06 2.751E-05  
 SEC/SQ.M 1/M

TEST U57 AUGUST 1, 1967 0450 TO 0520 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
 700M ARC SAMPLER HT 1.5M U= 1.5 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
56.0	0	0.	0.	700
60.0	21	1.723E-08	2.585E-08	700
64.0	0	0.	0.	700
68.0	12	1.034E-08	1.551E-08	700
72.0	178	8.616E-08	1.292E-07	700
76.0	135	1.087E-07	1.620E-07	700
5 80.0	10	8.042E-09	1.206E-08	700
84.0	103	8.277E-08	1.241E-07	700
88.0	235	1.873E-07	2.809E-07	700
92.0	11900	9.467E-06	1.420E-05	700
E 96.0	14883	1.582E-05	2.373E-05	700
100.0	182607	1.453E-04	2.179E-04	700
104.0	352837	7.807E-04	4.210E-04	700
108.0	498660	3.967E-04	5.951E-04	700
4 112.0	21526	1.713E-05	2.569E-05	700
116.0	96	7.697E-08	1.155E-07	700
120.0	0	0.	0.	700

CROSSWIND INTEGRATED= 4.230E-02 SEC/SQ.M  
 6.346E-02 1/M

TEST U57 AUGUST 1, 1967 0450 TO 0520 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
 800M ARC SAMPLER HT 1.5M U= 1.5 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
58.0	0	0.	0.	800
61.0	0	0.	0.	800
64.0	0	0.	0.	800
67.0	17	1.379E-08	2.068E-08	800
70.0	122	9.765E-08	1.465E-07	800
73.0	436	3.469E-07	5.204E-07	800
76.0	441	3.515E-07	5.273E-07	800
79.0	46	3.676E-08	5.514E-08	800
82.0	36	2.472E-08	4.308E-08	800
85.0	63	5.055E-08	7.582E-08	800
88.0	73	5.859E-08	8.789E-08	800
4 91.0	1260	1.003E-06	1.504E-06	800
94.0	13941	1.109E-05	1.664E-05	800
97.0	93531	7.441E-05	1.116E-04	800
W 100.0	104353	8.302E-05	1.245E-04	800
W 103.0	30439	2.422E-05	3.632E-05	800
W 106.0	191731	1.525E-04	2.288E-04	800
W 109.0	95232	7.576E-05	1.136E-04	800
112.0	61768	4.914E-05	7.371E-05	800
115.0	4057	3.228E-06	4.842E-06	800
118.0	2	2.298E-09	3.446E-09	800
121.0	0	0.	0.	800

CROSSWIND INTEGRATED= 1.991E-02 SEC/SQ.M  
 2.987E-02 1/M

TEST U57 AUGUST 1, 1967 0450 TO 0520 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 26M  
 700M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
56.0	7	1.185E-08	4.027E-08	700
60.0	5	7.897E-09	2.635E-08	700
64.0	6	9.871E-09	3.356E-08	700
64.0	6	9.377E-09	3.188E-08	700
72.0	0	0.	0.	700
76.0	57	8.802E-08	2.993E-07	700
5 80.0	6	9.871E-09	3.356E-08	700
84.0	6	9.871E-09	3.356E-08	700
88.0	3	4.935E-09	1.678E-08	700
92.0	7	1.066E-08	3.642E-08	700
0 96.0	16	2.566E-08	8.726E-08	700
100.0	27	4.195E-08	1.426E-07	700
104.0	41	6.334E-08	2.154E-07	700
108.0	89	1.397E-07	4.615E-07	700
8 112.0	25	3.866E-08	1.314E-07	700
116.0	0	0.	0.	700
120.0	2	3.290E-09	1.119E-08	700

CROSSWIND INTEGRATED= 7.303E-05 SEC/SQ.M  
 7.829E-05 1/M

TEST U57 AUGUST 1, 1967 0450 TO 0520 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 26M  
 800M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
64.0	1	1.645E-09	5.594E-09	800
67.0	0	0.	0.	800
70.0	5	8.390E-09	2.853E-08	800
73.0	0	0.	0.	800
76.0	0	0.	0.	800
79.0	0	1.316E-09	4.475E-09	800
82.0	0	0.	0.	800
85.0	0	0.	0.	800
88.0	0	4.935E-10	1.678E-09	800
4 91.0	0	0.	0.	800
94.0	0	0.	0.	800
97.0	14	2.270E-08	7.719E-08	800
W 100.0	34	5.162E-08	1.762E-07	800
W 103.0	11	1.826E-08	6.209E-08	800
W 106.0	39	6.005E-08	2.042E-07	800
W 109.0	23	3.537E-08	1.203E-07	800
112.0	18	2.764E-08	9.397E-08	800
115.0	2	3.290E-09	1.119E-08	800
118.0	8	1.234E-08	4.195E-08	800
121.0	10	1.629E-08	5.538E-08	800

CROSSWIND INTEGRATED= 1.087E-05 SEC/SQ.M  
 3.697E-05 1/M

TEST U57 AUGUST 1, 1967 0450 TO 0520 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
 1200M ARC SAMPLER HT 1.5M U= 1.5 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
48.0	0	0.	0.	1200
50.0	0	0.	0.	1200
52.0	0	0.	0.	1200
54.0	4	3.845E-09	5.767E-09	1200
56.0	12	1.025E-08	1.538E-08	1200
58.0	6	5.126E-09	7.689E-09	1200
60.0	24	1.922E-08	2.883E-08	1200
62.0	27	2.179E-08	3.268E-08	1200
E 64.0	30	2.435E-08	3.652E-08	1200
F 66.0	30	2.435E-08	3.652E-08	1200
68.0	33	2.627E-08	3.941E-08	1200
70.0	81	6.472E-08	9.708E-08	1200
72.0	25	2.050E-09	3.076E-08	1200
74.0	147	1.173E-07	1.759E-07	1200
76.0	148	1.179E-07	1.769E-07	1200
78.0	298	2.371E-07	3.556E-07	1200
4 80.0	263	2.095E-07	3.143E-07	1200
3 82.0	242	1.929E-07	2.893E-07	1200
4 84.0	147	1.173E-07	1.759E-07	1200
4 86.0	70	5.639E-08	8.458E-08	1200
58.0	193	1.538E-07	2.307E-07	1200
90.0	239	1.903E-07	2.855E-07	1200
3 92.0	229	1.826E-07	2.739E-07	1200
4 94.0	344	2.742E-07	4.114E-07	1200
3 96.0	932	7.420E-07	1.113E-06	1200
3 98.0	9168	7.294E-06	1.094E-05	1200
4 100.0	38835	3.090E-05	4.634E-05	1200
4 102.0	61249	4.873E-05	7.309E-05	1200
W 104.0	59185	4.708E-05	7.065E-05	1200
W 106.0	72305	5.752E-05	8.628E-05	1200
4 108.0	122622	9.755E-05	1.465E-04	1200
4 110.0	89299	7.104E-05	1.066E-04	1200
4 112.0	30277	2.409E-05	3.613E-05	1200
4 114.0	9571	7.614E-06	1.142E-05	1200
6 116.0	343	2.730E-07	4.094E-07	1200
118.0	133	1.064E-07	1.596E-07	1200
120.0	20	1.602E-08	2.403E-08	1200
4 122.0	12	9.611E-09	1.442E-08	1200

CROSSWIND INTEGRATED= 1.655E-02 2.482E-02  
 SEC/SQ.M 1/M

TEST U57 AUGUST 1, 1967 0450 TO 0520 PST  
 FLUORESCHEIN RELEASE FROM ELEVATION OF 26M  
 1200M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
52.0	0	9.176E-10	3.120E-09	1200
54.0	0	0.	0.	1200
56.0	0	0.	0.	1200
58.0	0	0.	0.	1200
60.0	0	0.	0.	1200
62.0	0	0.	0.	1200
P 64.0	0	0.	0.	1200
P 66.0	0	0.	0.	1200
68.0	0	0.	0.	1200
72.0	0	0.	0.	1200
74.0	0	0.	0.	1200
76.0	8	1.349E-08	4.586E-08	1200
78.0	16	2.523E-08	8.580E-08	1200
4 80.0	3	4.955E-09	1.685E-08	1200
82.0	4	7.433E-09	2.527E-08	1200
4 84.0	3	5.506E-09	1.872E-08	1200
4 86.0	4	7.433E-09	2.527E-08	1200
88.0	1	2.478E-09	8.424E-09	1200
90.0	0	0.	0.	1200
92.0	7	1.074E-08	3.650E-08	1200
4 94.0	34	5.184E-08	1.763E-07	1200
96.0	16	2.523E-08	8.580E-08	1200
98.0	24	3.716E-08	1.264E-07	1200
4 100.0	38	5.827E-08	1.981E-07	1200
4 102.0	78	1.197E-07	4.071E-07	1200
W 104.0	76	1.170E-07	3.970E-07	1200
W 106.0	172	2.620E-07	8.907E-07	1200
4 108.0	190	2.895E-07	9.643E-07	1200
4 110.0	328	5.005E-07	1.702E-06	1200
4 112.0	232	3.537E-07	1.203E-06	1200
4 114.0	80	1.225E-07	4.165E-07	1200
6 116.0	141	2.161E-07	7.347E-07	1200
118.0	85	1.308E-07	4.446E-07	1200
120.0	23	3.533E-08	1.201E-07	1200
4 122.0	18	2.890E-08	9.827E-08	1200

CROSSWIND INTEGRATED= 1.017E-04 3.456E-04  
 SEC/SQ.M 1/M

TEST U57 AUGUST 1, 1967 0450 TO 0520 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
1600M ARC SAMPLER HT 1.5M U= 1.5 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
62.0	0	0.	0.	1600
64.0	10	8.330E-09	1.249E-08	1600
66.0	35	2.819E-08	4.229E-08	1600
68.0	28	2.243E-08	3.364E-08	1600
70.0	120	9.547E-08	1.432E-07	1600
72.0	82	6.536E-08	9.804E-08	1600
74.0	169	1.346E-07	2.018E-07	1600
76.0	189	1.506E-07	2.259E-07	1600
78.0	178	1.416E-07	2.124E-07	1500
80.0	219	1.743E-07	2.614E-07	1600
82.0	398	3.172E-07	4.758E-07	1600
84.0	378	3.012E-07	4.517E-07	1600
86.0	495	3.941E-07	5.911E-07	1600
88.0	760	6.049E-07	9.073E-07	1600
90.0	881	7.010E-07	1.051E-06	1500
92.0	1013	8.061E-07	1.209E-06	1600
94.0	1516	1.207E-06	1.810E-06	1600
4 96.0	1034	8.227E-07	1.234E-06	1600
98.0	1293	1.024E-06	1.544E-06	1600
100.0	3948	3.141E-06	4.712E-06	1600
102.0	14411	1.147E-05	1.720E-05	1500
104.0	43554	3.465E-05	5.197E-05	1600
5 106.0	32368	2.575E-05	3.863E-05	1600
5 108.0	37282	2.966E-05	4.449E-05	1600
3 110.0	43352	3.449E-05	5.173E-05	1600
5 112.0	9078	7.223E-06	1.083E-05	1600
4 114.0	3467	2.759E-06	4.138E-06	1600
5 116.0	415	3.306E-07	4.960E-07	1600
4 118.0	124	9.868E-08	1.480E-07	1600
5 120.0	9	7.689E-09	1.153E-08	1600
122.0	10	8.330E-09	1.249E-08	1600

CROSSWIND INTEGRATED= 8.745E-03 SEC/SQ.M 1.312E-02 1/M

TEST U57 AUGUST 1, 1967 0450 TO 0520 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
3200M ARC SAMPLER HT 1.5M U= 1.5 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
0 80.0	0	0.	0.	3200
5 82.0	10	8.654E-09	1.298E-08	3200
Y 84.0	196	1.564E-07	2.346E-07	3200
E 86.0	274	2.187E-07	3.280E-07	3200
88.0	428	3.412E-07	5.117E-07	3200
90.0	2295	1.814E-06	2.728E-06	3200
92.0	1665	1.325E-06	1.988E-06	3200
94.0	1204	9.579E-07	1.437E-06	3200
E 96.0	1291	1.028E-06	1.542E-06	3200
98.0	1791	1.425E-06	2.137E-06	3200
E 100.0	1088	8.657E-07	1.299E-06	3200
102.0	617	4.909E-07	7.364E-07	3200
104.0	1579	1.256E-06	1.885E-06	3200
106.0	839	6.660E-07	1.002E-06	3200
5 108.0	305	2.433E-07	3.649E-07	3200
110.0	2123	1.689E-06	2.534E-06	3200
5 112.0	717	5.711E-07	8.567E-07	3200
B 114.0	3090	2.458E-06	3.687E-06	3200
E 116.0	2509	1.996E-06	2.994E-06	3200
E 118.0	1212	9.645E-07	1.447E-06	3200
E 120.0	417	3.322E-07	4.982E-07	3200
E 122.0	70	5.592E-08	8.387E-08	3200
E 124.0	0	0.	0.	3200

CROSSWIND INTEGRATED= 2.108E-03 SEC/SQ.M 3.162E-03 1/M

TEST U57 AUGUST 1, 1967 0450 TO 0520 PST  
FLUORESCENCE RELEASE FROM ELEVATION OF 26M  
1600M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
62.0	2	3.854E-09	1.310E-08	1500
64.0	2	3.395E-09	1.154E-08	1600
66.0	0	4.588E-10	1.540E-09	1600
68.0	0	0.	0.	1600
72.0	3	4.955E-09	1.685E-08	1600
74.0	0	1.285E-09	4.388E-09	1500
76.0	15	2.340E-08	7.956E-08	1600
78.0	5	7.708E-09	2.621E-08	1600
80.0	5	7.708E-09	2.621E-08	1600
82.0	1	2.386E-09	8.112E-09	1600
84.0	1	1.743E-09	5.928E-09	1600
86.0	1	1.835E-09	6.240E-09	1500
88.0	5	8.258E-09	2.808E-08	1600
90.0	3	4.680E-09	1.591E-08	1600
92.0	3	4.955E-09	1.685E-08	1600
94.0	11	1.679E-08	5.709E-08	1600
4 96.0	20	3.166E-08	1.076E-07	1600
98.0	31	4.817E-08	1.638E-07	1500
100.0	12	1.973E-08	6.708E-08	1600
102.0	28	4.267E-08	1.451E-07	1600
104.0	87	1.335E-07	4.539E-07	1600
5 106.0	250	3.813E-07	1.296E-06	1600
5 108.0	244	3.721E-07	1.265E-06	1600
110.0	896	1.354E-06	4.638E-06	1500
5 112.0	832	1.268E-06	4.310E-06	1600
4 114.0	455	6.932E-07	2.357E-06	1600
5 116.0	352	5.373E-07	1.827E-06	1600
4 118.0	292	4.455E-07	1.515E-06	1600
5 120.0	62	9.497E-08	3.229E-07	1600
8 122.0	29	4.450E-08	1.513E-07	1500

CROSSWIND INTEGRATED= 3.112E-04 SEC/SQ.M 1.058E-03 1/M

TEST U57 AUGUST 1, 1967 0450 TO 0520 PST  
FLUORESCENCE RELEASE FROM ELEVATION OF 26M  
3200M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
0 80.0	0	0.	0.	3200
5 82.0	6	9.294E-09	3.160E-08	3200
W 84.0	40	6.220E-08	2.115E-07	3200
U 86.0	252	3.839E-07	1.305E-06	3200
88.0	86	1.313E-07	4.465E-07	3200
90.0	230	3.506E-07	1.192E-06	3200
92.0	105	1.599E-07	5.437E-07	3200
94.0	108	1.647E-07	5.599E-07	3200
0 96.0	117	1.790E-07	6.085E-07	3200
98.0	214	3.267E-07	1.111E-06	3200
U 100.0	264	4.030E-07	1.370E-06	3200
102.0	177	2.695E-07	9.164E-07	3200
104.0	302	4.602E-07	1.565E-06	3200
106.0	199	3.029E-07	1.030E-06	3200
5 108.0	211	3.220E-07	1.095E-06	3200
110.0	419	6.384E-07	2.171E-06	3200
5 112.0	866	1.319E-06	4.485E-06	3200
B 114.0	4272	6.504E-06	2.211E-05	3200

CROSSWIND INTEGRATED= 1.339E-03 SEC/SQ.M 4.552E-03 1/M

SAMPLING 400M TO 3200M: NO TOWER SAMPLING.  
 ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER DISTRIBUTIONS.  
 UNUSUAL APPEARANCE OF ZNS REMAINING IN DISPERSAL APPARATUS FOLLOWING TRACER RELEASE LEAVES SOME DOUBT ON "Q".

TEST US8 AUGUST 24, 1967 0415 TO 0445 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
 400M ARC SAMPLER HT 1.5M U= 3.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
74.0	0	0.	0.	400
78.0	818	1.843E-06	5.898E-06	400
82.0	1837	4.138E-06	1.324E-05	400
86.0	3771	8.493E-06	2.718E-05	400
90.0	9262	2.086E-05	6.676E-05	400
94.0	19769	2.020E-05	6.465E-05	400
98.0	7290	1.642E-05	5.254E-05	400
102.0	3142	7.078E-06	2.265E-05	400
106.0	152	3.438E-07	1.100E-06	400
110.0	6	1.549E-08	4.956E-08	400
6 114.0	8	1.859E-08	5.947E-08	400
118.0	0	0.	0.	400

CROSSWIND INTEGRATED= 2.218E-03 SEC/SQ.M  
 7.097E-03 1/H

TEST US8 AUGUST 24, 1967 0415 TO 0445 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
 600M ARC SAMPLER HT 1.5M U= 3.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
66.0	0	0.	0.	600
70.0	9	2.168E-08	6.933E-08	500
74.0	9	2.168E-08	6.933E-08	600
78.0	0	0.	0.	600
82.0	15	3.407E-08	1.090E-07	600
86.0	244	5.514E-07	1.764E-06	600
90.0	308	6.938E-07	2.220E-06	600
94.0	5637	1.270E-05	4.063E-05	600
98.0	1796	4.045E-06	1.295E-05	600
102.0	1488	3.352E-06	1.072E-05	600
106.0	27	6.195E-08	1.982E-07	600
110.0	0	0.	0.	600

CROSSWIND INTEGRATED= 8.997E-04 SEC/SQ.M  
 2.879E-03 1/H

TEST US8 AUGUST 24, 1967 0415 TO 0445 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
 700M ARC SAMPLER HT 1.5M U= 3.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
76.0	0	0.	0.	700
80.0	590	1.329E-06	4.252E-06	700
84.0	1661	3.742E-06	1.197E-05	700
88.0	1675	3.773E-06	1.207E-05	700
92.0	3175	7.152E-06	2.289E-05	700
96.0	3251	7.323E-06	2.343E-05	700
100.0	1988	4.479E-06	1.433E-05	700
104.0	371	8.363E-07	2.676E-06	700
108.0	67	1.514E-07	4.857E-07	700
5 112.0	11	2.478E-08	7.930E-08	700
116.0	0	0.	0.	700

CROSSWIND INTEGRATED= 1.408E-03 SEC/SQ.M  
 4.505E-03 1/H

TEST US8 AUGUST 24, 1967 0415 TO 0445 PST  
 FLUORESCHEIN RELEASE FROM ELEVATION OF 26M  
 400M ARC SAMPLER HT 1.5M U= 5.6 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
74.0	0	0.	0.	400
78.0	13	3.493E-08	1.956E-07	400
82.0	539	1.386E-06	7.761E-06	400
86.0	852	2.192E-06	1.227E-05	400
90.0	2994	7.699E-06	4.311E-05	400
94.0	3131	8.049E-06	4.507E-05	400
98.0	2313	5.948E-06	3.331E-05	400
102.0	2041	5.248E-06	2.939E-05	400
106.0	284	7.318E-07	4.098E-06	400
110.0	50	1.300E-07	7.277E-07	400
6 114.0	2	6.863E-09	3.843E-08	400
118.0	0	0.	0.	400

CROSSWIND INTEGRATED= 8.776E-04 SEC/SQ.M  
 4.914E-03 1/H

TEST US8 AUGUST 24, 1967 0415 TO 0445 PST  
 FLUORESCHEIN RELEASE FROM ELEVATION OF 26M  
 600M ARC SAMPLER HT 1.5M U= 5.6 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
70.0	0	0.	0.	600
74.0	0	1.084E-09	6.068E-09	500
78.0	0	8.338E-11	4.668E-10	600
82.0	3	9.419E-09	5.275E-08	600
E 86.0	516	1.327E-06	7.431E-06	600
E 90.0	2994	7.699E-06	4.311E-05	600
94.0	4288	1.102E-05	6.174E-05	600
98.0	2245	5.773E-06	3.233E-05	600
102.0	2313	5.948E-06	3.331E-05	600
106.0	121	3.133E-07	1.755E-06	600
110.0	10	2.659E-08	1.489E-07	600

CROSSWIND INTEGRATED= 1.346E-03 SEC/SQ.M  
 7.535E-03 1/H

TEST US8 AUGUST 24, 1967 0415 TO 0445 PST  
 FLUORESCHEIN RELEASE FROM ELEVATION OF 26M  
 700M ARC SAMPLER HT 1.5M U= 5.6 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
76.0	2	6.030E-09	3.377E-08	700
E 80.0	18	4.743E-08	2.656E-07	700
E 84.0	225	5.801E-07	3.248E-06	700
88.0	1973	5.073E-06	2.841E-05	700
92.0	4901	1.260E-05	7.056E-05	700
96.0	3380	9.974E-06	5.586E-05	700
100.0	2586	6.649E-06	3.723E-05	700
104.0	1133	2.914E-06	1.632E-05	700
108.0	47	1.216E-07	6.811E-07	700
5 112.0	1	2.667E-09	1.494E-08	700
116.0	0	2.084E-09	1.167E-08	700

CROSSWIND INTEGRATED= 1.856E-03 SEC/SQ.M  
 1.039E-02 1/H

TEST U54 AUGUST 24, 1967 0415 TO 0445 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
800M ARC SAMPLER HT 1.5M U= 3.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
67.0	0	0.	0.	800
70.0	0	0.	0.	800
73.0	0	0.	0.	800
76.0	24	5.576E-08	1.764E-07	800
79.0	224	5.049E-07	1.616E-06	800
82.0	730	1.645E-06	5.263E-06	800
85.0	1303	2.936E-06	9.397E-06	800
88.0	2364	5.325E-06	1.704E-05	800
91.0	3560	8.020E-06	2.566E-05	800
94.0	3237	7.292E-06	2.333E-05	800
97.0	2010	4.529E-06	1.449E-05	800
100.0	3025	6.815E-06	2.181E-05	800
103.0	1141	2.571E-06	8.227E-06	800
106.0	0	0.	0.	800

CROSSWIND INTEGRATED= 1.663E-03 5.320E-03  
SEC/SQ.M 1/M

TEST U54 AUGUST 24, 1967 0415 TO 0445 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
1200M ARC SAMPLER HT 1.5M U= 3.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
79.0	0	0.	0.	1200
80.0	56	1.278E-07	4.091E-07	1200
82.0	200	4.526E-07	1.443E-06	1200
84.0	279	6.289E-07	2.012E-06	1200
86.0	605	1.363E-06	4.362E-06	1200
88.0	388	8.742E-07	2.797E-06	1200
90.0	1244	2.804E-06	8.973E-06	1200
92.0	1010	2.275E-06	7.281E-06	1200
94.0	836	1.883E-06	6.026E-06	1200
96.0	378	8.517E-07	2.726E-06	1200
98.0	276	6.237E-07	1.996E-06	1200
100.0	971	2.189E-06	7.005E-06	1200
102.0	642	1.448E-06	4.633E-06	1200
104.0	58	1.313E-07	4.202E-07	1200
106.0	6	1.555E-08	4.976E-08	1200
108.0	31	7.083E-08	2.267E-07	1200
110.0	0	0.	0.	1200

CROSSWIND INTEGRATED= 6.593E-04 2.110E-03  
SEC/SQ.M 1/M

TEST U54 AUGUST 24, 1967 0415 TO 0445 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
1600M ARC SAMPLER HT 1.5M U= 3.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
80.0	0	0.	0.	1600
82.0	42	9.502E-08	3.041E-07	1600
84.0	154	3.473E-07	1.111E-06	1600
86.0	115	2.609E-07	8.346E-07	1600
88.0	212	4.786E-07	1.531E-06	1600
90.0	612	1.380E-06	4.417E-06	1600
92.0	596	1.344E-06	4.301E-06	1600
94.0	499	1.125E-06	3.599E-06	1600
96.0	470	1.059E-06	3.389E-06	1600
98.0	562	1.266E-06	4.052E-06	1600
100.0	545	1.228E-06	3.931E-06	1600
102.0	373	8.414E-07	2.692E-06	1600
104.0	75	1.710E-07	5.473E-07	1600
106.0	10	2.419E-08	7.740E-08	1600
108.0	28	6.392E-08	2.046E-07	1600
110.0	0	0.	0.	1600

CROSSWIND INTEGRATED= 5.409E-04 1.731E-03  
SEC/SQ.M 1/M

TEST U58 AUGUST 24, 1967 0415 TO 0445 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 26M  
800M ARC SAMPLER HT 1.5M U= 5.6 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
76.0	0	0.	0.	800
79.0	34	8.828E-08	4.943E-07	800
82.0	725	1.864E-06	1.044E-05	800
85.0	557	1.432E-06	8.019E-06	800
88.0	1678	4.314E-06	2.410E-05	800
91.0	3607	9.274E-06	5.144E-05	800
94.0	3743	9.624E-06	5.390E-05	800
97.0	2994	7.699E-06	4.311E-05	800
100.0	3607	9.274E-06	5.144E-05	800
103.0	2109	5.423E-06	3.037E-05	800
106.0	177	4.550E-07	2.548E-06	800
109.0	10	2.742E-08	1.536E-07	800

CROSSWIND INTEGRATED= 2.077E-03 1.161E-02  
SEC/SQ.M 1/M

TEST U54 AUGUST 24, 1967 0415 TO 0445 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 26M  
1200M ARC SAMPLER HT 1.5M U= 5.6 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
79.0	19	4.924E-08	2.757E-07	1200
80.0	55	1.422E-07	7.964E-07	1200
82.0	134	3.468E-07	1.942E-06	1200
84.0	276	7.110E-07	3.982E-06	1200
86.0	391	1.005E-06	5.630E-06	1200
88.0	276	7.108E-07	3.981E-06	1200
90.0	2316	5.954E-06	3.334E-05	1200
92.0	2733	7.028E-06	3.936E-05	1200
94.0	2164	5.563E-06	3.115E-05	1200
96.0	1556	4.001E-06	2.241E-05	1200
98.0	1328	3.415E-06	1.913E-05	1200
100.0	1822	4.685E-06	2.623E-05	1200
102.0	1936	4.978E-06	2.787E-05	1200
104.0	330	8.505E-07	4.763E-06	1200
106.0	20	5.389E-08	3.016E-07	1200
108.0	5	1.437E-08	8.045E-08	1200
110.0	0	3.255E-10	1.823E-09	1200

CROSSWIND INTEGRATED= 1.655E-03 9.268E-03  
SEC/SQ.M 1/M

TEST U58 AUGUST 24, 1967 0415 TO 0445 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 26M  
1600M ARC SAMPLER HT 1.5M U= 5.6 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
80.0	0	0.	0.	1600
82.0	20	5.234E-08	2.931E-07	1600
84.0	149	3.855E-07	2.159E-06	1600
86.0	379	9.744E-07	5.457E-06	1600
88.0	568	1.463E-06	8.191E-06	1600
90.0	1252	3.220E-06	1.803E-05	1600
92.0	2240	5.759E-06	3.225E-05	1600
94.0	2164	5.563E-06	3.115E-05	1600
96.0	1898	4.880E-06	2.733E-05	1600
98.0	1214	3.122E-06	1.749E-05	1600
100.0	1366	3.513E-06	1.967E-05	1600
102.0	1290	3.318E-06	1.858E-05	1600
104.0	222	5.715E-07	3.200E-06	1600
106.0	37	9.573E-08	5.361E-07	1600
108.0	1	4.138E-09	2.317E-08	1600
110.0	0	6.974E-10	3.905E-09	1600

CROSSWIND INTEGRATED= 1.839E-03 1.030E-02  
SEC/SQ.M 1/M



TEST U58 AUGUST 24, 1967 0415 TO 0445 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 3200M ARC SAMPLER HT 1.5M U= 3.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
84.0	0	0.	0.	3200
86.0	22	4.994E-08	1.598E-07	3200
88.0	38	8.763E-08	2.804E-07	3200
90.0	117	2.638E-07	8.443E-07	3200
92.0	212	4.777E-07	1.529E-06	3200
94.0	137	3.100E-07	9.920E-07	3200
4 96.0	135	3.044E-07	9.739E-07	3200
98.0	145	3.279E-07	1.049E-06	3200
3 100.0	97	2.205E-07	7.056E-07	3200
102.0	94	2.120E-07	6.784E-07	3200
104.0	54	1.225E-07	3.920E-07	3200
106.0	1	3.769E-09	1.206E-08	3200
108.0	0	0.	0.	3200

CROSSWIND INTEGRATED= 2.659E-04 SEC/SQ.M  
 8.508E-04 1/M

TEST U58 AUGUST 24, 1967 0415 TO 0445 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 26M  
 3200M ARC SAMPLER HT 1.5M U= 5.6 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
82.0	0	0.	0.	3200
E 84.0	2	7.221E-09	4.044E-08	3200
86.0	24	6.341E-08	3.551E-07	3200
88.0	81	2.083E-07	1.167E-06	3200
90.0	361	9.288E-07	5.201E-06	3200
92.0	315	8.104E-07	4.538E-06	3200
94.0	749	1.926E-06	1.079E-05	3200
4 96.0	611	1.571E-06	8.799E-06	3200
98.0	413	1.064E-06	5.958E-06	3200
100.0	519	1.334E-06	7.473E-06	3200
102.0	571	1.470E-06	8.231E-06	3200
104.0	246	6.350E-07	3.556E-06	3200
106.0	29	7.629E-08	4.272E-07	3200
108.0	2	7.221E-09	4.044E-08	3200

CROSSWIND INTEGRATED= 1.128E-03 SEC/SQ.M  
 6.319E-03 1/M

SAMPLING 800M TO 12800M, NO TOWER SAMPLING.  
EQUIPMENT DIFFICULTIES DURING ASSAY OF FLUORESCIN FILTERS FOR 800M, 1200M, AND 2200M ARCS.  
5000M ARC TRUNCATED ON NORTH. 7000M AND 12800M ARC DATA EXTRAPOLATED SLIGHTLY TO NORTH.

TEST U59 JUNE 3, 1968 0212 TO 0232 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
800M ARC SAMPLER HT 1.5M U = 3.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
49.0	0	0.	0.	800
52.0	28	8.330E-09	2.832E-08	800
55.0	242	6.982E-08	2.374E-07	800
58.0	2640	7.616E-07	2.590E-06	800
61.0	9895	2.854E-06	9.704E-06	800
64.0	28409	8.194E-06	2.786E-05	800
67.0	38354	1.106E-05	3.761E-05	800
70.0	46008	1.327E-05	4.512E-05	800
73.0	42121	1.215E-05	4.131E-05	800
76.0	48185	1.390E-05	4.725E-05	800
E 79.0	42634	1.230E-05	4.181E-05	800
82.0	42465	1.225E-05	4.164E-05	800
85.0	31799	9.172E-06	3.119E-05	800
88.0	19108	5.512E-06	1.874E-05	800
91.0	11972	3.453E-06	1.174E-05	800
94.0	5499	1.586E-06	5.394E-06	800
97.0	1419	4.094E-07	1.392E-06	800
97.1	1964	5.665E-07	1.926E-06	806
99.1	1622	4.681E-07	1.591E-06	809
101.1	694	2.004E-07	6.815E-07	813
103.0	341	9.842E-08	3.346E-07	816
105.0	29	8.401E-09	2.856E-08	819
106.9	16	4.801E-09	1.632E-08	823
108.8	0	0.	0.	826

CROSSWIND INTEGRATED= 4.502E-03 SEC/SQ.M 1.531E-02 1/M

TEST U59 JUNE 3, 1968 0212 TO 0232 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
1200M ARC SAMPLER HT 1.5M U = 3.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
54.0	0	0.	0.	1200
56.0	24	7.202E-09	2.449E-08	1200
59.0	253	7.318E-08	2.488E-07	1200
60.0	1113	3.211E-07	1.092E-06	1200
62.0	5946	1.715E-06	5.832E-06	1200
P 64.0	9538	2.751E-06	9.354E-06	1200
P 66.0	15495	4.470E-06	1.520E-05	1200
68.0	17036	4.914E-06	1.671E-05	1200
70.0	26928	7.767E-06	2.641E-05	1200
72.0	28920	8.342E-06	2.836E-05	1200
74.0	26289	7.583E-06	2.578E-05	1200
76.0	24221	6.986E-06	2.375E-05	1200
78.0	24774	7.146E-06	2.430E-05	1200
80.0	25339	7.309E-06	2.485E-05	1200
82.0	21812	6.291E-06	2.139E-05	1200
84.0	20812	6.003E-06	2.041E-05	1200
86.0	17195	4.960E-06	1.686E-05	1200
88.0	14891	4.295E-06	1.466E-05	1200
90.0	11877	3.426E-06	1.165E-05	1200
92.0	5802	1.674E-06	5.690E-06	1200
94.0	4202	1.212E-06	4.122E-06	1200
W 96.0	2467	7.116E-07	2.419E-06	1200
W 98.0	1266	3.654E-07	1.242E-06	1200
100.0	521	1.503E-07	5.110E-07	1200
102.0	364	1.050E-07	3.570E-07	1200
104.0	135	3.903E-08	1.327E-07	1200
106.0	117	3.392E-08	1.153E-07	1200
108.0	24	6.969E-09	2.370E-08	1200
110.0	3	9.293E-10	3.159E-09	1200
112.0	0	0.	0.	1200

CROSSWIND INTEGRATED= 3.714E-03 SEC/SQ.M 1.263E-02 1/M

TEST U59 JUNE 3, 1968 0212 TO 0232 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 2M  
800M ARC SAMPLER HT 1.5M U = 1.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
40.0	35	1.337E-08	2.541E-08	800
B 43.0	124	4.661E-08	8.855E-08	800
46.0	137	5.147E-08	9.779E-08	800
49.0	98	3.688E-08	7.007E-08	800
52.0	633	2.375E-07	4.512E-07	800
55.0	20854	7.819E-06	1.486E-05	800
58.0	41058	1.540E-05	2.925E-05	800
61.0	69519	2.607E-05	4.953E-05	800
64.0	73864	2.770E-05	5.262E-05	800
67.0	39755	1.491E-05	2.832E-05	800
70.0	44969	1.686E-05	3.204E-05	800
73.0	29473	1.105E-05	2.100E-05	800
76.0	26198	9.823E-06	1.866E-05	800
79.0	34931	1.310E-05	2.489E-05	800
82.0	18338	6.076E-06	1.306E-05	800
85.0	6657	2.496E-06	4.743E-06	800
88.0	3811	1.429E-06	2.715E-06	800
91.0	3198	1.199E-06	2.278E-06	800
94.0	1067	4.077E-07	7.746E-07	800
97.0	236	8.855E-08	1.682E-07	800
97.1	214	1.058E-08	1.531E-07	806
99.1	35	1.343E-08	2.552E-08	809
101.1	5	2.014E-09	3.827E-09	813

CROSSWIND INTEGRATED= 6.518E-03 SEC/SQ.M 1.238E-02 1/M

TEST U59 JUNE 3, 1968 0212 TO 0232 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 2M  
1200M ARC SAMPLER HT 1.5M U = 1.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
54.0	31	1.198E-08	2.277E-08	1200
56.0	2446	9.173E-07	1.743E-06	1200
58.0	9434	3.534E-06	6.721E-06	1200
60.0	13091	4.909E-06	9.327E-06	1200
62.0	21250	7.968E-06	1.514E-05	1200
P 64.0	7977	2.991E-06	5.683E-06	1200
P 66.0	20333	7.511E-06	1.427E-05	1200
68.0	24295	9.110E-06	1.731E-05	1200
70.0	19424	7.283E-06	1.384E-05	1200
72.0	25513	9.566E-06	1.818E-05	1200
74.0	16379	6.142E-06	1.167E-05	1200
76.0	13335	5.000E-06	9.500E-06	1200
78.0	10899	4.087E-06	7.765E-06	1200
80.0	12543	4.703E-06	8.936E-06	1200
82.0	10067	3.775E-06	7.172E-06	1200
84.0	6016	2.256E-06	4.286E-06	1200
86.0	6902	2.588E-06	4.918E-06	1200
88.0	2978	1.117E-06	2.122E-06	1200
90.0	1686	6.325E-07	1.202E-06	1200
92.0	598	2.242E-07	4.261E-07	1200
94.0	661	2.480E-07	4.711E-07	1200
W 96.0	65	2.439E-08	4.635E-08	1200
W 98.0	8	3.031E-09	5.759E-09	1200

CROSSWIND INTEGRATED= 3.544E-03 SEC/SQ.M 6.733E-03 1/M

TEST U59 JUNE 3, 1968 0212 TO 0232 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
1600M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
56.0	0	0.	0.	1600
58.0	8	2.555E-09	8.689E-09	1600
60.0	69	1.998E-08	6.792E-08	1600
62.0	1277	3.685E-07	1.253E-06	1600
64.0	4693	1.354E-06	4.603E-06	1600
66.0	8089	2.333E-06	7.933E-06	1600
68.0	12410	3.580E-06	1.217E-05	1600
70.0	17538	5.059E-06	1.720E-05	1600
72.0	22239	6.414E-06	2.181E-05	1600
74.0	24056	6.939E-06	2.354E-05	1600
76.0	22135	6.385E-06	2.171E-05	1600
78.0	21601	6.231E-06	2.118E-05	1600
80.0	20906	6.030E-06	2.050E-05	1600
82.0	19526	5.632E-06	1.915E-05	1600
84.0	13411	3.868E-06	1.315E-05	1600
86.0	12895	3.720E-06	1.265E-05	1600
88.0	9365	2.701E-06	9.185E-06	1600
90.0	9576	2.762E-06	9.392E-06	1600
92.0	4678	1.350E-06	4.588E-06	1600
93.6	4154	1.198E-06	4.074E-06	1603
94.0	4001	1.154E-06	3.924E-06	1600
94.6	3887	1.121E-06	3.812E-06	1604
95.6	3178	9.169E-07	3.117E-06	1606
S 96.6	1838	5.304E-07	1.803E-06	1608
97.6	1761	5.081E-07	1.727E-06	1610
98.6	929	2.681E-07	9.116E-07	1611
99.6	918	2.648E-07	9.003E-07	1613
100.6	989	2.855E-07	9.706E-07	1615
101.6	966	2.789E-07	9.481E-07	1617
102.6	258	7.447E-08	2.532E-07	1618
103.6	404	1.167E-07	3.967E-07	1620
104.5	83	2.400E-08	8.159E-08	1622
105.5	37	1.076E-08	3.658E-08	1623
106.5	11	3.310E-09	1.125E-08	1625
107.5	14	4.137E-09	1.407E-08	1627
108.5	57	1.655E-08	5.627E-08	1628
109.5	37	1.076E-08	3.658E-08	1630
110.4	0	0.	0.	1632

CROSSWIND INTEGRATED= 3.776E-03 SEC/SQ.M 1.284E-02 1/M

TEST U59 JUNE 3, 1968 0212 TO 0232 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
2200M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
60.0	0	0.	0.	2200
S 62.0	38	1.098E-08	3.734E-08	2200
64.0	711	2.051E-07	6.975E-07	2200
66.0	2622	7.565E-07	2.572E-06	2200
4 68.0	3074	8.867E-07	3.015E-06	2200
U 70.0	7512	2.167E-06	7.367E-06	2200
72.0	12205	3.521E-06	1.197E-05	2200
74.0	14065	4.057E-06	1.379E-05	2200
76.0	10319	2.977E-06	1.012E-05	2200
C 78.0	15216	4.389E-06	1.492E-05	2200
80.0	10131	2.922E-06	9.935E-06	2200
L 82.0	5880	1.696E-06	5.767E-06	2200
F 84.0	5020	1.448E-06	4.923E-06	2200
5 86.0	4355	1.256E-06	4.271E-06	2200
4 88.0	5788	1.664E-06	5.676E-06	2200
90.0	6527	1.883E-06	6.401E-06	2200
92.0	5051	1.457E-06	4.954E-06	2200
S 94.0	3120	9.000E-07	3.060E-06	2200
T 96.0	2133	6.154E-07	2.092E-06	2200
U 98.0	1213	3.499E-07	1.190E-06	2200
0 100.0	727	2.097E-07	7.131E-07	2200
C 102.0	702	2.027E-07	6.893E-07	2200
104.0	267	7.711E-08	2.622E-07	2200
E 106.0	230	6.637E-08	2.257E-07	2200
108.0	179	5.165E-08	1.750E-07	2200
110.0	19	5.551E-09	1.867E-08	2200
F 112.0	4	1.207E-09	4.103E-09	2200
114.0	1	4.827E-10	1.641E-09	2200
116.0	0	0.	0.	2200

CROSSWIND INTEGRATED= 2.594E-03 SEC/SQ.M 8.620E-03 1/M

TEST U59 JUNE 3, 1968 0212 TO 0232 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 2M  
1600M ARC SAMPLER HT 1.5M U= 1.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
56.0	25	9.607E-09	1.825E-08	1600
58.0	598	2.246E-07	4.267E-07	1600
60.0	3244	1.217E-06	2.312E-06	1600
62.0	7549	2.831E-06	5.378E-06	1600
64.0	12922	4.845E-06	9.206E-06	1600
66.0	16393	6.147E-06	1.168E-05	1600
68.0	19437	7.288E-06	1.385E-05	1600
70.0	20655	7.745E-06	1.472E-05	1600
72.0	26135	9.800E-06	1.862E-05	1600
74.0	8538	3.202E-06	6.083E-06	1600
76.0	5172	1.939E-06	3.685E-06	1600
78.0	11095	4.160E-06	7.905E-06	1600
80.0	6711	2.517E-06	4.782E-06	1600
82.0	7407	2.928E-06	5.562E-06	1600
84.0	5270	1.976E-06	3.755E-06	1600
86.0	3371	1.264E-06	2.402E-06	1600
88.0	2611	9.743E-07	1.861E-06	1600
90.0	1890	7.088E-07	1.347E-06	1600
92.0	510	1.913E-07	3.636E-07	1600
93.6	355	1.334E-07	2.534E-07	1603
94.0	184	6.935E-08	1.318E-07	1600
94.6	157	5.899E-08	1.121E-07	1604
95.6	235	8.821E-08	1.676E-07	1606
S 96.6	178	6.696E-08	1.272E-07	1608
97.6	62	2.356E-08	4.476E-08	1610
98.6	16	6.111E-09	1.161E-08	1611
99.6	2	1.063E-09	2.019E-09	1613

CROSSWIND INTEGRATED= 3.360E-03 SEC/SQ.M 6.383E-03 1/M

TEST U59 JUNE 3, 1968 0212 TO 0232 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 2M  
2200M ARC SAMPLER HT 1.5M U= 1.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
B 48.0	33	1.259E-08	2.391E-08	2200
50.0	24	9.064E-09	1.722E-08	2200
52.0	11	4.465E-09	8.522E-09	2200
54.0	4	1.550E-09	2.945E-09	2200
56.0	13	5.190E-09	9.860E-09	2200
Z 58.0	3	1.198E-09	2.275E-09	2200
60.0	28	1.083E-08	2.057E-08	2200
S 62.0	938	3.518E-07	6.684E-07	2200
64.0	5302	1.988E-06	3.778E-06	2200
66.0	8845	3.316E-06	6.301E-06	2200
4 68.0	9793	3.672E-06	6.977E-06	2200
U 70.0	9161	3.435E-06	6.527E-06	2200
72.0	12640	4.740E-06	9.005E-06	2200
74.0	7263	2.724E-06	5.175E-06	2200
3 76.0	12956	4.858E-06	9.230E-06	2200
Q 78.0	10426	3.909E-06	7.428E-06	2200
80.0	6947	2.605E-06	4.949E-06	2200
E 82.0	5302	1.988E-06	3.778E-06	2200
8 84.0	4733	1.775E-06	3.372E-06	2200
5 86.0	3211	1.204E-06	2.288E-06	2200
4 88.0	2154	8.097E-07	1.538E-06	2200
90.0	1232	4.620E-07	8.779E-07	2200
92.0	896	3.363E-07	6.350E-07	2200
T 94.0	541	2.031E-07	3.850E-07	2200
L 96.0	239	8.996E-08	1.709E-07	2200
E 98.0	102	3.830E-08	7.277E-08	2200
0 100.0	49	1.857E-08	3.529E-08	2200
C 102.0	42	1.611E-08	3.061E-08	2200
104.0	25	9.417E-09	1.789E-08	2200

CROSSWIND INTEGRATED= 2.964E-03 SEC/SQ.M 5.631E-03 1/M

TEST U59 JUNE 3, 1968 0212 TO 0232 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
3200M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
64.0	0	0.	0.	3200
66.0	3	1.086E-09	3.693E-09	3200
69.0	33	9.533E-09	3.241E-08	3200
70.0	482	1.391E-07	4.731E-07	3200
72.7	3168	9.139E-07	3.107E-06	3168
73.7	2366	6.826E-07	2.321E-06	3170
74.7	3429	9.891E-07	3.363E-06	3172
75.7	5659	1.632E-06	5.550E-06	3173
76.8	3762	1.085E-06	3.690E-06	3175
77.8	4753	1.371E-06	4.661E-06	3177
78.8	5084	1.467E-06	4.987E-06	3179
79.8	4141	1.195E-06	4.062E-06	3180
80.8	3680	1.062E-06	3.610E-06	3182
81.8	4367	1.260E-06	4.283E-06	3184
82.8	3806	1.099E-06	3.735E-06	3185
83.8	7266	2.096E-06	7.126E-06	3187
84.8	5468	1.577E-06	5.302E-06	3189
85.8	3513	1.013E-06	3.446E-06	3191
86.8	3309	9.546E-07	3.240E-06	3192
87.8	3755	1.083E-06	3.683E-06	3194
88.8	2487	7.174E-07	2.439E-06	3196
89.8	3395	9.793E-07	3.330E-06	3198
90.8	3478	1.003E-06	3.411E-06	3199
91.8	4535	1.308E-06	4.448E-06	3201
92.8	1760	5.077E-07	1.726E-06	3203
93.8	1004	2.897E-07	9.851E-07	3205
94.8	1005	2.901E-07	9.864E-07	3206
95.8	1342	3.873E-07	1.317E-06	3208
96.8	1491	4.301E-07	1.462E-06	3210
97.8	1022	2.948E-07	1.002E-06	3212
98.8	626	1.807E-07	6.145E-07	3213
99.8	1042	3.007E-07	1.022E-06	3215
100.8	549	1.584E-07	5.305E-07	3217
101.8	532	1.537E-07	5.225E-07	3218
102.8	498	1.439E-07	4.892E-07	3220
103.8	489	1.411E-07	4.799E-07	3222
104.8	352	1.015E-07	3.452E-07	3224
105.8	183	5.293E-08	1.799E-07	3225
106.8	86	2.509E-08	8.531E-08	3227
107.8	184	5.332E-08	1.813E-07	3229
108.8	236	6.822E-08	2.319E-07	3230
109.7	96	2.784E-08	9.464E-08	3232
110.7	58	1.686E-08	5.732E-08	3233
111.7	32	9.409E-09	3.199E-08	3235
112.7	0	0.	0.	3237

CROSSWIND INTEGRATED= 1.579E-03 SEC/SQ.M 5.368E-03 1/M

TEST U59 JUNE 3, 1968 0212 TO 0232 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
5000M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
B 82.0	825	2.382E-07	8.099E-07	4630
S 84.0	1419	4.096E-07	1.393E-06	4620
C 86.0	662	1.911E-07	6.499E-07	4610
88.0	1007	2.907E-07	9.884E-07	4610
C 90.0	3479	1.004E-06	3.412E-06	4610
92.0	562	1.623E-07	5.518E-07	4620
94.0	420	1.214E-07	4.127E-07	4620
F 96.0	1215	3.567E-07	1.192E-06	4620
98.0	388	1.121E-07	3.812E-07	4660
100.0	2197	6.338E-07	2.155E-06	4690
102.0	720	2.076E-07	7.065E-07	4710
104.0	1262	3.641E-07	1.238E-06	4770
106.0	390	1.126E-07	3.828E-07	4810
108.0	661	1.908E-07	6.487E-07	4870
110.0	46	1.327E-08	4.513E-08	4920

TEST U59 JUNE 3, 1968 0212 TO 0232 PST  
FLUORESCEN RELEASE FROM ELEVATION OF 2M  
3200M ARC SAMPLER HT 1.5M U= 1.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
2 64.0	4	1.691E-09	3.212E-09	3200
3 66.0	27	1.032E-08	1.961E-08	3200
4 68.0	292	1.098E-07	2.086E-07	3200
2 70.0	1675	6.282E-07	1.193E-06	3200
72.7	4434	1.663E-06	3.159E-06	3168
73.7	4300	1.617E-06	3.064E-06	3170
74.7	4636	1.739E-06	3.303E-06	3172
75.7	5309	1.991E-06	3.783E-06	3173
76.8	4098	1.537E-06	2.920E-06	3175
77.8	4704	1.764E-06	3.351E-06	3177
78.8	3963	1.486E-06	2.824E-06	3179
79.8	3425	1.284E-06	2.440E-06	3180
80.8	3627	1.360E-06	2.584E-06	3182
81.8	3492	1.310E-06	2.488E-06	3184
82.8	2954	1.104E-06	2.105E-06	3185
83.8	3290	1.234E-06	2.344E-06	3187
84.8	3156	1.183E-06	2.249E-06	3189
85.8	2281	8.554E-07	1.625E-06	3191
86.8	1944	7.292E-07	1.388E-06	3192
87.8	2079	7.797E-07	1.481E-06	3194
88.8	1541	5.778E-07	1.098E-06	3196
89.8	1428	5.358E-07	1.018E-06	3198
90.8	1249	4.685E-07	8.901E-07	3199
91.8	1025	3.844E-07	7.303E-07	3201
92.8	755	2.835E-07	5.386E-07	3203
4 93.8	755	2.835E-07	5.386E-07	3205
0 94.8	527	1.977E-07	3.757E-07	3206
95.8	437	1.640E-07	3.116E-07	3208
96.8	410	1.539E-07	2.924E-07	3210
97.8	238	8.959E-08	1.702E-07	3212
98.8	131	4.914E-08	9.336E-08	3213
99.8	108	4.073E-08	7.738E-08	3215
100.8	156	5.875E-08	1.116E-07	3217
101.8	70	2.631E-08	4.998E-08	3218
102.8	22	8.283E-09	1.574E-08	3220
103.8	25	9.465E-09	1.802E-08	3222
104.8	23	8.684E-09	1.650E-08	3224
105.8	18	7.001E-09	1.345E-08	3225

CROSSWIND INTEGRATED= 1.572E-03 SEC/SQ.M 4.986E-03 1/M

TEST U59 JUNE 3, 1968 0212 TO 0232 PST  
FLUORESCEN RELEASE FROM ELEVATION OF 2M  
5000M ARC SAMPLER HT 1.5M U= 1.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
B 82.0	1201	4.505E-07	8.559E-07	4630
S 84.0	1536	5.762E-07	1.095E-06	4620
C 86.0	1201	4.505E-07	8.559E-07	4610
88.0	1221	4.579E-07	8.700E-07	4610
C 90.0	1839	6.897E-07	1.310E-06	4610
92.0	727	2.730E-07	5.186E-07	4620
94.0	491	1.842E-07	3.500E-07	4620
F 96.0	267	1.004E-07	1.907E-07	4620
98.0	215	8.064E-08	1.532E-07	4560
100.0	359	1.349E-07	2.563E-07	4690
102.0	221	8.310E-08	1.579E-07	4710
104.0	247	9.296E-08	1.766E-07	4770
106.0	45	1.702E-08	3.234E-08	4810
108.0	45	1.702E-08	3.234E-08	4870
110.0	4	1.852E-09	3.518E-09	4920

CROSSWIND INTEGRATED= 5.832E-04 SEC/SQ.M 1.108E-03 1/M

112.0 5 1.448E-09 4.923E-09 4990  
 114.0 9 2.655E-09 9.026E-09 5080  
 116.0 0 0. 0. 5020

CROSSWIND INTEGRATED= 7.170E-04 2.438E-03  
 SEC/SQ.M 1/M

TEST U59 JUNE 3, 1968 0212 TO 0232 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 7000M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
E 70.0	14	4.103E-09	1.395E-08	0
E 72.0	28	8.085E-09	2.749E-08	0
E 74.0	48	1.400E-08	4.754E-08	0
E 76.0	75	2.184E-08	7.426E-08	6280
E 78.0	105	3.053E-08	1.038E-07	6300
Q 80.0	157	4.537E-08	1.543E-07	6400
Q 82.0	384	1.110E-07	3.775E-07	6490
Q 84.0	898	2.592E-07	8.813E-07	6500
Q 85.0	346	9.992E-08	3.397E-07	6500
Q 88.0	547	1.578E-07	5.367E-07	6480
Q 90.0	473	1.366E-07	4.644E-07	6500
Q 92.0	1672	4.824E-07	1.640E-06	6490
Q 94.0	79	2.305E-08	7.836E-08	6500
Q 96.0	46	1.352E-08	4.595E-08	6510
Q 98.0	191	5.527E-08	1.879E-07	6520
Q 100.0	210	6.082E-08	2.068E-07	6560
Q 102.0	241	6.963E-08	2.367E-07	6610
Q 104.0	337	9.726E-08	3.307E-07	6650
Q 106.0	134	3.874E-08	1.317E-07	6720
Q 108.0	71	2.063E-08	7.016E-08	6800
Q 110.0	39	1.134E-08	3.857E-08	7000
Q 112.0	11	3.258E-09	1.108E-08	7300
Q 114.0	9	2.775E-09	9.437E-09	7210
Q 116.0	0	0.	0.	7220

CROSSWIND INTEGRATED= 3.960E-04 1.346E-03  
 SEC/SQ.M 1/M

TEST U59 JUNE 3, 1968 0212 TO 0232 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 12800M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
E 89.0	1	3.620E-10	1.231E-09	12800
E 90.0	14	4.224E-09	1.436E-08	12800
E 91.0	25	7.482E-09	2.544E-08	12800
E 92.0	82	2.384E-08	8.124E-08	12800
E 93.0	68	1.967E-08	6.688E-08	12800
E 94.0	95	2.751E-08	9.354E-08	12800
E 95.0	69	2.015E-08	6.852E-08	12800
E 96.0	82	2.365E-08	8.042E-08	12800
E 97.0	97	2.800E-08	9.519E-08	12800
E 98.0	156	4.525E-08	1.539E-07	12800
E 99.0	87	2.534E-08	8.616E-08	12800
Q 100.0	217	6.275E-08	2.133E-07	12800
Q 101.0	162	4.682E-08	1.592E-07	12800
Q 102.0	93	2.691E-08	9.149E-08	12800
Q 103.0	74	2.160E-08	7.344E-08	12800
Q 104.0	99	2.884E-08	9.800E-08	12800
Q 105.0	63	1.834E-08	6.230E-08	12800
Q 106.0	20	5.792E-09	1.969E-08	12800
Q 107.0	27	7.844E-09	2.667E-08	12800
Q 108.0	23	6.878E-09	2.339E-08	12800
Q 109.0	13	3.861E-09	1.313E-08	12800
Q 110.0	13	3.861E-09	1.313E-08	12800
Q 111.0	1	4.827E-10	1.641E-09	12800
Q 112.0	0	0.	0.	12800

CROSSWIND INTEGRATED= 1.027E-04 3.490E-04  
 SEC/SQ.M 1/M

TEST U59 JUNE 3, 1968 0212 TO 0232 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 2M  
 7000M ARC SAMPLER HT 1.5M U= 1.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
E 66.0	8	3.023E-09	5.744E-09	0
E 68.0	23	8.894E-09	1.690E-08	0
E 70.0	45	1.711E-08	3.251E-08	0
E 72.0	73	2.788E-08	5.259E-08	0
E 74.0	111	4.177E-08	7.936E-08	0
E 76.0	183	6.878E-08	1.307E-07	6280
E 78.0	252	9.461E-08	1.798E-07	6300
Z 80.0	242	9.108E-08	1.731E-07	6400
Z 82.0	768	2.880E-07	5.472E-07	6490
Z 84.0	1004	3.768E-07	7.158E-07	6500
Z 86.0	768	2.880E-07	5.472E-07	6500
Z 88.0	689	2.584E-07	4.910E-07	6480
Z 90.0	590	2.214E-07	4.207E-07	6500
Z 92.0	1024	3.841E-07	7.299E-07	6490
Z 94.0	217	8.169E-08	1.552E-07	6500
E 96.0	208	7.817E-08	1.485E-07	6510
E 98.0	221	8.286E-08	1.574E-07	6520
E 100.0	217	8.169E-08	1.552E-07	6560
Z 102.0	180	6.760E-08	1.284E-07	6610
Z 104.0	127	4.764E-08	9.052E-08	6650
Z 106.0	37	1.394E-08	2.649E-08	6720
Z 108.0	21	7.955E-09	1.511E-08	6800
Z 100.0	9	3.610E-09	6.860E-09	6560
Z 112.0	14	5.607E-09	1.065E-08	7300

CROSSWIND INTEGRATED= 5.711E-04 1.085E-03  
 SEC/SQ.M 1/M

TEST U59 JUNE 3, 1968 0212 TO 0232 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 2M  
 12800M ARC SAMPLER HT 1.5M U= 1.9 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
E 86.0	3	1.409E-09	2.677E-09	12800
E 87.0	6	2.466E-09	4.685E-09	12800
E 88.0	10	3.992E-09	7.585E-09	12800
E 89.0	17	6.458E-09	1.227E-08	12800
E 90.0	25	9.393E-09	1.785E-08	12800
E 91.0	40	1.515E-08	2.878E-08	12800
E 92.0	61	3.065E-08	5.823E-08	12800
E 93.0	97	3.652E-08	6.938E-08	12800
E 94.0	113	4.239E-08	8.053E-08	12800
E 95.0	141	5.295E-08	1.006E-07	12800
E 96.0	275	1.034E-07	1.965E-07	12800
E 97.0	235	8.818E-08	1.675E-07	12800
E 98.0	391	1.469E-07	2.791E-07	12800
E 99.0	275	1.034E-07	1.965E-07	12800
E 100.0	352	1.321E-07	2.510E-07	12800
E 101.0	257	9.640E-08	1.832E-07	12800
E 102.0	197	7.409E-08	1.408E-07	12800
E 103.0	144	5.413E-08	1.028E-07	12800
E 104.0	97	3.652E-08	6.938E-08	12800
E 105.0	69	2.607E-08	4.953E-08	12800
E 106.0	49	1.867E-08	3.547E-08	12800
E 107.0	28	1.057E-08	2.008E-08	12800
E 108.0	15	5.753E-09	1.093E-08	12800
E 109.0	4	1.515E-09	2.878E-09	12800
E 110.0	3	1.198E-09	2.275E-09	12800

CROSSWIND INTEGRATED= 2.458E-04 4.670E-04  
 SEC/SQ.M 1/M

SAMPLING BOOM TO 1200M, NO TOWER SAMPLING. MUCH DUST ON FILTERS. MANY FIELD PROBLEMS. MINIMAL EFFORT MADE TO "CORRECT" DATA DUE TO THE LARGE NUMBER OF UNCERTAINTIES. VERY SKEWED DISTRIBUTION. MOST ARCS ARE TRUNCATED (IN NORTH END).

TEST U60 JUNE 4, 1968 0216 TO 0246 PST  
ZINC SULFIDE RELEASE FROM ELFVATION OF 26M  
BOOM ARC SAMPLER HT 1.5M U= 4.0 M/SEC AT 25M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
B 40.0	365	1.041E-07	4.162E-07	800
43.0	333	9.501E-08	3.800E-07	800
46.0	293	8.349E-08	3.340E-07	800
49.0	408	1.164E-07	4.656E-07	800
52.0	550	1.567E-07	6.268E-07	800
55.0	413	1.176E-07	4.705E-07	800
58.0	554	1.579E-07	6.318E-07	800
61.0	645	1.839E-07	7.354E-07	800
64.0	544	1.551E-07	6.202E-07	800
67.0	645	1.839E-07	7.354E-07	800
70.0	642	1.830E-07	7.321E-07	800
73.0	792	2.258E-07	9.032E-07	800
76.0	831	2.369E-07	9.476E-07	800
79.0	1015	2.891E-07	1.157E-06	800
82.0	1013	2.867E-07	1.155E-06	800
85.0	1224	3.468E-07	1.395E-06	800
88.0	1116	3.179E-07	1.272E-06	800
91.0	973	2.772E-07	1.109E-06	800
94.0	976	2.780E-07	1.112E-06	800
97.0	1717	4.690E-07	1.956E-06	800
99.1	1605	4.572E-07	1.829E-06	800
99.1	1840	5.241E-07	2.096E-06	809
101.1	1074	3.060E-07	1.224E-06	813
103.0	1405	4.002E-07	1.601E-06	816
105.0	2070	5.898E-07	2.359E-06	820
106.9	1705	4.857E-07	1.943E-06	823
108.8	2022	5.761E-07	2.305E-06	826
110.7	2175	6.195E-07	2.478E-06	829
112.6	2631	7.496E-07	2.998E-06	833
114.5	3397	9.677E-07	3.871E-06	836
116.4	4067	1.158E-06	4.634E-06	839
118.3	474	1.351E-07	5.402E-07	842
120.2	321	9.164E-08	3.666E-07	845
122.1	761	2.168E-07	8.673E-07	848
124.0	1870	5.328E-07	2.131E-06	851
125.8	1753	4.993E-07	1.997E-06	854
E 127.7	13050	3.717E-06	1.467E-05	857
E 129.5	26101	7.434E-06	2.974E-05	859
E 131.4	22621	6.443E-06	2.577E-05	862
E 133.2	19141	5.452E-06	2.181E-05	865
E 135.0	17400	4.956E-06	1.982E-05	867
136.8	15512	4.418E-06	1.767E-05	869
138.7	15156	4.317E-06	1.727E-05	872
140.6	19654	5.598E-06	2.239E-05	874
142.4	24056	6.852E-06	2.741E-05	876
144.2	10775	3.069E-06	1.222E-05	878
146.0	935	2.664E-07	1.066E-06	880
147.8	213	6.071E-08	2.429E-07	882
149.6	0	0	0	884

CROSSWIND INTEGRATED = 1.855E-03 SEC/SQ.M 7.418E-03 1/M

TEST U6J JUNE 4, 1968 0216 TO 0246 PST  
ZINC SULFIDE RELEASE FROM ELFVATION OF 26M  
1200M ARC SAMPLER HT 1.5M U= 4.0 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
B 48.0	116	3.326E-08	1.331E-07	1200
50.0	148	4.221E-08	1.688E-07	1200
52.0	161	4.568E-08	1.835E-07	1200
54.0	173	4.955E-08	1.982E-07	1200
56.0	182	5.207E-08	2.083E-07	1200
58.0	139	3.969E-08	1.587E-07	1200
W 60.0	148	4.221E-08	1.688E-07	1200
W 62.0	175	5.001E-08	2.000E-07	1200
E 64.0	193	5.506E-08	2.202E-07	1200
F 66.0	217	6.194E-08	2.478E-07	1200
68.0	237	6.767E-08	2.707E-07	1200

TEST U60 JUNE 4, 1968 0216 TO 0246 PST  
FLUORESCEN RELEASE FROM ELFVATION OF 2M  
BOOM ARC SAMPLER HT 1.5M U= 1.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
B 40.0	2565	8.749E-07	1.050E-06	800
43.0	2634	8.981E-07	1.078E-06	800
46.0	2974	1.014E-06	1.217E-06	800
49.0	2906	9.909E-07	1.189E-06	800
52.0	4064	1.366E-06	1.663E-06	800
55.0	4404	1.502E-06	1.802E-06	800
58.0	5198	1.773E-06	2.127E-06	800
61.0	4971	1.695E-06	2.034E-06	800
64.0	5879	2.005E-06	2.406E-06	800
67.0	7468	2.546E-06	3.056E-06	800
70.0	4200	1.437E-06	1.716E-06	800
73.0	5425	1.850E-06	2.220E-06	800
76.0	5879	2.005E-06	2.406E-06	800
79.0	7468	2.546E-06	3.056E-06	800
82.0	9357	3.028E-06	3.706E-06	800
85.0	8106	2.837E-06	2.499E-06	800
88.0	8376	2.856E-06	3.427E-06	800
91.0	10646	3.630E-06	4.356E-06	800
94.0	7014	2.792E-06	2.870E-06	800
97.0	14061	4.794E-06	5.753E-06	800
97.1	14661	4.992E-06	5.995E-06	800
99.1	12384	4.223E-06	5.067E-06	809
101.1	20202	6.915E-06	8.298E-06	813
103.0	15318	5.223E-06	6.267E-06	816
105.0	35325	1.204E-05	1.445E-05	820
106.9	48813	1.664E-05	1.997E-05	823
108.8	70515	2.404E-05	2.885E-05	826
110.7	78112	2.663E-05	3.196E-05	829
112.6	90412	3.083E-05	3.699E-05	833
114.5	97647	3.329E-05	3.995E-05	836
116.4	202555	6.906E-05	8.287E-05	839
118.3	1335	4.553E-07	5.463E-07	842
120.2	2266	7.728E-07	9.273E-07	845
122.1	5013	1.709E-06	2.051E-06	848
124.0	4487	1.530E-06	1.836E-06	851
125.8	2588	8.827E-07	1.059E-06	854
E 127.7	4411	1.504E-06	1.805E-06	857
129.5	8247	2.812E-06	3.375E-06	859
131.4	12760	4.351E-06	5.221E-06	862
133.2	18025	6.146E-06	7.375E-06	865
135.0	26299	8.967E-06	1.076E-05	867
136.8	30312	1.051E-05	1.261E-05	869
138.7	23291	7.941E-06	9.529E-06	872
140.6	16521	5.633E-06	6.760E-06	874
142.4	3659	1.248E-06	1.457E-06	876
144.2	1854	6.323E-07	7.580E-07	878
146.0	138	4.738E-08	5.666E-08	880
147.8	29	9.891E-09	1.187E-08	882

CROSSWIND INTEGRATED = 9.579E-03 SEC/SQ.M 1.156E-02 1/M

TEST U60 JUNE 4, 1968 0216 TO 0246 PST  
FLUORESCEN RELEASE FROM ELFVATION OF 2M  
1200M ARC SAMPLER HT 1.5M U= 1.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
B 48.0	2778	9.473E-07	1.137E-06	1200
50.0	3538	1.206E-06	1.448E-06	1200
52.0	3538	1.206E-06	1.448E-06	1200
54.0	4171	1.422E-06	1.707E-06	1200
56.0	3917	1.336E-06	1.603E-06	1200
58.0	4424	1.508E-06	1.810E-06	1200
W 60.0	4424	1.508E-06	1.810E-06	1200
W 62.0	4930	1.681E-06	2.017E-06	1200
E 64.0	5310	1.811E-06	2.173E-06	1200
F 66.0	5316	1.983E-06	2.380E-06	1200
68.0	6196	2.113E-06	2.535E-06	1200

70.0	307	8.763E-08	3.505E-07	1200
72.0	208	5.942E-08	2.377E-07	1200
74.0	263	7.507E-08	3.001E-07	1200
76.0	361	1.030E-07	4.120E-07	1200
78.0	369	1.053E-07	4.212E-07	1200
80.0	331	9.451E-08	3.781E-07	1200
82.0	372	1.060E-07	4.239E-07	1200
84.0	459	1.308E-07	5.230E-07	1200
86.0	513	1.464E-07	5.854E-07	1200
88.0	599	1.707E-07	6.827E-07	1200
90.0	563	1.606E-07	6.423E-07	1200
92.0	557	1.587E-07	6.350E-07	1200
94.0	791	2.255E-07	9.020E-07	1200
96.0	452	1.289E-07	5.157E-07	1200
98.0	491	1.399E-07	5.597E-07	1200
100.0	1055	3.005E-07	1.202E-06	1200
102.0	1239	3.531E-07	1.412E-06	1200
104.0	1171	3.338E-07	1.335E-06	1200
106.0	1544	4.398E-07	1.759E-06	1200
108.0	1610	4.588E-07	1.835E-06	1200
110.0	2467	7.029E-07	2.812E-06	1200
112.0	2496	7.112E-07	2.845E-06	1200
114.0	2872	8.181E-07	3.272E-06	1200
116.0	3624	1.032E-06	4.129E-06	1200
118.0	4367	1.244E-06	4.976E-06	1200
120.0	3466	9.874E-07	3.949E-06	1200
122.0	7925	2.257E-06	9.029E-06	1200
124.0	13531	3.854E-06	1.542E-05	1200
126.0	18525	5.276E-06	2.111E-05	1200
128.0	23501	6.694E-06	2.678E-05	1200
130.0	25960	7.394E-06	2.958E-05	1200
132.0	20136	5.735E-06	2.294E-05	1200
134.0	14497	4.129E-06	1.652E-05	1200
136.0	10785	3.072E-06	1.229E-05	1200
138.0	8171	2.327E-06	9.309E-06	1200
140.0	6916	1.970E-06	7.880E-06	1200
142.0	3542	1.009E-06	4.036E-06	1200
144.0	163	4.657E-08	1.863E-07	1200
146.0	0	0.	0.	1200

CROSSWIND INTEGRATED= 2.244E-03 SFC/SQ.M  
8.977E-03 1/M

70.0	6196	2.113E-06	2.535E-06	1200
72.0	5690	1.940E-06	2.328E-06	1200
74.0	6703	2.285E-06	2.743E-06	1200
76.0	7589	2.588E-06	3.105E-06	1200
78.0	6956	2.372E-06	2.846E-06	1200
80.0	8348	2.847E-06	3.416E-06	1200
82.0	8222	2.803E-06	3.364E-06	1200
84.0	8943	3.049E-06	3.659E-06	1200
86.0	8761	2.987E-06	3.585E-06	1200
88.0	11135	3.797E-06	4.556E-06	1200
90.0	10222	3.485E-06	4.182E-06	1200
92.0	8213	2.800E-06	3.360E-06	1200
94.0	10953	3.735E-06	4.481E-06	1200
96.0	4255	1.451E-06	1.741E-06	1200
98.0	7665	2.613E-06	3.136E-06	1200
100.0	12414	4.233E-06	5.079E-06	1200
102.0	15824	5.395E-06	6.474E-06	1200
104.0	15624	5.327E-06	6.393E-06	1200
106.0	15261	5.203E-06	6.244E-06	1200
108.0	15215	5.188E-06	6.225E-06	1200
110.0	24712	8.426E-06	1.011E-05	1200
112.0	33922	1.157E-05	1.388E-05	1200
114.0	67851	2.313E-05	2.776E-05	1200
116.0	98144	3.346E-05	4.015E-05	1200
118.0	140556	4.752E-05	5.751E-05	1200
120.0	186602	6.362E-05	7.635E-05	1200
122.0	189026	6.445E-05	7.734E-05	1200
124.0	193873	6.610E-05	7.932E-05	1200
126.0	193873	6.610E-05	7.932E-05	1200
128.0	186602	6.362E-05	7.635E-05	1200
130.0	50686	1.735E-05	2.082E-05	1200
132.0	29075	9.913E-06	1.190E-05	1200
134.0	21004	7.434E-06	8.921E-06	1200
136.0	11683	3.984E-06	4.780E-06	1200
138.0	4171	1.422E-06	1.707E-06	1200
140.0	3031	1.034E-06	1.240E-06	1200
142.0	1956	3.603E-07	4.324E-07	1200
144.0	242	8.199E-08	9.839E-08	1200
146.0	10	3.474E-09	4.168E-09	1200

CROSSWIND INTEGRATED= 2.400E-02 SEC/SQ.M  
2.880E-02 1/M

TEST U60 JUNE 4, 1968 0216 TO 0246 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
1600M ARC SAMPLER HT 1.5M U= 4.0 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EJ/Q 1/SQ.M	DISTANCE METERS
43.0	58	1.675E-08	6.699E-08	1600
50.0	35	1.009E-08	4.038E-08	1600
52.0	70	1.996E-08	7.983E-08	1600
54.0	49	1.422E-08	5.689E-08	1600
56.0	52	1.491E-08	5.965E-08	1600
58.0	55	1.583E-08	6.332E-08	1600
60.0	63	1.812E-08	7.249E-08	1600
62.0	88	2.523E-08	1.009E-07	1600
64.0	95	2.730E-08	1.092E-07	1600
66.0	107	3.051E-08	1.220E-07	1600
68.0	120	3.418E-08	1.367E-07	1600
70.0	116	3.326E-08	1.331E-07	1600
72.0	156	4.450E-08	1.780E-07	1600
74.0	156	4.450E-08	1.780E-07	1600
76.0	128	3.670E-08	1.463E-07	1600
78.0	185	5.276E-08	2.111E-07	1600
80.0	184	5.253E-08	2.101E-07	1600
82.0	205	5.850E-08	2.340E-07	1600
84.0	211	6.033E-08	2.413E-07	1600
86.0	233	6.653E-08	2.661E-07	1600
88.0	313	8.924E-08	3.570E-07	1600
90.0	350	9.979E-08	3.992E-07	1600
92.0	410	1.170E-07	4.680E-07	1600
93.6	610	1.738E-07	6.951E-07	1603
94.0	414	1.181E-07	4.726E-07	1600
94.6	381	1.087E-07	4.349E-07	1604
95.6	507	1.447E-07	5.787E-07	1606
96.6	601	1.712E-07	6.848E-07	1608
97.6	667	1.900E-07	7.602E-07	1610
98.6	721	2.054E-07	8.218E-07	1611
99.6	613	1.746E-07	6.985E-07	1613
100.6	745	2.123E-07	8.492E-07	1615

TEST U60 JUNE 4, 1968 0216 TO 0246 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 2M  
1600M ARC SAMPLER HT 1.5M U= 1.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EJ/Q 1/SQ.M	DISTANCE METERS
44.0	1547	5.276E-07	6.332E-07	1600
50.0	1509	5.147E-07	6.176E-07	1600
52.0	1319	4.499E-07	5.399E-07	1600
54.0	1281	4.370E-07	5.244E-07	1600
56.0	1509	5.147E-07	6.176E-07	1600
58.0	2117	7.219E-07	8.662E-07	1600
60.0	1927	6.571E-07	7.885E-07	1600
62.0	1585	5.406E-07	6.487E-07	1600
64.0	2155	7.348E-07	8.818E-07	1600
66.0	2269	7.737E-07	9.284E-07	1600
68.0	2497	8.514E-07	1.022E-06	1600
70.0	2155	7.348E-07	8.818E-07	1600
72.0	2610	8.902E-07	1.068E-06	1600
74.0	2231	7.607E-07	9.129E-07	1600
76.0	2535	8.643E-07	1.037E-06	1600
78.0	2345	7.996E-07	9.595E-07	1600
80.0	3535	1.205E-06	1.446E-06	1600
82.0	2307	7.866E-07	9.439E-07	1600
84.0	2269	7.737E-07	9.284E-07	1600
86.0	2762	9.420E-07	1.130E-06	1600
88.0	4041	1.378E-06	1.654E-06	1600
90.0	3155	1.076E-06	1.291E-06	1600
92.0	7966	2.716E-06	3.259E-06	1600
93.6	4454	1.519E-06	1.823E-06	1603
94.0	4041	1.378E-06	1.654E-06	1600
94.6	3412	1.164E-06	1.396E-06	1604
95.6	3809	1.299E-06	1.559E-06	1606
96.6	5198	1.772E-06	2.127E-06	1608
97.6	5347	1.823E-06	2.188E-06	1610
98.6	3016	1.028E-06	1.234E-06	1611
99.6	6091	2.077E-06	2.492E-06	1613
100.6	4157	1.417E-06	1.701E-06	1615

101.6	826	2.354E-07	9.416E-07	1617
102.6	940	2.679E-07	1.072E-06	1618
103.6	507	1.447E-07	5.787E-07	1620
104.5	652	1.858E-07	7.430E-07	1622
105.5	1087	3.099E-07	1.240E-06	1623
106.5	1036	2.953E-07	1.181E-06	1625
107.5	1187	3.381E-07	1.353E-06	1627
108.5	1142	3.253E-07	1.301E-06	1628
109.5	1097	3.125E-07	1.250E-06	1630
110.4	1217	3.467E-07	1.387E-06	1632
111.4	1424	4.058E-07	1.623E-06	1633
112.4	1541	4.391E-07	1.757E-06	1635
113.4	2182	6.215E-07	2.486E-06	1637
114.4	2362	6.728E-07	2.691E-06	1638
115.3	2590	7.379E-07	2.952E-06	1640
116.3	3185	9.074E-07	3.630E-06	1641
117.3	2888	8.226E-07	3.291E-06	1643
118.2	3519	1.002E-06	4.010E-06	1644
119.2	3850	1.097E-06	4.386E-06	1646
120.2	4526	1.269E-06	5.157E-06	1647
121.2	6149	1.751E-06	7.006E-06	1649
122.1	9254	2.636E-06	1.054E-05	1650
123.1	11937	3.400E-06	1.360E-05	1652
124.1	12265	3.493E-06	1.397E-05	1653
125.0	15313	4.361E-06	1.745E-05	1655
E 126.0	24284	6.917E-06	2.767E-05	1656
E 126.9	42978	1.224E-05	4.896E-05	1658
E 127.8	61312	1.746E-05	6.985E-05	1659
E 128.8	72733	2.072E-05	8.286E-05	1660
F 129.7	72433	2.063E-05	8.257E-05	1662
130.6	73277	2.087E-05	8.348E-05	1663
131.5	50880	1.449E-05	5.797E-05	1664
132.5	38858	1.107E-05	4.427E-05	1665
133.5	24510	6.981E-06	2.792E-05	1667
134.4	26154	7.449E-06	2.980E-05	1668
135.4	18874	5.376E-06	2.150E-05	1669
136.4	15676	4.465E-06	1.786E-05	1670
137.3	9677	2.756E-06	1.103E-05	1672
138.3	14369	4.093E-06	1.637E-05	1673
139.3	13311	3.791E-06	1.517E-05	1674
140.2	11820	3.367E-06	1.347E-05	1675
141.2	8493	2.419E-06	9.677E-06	1676
142.2	3606	1.027E-06	4.109E-06	1677
143.1	1211	3.450E-07	1.380E-06	1678
144.1	0	0.	0.	1679

CROSSWIND INTEGRATED= 5.376E-03 SEC/SQ.M 2.150E-02 1/M

TEST U60 JUNE 4, 1968 0216 TO 0246 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
2200M ARC SAMPLER HT 1.5M U= 4.0 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
4 48.0	7	2.145E-09	8.579E-09	2200
9 50.0	0	0.	0.	2200
8 52.0	0	0.	0.	2200
9 54.0	0	0.	0.	2200
0 56.0	3	1.072E-09	4.290E-09	2200
0 58.0	0	0.	0.	2200
60.0	30	8.699E-09	3.479E-08	2200
62.0	16	4.766E-09	1.907E-08	2200
64.0	29	8.341E-09	3.336E-08	2200
66.0	20	5.958E-09	2.383E-08	2200
4 68.0	20	5.720E-09	2.288E-08	2200
4 70.0	29	8.460E-09	3.384E-08	2200
I 72.0	17	5.005E-09	2.002E-08	2200
5 74.0	19	5.481E-09	2.193E-08	2200
I 76.0	0	0.	0.	2200
78.0	76	2.193E-08	8.770E-08	2200
80.0	1	4.766E-10	1.907E-09	2200
8 82.0	0	0.	0.	2200
7 84.0	14	4.171E-09	1.668E-08	2200
86.0	25	7.150E-09	2.860E-08	2200
I 88.0	0	0.	0.	2200
4 90.0	82	2.336E-08	9.342E-08	2200
92.0	97	2.776E-08	1.111E-07	2200
4 94.0	101	2.884E-08	1.153E-07	2200
I 96.0	1	4.766E-10	1.907E-09	2200
I 98.0	0	0.	0.	2200

101.6	5198	1.772E-06	2.127E-06	1617
102.6	7430	2.534E-06	3.040E-06	1618
103.6	4752	1.620E-06	1.944E-06	1620
104.5	6389	2.178E-06	2.614E-06	1622
105.5	5942	2.026E-06	2.431E-06	1623
106.5	6389	2.178E-06	2.614E-06	1625
107.5	5793	1.975E-06	2.371E-06	1627
108.5	8323	2.838E-06	3.406E-06	1628
109.5	8918	3.041E-06	3.649E-06	1630
110.4	9365	3.193E-06	3.832E-06	1632
111.4	8621	2.939E-06	3.527E-06	1633
112.4	9067	3.092E-06	3.710E-06	1635
113.4	7579	2.584E-06	3.101E-06	1637
114.4	12391	4.225E-06	5.070E-06	1638
115.3	6389	2.178E-06	2.614E-06	1640
116.3	10704	3.650E-06	4.380E-06	1641
117.3	7579	2.584E-06	3.101E-06	1643
118.2	8770	2.990E-06	3.588E-06	1644
119.2	11002	3.751E-06	4.501E-06	1646
120.2	21815	7.438E-06	8.926E-06	1647
121.2	32912	1.122E-05	1.347E-05	1649
122.1	38638	1.317E-05	1.581E-05	1650
123.1	71561	2.440E-05	2.928E-05	1652
124.1	81103	2.765E-05	3.318E-05	1653
E 125.0	62018	2.114E-05	2.537E-05	1655
E 126.0	73946	2.521E-05	3.025E-05	1656
E 126.9	81103	2.765E-05	3.318E-05	1658
E 127.8	85875	2.928E-05	3.513E-05	1659
E 128.8	81103	2.765E-05	3.318E-05	1660
E 129.7	78332	2.603E-05	3.123E-05	1662
130.6	71561	2.440E-05	2.928E-05	1663
131.5	23608	8.049E-06	9.659E-06	1664
132.5	8323	2.838E-06	3.406E-06	1665
133.5	5793	1.975E-06	2.371E-06	1667
134.4	3710	1.265E-06	1.518E-06	1668
135.4	5547	1.823E-06	2.188E-06	1669
136.4	6686	2.280E-06	2.736E-06	1670
137.3	6091	2.077E-06	2.492E-06	1672
138.3	2718	9.269E-07	1.112E-06	1673
139.3	2718	9.269E-07	1.112E-06	1674
140.2	2073	7.070E-07	8.484E-07	1675
141.2	383	3.011E-07	3.613E-07	1676
142.2	317	1.083E-07	1.300E-07	1677
143.1	30	1.047E-08	1.256E-08	1678
144.1	10	3.463E-09	4.156E-09	1679
145.1	58	2.005E-08	2.406E-08	1680

CROSSWIND INTEGRATED= 1.074E-02 SEC/SQ.M 1.289E-02 1/M

TEST U60 JUNE 4, 1968 0216 TO 0246 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 26M  
2200M ARC SAMPLER HT 1.5M U= 1.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
4 48.0	302	1.030E-07	1.236E-07	2200
9 50.0	239	8.168E-08	9.801E-08	2200
8 52.0	292	9.983E-08	1.193E-07	2200
9 54.0	195	6.673E-08	8.007E-08	2200
0 56.0	386	1.317E-07	1.581E-07	2200
0 58.0	0	0.	0.	2200
60.0	392	1.340E-07	1.608E-07	2200
62.0	491	1.676E-07	2.011E-07	2200
64.0	496	1.692E-07	2.031E-07	2200
66.0	1282	4.372E-07	5.246E-07	2200
4 68.0	343	2.877E-07	3.453E-07	2200
4 70.0	812	2.771E-07	3.325E-07	2200
4 72.0	411	1.464E-07	1.695E-07	2200
5 74.0	343	2.877E-07	3.453E-07	2200
I 76.0	0	5.339E-11	6.436E-11	2200
78.0	1063	3.625E-07	4.350E-07	2200
80.0	0	1.068E-10	1.281E-10	2200
8 82.0	0	3.310E-10	3.972E-10	2200
8 84.0	812	2.771E-07	3.325E-07	2200
86.0	609	2.077E-07	2.492E-07	2200
I 88.0	0	0.	0.	2200
4 90.0	688	2.349E-07	2.819E-07	2200
3 92.0	281	9.588E-08	1.151E-07	2200
4 94.0	1122	3.829E-07	4.594E-07	2200
I 96.0	1	4.271E-10	5.125E-10	2200
I 98.0	0	1.068E-10	1.281E-10	2200



100.0	311	4.865E-08	3.546E-07	2200
5 102.0	147	4.206E-08	1.683E-07	2200
104.0	358	1.021E-07	4.065E-07	2200
1 106.0	0	0.	0.	2200
108.0	674	1.921E-07	7.683E-07	2200
110.0	893	2.544E-07	1.018E-06	2200
0 112.0	0	2.383E-10	9.533E-10	2200
6 114.0	645	1.840E-07	7.359E-07	2200
116.0	2603	7.414E-07	2.966E-06	2200
1 118.0	0	0.	0.	2200
0 120.0	179	5.124E-08	2.050E-07	2200
0 122.0	830	2.364E-07	9.456E-07	2200
1 124.0	23	6.673E-09	2.669E-08	2200
126.0	13212	3.763E-06	1.505E-05	2200
8 128.0	12526	3.568E-06	1.427E-05	2200
1 130.0	36	1.084E-08	4.337E-08	2200
4 132.0	36815	1.049E-05	4.194E-05	2200
1 134.0	3228	9.197E-07	3.679E-06	2200
7 136.0	6096	1.736E-06	6.946E-06	2200
0 138.0	927	2.642E-07	1.057E-06	2200
4 140.0	5092	1.450E-06	5.802E-06	2200
1 142.0	0	0.	0.	2200
144.0	7	2.145E-09	8.579E-09	2200
146.0	0	0.	0.	2200

CROSSWIND INTEGRATED= 1.864E-03 7.455E-03  
SFC/SQ.M 1/M

TEST U60 JUNE 4, 1968 0216 TO 0246 PST  
ZINC SULFIDE RELEASE FROM ELFVATION OF 26M  
3200M ARC SAMPLER HT 1.5M U= 4.0 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
59.0	0	0.	0.	3200
4 60.0	1	4.766E-10	1.907E-09	3200
5 62.0	0	0.	0.	3200
64.0	5	1.668E-09	6.673E-09	3200
66.0	5	1.668E-09	6.673E-09	3200
68.0	6	1.787E-09	7.150E-09	3200
6 70.0	1	4.766E-10	1.907E-09	3200
72.7	25	7.317E-09	2.927E-08	3168
73.7	35	1.015E-08	4.065E-08	3170
74.7	42	1.219E-08	4.878E-08	3172
75.7	34	9.756E-09	3.902E-08	3173
76.8	51	1.463E-08	5.853E-08	3175
77.8	25	7.317E-09	2.927E-08	3177
78.8	47	1.341E-08	5.366E-08	3179
79.8	42	1.219E-08	4.878E-08	3180
80.8	17	4.878E-09	1.951E-08	3182
81.8	22	6.504E-09	2.602E-08	3184
82.8	29	8.536E-09	3.415E-08	3185
83.8	21	6.097E-09	2.439E-08	3187
84.8	54	1.545E-08	6.179E-08	3189
85.8	24	6.910E-09	2.764E-08	3191
86.8	59	1.707E-08	6.829E-08	3192
87.8	47	1.341E-08	5.366E-08	3194
88.8	61	1.748E-08	6.992E-08	3196
89.8	74	2.114E-08	8.455E-08	3198
90.8	82	2.358E-08	9.431E-08	3199
91.8	74	2.114E-08	8.455E-08	3201
92.8	106	3.089E-08	1.236E-07	3203
93.8	131	3.740E-08	1.496E-07	3205
94.8	129	3.699E-08	1.480E-07	3206
95.8	131	3.740E-08	1.496E-07	3208
96.8	176	5.040E-08	2.016E-07	3210
97.8	169	4.837E-08	1.935E-07	3212
98.8	232	6.626E-08	2.650E-07	3213
99.8	229	6.544E-08	2.618E-07	3215
100.8	172	4.919E-08	1.967E-07	3217
101.8	101	2.886E-08	1.154E-07	3218
102.8	211	6.016E-08	2.406E-07	3220
103.8	391	1.114E-07	4.455E-07	3222
104.8	313	8.943E-08	3.577E-07	3224
105.8	560	1.598E-07	6.390E-07	3225
106.8	472	1.345E-07	5.382E-07	3227
107.8	792	2.256E-07	9.024E-07	3229

100.0	1576	5.376E-07	6.451E-07	2200
5 102.0	2300	7.842E-07	9.410E-07	2200
104.0	1517	5.174E-07	6.209E-07	2200
1 106.0	0	2.989E-10	3.587E-10	2200
108.0	3414	1.164E-06	1.397E-06	2200
110.0	3793	1.293E-06	1.552E-06	2200
0 112.0	0	2.349E-10	2.819E-10	2200
6 114.0	7209	2.458E-05	2.950E-06	2200
116.0	3793	1.293E-06	1.552E-06	2200
1 118.0	2	8.114E-10	9.737E-10	2200
0 120.0	7929	2.703E-06	3.244E-06	2200
0 122.0	11516	3.927E-06	4.712E-06	2200
1 124.0	3	1.132E-09	1.358E-09	2200
3 126.0	25175	8.583E-06	1.030E-05	2200
8 128.0	20872	7.116E-06	8.540E-06	2200
1 130.0	2	7.794E-10	9.353E-10	2200
4 132.0	6311	2.152E-06	2.582E-06	2200
0 134.0	2431	8.290E-07	9.948E-07	2200
7 136.0	2102	7.169E-07	8.603E-07	2200
0 138.0	162	5.552E-08	6.662E-08	2200
4 140.0	175	5.900E-08	7.200E-08	2200
1 142.0	0	0.	0.	2200

CROSSWIND INTEGRATED= 2.929E-03 3.515E-03  
SEC/SQ.M 1/M

TEST U60 JUNE 4, 1968 0216 TO 0246 PST  
FLUORIDESCEIN RELEASE FROM ELFVATION OF 26M  
3200M ARC SAMPLER HT 1.5M U= 1.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
B 48.0	129	4.409E-08	5.291E-08	3200
50.0	160	5.477E-08	6.572E-08	3200
52.0	113	3.876E-08	4.651E-08	3200
7 54.0	135	4.623E-08	5.548E-08	3200
6 56.0	98	3.342E-08	4.010E-08	3200
58.0	129	4.409E-08	5.291E-08	3200
60.0	132	4.516E-08	5.419E-08	3200
5 62.0	166	5.691E-08	6.829E-08	3200
64.0	213	7.292E-08	8.750E-08	3200
66.0	163	5.584E-08	6.701E-08	3200
68.0	213	7.292E-08	8.750E-08	3200
6 70.0	132	4.516E-08	5.419E-08	3200
72.7	246	8.413E-08	1.010E-07	3168
73.7	449	1.533E-07	1.840E-07	3170
74.7	524	1.788E-07	2.146E-07	3172
75.7	460	1.570E-07	1.884E-07	3173
76.8	503	1.715E-07	2.059E-07	3175
77.8	535	1.825E-07	2.190E-07	3177
78.8	449	1.533E-07	1.840E-07	3179
79.8	449	1.533E-07	1.840E-07	3180
80.8	567	1.934E-07	2.321E-07	3182
81.8	32	1.093E-08	1.311E-08	3184
82.8	33	1.129E-08	1.355E-08	3185
83.8	22	7.648E-09	9.178E-09	3187
84.8	577	1.970E-07	2.364E-07	3189
85.8	513	1.752E-07	2.192E-07	3191
86.8	535	1.825E-07	2.190E-07	3192
87.8	684	2.335E-07	2.801E-07	3194
88.8	951	3.245E-07	3.894E-07	3196
89.8	909	3.099E-07	3.719E-07	3198
90.8	941	3.209E-07	3.850E-07	3199
S 91.8	898	3.063E-07	3.676E-07	3201
92.8	748	2.553E-07	3.064E-07	3203
93.8	569	1.941E-07	2.329E-07	3205
94.8	954	3.256E-07	3.907E-07	3206
95.8	954	3.256E-07	3.907E-07	3208
96.8	932	3.130E-07	3.815E-07	3210
97.8	1201	4.097E-07	4.917E-07	3212
F 98.8	1089	3.715E-07	4.458E-07	3213
99.8	1470	5.015E-07	6.018E-07	3215
100.8	1470	5.015E-07	6.018E-07	3217
101.8	1112	3.791E-07	4.550E-07	3218
102.8	1403	4.786E-07	5.743E-07	3220
103.8	1695	5.780E-07	6.936E-07	3222
104.8	1605	5.474E-07	6.569E-07	3224
105.8	1156	3.944E-07	4.733E-07	3225
106.8	2211	7.539E-07	9.047E-07	3227
107.8	2413	8.227E-07	9.873E-07	3229

108.8	1808	5.150E-07	2.060E-06	3230
109.7	2107	6.004E-07	2.402E-06	3232
110.7	886	2.524E-07	1.010E-06	3233
111.7	1625	4.630E-07	1.652E-06	3235
112.7	1147	3.768E-07	1.307E-06	3237
E 113.7	1141	3.252E-07	1.301E-06	3238
E 114.6	1184	3.374E-07	1.350E-06	3240
4 115.6	1235	3.520E-07	1.408E-06	3241
H 116.6	1746	4.975E-07	1.990E-06	3243
8 117.6	1195	3.406E-07	1.363E-06	3245
H 118.6	1341	3.821E-07	1.528E-06	3246
119.5	2865	8.162E-07	3.265E-06	3248
120.5	2974	8.471E-07	3.388E-06	3249
121.5	2934	8.357E-07	3.343E-06	3251
122.4	2808	8.000E-07	3.200E-06	3252
123.4	4636	1.321E-06	5.283E-06	3253
124.4	941	2.683E-07	1.073E-06	3255
125.4	2359	6.719E-07	2.688E-06	3256
126.3	4452	1.268E-06	5.073E-06	3258
127.3	7976	2.777E-06	9.087E-06	3259
128.3	6519	1.857E-06	7.427E-06	3261
129.3	7194	2.049E-06	8.196E-06	3262
130.3	14271	4.065E-06	1.626E-05	3263
131.2	18870	5.375E-06	2.150E-05	3264
132.2	23278	6.630E-06	2.652E-05	3266
133.2	21838	6.220E-06	2.488E-05	3267
134.2	7087	2.019E-06	8.074E-06	3268
135.2	9616	2.739E-06	1.096E-05	3270
136.2	1632	4.650E-07	1.860E-06	3271
137.1	727	2.073E-07	8.292E-07	3272
138.1	104	2.967E-08	1.187E-07	3273
139.1	67	1.910E-08	7.642E-08	3274
140.1	7	2.032E-09	8.130E-09	3276
141.1	0	0.	0.	3277

CROSSWIND INTEGRATED= 2.607E-03 1.043E-02  
SEC/SQ.M 1/M

TEST U60 JUNE 4, 1968 0216 TO 0246 PST  
ZINC SULFIDE RELEASE FROM ELFVATION OF 26M  
5000M ARC SAMPLER HT 1.5M U= 4.0 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SFC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
B 82.0	133	3.813E-08	1.525E-07	4630
4 84.0	134	3.837E-08	1.535E-07	4620
E 86.0	106	3.027E-08	1.211E-07	4610
88.0	81	2.312E-08	9.247E-08	4610
90.0	156	4.457E-08	1.783E-07	4610
92.0	20	5.958E-09	2.383E-08	4620
94.0	123	3.527E-08	1.411E-07	4620
96.0	146	4.171E-08	1.668E-07	4620
98.0	193	5.517E-08	2.207E-07	4660
5 100.0	32	9.175E-09	3.670E-08	4690
102.0	837	2.387E-07	9.547E-07	4710
104.0	196	5.589E-08	2.235E-07	4770
106.0	1598	4.552E-07	1.821E-06	4810
108.0	202	5.767E-08	2.307E-07	4870
110.0	435	1.242E-07	4.967E-07	4920
E 112.0	309	8.818E-08	3.527E-07	4990
114.0	184	5.243E-08	2.097E-07	5080
116.0	1073	3.058E-07	1.223E-06	5020
118.0	1100	3.134E-07	1.254E-06	5100
120.0	288	8.210E-08	3.284E-07	5130
122.0	71	2.034E-08	8.151E-08	4830
E 124.0	209	5.958E-08	2.363E-07	4660
5 126.0	535	1.524E-07	6.096E-07	4770
6 128.0	1209	3.444E-07	1.377E-06	4900
E 130.0	711	2.026E-07	8.103E-07	4970
132.0	269	7.686E-08	3.074E-07	4980
5 134.0	84	2.407E-08	9.626E-08	4990
136.0	0	0.	0.	5000

CROSSWIND INTEGRATED= 5.069E-04 2.028E-03  
SFC/SQ.M 1/M

108.8	2951	1.006E-06	1.208E-06	3230
109.7	3287	1.121E-06	1.345E-06	3232
2 110.7	3355	1.144E-06	1.373E-06	3233
111.7	3624	1.236E-06	1.483E-06	3235
112.7	4499	1.534E-06	1.841E-06	3237
0 113.7	3893	1.328E-06	1.593E-06	3238
8 114.6	3355	1.144E-06	1.373E-06	3240
115.6	3691	1.259E-06	1.510E-06	3241
116.6	3826	1.305E-06	1.566E-06	3243
H 117.6	2682	9.145E-07	1.097E-06	3245
118.6	1942	6.621E-07	7.946E-07	3246
119.5	2480	8.457E-07	1.015E-06	3248
120.5	3759	1.282E-06	1.538E-06	3249
121.5	4095	1.396E-06	1.676E-06	3251
122.4	3287	1.121E-06	1.345E-06	3252
123.4	3227	1.100E-06	1.320E-06	3253
124.4	4413	1.505E-06	1.806E-06	3255
125.4	2903	9.899E-07	1.188E-06	3256
126.3	7111	2.425E-05	2.909E-06	3258
127.3	4563	1.556E-06	1.867E-06	3259
128.3	4090	1.395E-06	1.673E-06	3261
129.3	7758	2.645E-06	3.174E-06	3262
130.3	12289	4.190E-06	5.028E-06	3263
131.2	13908	4.742E-06	5.690E-06	3264
132.2	6463	2.204E-06	2.645E-06	3266
133.2	1201	4.097E-07	4.917E-07	3267
134.2	360	1.229E-07	1.475E-07	3268
135.2	151	5.179E-08	6.215E-08	3270
136.2	31	1.072E-08	1.286E-08	3271
137.1	6	2.229E-09	2.675E-09	3272

CROSSWIND INTEGRATED= 2.919E-03 3.503E-03  
SEC/SQ.M 1/M

TEST U60 JUNE 4, 1968 0216 TO 0246 PST  
FLUORESCIN RELEASE FROM ELFVATION OF 2M  
5000M ARC SAMPLER HT 1.5M U= 1.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
B 82.0	957	3.265E-07	3.918E-07	4630
4 84.0	997	3.399E-07	4.079E-07	4620
0 86.0	376	1.282E-07	1.539E-07	4610
S 88.0	523	1.785E-07	2.142E-07	4610
90.0	661	2.256E-07	2.707E-07	4610
92.0	661	2.256E-07	2.707E-07	4620
94.0	582	1.987E-07	2.384E-07	4620
96.0	661	2.256E-07	2.707E-07	4620
98.0	681	2.323E-07	2.788E-07	4660
5 100.0	1450	4.944E-07	5.936E-07	4690
102.0	1391	4.745E-07	5.694E-07	4710
104.0	1371	4.677E-07	5.613E-07	4770
106.0	1414	4.822E-07	5.786E-07	4810
108.0	1352	4.610E-07	5.532E-07	4870
110.0	1016	3.467E-07	4.160E-07	4920
E 112.0	997	3.399E-07	4.079E-07	4990
114.0	977	3.332E-07	3.999E-07	5080
116.0	937	3.198E-07	3.837E-07	5020
118.0	1115	3.803E-07	4.564E-07	5100
120.0	319	1.090E-07	1.308E-07	5130
122.0	240	9.210E-08	9.852E-08	4930
E 124.0	319	1.090E-07	1.308E-07	4660
5 126.0	438	1.494E-07	1.792E-07	4770
6 128.0	563	1.920E-07	2.304E-07	4900
9 130.0	273	9.331E-08	1.120E-07	4970
8 132.0	129	4.399E-08	5.278E-08	4980

CROSSWIND INTEGRATED= 1.166E-03 1.399E-03  
SEC/SQ.M 1/M

TEST U60 JUNE 4, 1968 0216 TO 0246 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 7000M ARC SAMPLER HT 1.5M U= 4.0 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/O SEC/CM.M	EU/O 1/SQ.M	DISTANCE METERS
4 76.0	369	1.059E-07	4.213E-07	6280
4 78.0	424	1.209E-07	4.833E-07	6300
4 80.0	461	1.316E-07	5.262E-07	6400
4 82.0	725	2.067E-07	8.270E-07	6490
5 84.0	259	7.388E-08	2.955E-07	6500
5 86.0	194	5.559E-08	2.221E-07	6500
5 88.0	296	8.448E-08	3.379E-07	6480
5 90.0	794	2.264E-07	9.056E-07	6500
E 92.0	753	2.145E-07	8.579E-07	6490
E 94.0	753	2.145E-07	8.579E-07	6500
4 96.0	751	2.140E-07	8.560E-07	6510
5 98.0	532	1.517E-07	6.068E-07	6520
4 100.0	862	2.456E-07	9.823E-07	6560
5 102.0	824	2.347E-07	9.390E-07	6510
4 104.0	1128	3.214E-07	1.285E-06	6650
4 106.0	557	1.588E-07	6.354E-07	6720
4 108.0	835	2.378E-07	9.514E-07	6800
E 110.0	1255	3.575E-07	1.430E-06	7000
E 112.0	1673	4.766E-07	1.907E-06	7300
114.0	2747	7.824E-07	3.130E-06	7210
116.0	2143	6.105E-07	2.442E-06	7220
118.0	1748	4.980E-07	1.992E-06	7190
120.0	930	2.649E-07	1.060E-06	7150
122.0	1880	5.356E-07	2.142E-06	7120
E 124.0	1255	3.575E-07	1.430E-06	7100
E 126.0	836	2.383E-07	9.533E-07	7100
5 128.0	541	1.543E-07	6.172E-07	7100
S 130.0	87	2.479E-08	9.914E-08	7130
O 132.0	0	0.	0.	7150
N 134.0	0	0.	0.	7200

CROSSWIND INTEGRATED= 1.761E-03 SEC/SQ.M 7.043E-03 1/M

TEST U60 JUNE 4, 1968 0216 TO 0246 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 12800M ARC SAMPLER HT 1.5M U= 4.0 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/O SEC/CM.M	EU/O 1/SQ.M	DISTANCE METERS
121.0	2	5.958E-10	2.343E-09	12800
122.0	0	0.	0.	12800
123.0	8	2.363E-09	9.533E-09	12800
6 124.0	18	5.243E-09	2.097E-08	12800
9 125.0	8	2.502E-09	1.001E-08	12800
8 126.0	9	2.622E-09	1.049E-08	12800
7 127.0	5	1.668E-09	6.673E-09	12800
6 128.0	11	3.217E-09	1.287E-08	12800
8 129.0	8	2.383E-09	9.533E-09	12800
8 130.0	5	1.430E-09	5.720E-09	12800
O 131.0	11	3.336E-09	1.335E-08	12800
5 132.0	28	8.222E-09	3.289E-08	12800
Z 133.0	12	3.456E-09	1.382E-08	12800
4 134.0	15	4.290E-09	1.716E-08	12800
5 135.0	24	6.911E-09	2.764E-08	12800
8 136.0	8	2.383E-09	9.533E-09	12800
4 137.0	18	5.362E-09	2.145E-08	12800
7 138.0	0	0.	0.	12800
5 139.0	14	4.171E-09	1.668E-08	12800
X 140.0	0	0.	0.	12800
O 141.0	3	9.533E-10	3.813E-09	12800
142.0	6	1.907E-09	7.626E-09	12800
S 143.0	3	9.533E-10	3.813E-09	12800
6 144.0	0	0.	0.	12800

CROSSWIND INTEGRATED= 1.430E-05 SEC/SQ.M 5.718E-05 1/M

TEST U60 JUNE 4, 1968 0216 TO 0246 PST  
 FLUORESCCEIN RELEASE FROM ELEVATION OF 2M  
 7000M ARC SAMPLER HT 1.5M U= 1.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/O SEC/CM.M	EU/O 1/SQ.M	DISTANCE METERS
4 76.0	1006	3.430E-07	4.116E-07	6280
4 78.0	572	1.953E-07	2.344E-07	6300
4 80.0	879	2.999E-07	3.599E-07	6400
4 82.0	1069	3.646E-07	4.375E-07	6490
5 84.0	942	3.215E-07	3.858E-07	6500
5 86.0	974	3.323E-07	3.987E-07	6500
5 88.0	942	3.215E-07	3.858E-07	6480
5 90.0	1132	3.862E-07	4.634E-07	6500
E 92.0	1132	3.862E-07	4.634E-07	6490
9 94.0	1164	3.970E-07	4.763E-07	6500
9 96.0	847	2.891E-07	3.469E-07	6510
5 98.0	572	1.953E-07	2.344E-07	6520
5 100.0	810	2.762E-07	3.314E-07	6560
5 102.0	911	3.107E-07	3.728E-07	6610
4 104.0	784	2.676E-07	3.211E-07	6650
4 106.0	610	2.002E-07	2.499E-07	6720
4 108.0	620	2.115E-07	2.538E-07	6800
W 110.0	658	2.244E-07	2.693E-07	7000
6 112.0	526	1.796E-07	2.155E-07	7300
114.0	506	1.729E-07	2.074E-07	7210
116.0	289	9.886E-08	1.186E-07	7220
118.0	110	3.766E-08	4.519E-08	7190
120.0	74	2.555E-08	3.066E-08	7150
122.0	388	1.325E-07	1.590E-07	7120
T 124.0	120	4.102E-08	4.922E-08	7100
O 126.0	138	4.730E-08	5.676E-08	7100

CROSSWIND INTEGRATED= 1.400E-03 SEC/SQ.M 1.680E-03 1/M

TEST U60 JUNE 4, 1968 0216 TO 0246 PST  
 FLUORESCCEIN RELEASE FROM ELEVATION OF 2M  
 12800M ARC SAMPLER HT 1.5M U= 1.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/O SEC/CM.M	EU/O 1/SQ.M	DISTANCE METERS
6 124.0	15	5.338E-09	6.406E-09	12800
9 125.0	21	7.260E-09	8.712E-09	12800
8 126.0	37	1.271E-08	1.525E-08	12800
7 127.0	16	5.552E-09	6.652E-09	12800
6 128.0	9	3.203E-09	3.844E-09	12800
E 129.0	20	6.940E-09	8.328E-09	12800
T 130.0	8	2.989E-09	3.587E-09	12800
O 131.0	10	3.416E-09	4.100E-09	12800
S 132.0	4	1.601E-09	1.922E-09	12800
9 133.0	6	2.135E-09	2.562E-09	12800

CROSSWIND INTEGRATED= 1.142E-05 SEC/SQ.M 1.371E-05 1/M

SAMPLING 800M TO 12800M, NO TOWER SAMPLING. ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER.  
 NOT ENOUGH TRACER SAMPLED ON 5000M ARC TO CONFIDENTLY INTERPOLATE QUESTIONABLE DATA POINTS.  
 THIRTY MIN OF ZINC SULFIDE DISPERSAL, 15 MIN OF FLOURESCEIN DISPERSAL.

TEST U61 JUNE 6, 1968 0106 TO 0135 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 800M ARC SAMPLER HT 1.5M U= 8.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/O SEC/CM.M	EU/O 1/SQ.M	DISTANCE METERS
99.1	0	0.	0.	809
101.1	12	3.700E-09	3.145E-08	813
103.0	173	4.995E-08	4.246E-07	816
105.0	1964	5.723E-07	4.864E-06	820
S 106.9	3611	1.042E-06	8.854E-06	823
108.8	18629	5.373E-06	4.567E-05	826
110.7	36148	1.043E-05	8.862E-05	829
112.6	43499	1.255E-05	1.066E-04	833
114.5	43439	1.253E-05	1.065E-04	836
116.4	22749	6.562E-06	5.577E-05	839
I 118.3	3472	1.002E-06	8.513E-06	842
I 120.2	560	1.616E-07	1.373E-06	845
I 122.1	188	5.427E-08	4.613E-07	848
I 124.0	100	2.898E-08	2.464E-07	851
I 125.8	0	0.	0.	854

CROSSWIND INTEGRATED= 1.391E-03 SEC/SQ.M  
 1.182E-02 1/M

TEST U61 JUNE 6, 1968 0106 TO 0135 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 1200M ARC SAMPLER HT 1.5M U= 8.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/O SEC/CM.M	EU/O 1/SQ.M	DISTANCE METERS
100.0	0	0.	0.	1200
102.0	6	1.743E-09	1.481E-08	1200
104.0	177	5.131E-08	4.361E-07	1200
106.0	1899	5.477E-07	4.656E-06	1200
108.0	7669	2.212E-06	1.880E-05	1200
110.0	14910	4.301E-06	3.656E-05	1200
112.0	21304	6.145E-06	5.223E-05	1200
114.0	19173	5.530E-06	4.701E-05	1200
116.0	9215	2.658E-06	2.259E-05	1200
118.0	2353	6.788E-07	5.770E-06	1200
120.0	457	1.319E-07	1.121E-06	1200
122.0	55	1.588E-08	1.349E-07	1200

CROSSWIND INTEGRATED= 9.330E-04 SEC/SQ.M  
 7.930E-03 1/M

TEST U61 JUNE 6, 1968 0106 TO 0121 PST  
 FLOURESCEIN RELEASE FROM ELEVATION OF 2M  
 800M ARC SAMPLER HT 1.5M U= 5.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/O SEC/CM.M	EU/O 1/SQ.M	DISTANCE METERS
99.1	0	0.	0.	809
101.1	97	6.851E-08	3.563E-07	813
103.0	136	9.622E-08	5.003E-07	816
105.0	8338	5.864E-06	3.049E-05	820
S 106.9	11949	8.403E-06	4.370E-05	823
108.8	48826	3.434E-05	1.785E-04	826
110.7	45570	3.205E-05	1.666E-04	829
112.6	30377	2.136E-05	1.111E-04	833
114.5	11949	8.403E-06	4.370E-05	836
116.4	2547	1.791E-06	9.315E-06	839
I 118.3	64	4.509E-08	2.344E-07	842
I 120.2	10	7.304E-09	3.798E-08	845
I 122.1	143	1.013E-07	5.265E-07	848
I 124.0	0	0.	0.	851

CROSSWIND INTEGRATED= 3.076E-03 SEC/SQ.M  
 1.610E-02 1/M

TEST U61 JUNE 6, 1968 0106 TO 0121 PST  
 FLOURESCEIN RELEASE FROM ELEVATION OF 2M  
 1200M ARC SAMPLER HT 1.5M U= 5.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/O SEC/CM.M	EU/O 1/SQ.M	DISTANCE METERS
100.0	0	0.	0.	1200
102.0	68	4.842E-08	2.518E-07	1200
104.0	859	6.042E-07	3.142E-06	1200
106.0	4686	3.295E-05	1.714E-05	1200
108.0	12784	8.991E-06	4.675E-05	1200
110.0	12054	8.477E-06	4.408E-05	1200
112.0	7487	5.266E-06	2.733E-05	1200
114.0	1669	1.174E-06	6.105E-06	1200
116.0	309	2.178E-07	1.133E-06	1200
118.0	149	1.048E-07	5.450E-07	1200
120.0	32	2.298E-08	1.195E-07	1200
122.0	10	7.207E-09	3.748E-08	1200
124.0	5	3.773E-09	1.962E-08	1200
126.0	11	8.352E-09	4.343E-08	1200
128.0	8	6.063E-09	3.153E-08	1200
130.0	2	1.993E-09	1.036E-08	1200
132.0	0	0.	0.	1200

CROSSWIND INTEGRATED= 1.182E-03 SEC/SQ.M  
 6.149E-03 1/M

TEST U61 JUNE 6, 1968 0106 TO 0136 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
1600M ARC SAMPLER HT 1.5M U= 0.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SFC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
100.6	0	0.	0.	1615
101.6	0	0.	0.	1617
102.6	10	3.019E-09	2.566E-08	1618
103.6	64	1.862E-08	1.583E-07	1620
104.5	369	1.067E-07	9.088E-07	1622
105.5	750	2.164E-07	1.839E-06	1623
106.8	2179	6.285E-07	5.342E-06	1625
107.5	5029	1.451E-06	1.233E-05	1627
108.5	7828	2.258E-06	1.919E-05	1628
109.5	9045	2.609E-06	2.218E-05	1630
110.4	11858	3.420E-06	2.907E-05	1632
111.4	15462	4.460E-06	3.791E-05	1633
112.4	15305	4.415E-06	3.752E-05	1635
113.4	12870	3.717E-06	3.155E-05	1637
114.4	9447	2.725E-06	2.316E-05	1638
115.3	4900	1.414E-06	1.201E-05	1640
116.3	2259	6.517E-07	5.539E-06	1641
117.3	668	1.927E-07	1.638E-06	1643
118.2	580	1.676E-07	1.424E-06	1644
119.2	129	3.724E-08	3.165E-07	1646
120.2	0	0.	0.	1647
121.2	0	0.	0.	1649

CROSSWIND INTEGRATED= 7.970E-04 SEC/SQ.M  
6.774E-03 1/M

TEST U61 JUNE 6, 1968 0106 TO 0136 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
2200M ARC SAMPLER HT 1.5M U= 0.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
102.0	0	0.	0.	2200
104.0	126	3.661E-08	3.112E-07	2200
106.0	323	9.334E-08	7.934E-07	2200
108.0	7264	2.095E-06	1.781E-05	2200
110.0	10721	3.092E-06	2.629E-05	2200
112.0	7653	2.208E-06	1.876E-05	2200
114.0	3595	1.037E-06	8.814E-06	2200
116.0	718	2.071E-07	1.760E-06	2200
118.0	109	3.159E-08	2.685E-07	2200
120.0	9	2.623E-09	2.230E-08	2200
122.0	0	0.	0.	2200

CROSSWIND INTEGRATED= 6.761E-04 SEC/SQ.M  
5.747E-03 1/M

TEST U61 JUNE 6, 1968 0106 TO 0136 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
3200M ARC SAMPLER HT 1.5M U= 0.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
101.8	0	0.	0.	3218
102.8	15	4.367E-09	3.712E-08	3220
103.8	112	3.244E-08	2.757E-07	3222
104.8	285	8.235E-08	7.000E-07	3224
105.8	907	2.617E-07	2.224E-06	3225
106.8	2275	6.563E-07	5.578E-06	3227
107.8	3047	8.790E-07	7.471E-06	3229
108.8	3501	1.010E-06	8.585E-06	3230
109.7	3329	9.604E-07	8.163E-06	3232
110.7	2437	7.031E-07	5.976E-06	3233
W 111.7	2834	8.175E-07	6.949E-06	3235
W 112.7	2172	6.266E-07	5.327E-06	3237
W 113.7	866	2.498E-07	2.124E-06	3238
114.6	261	7.548E-08	6.416E-07	3240
115.6	104	3.026E-08	2.572E-07	3241
116.6	0	0.	0.	3243

CROSSWIND INTEGRATED= 3.539E-04 SEC/SQ.M  
3.008E-03 1/M

TEST U61 JUNE 6, 1968 0106 TO 0121 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 2M  
1600M ARC SAMPLER HT 1.5M U= 5.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SFC/CU.M X10E+6	E/Q SFC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
100.6	0	0.	0.	1615
101.6	17	1.213E-08	6.305E-08	1617
102.6	257	1.811E-07	9.415E-07	1618
103.6	243	1.711E-07	8.897E-07	1620
104.5	1169	8.222E-07	4.276E-06	1622
105.5	3510	2.468E-06	1.284E-05	1623
106.5	4898	3.445E-06	1.791E-05	1625
107.5	8321	5.852E-06	3.043E-05	1627
108.5	10256	7.217E-06	3.750E-05	1628
109.5	10851	7.631E-06	3.968E-05	1630
110.4	8321	5.852E-06	3.043E-05	1632
111.4	9660	6.794E-06	3.533E-05	1633
112.4	5345	3.759E-06	1.955E-05	1635
113.4	1216	8.555E-07	4.448E-06	1637
114.4	673	4.734E-07	2.462E-06	1638
115.3	139	9.800E-08	5.046E-07	1640
116.3	243	1.711E-07	8.897E-07	1641
117.3	118	8.305E-08	4.319E-07	1643
118.2	113	7.973E-08	4.146E-07	1644
119.2	0	0.	0.	1646
120.2	11	8.139E-09	4.232E-08	1647
121.2	0	0.	0.	1649

CROSSWIND INTEGRATED= 1.286E-03 SEC/SQ.M  
6.687E-03 1/M

TEST U61 JUNE 6, 1968 0106 TO 0121 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 2M  
2200M ARC SAMPLER HT 1.5M U= 5.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SFC/CU.M X10E+6	E/Q SFC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
102.0	0	0.	0.	2200
104.0	373	2.625E-07	1.365E-06	2200
106.0	112	7.936E-08	4.127E-07	2200
108.0	6903	4.455E-06	2.524E-05	2200
110.0	4404	3.097E-06	1.611E-05	2200
112.0	748	5.261E-07	2.736E-06	2200
114.0	215	1.515E-07	7.878E-07	2200
116.0	13	9.469E-09	4.924E-08	2200
118.0	4	2.929E-09	1.523E-08	2200
3 120.0	1	1.017E-09	5.267E-09	2200
5 122.0	6	4.404E-09	2.290E-08	2200
124.0	0	3.523E-10	1.632E-09	2200

CROSSWIND INTEGRATED= 6.903E-04 SEC/SQ.M  
3.590E-03 1/M

TEST U61 JUNE 6, 1968 0106 TO 0121 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 2M  
3200M ARC SAMPLER HT 1.5M U= 5.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
101.8	0	0.	0.	3218
102.8	64	4.785E-08	2.488E-07	3220
103.8	197	1.367E-07	7.215E-07	3222
104.8	529	3.724E-07	1.936E-06	3224
105.8	1049	7.382E-07	3.839E-06	3225
106.8	2014	1.417E-06	7.366E-06	3227
107.8	1677	1.180E-06	6.136E-06	3229
108.8	1453	1.022E-06	5.315E-06	3230
109.7	825	5.805E-07	3.018E-06	3232
110.7	758	5.331E-07	2.772E-06	3233
W 111.7	439	3.091E-07	1.607E-06	3235
W 112.7	165	1.162E-07	6.043E-07	3237
W 113.7	58	4.109E-08	2.137E-07	3238
114.6	0	0.	0.	3240

CROSSWIND INTEGRATED= 3.614E-04 SEC/SQ.M  
1.879E-03 1/M

TEST U61 JUNE 6, 1968 0106 TO 0136 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
5000M ARC SAMPLER HT 1.5M U= 8.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
100.0	0	0.	0.	4690
102.0	0	2.186E-10	1.858E-09	4710
S 104.0	54	1.574E-08	1.338E-07	4770
106.0	233	6.743E-08	5.732E-07	4810
P 108.0	98	2.853E-08	2.425E-07	4870
110.0	1240	3.578E-07	3.042E-06	4920
X 112.0	107	3.115E-08	2.648E-07	4990
114.0	35	1.038E-08	8.826E-08	5080
116.0	4	1.421E-09	1.208E-08	5020
118.0	0	1.093E-10	9.290E-10	5100
120.0	0	2.186E-10	1.858E-09	5130
122.0	0	0.	0.	4830

CROSSWIND INTEGRATED= 8.786E-05 SEC/SQ.M  
7.468E-04 1/M

TEST U61 JUNE 6, 1968 0106 TO 0136 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
7000M ARC SAMPLER HT 1.5M U= 8.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
102.0	0	0.	0.	6610
104.0	7	2.077E-09	1.765E-08	6650
106.0	70	2.033E-08	1.728E-07	6720
E 108.0	408	1.178E-07	1.001E-06	6800
110.0	505	1.459E-07	1.240E-06	7000
112.0	144	4.164E-08	3.540E-07	7300
114.0	73	2.131E-08	1.812E-07	7210
116.0	10	2.951E-09	2.508E-08	7220
118.0	0	0.	0.	7190
120.0	0	0.	0.	7150

CROSSWIND INTEGRATED= 8.559E-05 SEC/SQ.M  
7.275E-04 1/M

TEST U61 JUNE 6, 1968 0106 TO 0136 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
12800M ARC SAMPLER HT 1.5M U= 8.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
106.0	0	0.	0.	12800
107.0	7	2.186E-09	1.858E-08	12800
108.0	22	6.448E-09	5.481E-08	12800
109.0	34	9.946E-09	8.454E-08	12800
E 110.0	59	1.727E-08	1.468E-07	12800
111.0	103	2.973E-08	2.527E-07	12800
112.0	141	4.088E-08	3.474E-07	12800
S 113.0	115	3.323E-08	2.824E-07	12800
114.0	36	1.049E-08	8.918E-08	12800
E 115.0	18	5.246E-09	4.459E-08	12800
116.0	10	2.951E-09	2.508E-08	12800
117.0	3	9.837E-10	8.361E-09	12800

CROSSWIND INTEGRATED= 3.560E-05 SEC/SQ.M  
3.026E-04 1/M

TEST U61 JUNE 6, 1968 0106 TO 0121 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 2M  
5000M ARC SAMPLER HT 1.5M U= 5.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
96.0	0	2.202E-10	1.145E-09	4620
98.0	0	1.762E-10	9.161E-10	4660
100.0	0	1.321E-10	6.871E-10	4690
102.0	0	5.065E-10	2.634E-09	4710
106.0	525	3.694E-07	1.921E-06	4810
S 104.0	102	7.208E-08	3.748E-07	4770
P 108.0	7	5.232E-09	2.721E-08	4870
110.0	367	2.584E-07	1.344E-06	4920
X 112.0	1	1.321E-09	6.871E-09	4990
114.0	3	2.312E-09	1.202E-08	5080
116.0	1	8.588E-10	4.466E-09	5020
118.0	0	1.962E-10	1.031E-09	5100
120.0	0	3.083E-10	1.603E-09	5130
122.0	0	3.744E-10	1.947E-09	4830
124.0	0	0.	0.	4660

CROSSWIND INTEGRATED= 6.387E-05 SEC/SQ.M  
4.361E-04 1/M

TEST U61 JUNE 6, 1968 0106 TO 0121 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 2M  
7000M ARC SAMPLER HT 1.5M U= 5.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
100.0	4	2.973E-09	1.546E-08	6560
102.0	0	6.827E-10	3.550E-09	6610
104.0	14	1.020E-08	5.302E-08	6650
106.0	187	1.315E-07	6.840E-07	6720
E 108.0	431	3.033E-07	1.577E-06	6800
110.0	431	3.033E-07	1.577E-06	7000
112.0	165	1.161E-07	6.038E-07	7300
114.0	20	1.438E-08	7.478E-08	7210
116.0	1	1.057E-09	5.497E-09	7220
118.0	0	0.	0.	7190

CROSSWIND INTEGRATED= 2.136E-04 SEC/SQ.M  
1.111E-03 1/M

TEST U61 JUNE 6, 1968 0106 TO 0121 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 2M  
12800M ARC SAMPLER HT 1.5M U= 5.2 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
105.0	0	0.	0.	12800
106.0	0	3.744E-10	1.947E-09	12800
107.0	22	1.608E-08	8.359E-08	12800
108.0	27	1.960E-08	1.019E-07	12800
109.0	96	6.959E-08	3.619E-07	12800
110.0	92	6.518E-08	3.390E-07	12800
111.0	69	4.867E-08	2.531E-07	12800
112.0	62	4.404E-08	2.290E-07	12800
113.0	117	8.280E-08	4.306E-07	12800
114.0	0	0.	0.	12800
115.0	1	1.365E-09	7.100E-09	12800
116.0	1	1.365E-09	7.100E-09	12800
117.0	0	6.606E-11	3.435E-10	12800
118.0	0	6.386E-10	3.321E-09	12800
119.0	0	0.	0.	12800
120.0	0	1.321E-10	6.871E-10	12800

CROSSWIND INTEGRATED= 7.817E-05 SEC/SQ.M  
4.055E-04 1/M

SAMPLING ROOM TO 1200M, NO TOWER SAMPLING. ALL ARCS EMBRACED CROSSWIND EXTENT OF TRACER.  
 ZINC SULFIDE DISPERSED FOR 30 MIN, DISPERSAL DIFFICULTIES RESTRICTED FLUORESCCEIN DISPERSAL TO 19.5 MIN.  
 LIGHT RAIN FELL AFTER TRACER RELEASE ENDED BUT BEFORE ALL FILTERS COLLECTED; NO OBVIOUS EFFECT ON TRACERS.

TEST U62 JUNE 7, 1968 0100 TO 0130 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 800M ARC SAMPLER HT 1.5M U= 8.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
91.0	0	0.	0.	800
94.0	4	1.298E-09	1.091E-08	800
97.0	614	1.873E-07	1.573E-06	800
97.1	589	1.797E-07	1.510E-06	806
99.1	2608	7.951E-07	6.679E-06	809
101.1	8291	2.527E-06	2.123E-05	813
103.0	20688	6.306E-06	5.297E-05	816
105.0	30325	9.243E-06	7.764E-05	820
106.9	35455	1.081E-05	9.077E-05	823
108.8	34658	1.056E-05	8.873E-05	826
110.7	27034	8.240E-06	6.921E-05	829
112.6	18073	5.509E-06	4.627E-05	833
114.5	18291	5.575E-06	4.683E-05	836
116.4	9434	2.875E-06	2.415E-05	839
118.3	2765	8.428E-07	7.080E-06	842
120.2	1173	3.576E-07	3.004E-06	845
122.1	0	0.	0.	848
124.0	0	0.	0.	851

CROSSWIND INTEGRATED= 1.763E-03 SEC/SQ.M  
 1.481E-02 1/M

TEST U62 JUNE 7, 1968 0100 TO 0120 PST  
 FLUORESCCEIN RELEASE FROM ELEVATION OF 2M  
 800M ARC SAMPLER HT 1.5M U= 5.4 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
91.0	0	0.	0.	800
94.0	14	8.226E-09	4.442E-08	800
97.0	949	5.312E-07	2.669E-06	800
97.1	1313	7.350E-07	3.965E-06	806
99.1	8337	4.665E-06	2.519E-05	809
101.0	30074	1.683E-05	9.088E-05	813
103.0	59677	3.340E-05	1.803E-04	816
105.0	58591	3.279E-05	1.771E-04	820
107.0	45568	2.550E-05	1.377E-04	823
109.0	35801	2.003E-05	1.082E-04	826
111.0	20296	1.136E-05	6.133E-05	830
113.0	6080	3.403E-06	1.837E-05	833
114.5	3104	1.737E-06	9.391E-06	836
116.4	568	3.181E-07	1.718E-06	839
118.3	131	7.356E-08	3.972E-07	842
120.2	10	5.812E-09	3.139E-08	845
122.0	13	7.817E-09	4.221E-08	848
124.0	1	1.002E-09	5.412E-09	851
125.8	0	0.	0.	854
127.7	0	0.	0.	857
129.5	6	3.808E-09	2.056E-08	859

CROSSWIND INTEGRATED= 4.287E-03 SEC/SQ.M  
 2.315E-02 1/M

TEST U62 JUNE 7, 1968 0100 TO 0130 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 1200M ARC SAMPLER HT 1.5M U= 8.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
94.0	0	0.	0.	1200
96.0	13	4.217E-09	3.542E-08	1200
98.0	191	5.843E-08	4.908E-07	1200
100.0	1338	4.080E-07	3.427E-06	1200
102.0	3866	1.178E-06	9.898E-06	1200
104.0	9197	2.803E-06	2.355E-05	1200
106.0	14043	4.280E-06	3.595E-05	1200
108.0	17302	5.273E-06	4.430E-05	1200
110.0	12061	3.676E-06	3.088E-05	1200
112.0	10443	3.183E-06	2.674E-05	1200
114.0	8286	2.525E-06	2.121E-05	1200
E 116.0	4303	1.312E-06	1.102E-05	1200
E 118.0	1450	4.422E-07	3.714E-06	1200
120.0	297	9.056E-08	7.607E-07	1200
122.0	10	3.219E-09	2.699E-08	1200
124.0	12	3.815E-09	3.205E-08	1200
126.0	0	0.	0.	1200

CROSSWIND INTEGRATED= 1.057E-03 SEC/SQ.M  
 8.882E-03 1/M

TEST U62 JUNE 7, 1968 0100 TO 0120 PST  
 FLUORESCCEIN RELEASE FROM ELEVATION OF 2M  
 1200M ARC SAMPLER HT 1.5M U= 5.4 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
92.0	0	0.	0.	1200
94.0	0	0.	0.	1200
96.0	72	4.082E-08	2.204E-07	1200
98.0	295	1.651E-07	8.916E-07	1200
100.0	2239	1.253E-06	6.768E-06	1200
102.0	5478	3.066E-06	1.656E-05	1200
104.0	9862	5.519E-06	2.980E-05	1200
106.0	9862	5.519E-06	2.980E-05	1200
108.0	8949	5.008E-06	2.704E-05	1200
110.0	5113	2.861E-06	1.545E-05	1200
112.0	2125	1.190E-06	6.423E-06	1200
114.0	733	4.102E-07	2.215E-06	1200
P 116.0	12	6.916E-09	3.735E-08	1200
F 118.0	1	9.783E-10	5.283E-09	1200
120.0	15	8.771E-09	4.737E-08	1200
122.0	2	1.282E-09	6.923E-09	1200
124.0	1	6.747E-10	3.643E-09	1200
126.0	1	1.045E-09	5.647E-09	1200
128.0	0	4.386E-10	2.368E-09	1200
130.0	0	1.687E-10	9.169E-10	1200

CROSSWIND INTEGRATED= 1.049E-03 SEC/SQ.M  
 5.667E-03 1/M

TEST U62 JUNE 7, 1968 0100 TO 0130 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 1600M ARC SAMPLER HT 1.5M U= 8.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
94.6	0	0.	0.	1600
95.6	0	0.	0.	1606
96.6	15	4.585E-09	3.852E-08	1608
97.6	23	7.133E-09	5.991E-08	1610
98.6	23	7.133E-09	5.991E-08	1611
99.6	115	3.515E-08	2.953E-07	1613
100.6	182	5.553E-08	4.665E-07	1615
101.6	944	2.879E-07	2.418E-06	1617
102.6	1447	4.412E-07	3.706E-06	1618
103.6	2285	6.965E-07	5.850E-06	1620

TEST U62 JUNE 7, 1968 0100 TO 0120 PST  
 FLUORESCCEIN RELEASE FROM ELEVATION OF 2M  
 1600M ARC SAMPLER HT 1.5M U= 5.4 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
94.6	0	0.	0.	1600
95.6	0	0.	0.	1608
96.6	9	5.287E-09	2.855E-08	1610
98.6	8	4.891E-09	2.641E-08	1611
99.6	44	2.498E-08	1.349E-07	1613
100.6	798	4.470E-07	2.414E-06	1615
101.6	3517	1.968E-06	1.063E-05	1617
102.6	2178	1.219E-06	6.582E-06	1618
103.6	4162	2.329E-06	1.258E-05	1620

104.5	3159	9.629E-07	8.088E-06	1622
105.5	5828	1.777E-06	1.492E-05	1623
106.5	5171	1.576E-06	1.324E-05	1625
107.5	5324	1.623E-06	1.363E-05	1627
108.5	5696	1.736E-06	1.458E-05	1628
109.5	9613	2.930E-06	2.461E-05	1630
110.4	3772	1.150E-06	9.659E-06	1632
111.4	5245	1.599E-06	1.343E-05	1633
112.4	5444	1.659E-06	1.394E-05	1635
113.4	4525	1.379E-06	1.158E-05	1637
S 114.4	2356	7.184E-07	6.034E-06	1638
115.3	2348	7.158E-07	6.013E-06	1640
116.3	1454	4.437E-07	3.723E-06	1641
117.3	1425	4.346E-07	3.651E-06	1643
118.2	252	7.693E-08	6.462E-07	1644
119.2	167	5.095E-08	4.280E-07	1646
120.2	30	9.171E-09	7.703E-08	1647
121.2	0	0.	0.	1649
122.1	0	0.	0.	1650

CROSSWIND INTEGRATED= 5.687E-04 SEC/SQ.M 4.777E-03 1/M

104.5	1384	7.748E-07	4.164E-06	1622
105.5	3964	2.218E-06	1.198E-05	1623
106.5	4906	2.746E-06	1.483E-05	1625
107.5	3120	1.746E-06	9.430E-06	1627
108.5	3666	2.052E-06	1.108E-05	1628
109.5	4311	2.413E-06	1.303E-05	1630
110.4	1176	6.585E-07	3.556E-06	1632
111.4	680	3.809E-07	2.057E-06	1633
112.4	520	2.911E-07	1.572E-06	1635
113.4	113	6.371E-08	3.440E-07	1637
S 114.4	104	5.842E-08	3.155E-07	1638
115.3	123	6.900E-08	3.726E-07	1640
116.3	0	2.776E-10	1.499E-09	1641
117.3	2	1.454E-09	7.852E-09	1643
118.2	12	7.138E-09	3.854E-08	1644
119.2	0	0.	0.	1646
120.2	0	0.	0.	1647
121.2	0	0.	0.	1649
122.1	0	1.586E-10	8.565E-10	1650
123.1	5	3.305E-09	1.784E-08	1652

CROSSWIND INTEGRATED= 5.434E-04 SEC/SQ.M 2.934E-03 1/M

TEST U62 JUNE 7, 1968 0100 TO 0130 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
2200M ARC SAMPLER HT 1.5M U= 8.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
96.0	1	3.423E-10	2.875E-09	2200
98.0	4	1.369E-09	1.150E-08	2200
100.0	57	1.757E-08	1.476E-07	2200
102.0	510	1.555E-07	1.306E-06	2200
104.0	2029	6.185E-07	5.195E-06	2200
106.0	4086	1.246E-06	1.046E-05	2200
E 108.0	5613	1.711E-06	1.437E-05	2200
110.0	5646	1.721E-06	1.446E-05	2200
112.0	3882	1.183E-06	9.939E-06	2200
114.0	3071	9.362E-07	7.864E-06	2200
116.0	1339	4.083E-07	3.430E-06	2200
118.0	391	1.192E-07	1.001E-06	2200
120.0	148	4.541E-08	3.814E-07	2200
122.0	6	1.939E-09	1.629E-08	2200
124.0	0	2.287E-10	1.917E-09	2200
126.0	0	0.	0.	2200

CROSSWIND INTEGRATED= 6.271E-04 SEC/SQ.M 5.267E-03 1/M

TEST U62 JUNE 7, 1968 0100 TO 0120 PST  
FLUOROCESCEIN RELEASE FROM ELEVATION OF 2M  
2200M ARC SAMPLER HT 1.5M U= 5.4 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
96.0	0	1.928E-10	1.041E-09	2200
98.0	2	1.297E-09	7.002E-09	2200
100.0	52	2.953E-08	1.594E-07	2200
102.0	669	3.749E-07	2.025E-06	2200
104.0	2826	1.582E-06	8.542E-06	2200
106.0	4648	2.601E-06	1.405E-05	2200
E 108.0	3550	1.987E-06	1.073E-05	2200
110.0	1972	1.104E-06	5.959E-06	2200
112.0	867	4.853E-07	2.621E-06	2200
114.0	227	1.275E-07	6.884E-07	2200
116.0	6	3.557E-09	1.921E-08	2200
118.0	2	1.560E-09	8.422E-09	2200
F 120.0	2	1.297E-09	7.002E-09	2200
122.0	1	1.034E-09	5.583E-09	2200
124.0	0	4.731E-10	2.555E-09	2200
B 126.0	0	1.051E-10	5.678E-10	2200

CROSSWIND INTEGRATED= 6.374E-04 SEC/SQ.M 3.442E-03 1/M

TEST U62 JUNE 7, 1968 0100 TO 0130 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
3200M ARC SAMPLER HT 1.5M U= 8.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
99.8	0	0.	0.	3200
100.8	17	5.454E-09	4.581E-08	3217
101.8	52	1.604E-08	1.347E-07	3218
102.8	217	6.641E-08	5.576E-07	3220
103.8	394	1.203E-07	1.011E-06	3222
104.8	1330	4.055E-07	3.406E-06	3224
105.8	2253	6.869E-07	5.770E-06	3225
106.8	3212	9.791E-07	8.225E-06	3227
107.8	2818	8.591E-07	7.217E-06	3229
108.8	2830	8.627E-07	7.246E-06	3230
109.7	2319	7.071E-07	5.939E-06	3232
110.7	3240	9.878E-07	8.297E-06	3233
111.7	2956	9.018E-07	7.575E-06	3235
112.7	4022	1.226E-06	1.030E-05	3237
113.7	2892	8.816E-07	7.405E-06	3238
114.6	1270	3.872E-07	3.253E-06	3240
115.6	650	1.983E-07	1.665E-06	3241
116.6	482	1.469E-07	1.234E-06	3243
117.6	87	2.663E-08	2.237E-07	3245
118.6	38	1.187E-08	9.971E-08	3246
119.5	2	6.416E-10	5.390E-09	3248
120.5	13	4.171E-09	3.503E-08	3249
121.5	4	1.283E-09	1.078E-08	3251
122.4	0	0.	0.	3252

CROSSWIND INTEGRATED= 5.269E-04 SEC/SQ.M 4.426E-03 1/M

TEST U62 JUNE 7, 1968 0100 TO 0120 PST  
FLUOROCESCEIN RELEASE FROM ELEVATION OF 2M  
3200M ARC SAMPLER HT 1.5M U= 5.4 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
97.8	0	0.	0.	3200
98.8	0	0.	0.	3213
99.8	0	1.793E-11	9.684E-11	3215
100.8	21	1.144E-08	6.391E-08	3217
101.8	113	6.366E-08	3.438E-07	3218
102.8	350	1.964E-07	1.060E-06	3220
103.8	500	2.801E-07	1.512E-06	3222
104.8	1658	9.280E-07	5.011E-06	3224
105.8	2555	1.430E-06	7.723E-06	3225
106.8	3497	1.957E-06	1.057E-05	3227
107.8	2757	1.543E-06	8.333E-06	3229
108.8	1950	1.091E-06	5.893E-06	3230
109.7	1411	7.900E-07	4.266E-06	3232
110.7	1120	6.268E-07	3.385E-06	3233
111.7	799	4.474E-07	2.416E-06	3235
112.7	447	2.502E-07	1.351E-06	3237
113.7	190	1.067E-07	5.762E-07	3238
114.6	7	4.304E-09	2.324E-08	3240
115.6	18	1.058E-08	5.714E-08	3241
E 116.6	2	1.375E-09	7.424E-09	3243
E 117.6	2	1.435E-09	7.747E-09	3245
E 118.6	0	0.	0.	3246

CROSSWIND INTEGRATED= 5.432E-04 SEC/SQ.M 2.933E-03 1/M



TEST U62 JUNE 7, 1968 0100 TO 0130 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
5000M ARC SAMPLER HT 1.5M U= 8.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
100.0	0	0.	0.	4690
102.0	4	1.369E-09	1.150E-08	4710
104.0	53	1.620E-08	1.361E-07	4770
106.0	589	1.796E-07	1.508E-06	4810
108.0	1266	3.861E-07	3.243E-06	4870
110.0	2025	6.174E-07	5.186E-06	4920
112.0	1877	5.723E-07	4.807E-06	4990
114.0	928	2.829E-07	2.377E-06	5080
116.0	130	3.970E-08	3.335E-07	5020
118.0	12	3.765E-09	3.162E-08	5100
120.0	12	3.879E-09	3.258E-08	5130
122.0	2	6.845E-10	5.750E-09	4830
124.0	0	0.	0.	4660

CROSSWIND INTEGRATED= 3.630E-04 SEC/SQ.M  
3.049E-03 1/M

TEST U62 JUNE 7, 1968 0100 TO 0120 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 2M  
5000M ARC SAMPLER HT 1.5M U= 5.4 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
100.0	0	0.	0.	4690
102.0	4	2.629E-09	1.419E-08	4710
104.0	40	2.276E-08	1.229E-07	4770
106.0	551	3.087E-07	1.667E-06	4810
108.0	926	5.165E-07	2.800E-06	4870
110.0	1163	6.510E-07	3.515E-06	4920
112.0	426	2.388E-07	1.290E-06	4990
114.0	111	6.256E-08	3.378E-07	5080
116.0	0	5.520E-10	2.981E-09	5020
118.0	0	2.453E-10	1.325E-09	5100
120.0	0	4.206E-10	2.271E-09	5130
122.0	0	5.257E-11	2.839E-10	4630
124.0	0	1.928E-10	1.041E-09	4660

CROSSWIND INTEGRATED= 3.090E-04 SEC/SQ.M  
1.668E-03 1/M

TEST U62 JUNE 7, 1968 0100 TO 0130 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
7000M ARC SAMPLER HT 1.5M U= 8.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
102.0	0	0.	0.	6610
104.0	40	1.221E-08	1.025E-07	6650
4 106.0	84	2.590E-08	2.175E-07	6720
4 108.0	300	9.150E-08	7.686E-07	6800
4 110.0	871	2.657E-07	2.232E-06	7000
112.0	903	2.754E-07	2.313E-06	7300
114.0	352	1.074E-07	9.018E-07	7210
116.0	17	5.362E-09	4.504E-08	7220
118.0	2	6.845E-10	5.750E-09	7190
120.0	0	2.282E-10	1.917E-09	7150
122.0	7	2.168E-09	1.821E-08	7120
124.0	0	0.	0.	7100

CROSSWIND INTEGRATED= 1.949E-04 SEC/SQ.M  
1.637E-03 1/M

TEST U62 JUNE 7, 1968 0100 TO 0120 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 2M  
7000M ARC SAMPLER HT 1.5M U= 5.4 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
96.0	1	8.061E-10	4.353E-09	6510
98.0	0	0.	0.	6520
100.0	0	0.	0.	6560
102.0	0	0.	0.	6610
104.0	2	1.542E-09	8.327E-09	6650
4 106.0	91	5.133E-08	2.772E-07	6720
4 108.0	288	1.612E-07	8.705E-07	6800
4 110.0	38	2.136E-08	1.153E-07	7220
112.0	294	1.649E-07	8.903E-07	7300
114.0	77	4.309E-08	2.327E-07	7210
116.0	0	3.505E-10	1.893E-09	7000
118.0	0	0.	0.	7190

CROSSWIND INTEGRATED= 8.728E-05 SEC/SQ.M  
4.713E-04 1/M

TEST U62 JUNE 7, 1968 0100 TO 0130 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
12800M ARC SAMPLER HT 1.5M U= 8.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
104.0	0	0.	0.	12800
105.0	7	2.282E-09	1.917E-08	12800
S 106.0	2	6.845E-10	5.750E-09	12800
107.0	1	4.563E-10	3.833E-09	12800
S 108.0	20	6.389E-09	5.367E-08	12800
W 109.0	150	4.586E-08	3.852E-07	12800
110.0	451	1.376E-07	1.156E-06	12800
Q 111.0	963	2.937E-07	2.467E-06	12800
112.0	695	2.121E-07	1.782E-06	12800
113.0	437	1.334E-07	1.120E-06	12800
114.0	175	5.351E-08	4.495E-07	12800
115.0	0	0.	0.	12800
116.0	7	2.396E-09	2.012E-08	12800
Q 117.0	0	0.	0.	12800
Q 118.0	0	0.	0.	12800
119.0	0	0.	0.	12800

CROSSWIND INTEGRATED= 1.984E-04 SEC/SQ.M  
1.667E-03 1/M

TEST U62 JUNE 7, 1968 0100 TO 0120 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 2M  
12800M ARC SAMPLER HT 1.5M U= 5.4 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
T 104.0	0	0.	0.	12800
C 105.0	0	0.	0.	12800
T 106.0	0	3.680E-11	1.987E-10	12800
107.0	0	3.855E-10	2.082E-09	12800
T 108.0	7	4.416E-09	2.385E-08	12800
C 109.0	71	4.016E-08	2.169E-07	12800
110.0	137	7.696E-08	4.156E-07	12800
C 111.0	341	1.910E-07	1.032E-06	12800
112.0	426	2.389E-07	1.290E-06	12800
113.0	223	1.248E-07	6.739E-07	12800
4 114.0	170	9.536E-08	5.150E-07	12800
2 115.0	0	0.	0.	12800
116.0	14	8.096E-09	4.372E-08	12800
C 117.0	2	1.630E-09	8.800E-09	12800
C 118.0	0	0.	0.	12800
119.0	0	5.432E-10	2.933E-09	12800
S 120.0	0	1.577E-10	8.516E-10	12800

CROSSWIND INTEGRATED= 1.748E-04 SEC/SQ.M  
9.440E-04 1/M

SAMPLING 400M TO 1200M, NO TOWER SAMPLING.  
 ZINC SULFIDE DISPERSED FOR 30 MIN, DISPERSAL DIFFICULTIES RESTRICTED FLUORESCIN DISPERSAL TO 25 MIN.  
 2200M AND 1200M ARCS TRUNCATED ON NORTH; 1200M DATA EXTRAPOLATED SLIGHTLY.

TEST U63 JUNE 24, 1968 0100 TO 0130 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 400M ARC SAMPLER HT 1.5M U= 6.0 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	44	1.196E-08	7.176E-08	400
102.0	5803	1.577E-06	9.463E-06	400
106.0	39476	1.073E-05	6.436E-05	400
110.0	94518	2.568E-05	1.541E-04	400
114.0	12995	3.531E-06	2.119E-05	400
118.0	77	2.093E-08	1.256E-07	400
122.0	42	1.159E-08	6.951E-08	400
126.0	1	3.737E-10	2.242E-09	400

CROSSWIND INTEGRATED= 1.161E-03 SEC/SQ.M 6.964E-03 1/M

TEST U63 JUNE 24, 1968 0105 TO 0130 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 2M  
 400M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
96.0	2	8.485E-10	2.545E-09	400
98.0	5	1.328E-09	3.984E-09	400
94.0	1291	4.407E-07	1.322E-06	400
98.0	62566	2.135E-05	6.406E-05	400
S 102.0	139040	4.745E-05	1.424E-04	400
106.0	677831	2.313E-04	6.940E-04	400
110.0	399745	1.364E-04	4.093E-04	400
114.0	13097	4.470E-06	1.341E-05	400
118.0	453	1.549E-07	4.646E-07	400
122.0	104	3.556E-08	1.067E-07	400
126.0	107	3.678E-08	1.103E-07	400
130.0	104	3.567E-08	1.070E-07	400
134.0	55	1.907E-08	5.722E-08	400
B 138.0	35	1.206E-08	3.619E-08	400

CROSSWIND INTEGRATED= 1.234E-02 SEC/SQ.M 3.701E-02 1/M

TEST U63 JUNE 24, 1968 0100 TO 0130 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 800M ARC SAMPLER HT 1.5M U= 6.0 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
97.1	63	1.734E-08	1.040E-07	806
99.1	0	0.	0.	809
101.1	556	1.512E-07	9.074E-07	813
103.0	9240	2.511E-06	1.507E-05	816
105.0	38785	1.054E-05	6.324E-05	820
106.9	93833	2.550E-05	1.530E-04	823
108.8	162737	4.422E-05	2.653E-04	826
110.7	117806	3.201E-05	1.921E-04	829
112.6	93932	2.553E-05	1.532E-04	833
114.5	9861	2.680E-06	1.608E-05	836
116.4	889	2.418E-07	1.451E-06	839
118.3	49	1.349E-08	8.091E-08	842

CROSSWIND INTEGRATED= 3.942E-03 SEC/SQ.M 2.365E-02 1/M

TEST U63 JUNE 24, 1968 0105 TO 0130 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 2M  
 800M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
97.1	10	3.667E-09	1.100E-08	806
99.1	2240	7.646E-07	2.294E-06	809
101.0	20603	7.032E-06	2.110E-05	813
103.0	82054	2.801E-05	8.402E-05	816
105.0	149007	5.086E-05	1.526E-04	820
106.9	331147	1.130E-04	3.391E-04	823
108.8	352745	1.204E-04	3.612E-04	826
110.7	107972	3.685E-05	1.106E-04	829
112.6	19539	6.669E-06	2.001E-05	833
114.5	886	3.025E-07	9.076E-07	836
116.4	24	8.361E-09	2.508E-08	839
118.3	9	3.301E-09	9.902E-09	842
120.2	0	2.445E-10	7.335E-10	845

CROSSWIND INTEGRATED= 1.002E-02 SEC/SQ.M 3.006E-02 1/M

TEST U63 JUNE 24, 1968 0100 TO 0130 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 1200M ARC SAMPLER HT 1.5M U= 6.0 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
96.0	1	4.169E-10	2.501E-09	1200
98.0	1	4.169E-10	2.501E-09	1200
100.0	7	2.084E-09	1.251E-08	1200
102.0	235	6.399E-08	3.840E-07	1200
104.0	6440	1.750E-06	1.050E-05	1200
106.0	37592	1.022E-05	6.129E-05	1200
108.0	102358	2.781E-05	1.665E-04	1200
110.0	102472	2.785E-05	1.671E-04	1200
112.0	54742	1.488E-05	8.925E-05	1200
114.0	7111	1.933E-06	1.160E-05	1200
W 116.0	257	7.004E-08	4.202E-07	1200
W 118.0	0	0.	0.	1200

CROSSWIND INTEGRATED= 3.543E-03 SEC/SQ.M 2.126E-02 1/M

TEST U63 JUNE 24, 1968 0105 TO 0130 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 2M  
 1200M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
94.0	1	5.761E-10	1.728E-09	1200
96.0	0	0.	0.	1200
98.0	47	1.632E-06	4.895E-06	1200
100.0	141	4.841E-08	1.452E-07	1200
102.0	3162	1.079E-06	3.238E-06	1200
104.0	31502	1.075E-05	3.226E-05	1200
106.0	71490	2.440E-05	7.320E-05	1200
108.0	106631	3.639E-05	1.092E-04	1200
110.0	61796	2.109E-05	6.327E-05	1200
112.0	8352	2.851E-06	8.552E-06	1200
114.0	490	1.675E-07	5.026E-07	1200
W 116.0	5	2.014E-09	6.043E-09	1200
W 118.0	2	7.613E-10	2.284E-09	1200
120.0	0	2.058E-10	6.173E-10	1200

CROSSWIND INTEGRATED= 4.055E-03 SEC/SQ.M 1.216E-02 1/M

TEST U63 JUNE 24, 1968 0100 TO 0130 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
1600M ARC SAMPLER HT 1.5M U= 6.0 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
101.6	21	5.814E-09	3.488E-08	1617
102.6	128	3.488E-08	2.093E-07	1618
103.6	965	2.624E-07	1.574E-06	1620
104.5	3492	9.491E-07	5.695E-06	1622
105.5	12125	3.295E-06	1.977E-05	1623
106.5	38080	1.035E-05	6.209E-05	1625
107.5	59690	1.622E-05	9.732E-05	1627
108.5	80462	2.186E-05	1.312E-04	1628
109.5	51126	1.389E-05	8.336E-05	1630
110.4	78801	2.141E-05	1.285E-04	1632
111.4	50516	1.373E-05	8.236E-05	1633
112.4	23989	6.519E-06	3.911E-05	1635
113.4	7563	2.055E-06	1.233E-05	1637
114.4	2080	5.654E-07	3.392E-06	1638
115.3	604	1.642E-07	9.855E-07	1640
116.3	61	1.672E-08	1.003E-07	1641

CROSSWIND INTEGRATED= 3.114E-03 SEC/SQ.M  
1.868E-02 1/M

TEST U63 JUNE 24, 1968 0100 TO 0130 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
2200M ARC SAMPLER HT 1.5M U= 6.0 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
B 110.0	55989	1.521E-05	9.129E-05	2200
112.0	11696	3.178E-06	1.907E-05	2200
114.0	1286	3.497E-07	2.098E-06	2200
116.0	40	1.091E-08	6.548E-08	2200

CROSSWIND INTEGRATED= 1.440E-03 SEC/SQ.M  
8.641E-03 1/M

TEST U63 JUNE 24, 1968 0100 TO 0130 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
3200M ARC SAMPLER HT 1.5M U= 6.0 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
93.8	0	0.	0.	3205
94.8	27	7.387E-09	4.432E-08	3206
95.8	54	1.477E-08	8.864E-08	3208
96.8	179	4.875E-08	2.925E-07	3210
97.8	133	3.620E-08	2.172E-07	3212
98.8	386	1.049E-07	6.294E-07	3213
99.8	660	1.795E-07	1.077E-06	3215
100.8	917	2.493E-07	1.496E-06	3217
101.8	1476	4.011E-07	2.407E-06	3218
102.8	1635	4.443E-07	2.666E-06	3220
103.8	1966	5.345E-07	3.207E-06	3222
104.8	5684	1.545E-06	9.268E-06	3224
105.8	6308	1.714E-06	1.029E-05	3225
106.8	14882	4.044E-06	2.426E-05	3227
107.8	24947	6.779E-06	4.067E-05	3229
C 108.8	32159	8.739E-06	5.243E-05	3230
C 109.7	30863	8.387E-06	5.032E-05	3232
C 110.7	23957	6.510E-06	3.906E-05	3233
111.7	8440	2.294E-06	1.376E-05	3235
112.7	2339	6.357E-07	3.814E-06	3237
113.7	591	1.607E-07	9.640E-07	3238
114.6	70	1.921E-08	1.152E-07	3240
115.6	23	6.279E-09	3.767E-08	3241
116.6	0	0.	0.	3243

CROSSWIND INTEGRATED= 2.367E-03 SEC/SQ.M  
1.420E-02 1/M

TEST U62 JUNE 24, 1968 0105 TO 0130 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 2M  
1600M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.6	70	2.419E-08	7.256E-08	1611
99.6	87	2.983E-08	8.948E-08	1613
100.6	297	1.016E-07	3.047E-07	1615
101.6	512	1.749E-07	5.248E-07	1617
102.6	1979	6.586E-07	1.976E-06	1618
103.6	5052	1.724E-06	5.173E-06	1620
104.5	13881	4.738E-06	1.421E-05	1622
105.5	34346	1.172E-05	3.517E-05	1623
106.5	62020	2.117E-05	6.350E-05	1625
107.5	73949	2.524E-05	7.572E-05	1627
108.5	71563	1.244E-05	7.327E-05	1628
109.5	52478	1.791E-05	5.373E-05	1630
110.4	22995	7.814E-06	2.344E-05	1632
111.4	9814	3.350E-06	1.005E-05	1633
112.4	1481	5.055E-07	1.516E-06	1635
E 113.4	935	3.192E-07	9.577E-07	1637
F 114.4	465	1.588E-07	4.764E-07	1638
I 115.3	205	7.014E-08	2.104E-07	1640
J 116.3	66	2.257E-08	6.772E-08	1641
117.3	0	0.	0.	1643

CROSSWIND INTEGRATED= 3.366E-03 SEC/SQ.M  
1.010E-02 1/M

TEST U63 JUNE 24, 1968 0105 TO 0130 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 2M  
2200M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
B 110.0	12333	4.209E-06	1.263E-05	2200
112.0	886	3.026E-07	9.078E-07	2200
114.0	31	1.060E-08	3.181E-08	2200
I 116.0	0	1.657E-10	4.970E-10	2200
J 118.0	0	2.031E-10	6.092E-10	2200

CROSSWIND INTEGRATED= 3.473E-04 SEC/SQ.M  
1.042E-03 1/M

TEST U63 JUNE 24, 1968 0105 TO 0130 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 2M  
3200M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
E 91.8	52	1.779E-08	5.337E-08	3201
92.8	93	3.201E-08	9.603E-08	3203
93.8	119	4.076E-08	1.223E-07	3205
94.8	232	7.941E-08	2.382E-07	3206
95.8	403	1.377E-07	4.132E-07	3208
96.8	455	1.554E-07	4.662E-07	3210
97.8	387	1.324E-07	3.972E-07	3212
98.8	782	2.672E-07	8.015E-07	3213
99.8	1096	3.744E-07	1.123E-06	3215
100.8	1612	5.504E-07	1.651E-06	3217
101.8	2151	7.342E-07	2.203E-06	3218
102.8	2891	9.869E-07	2.961E-06	3220
103.8	3766	1.285E-06	3.856E-06	3222
104.8	6471	2.209E-06	6.626E-06	3224
105.8	8089	2.761E-06	8.283E-06	3225
106.8	14562	4.970E-06	1.491E-05	3227
107.8	17475	5.964E-06	1.789E-05	3229
108.8	14239	4.860E-06	1.458E-05	3230
109.7	9060	3.092E-06	9.277E-06	3232
C 110.7	3699	1.262E-06	3.787E-06	3233
111.7	1164	3.973E-07	1.192E-06	3235
Z 112.7	165	5.662E-08	1.699E-07	3237
113.7	29	1.022E-08	3.067E-08	3238
114.6	0	3.646E-11	1.094E-10	3240

CROSSWIND INTEGRATED= 1.688E-03 SEC/SQ.M  
5.065E-03 1/M

TEST U63 JUNE 24, 1968 0100 TO 0130 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
5000M ARC SAMPLER HT 1.5M U= 6.0 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
P 94.0	0	0.	0.	4620
96.0	35	9.663E-09	5.798E-08	4620
98.0	216	5.878E-08	3.527E-07	4660
100.0	1077	2.927E-07	1.756E-06	4690
102.0	1572	4.273E-07	2.564E-06	4710
E 104.0	2571	6.988E-07	4.193E-06	4770
106.0	4576	1.244E-06	7.462E-06	4810
108.0	4476	1.216E-06	7.299E-06	4870
110.0	4000	1.087E-06	6.523E-06	4920
112.0	1002	2.724E-07	1.634E-06	4990
114.0	147	4.013E-08	2.408E-07	5080
116.0	3	9.095E-10	5.457E-09	5020
118.0	0	0.	0.	5100

CROSSWIND INTEGRATED= 9.027E-04 SEC/SQ.M  
5.416E-03 1/M

TEST U63 JUNE 24, 1968 0100 TO 0130 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
7000M ARC SAMPLER HT 1.5M U= 6.0 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
94.0	0	0.	0.	6500
96.0	23	6.480E-09	3.888E-08	6510
98.0	434	1.180E-07	7.080E-07	6520
100.0	1077	2.927E-07	1.756E-06	6560
102.0	373	1.015E-07	6.091E-07	6610
104.0	2555	6.944E-07	4.166E-06	6650
106.0	1093	2.972E-07	1.783E-06	6720
108.0	2988	8.122E-07	4.473E-06	6800
110.0	1879	5.108E-07	3.065E-06	7000
112.0	275	7.481E-08	4.488E-07	7300
114.0	68	1.853E-08	1.112E-07	7210
116.0	8	2.274E-09	1.364E-08	7220
118.0	3	1.023E-09	6.139E-09	7190
120.0	0	0.	0.	7150

CROSSWIND INTEGRATED= 6.918E-04 SEC/SQ.M  
4.151E-03 1/M

TEST U63 JUNE 24, 1968 0105 TO 0130 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 2M  
5000M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
90.0	0	0.	0.	4610
92.0	10	3.441E-09	1.032E-08	4520
E 94.0	45	1.563E-08	4.688E-08	4620
96.0	255	8.723E-08	2.617E-07	4620
98.0	432	1.477E-07	4.432E-07	4660
100.0	1024	3.497E-07	1.049E-06	4690
102.0	1360	4.642E-07	1.393E-06	4710
E 104.0	2103	7.178E-07	2.153E-06	4770
106.0	2958	1.010E-06	3.049E-06	4810
108.0	3286	1.122E-06	3.365E-06	4870
110.0	1162	3.968E-07	1.191E-06	4920
112.0	196	6.692E-08	2.008E-07	4990
114.0	14	4.831E-09	1.449E-08	5080
116.0	2	7.802E-10	2.341E-09	5020
118.0	0	1.710E-10	5.130E-10	5100
120.0	0	3.313E-10	9.939E-10	5130

CROSSWIND INTEGRATED= 7.354E-04 SEC/SQ.M  
2.206E-03 1/M

TEST U63 JUNE 24, 1968 0105 TO 0130 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 2M  
7000M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
96.0	0	1.336E-10	4.008E-10	6500
98.0	0	0.	0.	6480
90.0	0	0.	0.	6500
92.0	3	1.160E-09	3.479E-09	6490
94.0	37	1.264E-08	3.791E-08	6500
96.0	192	6.575E-08	1.973E-07	6510
98.0	728	2.486E-07	7.459E-07	6520
100.0	1024	3.496E-07	1.049E-06	6560
102.0	1063	3.631E-07	1.089E-06	6610
104.0	1642	5.606E-07	1.682E-06	6650
106.0	1438	4.910E-07	1.473E-06	6720
108.0	1201	4.102E-07	1.231E-06	6800
110.0	787	2.688E-07	8.064E-07	7000
112.0	93	3.181E-08	9.543E-08	7300
114.0	4	1.544E-09	4.633E-09	7210
1 116.0	1	5.504E-10	1.651E-09	7220
2 118.0	1	3.901E-10	1.170E-09	7190

CROSSWIND INTEGRATED= 6.556E-04 SEC/SQ.M  
1.967E-03 1/M

TEST U63 JUNE 24, 1968 0100 TO 0130 PST  
 ZINC SULFIDE RELEASE FROM ELFVATION OF 26M  
 12800M ARC SAMPLER HT 1.5M U= 6.0 M/SEC AT 26M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
 DEGREES GM-SEC/CM SEC/CM 1/SQ.M METERS  
 X10E+6

E 81.0	0	0.	0.	12800
E 82.0	0	1.137E-10	6.821E-10	12800
E 83.0	1	3.411E-10	2.046E-09	12800
E 84.0	2	6.821E-10	4.093E-09	12800
E 85.0	4	1.251E-09	7.503E-09	12800
E 86.0	7	2.160E-09	1.296E-08	12800
E 87.0	12	3.411E-09	2.046E-08	12800
E 88.0	21	5.798E-09	3.479E-08	12800
E 89.0	33	9.095E-09	5.457E-08	12800
E 90.0	51	1.398E-08	8.390E-08	12800
E 91.0	83	2.262E-08	1.357E-07	12800
E 92.0	51	1.410E-08	8.458E-08	12800
E 93.0	160	4.366E-08	2.619E-07	12800
E 94.0	140	3.809E-08	2.285E-07	12800
E 95.0	214	5.821E-08	3.492E-07	12800
E 96.0	298	8.117E-08	4.870E-07	12800
E 97.0	300	8.163E-08	4.896E-07	12800
E 98.0	306	8.333E-08	5.000E-07	12800
E 99.0	239	6.503E-08	3.902E-07	12800
E 100.0	563	1.530E-07	9.181E-07	12800
E 101.0	553	1.503E-07	9.018E-07	12800
E 102.0	733	1.994E-07	1.196E-06	12800
E 103.0	713	1.940E-07	1.164E-06	12800
E 104.0	794	2.159E-07	1.295E-06	12800
E 105.0	827	2.249E-07	1.349E-06	12800
E 106.0	932	2.533E-07	1.520E-06	12800
E 107.0	3176	8.632E-07	5.179E-06	12800
E 108.0	3047	8.282E-07	4.969E-06	12800
E 109.0	2052	5.577E-07	3.346E-06	12800
E 110.0	1165	3.166E-07	1.900E-06	12800
E 111.0	405	1.103E-07	6.617E-07	12800
E 112.0	306	8.333E-08	5.000E-07	12800
E 113.0	158	4.320E-08	2.592E-07	12800
E 114.0	94	2.558E-08	1.535E-07	12800
E 115.0	115	3.126E-08	1.876E-07	12800
E 116.0	110	3.013E-08	1.808E-07	12800
E 117.0	51	1.387E-08	8.322E-08	12800
E 118.0	33	9.095E-09	5.457E-08	12800
E 119.0	26	7.276E-09	4.366E-08	12800
E 120.0	28	7.617E-09	4.570E-08	12800
E 121.0	22	4.025E-09	3.615E-08	12800
E 122.0	18	5.116E-09	3.070E-08	12800
E 123.0	0	0.	0.	12800
E 124.0	0	0.	0.	12800
E 125.0	7	2.160E-09	1.296E-08	12800

CROSSWIND INTEGRATED= 1.085E-03 6.509E-03  
 SEC/SQ.M 1/M

TEST U63 JUNE 24, 1968 0105 TO 0130 PST  
 FLUORESCIN RELEASE FROM ELFVATION OF 2M  
 12800M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
 DEGREES GM-SEC/CM SEC/CM 1/SQ.M METERS  
 X10E+6

E 83.0	0	0.	0.	12800
E 84.0	0	3.206E-11	9.619E-11	12800
E 85.0	1	3.847E-10	1.154E-09	12800
E 86.0	2	8.871E-10	2.661E-09	12800
E 87.0	5	1.956E-09	5.867E-09	12800
E 88.0	10	3.452E-09	1.036E-08	12800
E 89.0	16	5.696E-09	1.709E-08	12800
E 90.0	24	8.368E-09	2.510E-08	12800
E 91.0	36	1.254E-08	3.761E-08	12800
E 92.0	20	7.086E-09	2.126E-08	12800
E 93.0	57	1.959E-08	5.877E-08	12800
E 94.0	79	2.718E-08	8.153E-08	12800
E 95.0	126	4.321E-08	1.296E-07	12800
E 96.0	173	5.924E-08	1.777E-07	12800
E 97.0	208	7.100E-08	2.130E-07	12800
E 98.0	248	8.489E-08	2.547E-07	12800
E 99.0	211	7.207E-08	2.162E-07	12800
E 100.0	241	8.243E-08	2.473E-07	12800
E 101.0	346	1.183E-07	3.550E-07	12800
E 102.0	386	1.318E-07	3.954E-07	12800
E 103.0	419	1.430E-07	4.291E-07	12800
E 104.0	491	1.677E-07	5.032E-07	12800
E 105.0	668	2.350E-07	7.051E-07	12800
E 106.0	1083	3.697E-07	1.109E-06	12800
E 107.0	1300	4.438E-07	1.331E-06	12800
E 108.0	1122	3.832E-07	1.150E-06	12800
E 109.0	590	2.014E-07	6.042E-07	12800
E 110.0	195	6.672E-08	2.002E-07	12800
E 111.0	73	2.504E-08	7.512E-08	12800
E 112.0	51	1.767E-08	5.300E-08	12800
E 113.0	18	6.338E-09	1.901E-08	12800
E 114.0	18	6.445E-09	1.933E-08	12800
E 115.0	12	4.307E-09	1.292E-08	12800
E 116.0	12	4.307E-09	1.292E-08	12800
E 117.0	15	5.269E-09	1.581E-08	12800
E 118.0	14	4.948E-09	1.484E-08	12800
E 119.0	14	4.841E-09	1.452E-08	12800
E 120.0	8	2.918E-09	8.753E-09	12800
E 121.0	0	1.282E-10	3.847E-10	12800

CROSSWIND INTEGRATED= 6.351E-04 1.935E-03  
 SEC/SQ.M 1/M

SAMPLING 400M TO 7000M. NO TOWER SAMPLING. ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER.  
 ZINC SULFIDE DISPERSED FOR 30 MIN, DISPERSAL DIFFICULTIES RESTRICTED FLUORESCHEIN DISPERSAL TO 20 MIN.  
 LARGE WIND DIRECTION SHEAR BETWEEN TRACER RELEASE LEVELS. TRACER DISTRIBUTIONS SKEWED LONG TAIL TO THE NORTH.

TEST U64 JUNE 25, 1968 0347 TO 0407 PST  
 FLUORESCHEIN RELEASE FROM ELEVATION OF 2M  
 400M ARC SAMPLER HT 1.5M U= 1.6 M/SEC AT 2M

TEST U64 JUNE 25, 1968 0347 TO 0417 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 400M ARC SAMPLER HT 1.5M U= 5.3 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
H 78.0	0	0.	0.	400
H 82.0	53	1.717E-08	9.103E-08	400
H 86.0	15	5.106E-09	2.706E-08	400
H 90.0	56	1.810E-08	9.595E-08	400
E 94.0	125	4.038E-08	2.140E-07	400
F 98.0	254	8.170E-08	4.330E-07	400
E 102.0	527	1.694E-07	8.980E-07	400
E 106.0	1620	5.208E-07	2.760E-06	400
110.0	6212	1.997E-05	1.058E-05	400
U 114.0	10069	3.237E-06	1.715E-05	400
118.0	1067	3.430E-07	1.818E-06	400
122.0	434	1.397E-07	7.405E-07	400
126.0	0	0.	0.	400
CROSSWIND INTEGRATED=				1.834E-04 SEC/SQ.M
				9.723E-04 1/M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
58.0	0	3.683E-09	5.892E-09	400
62.0	0	0.	0.	400
66.0	1	8.130E-10	1.301E-09	400
70.0	1	6.696E-10	1.071E-09	400
74.0	97	4.314E-08	6.902E-08	400
H 78.0	458	2.029E-07	3.246E-07	400
H 82.0	139036	6.152E-05	9.843E-05	400
H 86.0	225938	9.997E-05	1.600E-04	400
H 90.0	386706	1.711E-04	2.738E-04	400
E 94.0	238973	1.057E-04	1.692E-04	400
E 98.0	102135	4.519E-05	7.231E-05	400
E 102.0	31771	1.406E-05	2.249E-05	400
E 106.0	4533	2.006E-06	3.209E-06	400
110.0	728	3.224E-07	5.159E-07	400
O 114.0	66	2.927E-08	4.683E-08	400
118.0	63	2.831E-08	4.530E-08	400
122.0	54	2.401E-08	3.841E-08	400
126.0	48	2.162E-08	3.459E-08	400
130.0	29	1.301E-08	2.061E-08	400
3 134.0	123	5.462E-08	8.739E-08	400
138.0	18	8.130E-09	1.301E-08	400
142.0	0	0.	0.	400
CROSSWIND INTEGRATED=				1.397E-02 SEC/SQ.M
				2.236E-02 1/M

TEST U64 JUNE 25, 1968 0347 TO 0407 PST  
 FLUORESCHEIN RELEASE FROM ELEVATION OF 2M  
 800M ARC SAMPLER HT 1.5M U= 1.6 M/SEC AT 2M

TEST U64 JUNE 25, 1968 0347 TO 0417 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 800M ARC SAMPLER HT 1.5M U= 5.3 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
85.0	0	0.	0.	800
88.0	12	4.178E-09	2.214E-08	800
91.0	36	1.160E-08	6.150E-08	800
94.0	31	1.021E-08	5.412E-08	800
97.0	137	4.410E-08	2.337E-07	800
97.1	113	3.636E-08	1.927E-07	806
99.1	343	1.185E-07	5.855E-07	809
101.1	1418	4.559E-07	2.416E-06	813
103.0	4019	1.292E-06	6.848E-06	816
105.0	4711	1.514E-06	8.026E-06	820
106.9	6407	2.060E-06	1.092E-05	823
108.9	12828	4.124E-06	2.186E-05	826
110.7	5907	1.899E-06	1.006E-05	829
112.6	13790	4.433E-06	2.349E-05	833
114.5	16552	5.321E-06	2.820E-05	836
116.4	13594	4.370E-06	2.316E-05	839
118.3	8504	2.734E-06	1.449E-05	842
120.2	4850	1.559E-06	8.263E-06	845
122.1	2523	8.110E-07	4.298E-06	848
124.0	0	0.	0.	851
CROSSWIND INTEGRATED=				8.522E-04 SEC/SQ.M
				4.517E-03 1/M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
70.0	2	1.196E-09	1.913E-09	800
73.0	2	9.087E-10	1.454E-09	800
76.0	14	6.217E-09	9.948E-09	800
79.0	58	2.583E-08	4.132E-08	800
82.0	24106	1.067E-05	1.707E-05	800
85.0	78202	3.460E-05	5.536E-05	800
88.0	112963	4.998E-05	7.997E-05	800
91.0	121653	5.383E-05	8.613E-05	800
94.0	75595	3.345E-05	5.352E-05	800
97.0	86024	3.806E-05	6.090E-05	800
97.1	125226	5.541E-05	8.866E-05	806
99.1	97869	4.331E-05	6.929E-05	809
101.0	116587	5.159E-05	8.254E-05	813
103.0	89230	3.948E-05	6.317E-05	816
105.0	83471	3.693E-05	5.909E-05	820
106.9	62593	2.770E-05	4.431E-05	823
108.8	27790	1.230E-05	1.967E-05	826
110.7	2396	1.060E-06	1.696E-06	829
112.6	540	2.393E-07	3.829E-07	833
114.5	71	3.170E-08	5.071E-08	836
116.4	14	6.339E-09	1.014E-08	839
118.3	3	1.585E-09	2.536E-09	842
120.2	0	0.	0.	845
122.1	0	0.	0.	848
124.0	60	2.694E-08	4.311E-08	851
125.8	8	3.962E-09	6.339E-09	854
127.7	13	5.864E-09	9.382E-09	857
129.5	0	0.	0.	859
131.4	50	2.219E-08	3.550E-08	862
CROSSWIND INTEGRATED=				1.520E-02 SEC/SQ.M
				2.431E-02 1/M

TEST U64 JUNE 25, 1968 0347 TO 0407 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 2M  
 1200M ARC SAMPLER HT 1.5M U= 1.6 M/SEC AT 2M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
 DEGREES GM-SEC/CM SEC/CM 1/SQ.M METERS  
 X10E+6

	62.0	1	4.535E-10	7.256E-10	1200
	64.0	11	5.282E-09	8.451E-09	1200
	66.0	22	9.816E-09	1.571E-08	1200
	68.0	19	8.483E-09	1.357E-08	1200
	70.0	25	1.115E-08	1.784E-08	1200
	72.0	34	1.542E-08	2.467E-08	1200
	74.0	58	2.582E-08	4.131E-08	1200
	76.0	69	3.062E-08	4.900E-08	1200
	78.0	96	4.263E-08	6.820E-08	1200
	80.0	108	4.823E-08	7.717E-08	1200
	82.0	256	1.133E-07	1.813E-07	1200
E	84.0	4359	1.929E-06	3.086E-06	1200
E	86.0	31502	1.394E-05	2.230E-05	1200
	88.0	58160	2.573E-05	4.116E-05	1200
	90.0	54525	2.413E-05	3.860E-05	1200
E	92.0	63007	2.788E-05	4.461E-05	1200
L	94.0	65431	2.895E-05	4.632E-05	1200
	96.0	63007	2.788E-05	4.461E-05	1200
	98.0	57433	2.541E-05	4.066E-05	1200
	100.0	53798	2.380E-05	3.809E-05	1200
	102.0	48709	2.155E-05	3.448E-05	1200
4	104.0	32714	1.448E-05	2.316E-05	1200
	106.0	26170	1.158E-05	1.853E-05	1200
B	108.0	13810	6.111E-06	9.778E-06	1200
	110.0	4554	2.015E-06	3.224E-06	1200
W	112.0	1326	5.868E-07	9.389E-07	1200
W	114.0	89	3.947E-08	6.308E-08	1200
W	116.0	21	1.254E-09	2.006E-09	1200
	118.0	1	8.536E-10	1.366E-09	1200
4	120.0	1	6.936E-10	1.110E-09	1200
	122.0	1	7.736E-10	1.238E-09	1200
4	124.0	2	1.174E-09	1.878E-09	1200
	126.0	3	1.416E-09	2.262E-09	1200
C	128.0	3	1.494E-09	2.390E-09	1200

CROSSWIND INTEGRATED= 1.074E-02 1.716E-02  
 SEC/SQ.M 1/M

TEST U64 JUNE 25, 1968 0347 TO 0417 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 1200M ARC SAMPLER HT 1.5M U= 5.3 M/SEC AT 26M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
 OFGREES GM-SEC/CM SEC/CM 1/SQ.M METERS  
 X10E+6

X	84.0	2	7.767E-10	4.117E-09	1200
X	86.0	0	0.	0.	1200
	88.0	12	3.884E-09	2.058E-08	1200
	90.0	8	2.589E-09	1.372E-08	1200
E	92.0	12	4.142E-09	2.195E-08	1200
F	94.0	26	8.544E-09	4.528E-08	1200
	96.0	83	2.693E-08	1.427E-07	1200
	98.0	325	1.046E-07	5.544E-07	1200
	100.0	911	2.931E-07	1.553E-06	1200
	102.0	1970	6.335E-07	3.358E-06	1200
4	104.0	3424	1.101E-06	5.834E-06	1200
	106.0	6154	1.978E-06	1.098E-05	1200
B	108.0	8432	2.068E-06	1.096E-05	1200
	110.0	13756	4.423E-06	2.344E-05	1200
7	112.0	14790	4.754E-06	2.520E-05	1200
7	114.0	20733	6.665E-06	3.532E-05	1200
4	116.0	9492	3.051E-06	1.617E-05	1200
	118.0	13515	4.344E-06	2.303E-05	1200
4	120.0	9056	2.911E-06	1.543E-05	1200
	122.0	3419	1.099E-06	5.626E-06	1200
4	124.0	153	4.945E-08	2.621E-07	1200
	126.0	16	5.437E-09	2.882E-08	1200
0	128.0	1	5.178E-10	2.744E-09	1200
	130.0	0	2.569E-10	1.372E-09	1200
	132.0	0	0.	0.	1200

CROSSWIND INTEGRATED= 1.404E-03 7.443E-03  
 SEC/SQ.M 1/M

TEST U64 JUNE 25, 1968 0347 TO 0407 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 2M  
 1600M ARC SAMPLER HT 1.5M U= 1.6 M/SEC AT 2M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
 OFGREES GM-SEC/CM SEC/CM 1/SQ.M METERS  
 X10E+6

TEST U64 JUNE 25, 1968 0347 TO 0417 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 1600M ARC SAMPLER HT 1.5M U= 5.3 M/SEC AT 26M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
 OFGREES GM-SEC/CM SEC/CM 1/SQ.M METERS  
 X10E+6

	74.0	0	0.	0.	1600
	76.0	3	1.036E-09	5.489E-09	1600
	78.0	0	0.	0.	1600
	80.0	23	7.509E-09	3.979E-08	1600
	82.0	14	4.660E-09	2.477E-08	1600
	84.0	12	4.142E-09	2.195E-08	1600
	86.0	20	6.731E-09	3.568E-08	1600
	88.0	57	1.864E-08	9.880E-08	1600
	90.0	51	1.642E-08	8.705E-08	1600
	92.0	15	4.919E-09	2.607E-08	1600
	94.0	45	1.449E-08	7.680E-08	1600
	96.0	51	1.642E-08	8.705E-08	1600
	98.0	39	1.256E-08	6.656E-08	1600
	100.0	102	3.285E-08	1.741E-07	1610
W	98.6	162	5.217E-08	2.755E-07	1611
W	99.6	372	1.198E-07	6.344E-07	1613
	100.6	474	1.526E-07	8.090E-07	1615
	101.6	1270	3.927E-07	2.079E-06	1617
	102.6	1286	4.135E-07	2.191E-06	1618
	103.6	2783	8.946E-07	4.741E-06	1620
	104.6	4552	1.495E-06	7.926E-06	1622

W	64.0	0	0.	0.	1600
W	66.0	5	2.321E-09	3.713E-09	1600
	68.0	5	2.481E-09	3.969E-09	1600
	70.0	9	4.215E-09	6.743E-09	1600
	72.0	25	1.142E-08	1.827E-08	1600
	74.0	44	1.969E-08	3.150E-08	1600
	76.0	64	2.849E-08	4.558E-08	1600
	78.0	107	4.770E-08	7.631E-08	1600
	80.0	144	6.397E-08	1.023E-07	1600
	82.0	228	1.013E-07	1.621E-07	1600
	84.0	512	2.270E-07	3.631E-07	1600
	86.0	1702	7.535E-07	1.206E-06	1600
	88.0	8112	3.590E-06	5.743E-06	1600
	90.0	17443	7.718E-06	1.235E-05	1600
	92.0	41193	1.423E-05	2.916E-05	1600
	93.6	49379	2.185E-05	3.496E-05	1603
	94.0	24713	1.094E-05	1.750E-05	1600
	94.6	59637	2.639E-05	4.222E-05	1604
	95.6	47948	2.122E-05	3.395E-05	1606
	96.6	42938	1.900E-05	3.040E-05	1608
	97.6	39359	1.742E-05	2.787E-05	1610
W	98.6	33633	1.488E-05	2.381E-05	1611
W	99.6	30055	1.330E-05	2.128E-05	1613
	100.6	22898	1.013E-05	1.621E-05	1615
	101.6	34349	1.520E-05	2.432E-05	1617
	102.6	31486	1.393E-05	2.229E-05	1618
	103.6	28624	1.267E-05	2.026E-05	1620
	104.6	24329	1.077E-05	1.722E-05	1622

105.5	5066	1.886E-06	9.995E-06	1623
106.5	6350	2.041E-06	1.082E-05	1625
107.5	8159	2.623E-06	1.390E-05	1627
108.5	4685	1.506E-06	7.983E-06	1628
109.5	10657	3.426E-06	1.816E-05	1630
110.4	5037	1.619E-06	8.582E-06	1632
111.4	9275	2.981E-06	1.580E-05	1633
112.4	11712	3.765E-06	1.995E-05	1635
113.4	12989	4.175E-06	2.213E-05	1637
114.4	12959	4.166E-06	2.208E-05	1638
115.3	11484	3.691E-06	1.956E-05	1640
116.3	14285	4.592E-06	2.434E-05	1641
117.3	9978	3.207E-06	1.700E-05	1643
118.2	14243	4.578E-06	2.427E-05	1644
119.2	9924	3.190E-06	1.691E-05	1646
120.2	7189	2.311E-06	1.225E-05	1647
121.2	15376	4.943E-06	2.620E-05	1649
122.1	12139	3.907E-06	2.058E-05	1650
123.1	2780	8.936E-07	4.736E-06	1652
124.1	1325	4.260E-07	2.258E-06	1653
125.0	333	1.072E-07	5.604E-07	1655
126.0	174	5.603E-08	2.970E-07	1656
M 126.9	36	1.159E-08	6.144E-08	1658

CROSSWIND INTEGRATED= 1.777E-03 9.419E-03  
SEC/SQ.M 1/M

TEST U64 JUNE 25, 1968 0347 TO 0417 PST  
71NC SULFIOE RELEASE FROM ELEVATION OF 20M  
2200M AKC SAMPLER HT 1.5M U= 5.3 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	F/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
0	76.0	0	0.	2200
4	78.0	3	1.710E-09	2200
8	80.0	0	0.	2200
X	82.0	0	0.	2200
0	84.0	0	2.690E-10	2200
9	86.0	0	0.	2200
0	88.0	0	0.	2200
8	90.0	3	1.210E-09	2200
8	92.0	0	2.690E-10	2200
F	94.0	4	1.345E-09	2200
E	96.0	11	3.631E-09	2200
E	98.0	41	1.318E-08	2200
	100.0	177	5.707E-08	2200
F	102.0	141	4.545E-08	2200
	104.0	161	5.204E-08	2200
E	106.0	746	2.399E-07	2200
	108.0	3194	1.027E-06	2200
P	110.0	15735	5.058E-06	2200
	112.0	4714	1.515E-06	2200
	114.0	1940	6.237E-07	2200
	116.0	2031	6.530E-07	2200
	118.0	1676	5.390E-07	2200
	120.0	945	3.038E-07	2200
S	122.0	809	2.604E-07	2200
F	124.0	264	8.513E-08	2200
S	126.0	116	3.739E-08	2200
	128.0	0	0.	2200

CROSSWIND INTEGRATED= 8.077E-04 4.281E-03  
SEC/SQ.M 1/M

105.5	25045	1.108E-05	1.773E-05	1623
106.5	20333	8.997E-06	1.440E-05	1625
107.5	16860	7.461E-06	1.194E-05	1627
108.5	12396	5.465E-06	8.776E-06	1628
109.5	9073	4.015E-06	6.423E-06	1630
110.4	4608	2.039E-06	3.263E-06	1632
111.4	2971	1.315E-06	2.104E-06	1633
112.4	1861	8.238E-07	1.318E-06	1635
113.4	609	2.699E-07	4.318E-07	1637
114.4	470	2.062E-07	3.331E-07	1638
115.3	172	7.651E-08	1.224E-07	1640
116.3	26	1.191E-08	1.906E-08	1641
117.3	9	4.390E-09	7.023E-09	1643
118.2	0	9.406E-11	1.505E-10	1644
119.2	0	0.	0.	1646
120.2	3	1.568E-09	2.508E-09	1647
121.2	0	0.	0.	1649

CROSSWIND INTEGRATED= 8.298E-03 1.328E-02  
SEC/SQ.M 1/M

TEST U64 JUNE 25, 1968 0347 TO 0407 PST  
FLUOROSCEIN RELEASE FROM ELEVATION OF 2M  
2200M AKC SAMPLER HT 1.5M U= 1.6 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	F/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
Z	72.0	4	2.078E-09	2200
9	74.0	7	3.325E-09	2200
E	76.0	13	5.819E-09	2200
4	78.0	23	1.039E-08	2200
8	80.0	41	1.829E-08	2200
C	82.0	48	2.148E-08	2200
0	84.0	16	7.344E-09	2200
9	86.0	56	2.494E-08	2200
H	88.0	22	9.976E-09	2200
3	90.0	258	1.143E-07	2200
8	92.0	646	2.860E-07	2200
0	94.0	3031	1.341E-06	2200
L	96.0	5660	2.504E-06	2200
0	98.0	5471	2.421E-06	2200
	100.0	16989	7.518E-06	2200
U	102.0	9625	4.259E-06	2200
	104.0	4778	2.115E-06	2200
0	106.0	5471	2.421E-06	2200
3	108.0	4454	1.971E-06	2200
C	110.0	2757	1.220E-06	2200
	112.0	1902	8.417E-07	2200
	114.0	784	3.471E-07	2200
	116.0	95	4.226E-08	2200
7	118.0	23	1.039E-08	2200
0	120.0	10	4.711E-09	2200

CROSSWIND INTEGRATED= 2.119E-03 3.381E-03  
SEC/SQ.M 1/M



TEST U64 JUNE 25, 1968 0347 TO 0407 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 2M  
 3200M ARC SAMPLER HT 1.5M U= 1.6 M/SEC AT 2M

AZIMUTH EXPOSURE E/O EU/O DISTANCE  
 DEGREES GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS  
 X10E+6

76.8	0	0.	0.	3200
77.8	2	1.276E-09	2.042E-09	3177
78.8	7	3.214E-09	5.143E-09	3179
79.8	9	4.349E-09	6.958E-09	3180
80.8	9	4.065E-09	6.504E-09	3182
81.8	13	6.050E-09	9.680E-09	3184
82.8	13	6.050E-09	9.680E-09	3185
83.8	15	6.759E-09	1.081E-08	3187
84.8	23	1.059E-08	1.694E-08	3189
85.8	29	1.245E-08	2.072E-08	3191
86.8	27	1.201E-08	1.921E-08	3192
87.8	23	1.059E-08	1.694E-08	3194
88.8	32	1.437E-08	2.299E-08	3196
89.8	45	2.004E-08	3.207E-08	3198
90.8	64	2.855E-08	4.568E-08	3199
91.8	86	3.895E-08	6.232E-08	3201
92.8	61	2.713E-08	4.341E-08	3203
93.8	123	5.455E-08	8.727E-08	3205
94.8	126	5.596E-08	8.954E-08	3206
95.8	97	4.320E-08	6.412E-08	3208
96.8	213	9.425E-08	1.508E-07	3210
97.8	209	9.283E-08	1.485E-07	3212
98.8	340	1.505E-07	2.408E-07	3213
99.8	476	2.107E-07	3.371E-07	3215
100.8	648	2.871E-07	4.594E-07	3217
101.8	895	3.963E-07	6.341E-07	3218
102.8	1254	5.551E-07	8.882E-07	3220
103.8	2084	9.224E-07	1.476E-06	3222
104.8	2824	1.250E-06	2.000E-06	3224
105.8	2353	1.041E-06	1.666E-06	3225
106.8	3632	1.607E-06	2.572E-06	3227
107.8	4238	1.875E-06	3.000E-06	3229
108.8	4372	1.935E-06	3.096E-06	3230
109.7	5606	2.481E-06	3.969E-06	3232
110.7	2386	1.056E-06	1.690E-06	3233
111.7	5180	2.292E-06	3.667E-06	3235
112.7	8971	3.970E-06	6.351E-06	3237
113.7	10766	4.764E-06	7.622E-06	3238
114.6	4911	2.173E-06	3.477E-06	3240
115.6	4238	1.875E-06	3.000E-06	3241
116.6	1254	5.551E-07	8.882E-07	3243
117.6	425	1.883E-07	3.013E-07	3245
118.6	248	1.098E-07	1.758E-07	3246
119.5	219	9.709E-08	1.553E-07	3248
120.5	414	1.636E-07	2.937E-07	3249
121.5	297	1.316E-07	2.105E-07	3251
122.4	78	3.469E-08	5.551E-08	3252
123.4	15	6.901E-09	1.104E-08	3253
124.4	16	7.185E-09	1.150E-08	3255
125.4	15	7.043E-09	1.127E-08	3256
126.3	7	3.498E-09	5.596E-09	3258
127.3	9	4.685E-09	6.504E-09	3259
128.3	5	2.505E-09	4.008E-09	3261

CROSSWIND INTEGRATED = 1.700E-03 SEC/SQ.M 2.720E-03 1/M

TEST U64 JUNE 25, 1968 0347 TO 0417 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 3200M ARC SAMPLER HT 1.5M U= 5.3 M/SEC AT 26M

AZIMUTH EXPOSURE E/O EU/O DISTANCE  
 DEGREES GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS  
 X10E+6

89.8	0	0.	0.	3200
90.8	5	1.835E-09	9.726E-09	3199
91.8	8	2.753E-09	1.459E-08	3201
92.8	12	4.129E-09	2.188E-08	3203
93.8	14	4.588E-09	2.431E-08	3205
94.8	17	5.505E-09	2.918E-08	3206
95.8	35	1.147E-08	6.078E-08	3208
96.8	39	1.285E-08	6.808E-08	3210
97.8	5	1.835E-09	9.726E-09	3212
98.8	42	1.376E-08	7.294E-08	3213
99.8	45	1.468E-08	7.780E-08	3215
100.8	44	1.422E-08	7.537E-08	3217
101.8	128	4.129E-08	2.188E-07	3218
102.8	42	1.376E-08	7.294E-08	3220
103.8	65	2.110E-08	1.118E-07	3222
104.8	174	5.597E-08	2.966E-07	3224
105.8	101	3.257E-08	1.726E-07	3225
106.8	218	7.019E-08	3.720E-07	3227
107.8	164	5.275E-08	2.795E-07	3229
108.8	178	4.129E-08	2.188E-07	3230
109.7	292	9.404E-08	4.934E-07	3232
110.7	525	1.688E-07	8.948E-07	3233
111.7	703	2.262E-07	1.199E-06	3235
112.7	4584	1.474E-06	7.810E-06	3237
113.7	9917	3.188E-06	1.690E-05	3238
114.6	4001	1.788E-06	6.818E-06	3240
115.6	6744	2.168E-06	1.149E-05	3241
116.6	8002	2.572E-06	1.363E-05	3243
117.6	4228	1.359E-06	7.204E-06	3245
118.6	2477	7.964E-07	4.221E-06	3246
119.5	1975	6.354E-07	3.357E-06	3248
120.5	3309	1.064E-06	5.638E-06	3249
121.5	3570	1.148E-06	6.083E-06	3251
122.4	4841	1.558E-06	8.247E-06	3252
123.4	4247	1.365E-06	7.230E-06	3253
124.4	7722	2.482E-06	1.316E-05	3255
125.4	8981	2.887E-06	1.530E-05	3256
126.3	7101	2.283E-06	1.210E-05	3258
127.3	5533	1.779E-06	9.427E-06	3259
128.3	2531	8.138E-07	4.313E-06	3261
129.3	1104	3.551E-07	1.802E-06	3262
130.3	261	8.395E-08	4.449E-07	3263
131.2	0	0.	0.	3264

CROSSWIND INTEGRATED = 1.672E-03 SEC/SQ.M 8.864E-03 1/M

TEST U64 JUNE 25, 1968 0347 TO 0417 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
5000M ARC SAMPLER HT 1.5M U= 5.3 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	E/Q SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
0 86.0	0	0.	0.	4610
88.0	1	5.379E-10	2.851E-09	4610
90.0	2	8.069E-10	4.276E-09	4510
92.0	2	8.069E-10	4.276E-09	4620
94.0	2	6.724E-10	3.564E-09	4620
96.0	3	1.076E-09	5.702E-09	4620
98.0	5	1.883E-09	9.978E-09	4660
100.0	6	2.152E-09	1.140E-08	4690
102.0	28	9.279E-09	4.918E-08	4710
104.0	22	7.127E-09	3.778E-08	4770
106.0	37	1.210E-08	6.415E-08	4910
108.0	35	1.157E-08	6.130E-08	4870
110.0	32	1.049E-08	5.559E-08	4920
112.0	26	8.607E-09	4.562E-08	4990
114.0	30	9.817E-09	5.233E-08	5080
116.0	76	2.474E-08	1.311E-07	5020
118.0	134	4.317E-08	2.288E-07	5100
120.0	200	6.442E-08	3.414E-07	5130
122.0	791	2.544E-07	1.349E-06	4830
6 124.0	2324	7.472E-07	3.900E-06	4660
126.0	1881	6.049E-07	3.236E-06	4770
5 128.0	8799	2.828E-06	1.499E-05	4900
E 130.0	2383	7.661E-07	4.061E-06	4970
6 132.0	645	2.076E-07	1.100E-06	4980
5 134.0	20	6.455E-09	3.421E-08	4990
4 136.0	0	0.	0.	5000

CROSSWIND INTEGRATED= 9.557E-04 SEC/SQ.M 5.065E-03 1/M

TEST U64 JUNE 25, 1968 0347 TO 0417 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
7000M ARC SAMPLER HT 1.5M U= 5.3 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	E/Q SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
90.0	0	0.	0.	6500
92.0	1	5.379E-10	2.851E-09	6490
94.0	17	5.514E-09	2.922E-08	6500
96.0	6	2.017E-09	1.059E-08	6510
4 98.0	0	0.	0.	6520
4 100.0	0	0.	0.	6560
102.0	19	6.186E-09	3.279E-08	6610
5 104.0	35	1.130E-08	5.987E-08	6650
5 106.0	24	7.934E-09	4.205E-08	6720
108.0	53	1.721E-08	9.123E-08	6800
6 110.0	31	1.022E-08	5.417E-08	7000
E 112.0	32	1.049E-08	5.559E-08	7300
5 114.0	35	1.143E-08	6.058E-08	7210
5 116.0	19	6.186E-09	3.279E-08	7220
118.0	28	9.145E-09	4.847E-08	7190
Z 120.0	53	1.721E-08	9.123E-08	7150
E 122.0	186	5.998E-08	3.179E-07	7120
E 124.0	680	2.188E-07	1.160E-06	7100
4 126.0	3477	1.118E-06	5.924E-06	7100
5 128.0	10565	3.396E-06	1.800E-05	7100
4 130.0	9550	3.070E-06	1.627E-05	7130
E 132.0	3488	1.121E-06	5.943E-06	7150
E 134.0	907	2.918E-07	1.547E-06	7200
E 136.0	399	1.284E-07	6.807E-07	7250
# 138.0	114	3.671E-08	1.945E-07	7300
0 140.0	51	1.641E-08	8.696E-08	7350
0 142.0	13	4.438E-09	2.352E-08	7250
0 144.0	0	0.	0.	7110
146.0	51	1.641E-08	8.696E-08	7100

CROSSWIND INTEGRATED= 2.384E-03 SEC/SQ.M 1.264E-02 1/M

TEST U64 JUNE 25, 1968 0347 TO 0407 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 2M  
5000M ARC SAMPLER HT 1.5M U= 1.6 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	E/Q SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
2 82.0	1	4.850E-10	7.759E-10	4630
3 84.0	3	1.399E-09	2.239E-09	4620
0 86.0	0	2.355E-10	3.769E-10	4610
2 88.0	9	4.420E-09	7.072E-09	4610
1 90.0	12	5.528E-09	8.846E-09	4610
1 92.0	27	1.204E-08	1.927E-08	4620
3 94.0	35	1.578E-08	2.525E-08	4620
2 96.0	15	7.053E-09	1.128E-08	4620
3 98.0	30	1.329E-08	2.126E-08	4660
2 100.0	63	2.796E-08	4.474E-08	4690
1 102.0	92	4.105E-08	6.569E-08	4710
1 104.0	175	7.772E-08	1.243E-07	4770
3 106.0	300	1.330E-07	2.126E-07	4810
2 108.0	261	1.155E-07	1.849E-07	4870
2 110.0	379	1.679E-07	2.687E-07	4920
2 112.0	688	3.047E-07	4.875E-07	4990
2 114.0	747	3.309E-07	5.294E-07	5080
1 116.0	826	3.658E-07	5.853E-07	5020
1 118.0	1260	5.578E-07	8.925E-07	5100
1 120.0	1773	7.848E-07	1.256E-06	5130
3 122.0	1359	6.015E-07	9.624E-07	4830
6 124.0	333	1.476E-07	2.361E-07	4660
2 126.0	374	1.679E-07	2.687E-07	4770
P 128.0	708	3.134E-07	5.014E-07	4900
C 130.0	86	3.844E-08	6.150E-08	4970
6 132.0	10	4.741E-09	7.586E-09	4980
5 134.0	0	0.	0.	4990

CROSSWIND INTEGRATED= 7.349E-04 SEC/SQ.M 1.176E-03 1/M

TEST U64 JUNE 25, 1968 0347 TO 0407 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 2M  
7000M ARC SAMPLER HT 1.5M U= 1.6 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	E/Q SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
1 84.0	0	0.	0.	6500
4 86.0	3	1.663E-09	2.666E-09	6500
5 88.0	5	2.411E-09	3.857E-09	6480
1 90.0	4	2.162E-09	3.458E-09	6500
4 92.0	11	5.265E-09	8.424E-09	6490
1 94.0	16	7.482E-09	1.197E-08	6500
1 96.0	36	1.621E-08	2.594E-08	6510
4 98.0	50	2.245E-08	3.591E-08	6520
4 100.0	74	3.276E-08	5.241E-08	6560
2 102.0	66	2.926E-08	4.682E-08	6610
1 104.0	70	3.101E-08	4.962E-08	6650
1 106.0	85	3.799E-08	6.079E-08	6720
3 108.0	125	5.545E-08	8.872E-08	6800
6 110.0	189	8.397E-08	1.343E-07	7000
0 112.0	129	5.720E-08	9.152E-08	7300
5 114.0	222	9.852E-08	1.576E-07	7210
5 116.0	380	1.683E-07	2.694E-07	7220
3 118.0	387	1.713E-07	2.740E-07	7190
Z 120.0	367	1.625E-07	2.600E-07	7150
0 122.0	847	3.749E-07	5.994E-07	7120
0 124.0	985	4.360E-07	6.977E-07	7100
4 126.0	2563	1.134E-06	1.815E-06	7100
5 128.0	1971	8.725E-07	1.396E-06	7100
4 130.0	1380	6.106E-07	9.770E-07	7130
0 132.0	43	1.937E-08	3.099E-08	7150
0 134.0	93	4.148E-08	6.638E-08	7200
0 136.0	11	5.265E-09	8.424E-09	7250
0 138.0	17	7.621E-09	1.219E-08	7300
0 140.0	14	6.374E-09	1.020E-08	7350
0 142.0	6	2.910E-09	4.658E-09	7250
C 144.0	0	3.603E-10	5.764E-10	7110
4 146.0	2	9.561E-10	1.530E-09	7100

CROSSWIND INTEGRATED= 1.114E-03 SEC/SQ.M 1.783E-03 1/M

SAMPLING 400M TO 12800M, NO TOWER SAMPLING.  
 BIMODAL DISTRIBUTION FOR BOTH TRACERS.  
 TRACER DISTRIBUTIONS TRUNCATED ON NORTH EDGE BEYOND 2200M ARC.

TEST U65 JUNE 27, 1968 0332 TO 0402 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 400M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SFC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
58.0	0	0.	0.	400
62.0	2417	7.850E-07	4.317E-06	400
66.0	6561	2.130E-06	1.172E-05	400
70.0	19885	6.456E-06	3.551E-05	400
74.0	10295	3.343E-06	1.838E-05	400
X 78.0	530	1.724E-07	9.480E-07	400
X 82.0	1197	3.889E-07	2.139E-06	400
X 86.0	7022	2.280E-06	1.254E-05	400
X 90.0	13563	4.404E-06	2.422E-05	400
94.0	7331	2.380E-06	1.309E-05	400
98.0	1276	4.144E-07	2.279E-06	400
102.0	0	0.	0.	400

CROSSWIND INTEGRATED= 6.354E-04 SEC/SQ.M 3.495E-03 1/M

TEST U65 JUNE 27, 1968 0332 TO 0402 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 800M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
52.0	4	1.340E-09	7.368E-09	800
55.0	0	0.	0.	800
58.0	0	0.	0.	800
61.0	409	1.331E-07	7.319E-07	800
64.0	6151	1.997E-06	1.099E-05	800
67.0	20269	6.581E-06	3.620E-05	800
70.0	34253	1.112E-05	6.117E-05	800
73.0	33740	1.095E-05	6.025E-05	800
76.0	8165	2.651E-06	1.458E-05	800
79.0	4297	1.395E-06	7.675E-06	800
82.0	10357	3.363E-06	1.850E-05	800
85.0	16928	5.464E-06	3.005E-05	800
88.0	32939	1.069E-05	5.882E-05	800
91.0	35844	1.164E-05	6.401E-05	800
94.0	13263	4.306E-06	2.368E-05	800
97.0	6737	2.188E-06	1.203E-05	800
97.1	10163	3.300E-06	1.815E-05	806
99.1	2068	6.717E-07	3.694E-06	809
101.1	592	1.924E-07	1.058E-06	813
103.0	3	1.195E-09	6.573E-09	816

CROSSWIND INTEGRATED= 3.055E-03 SEC/SQ.M 1.686E-02 1/M

TEST U65 JUNE 27, 1968 0332 TO 0402 PST  
 FLUORESCCEIN RELEASE FROM ELEVATION OF 2M  
 400M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
46.0	77	2.315E-08	6.946E-08	400
50.0	54	1.634E-08	4.903E-08	400
54.0	187	5.623E-08	1.687E-07	400
58.0	22914	6.875E-06	2.063E-05	400
62.0	86891	2.607E-05	7.821E-05	400
66.0	102099	3.063E-05	9.190E-05	400
70.0	97754	2.933E-05	8.799E-05	400
74.0	34533	1.036E-05	3.108E-05	400
X 78.0	2168	6.507E-07	1.952E-06	400
X 82.0	22801	6.841E-06	2.052E-05	400
X 86.0	49958	1.499E-05	4.497E-05	400
X 90.0	56475	1.694E-05	5.083E-05	400
94.0	31274	9.383E-06	2.815E-05	400
98.0	715	2.148E-07	6.444E-07	400
102.0	27	8.237E-09	2.471E-08	400

CROSSWIND INTEGRATED= 4.256E-03 SEC/SQ.M 1.277E-02 1/M

TEST U65 JUNE 27, 1968 0332 TO 0402 PST  
 FLUORESCCEIN RELEASE FROM ELEVATION OF 2M  
 800M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
49.0	13	3.956E-09	1.167E-08	800
52.0	103	3.091E-08	9.272E-08	800
55.0	1130	3.393E-07	1.018E-06	800
58.0	3196	9.590E-07	2.877E-06	800
61.0	18008	5.403E-06	1.621E-05	800
64.0	56482	1.695E-05	5.084E-05	800
67.0	60927	1.825E-05	5.475E-05	800
70.0	56482	1.695E-05	5.084E-05	800
73.0	31932	9.581E-06	2.874E-05	800
76.0	11131	3.340E-06	1.002E-05	800
79.0	14406	4.322E-06	1.297E-05	800
82.0	33235	9.972E-06	2.992E-05	800
85.0	62999	1.890E-05	5.671E-05	800
88.0	97760	2.933E-05	8.799E-05	800
91.0	65172	1.955E-05	5.866E-05	800
94.0	10437	3.131E-06	9.394E-06	800
97.0	1562	4.687E-07	1.406E-06	800
97.1	1073	3.221E-07	9.662E-07	806
99.1	25	7.705E-09	2.312E-08	809
101.1	5	1.719E-09	5.158E-09	813

CROSSWIND INTEGRATED= 6.592E-03 SEC/SQ.M 1.978E-02 1/M

TEST U65 JUNE 27, 1968 0332 TO 0402 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
1200M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
48.0	1	4.981E-10	2.740E-09	1200
50.0	1	4.981E-10	2.740E-09	1200
52.0	1	4.981E-10	2.740E-09	1200
54.0	3	9.962E-10	5.479E-09	1200
56.0	30	9.962E-09	5.479E-08	1200
58.0	164	5.330E-08	2.931E-07	1200
60.0	704	2.289E-07	1.259E-06	1200
62.0	2366	7.683E-07	4.226E-06	1200
64.0	6076	1.973E-06	1.085E-05	1200
66.0	10776	3.499E-06	1.924E-05	1200
68.0	16468	5.347E-06	2.941E-05	1200
70.0	18865	6.125E-06	3.369E-05	1200
72.0	18417	5.980E-06	3.289E-05	1200
74.0	9941	3.228E-06	1.775E-05	1200
76.0	5406	1.755E-06	9.654E-06	1200
78.0	5193	1.666E-06	9.274E-06	1200
80.0	3461	1.124E-06	6.132E-06	1200
82.0	4963	1.612E-06	8.864E-06	1200
84.0	6991	2.270E-06	1.248E-05	1200
86.0	16451	5.341E-06	2.938E-05	1200
88.0	26969	8.756E-06	4.816E-05	1200
90.0	28418	9.227E-06	5.075E-05	1200
92.0	19250	6.250E-06	3.438E-05	1200
94.0	10959	3.558E-06	1.957E-05	1200
96.0	2512	8.159E-07	4.487E-06	1200
98.0	780	2.535E-07	1.394E-06	1200
100.0	108	3.512E-08	1.931E-07	1200
102.0	1	4.981E-10	2.740E-09	1200
104.0	0	0.	0.	1200

CROSSWIND INTEGRATED= 2.928E-03 SEC/SQ.M  
1.610E-02 1/M

TEST U65 JUNE 27, 1968 0332 TO 0402 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
1600M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
50.0	0	0.	0.	1600
52.0	1	4.981E-10	2.740E-09	1600
54.0	28	9.215E-09	5.068E-08	1600
56.0	78	2.540E-08	1.397E-07	1500
58.0	188	6.127E-08	3.370E-07	1500
60.0	540	1.756E-07	9.657E-07	1600
62.0	1219	3.960E-07	2.178E-06	1600
64.0	4906	1.593E-06	8.761E-06	1600
66.0	4493	1.459E-06	8.024E-06	1600
68.0	9200	2.987E-06	1.643E-05	1500
70.0	11630	3.776E-06	2.077E-05	1500
72.0	5834	1.894E-06	1.042E-05	1500
74.0	4658	1.513E-06	8.319E-06	1600
76.0	1355	4.401E-07	2.420E-06	1600
78.0	1072	3.442E-07	1.915E-06	1600
80.0	876	2.957E-07	1.556E-06	1500
82.0	1808	5.873E-07	3.230E-06	1500
84.0	2352	7.638E-07	4.201E-06	1600
86.0	5215	1.693E-06	9.313E-06	1600
88.0	9709	3.152E-06	1.734E-05	1600
90.0	9660	3.137E-06	1.725E-05	1600
92.0	11019	3.578E-06	1.958E-05	1500
93.6	5979	1.941E-06	1.068E-05	1603
94.0	1924	6.249E-07	3.437E-06	1600
94.6	3564	1.157E-06	6.365E-06	1604
95.6	957	3.109E-07	1.710E-06	1606
96.6	633	2.058E-07	1.132E-06	1608
97.6	159	5.158E-08	2.842E-07	1610
98.6	49	1.604E-08	8.821E-08	1611
99.6	5	1.782E-09	9.801E-09	1613

CROSSWIND INTEGRATED= 1.642E-03 SEC/SQ.M  
9.032E-03 1/M

TEST U65 JUNE 27, 1968 0332 TO 0402 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 2M  
1200M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
48.0	29	8.863E-09	2.659E-08	1200
50.0	195	5.860E-08	1.758E-07	1200
52.0	945	2.838E-07	8.514E-07	1200
54.0	1097	3.294E-07	9.881E-07	1200
56.0	1629	4.889E-07	1.467E-06	1200
58.0	2908	8.725E-07	2.618E-06	1200
60.0	5659	1.698E-06	5.094E-06	1200
62.0	13391	4.018E-06	1.205E-05	1200
64.0	18899	5.670E-06	1.701E-05	1200
66.0	21807	6.543E-06	1.963E-05	1200
68.0	21444	6.434E-06	1.930E-05	1200
70.0	22898	6.870E-06	2.061E-05	1200
72.0	10538	3.162E-06	9.486E-06	1200
74.0	4745	1.424E-06	4.272E-06	1200
76.0	4380	1.314E-06	3.943E-06	1200
78.0	5841	1.753E-06	5.258E-06	1200
80.0	5659	1.698E-06	5.094E-06	1200
82.0	6937	2.082E-06	6.245E-06	1200
84.0	19263	5.780E-06	1.734E-05	1200
86.0	41195	1.236E-05	3.708E-05	1200
88.0	54525	1.636E-05	4.909E-05	1200
90.0	36348	1.091E-05	3.272E-05	1200
92.0	20717	6.216E-06	1.865E-05	1200
94.0	4047	1.214E-06	3.643E-06	1200
96.0	540	1.622E-07	4.667E-07	1200
98.0	18	5.481E-09	1.644E-08	1200
100.0	4	1.465E-09	4.395E-09	1200
102.0	0	0.	0.	1200
104.0	1	5.426E-10	1.628E-09	1200
106.0	39	1.194E-08	3.581E-08	1200

CROSSWIND INTEGRATED= 4.093E-03 SEC/SQ.M  
1.228E-02 1/M

TEST U65 JUNE 27, 1968 0332 TO 0402 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 2M  
1600M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
E 44.0	0	0.	0.	1600
E 46.0	14	4.341E-09	1.302E-08	1600
48.0	86	2.605E-08	7.814E-08	1600
50.0	315	9.478E-08	2.843E-07	1600
52.0	581	1.744E-07	5.231E-07	1600
54.0	836	2.510E-07	7.531E-07	1600
56.0	958	2.876E-07	8.628E-07	1600
58.0	1705	5.117E-07	1.535E-06	1500
60.0	3414	1.024E-06	3.073E-06	1600
62.0	9129	2.739E-06	8.218E-06	1600
64.0	12783	3.835E-06	1.151E-05	1600
66.0	10591	3.178E-06	9.533E-06	1600
68.0	12235	3.671E-06	1.101E-05	1600
70.0	8764	2.630E-06	7.889E-06	1600
72.0	3794	1.138E-06	3.415E-06	1600
74.0	2313	6.940E-07	2.042E-06	1600
76.0	1667	5.003E-07	1.501E-06	1600
78.0	1515	4.547E-07	1.364E-06	1600
80.0	1363	4.091E-07	1.227E-06	1600
82.0	3414	1.024E-06	3.073E-06	1600
84.0	9860	2.958E-06	8.875E-06	1600
86.0	17045	5.114E-06	1.534E-05	1600
88.0	17045	5.114E-06	1.534E-05	1600
90.0	14000	4.201E-06	1.260E-05	1600
92.0	4047	1.214E-06	3.643E-06	1600
93.6	1331	3.996E-07	1.194E-06	1603
94.0	553	1.660E-07	4.981E-07	1600
94.6	632	1.898E-07	5.694E-07	1604
95.6	1905	5.718E-07	1.716E-06	1606
96.6	961	2.884E-07	8.651E-07	1608
97.6	559	1.679E-07	5.037E-07	1610
3 98.6	28	8.433E-09	2.530E-08	1611
99.6	0	0.	0.	1613
100.0	0	0.	0.	1615
101.6	56	1.694E-08	5.081E-08	1617

CROSSWIND INTEGRATED= 2.344E-03 SEC/SQ.M  
7.033E-03 1/M

TEST U65 JUNE 27, 1968 0332 TO 0402 PST  
ZINC SULFIDE RELEASE FROM ELFVATION OF 26M  
2200M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EJ/Q 1/SQ.M	DISTANCE METERS
48.0	4	1.494E-09	8.218E-09	2200
50.0	3	1.007E-09	5.977E-09	2200
52.0	100	3.260E-08	1.793E-07	2200
54.0	124	4.034E-08	2.219E-07	2200
56.0	215	6.995E-08	3.847E-07	2200
58.0	236	7.688E-08	4.229E-07	2200
60.0	382	1.242E-07	6.828E-07	2200
62.0	1377	4.472E-07	2.459E-06	2200
64.0	1228	3.989E-07	2.194E-06	2200
66.0	1581	5.136E-07	2.825E-06	2200
68.0	2864	9.301E-07	5.115E-06	2200
70.0	2474	8.035E-07	4.419E-06	2200
S 72.0	2757	9.954E-07	4.925E-06	2200
74.0	675	2.194E-07	1.207E-06	2200
76.0	343	1.115E-07	6.134E-07	2200
78.0	396	1.288E-07	7.082E-07	2200
80.0	876	2.847E-07	1.566E-06	2200
E 82.0	1004	3.260E-07	1.793E-06	2200
84.0	1202	3.904E-07	2.147E-06	2200
86.0	3672	1.176E-06	6.469E-06	2200
E 88.0	2697	8.757E-07	4.816E-06	2200
90.0	3282	1.066E-06	5.861E-06	2200
92.0	1450	4.709E-07	2.590E-06	2200
94.0	658	2.138E-07	1.176E-06	2200
96.0	35	1.168E-08	6.425E-08	2200
98.0	5	1.902E-09	1.046E-08	2200
100.0	0	2.717E-10	1.494E-09	2200

CROSSWIND INTEGRATED= 7.381E-04 SEC/SQ.M  
4.060E-03 1/M

TEST U65 JUNE 27, 1968 0332 TO 0402 PST  
ZINC SULFIDE RELEASE FROM ELFVATION OF 26M  
3200M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SFC/CU.M	EJ/Q 1/SQ.M	DISTANCE METERS
R 48.0	53	1.725E-08	9.488E-08	3200
S 50.0	47	1.535E-08	8.442E-08	3200
52.0	64	2.079E-08	1.151E-07	3200
54.0	140	4.550E-08	2.503E-07	3200
58.0	74	2.404E-08	1.322E-07	3200
60.0	192	6.252E-08	3.444E-07	3200
62.0	723	2.349E-07	1.292E-06	3200
64.0	969	3.147E-07	1.731E-06	3200
66.0	468	1.521E-07	8.367E-07	3200
S 68.0	1424	4.624E-07	2.543E-06	3200
70.0	2236	7.267E-07	3.994E-06	3200
72.7	2396	7.780E-07	4.274E-06	3158
73.7	2127	6.906E-07	3.799E-06	3170
74.7	513	1.668E-07	9.175E-07	3172
75.7	1425	4.629E-07	2.546E-06	3173
76.8	913	2.966E-07	1.631E-06	3175
77.8	399	1.297E-07	7.136E-07	3177
78.8	777	2.524E-07	1.338E-06	3179
79.8	1315	4.272E-07	2.350E-06	3180
80.9	1469	4.771E-07	2.624E-06	3182
81.8	3547	1.157E-06	6.335E-06	3184
82.8	4104	1.337E-06	7.330E-06	3185
83.8	3249	1.055E-06	5.803E-06	3187
84.8	3172	1.030E-06	5.655E-06	3189
85.8	3180	1.033E-06	5.680E-06	3191
86.8	3347	1.047E-06	5.978E-06	3192
87.8	6817	2.714E-06	1.217E-05	3194
88.8	6101	1.981E-06	1.090E-05	3196
89.8	4036	1.311E-06	7.209E-06	3198
90.8	1481	4.810E-07	2.645E-06	3199
91.8	1428	4.638E-07	2.551E-06	3201
92.8	690	2.242E-07	1.233E-06	3203
93.8	188	6.134E-08	3.374E-07	3205
94.8	69	2.251E-08	1.238E-07	3206
95.8	32	1.059E-08	5.825E-08	3208
96.8	80	2.604E-08	1.432E-07	3210

CROSSWIND INTEGRATED= 1.244E-03 SEC/SQ.M  
6.841E-03 1/M

TEST U65 JUNE 27, 1968 0332 TO 0402 PST  
FLUORESCCEIN RELEASE FROM ELFVATION OF 2M  
2200M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SFC/CU.M	EJ/Q 1/SQ.M	DISTANCE METERS
L 40.0	0	0.	0.	2200
L 42.0	7	2.368E-09	7.103E-09	2200
E 44.0	28	6.667E-09	2.599E-08	2200
L 46.0	100	3.027E-08	9.081E-08	2200
U 48.0	248	7.443E-08	2.233E-07	2200
3 50.0	295	8.852E-08	2.656E-07	2200
52.0	569	1.709E-07	5.128E-07	2200
54.0	845	2.538E-07	7.614E-07	2200
Z 56.0	1003	3.011E-07	9.034E-07	2200
58.0	845	2.538E-07	7.614E-07	2200
60.0	1673	5.022E-07	1.507E-06	2200
62.0	4267	1.280E-06	3.841E-06	2200
64.0	7271	2.182E-06	6.545E-06	2200
66.0	5880	1.764E-06	5.293E-06	2200
68.0	4836	1.451E-06	4.353E-06	2200
70.0	1707	5.122E-07	1.537E-06	2200
T 72.0	1575	4.728E-07	1.413E-06	2200
74.0	1339	4.016E-07	1.205E-06	2200
76.0	924	2.775E-07	8.324E-07	2200
78.0	885	2.656E-07	7.969E-07	2200
80.0	1536	4.609E-07	1.383E-06	2200
E 82.0	3680	1.104E-06	3.312E-06	2200
84.0	8683	2.665E-06	7.816E-06	2200
86.0	7904	2.372E-06	7.115E-06	2200
E 88.0	5324	1.597E-06	4.792E-06	2200
90.0	3697	1.110E-06	3.329E-06	2200
92.0	1260	3.781E-07	1.134E-06	2200
94.0	300	9.003E-08	2.701E-07	2200
4 96.0	34	1.026E-08	3.078E-08	2200
4 98.0	11	3.307E-09	9.921E-09	2200
100.0	5	1.710E-09	5.130E-09	2200

CROSSWIND INTEGRATED= 1.538E-03 SEC/SQ.M  
4.614E-03 1/M

TEST U65 JUNE 27, 1968 0332 TO 0402 PST  
FLUORESCCEIN RELEASE FROM ELFVATION OF 2M  
3200M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SFC/CU.M	EJ/Q 1/SQ.M	DISTANCE METERS
U 48.0	201	6.043E-08	1.813E-07	3200
T 50.0	240	7.227E-08	2.168E-07	3200
52.0	359	1.078E-07	3.233E-07	3200
54.0	227	6.832E-08	2.050E-07	3200
T 56.0	201	6.043E-08	1.813E-07	3200
58.0	280	8.411E-08	2.523E-07	3200
60.0	885	2.656E-07	7.969E-07	3200
62.0	2243	6.730E-07	2.019E-06	3200
64.0	2464	7.394E-07	2.218E-06	3200
66.0	2116	6.350E-07	1.905E-06	3200
T 68.0	1420	4.263E-07	1.279E-06	3200
Z 70.0	484	1.453E-07	4.350E-07	3200
72.7	1564	4.695E-07	1.409E-06	3168
73.7	1161	3.464E-07	1.045E-06	3170
74.7	169	5.169E-08	1.527E-07	3172
75.7	667	2.003E-07	6.004E-07	3173
76.8	600	1.801E-07	5.404E-07	3175
77.8	452	1.357E-07	4.071E-07	3177
78.8	757	2.272E-07	6.817E-07	3179
79.8	1609	4.830E-07	1.449E-06	3180
80.8	2484	7.455E-07	2.236E-06	3182
81.8	4705	1.412E-06	4.235E-06	3184
82.8	4032	1.210E-06	3.630E-06	3185
83.8	4503	1.351E-06	4.054E-06	3187
84.8	6500	1.950E-06	5.851E-06	3189
85.8	3292	9.878E-07	2.963E-06	3191
86.8	5243	1.573E-06	4.720E-06	3192
87.8	3897	1.170E-06	3.509E-06	3194
88.8	3157	9.474E-07	2.842E-06	3196
89.8	1318	3.955E-07	1.186E-06	3198
90.8	936	2.811E-07	8.432E-07	3199
91.8	445	1.337E-07	4.010E-07	3201
92.8	186	5.609E-08	1.683E-07	3203
93.8	21	6.410E-09	1.923E-08	3205
94.8	56	1.699E-08	5.096E-08	3206
95.8	11	3.347E-09	1.019E-08	3208
96.8	1	3.205E-10	9.615E-10	3210

CROSSWIND INTEGRATED= 1.196E-03 SEC/SQ.M  
3.589E-03 1/M

TEST U65 JUNE 27, 1968 0332 TO 0402 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
5000M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SFC/CM	EU/Q 1/SQ.M	DISTANCE METERS
B 82.0	1211	3.932E-07	2.163E-06	4630
84.0	1101	3.575E-07	1.966E-06	4620
86.0	1421	4.614E-07	2.538E-06	4610
88.0	1030	3.344E-07	1.839E-06	4610
90.0	670	2.177E-07	1.198E-06	4610
92.0	57	1.861E-08	1.024E-07	4620
94.0	29	9.644E-09	5.304E-08	4620
96.0	29	9.644E-09	5.304E-08	4620
98.0	15	5.162E-09	2.839E-08	4650
100.0	10	3.396E-09	1.868E-08	4690

CROSSWIND INTEGRATED= 2.918E-04 SFC/SQ.M 1.605E-03 1/M

TEST U65 JUNE 27, 1968 0332 TO 0402 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
7000M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
B 76.0	191	6.208E-08	3.414E-07	6280
78.0	136	4.428E-08	2.436E-07	6300
80.0	89	2.907E-08	1.599E-07	6400
82.0	1895	6.153E-07	3.384E-06	6490
E 84.0	134	4.360E-08	2.398E-07	6500
86.0	74	2.431E-08	1.337E-07	6500
88.0	67	2.107E-08	1.203E-07	6480
90.0	165	5.379E-08	2.958E-07	6500
92.0	81	2.649E-08	1.457E-07	6490
94.0	18	6.113E-09	3.362E-08	6500
96.0	9	2.908E-09	1.644E-08	6510
98.0	7	2.581E-09	1.419E-08	6520
100.0	0	2.717E-10	1.494E-09	6560
102.0	0	2.717E-10	1.494E-09	6610

CROSSWIND INTEGRATED= 2.106E-04 SFC/SQ.M 1.158E-03 1/M

TEST U65 JUNE 27, 1968 0332 TO 0402 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
12800M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SFC/CM	EU/Q 1/SQ.M	DISTANCE METERS
B 91.0	137	4.469E-08	2.458E-07	12800
S 92.0	106	3.450E-08	1.898E-07	12800
93.0	5	1.637E-09	8.955E-09	12800
94.0	60	1.956E-08	1.076E-07	12800
95.0	74	2.404E-08	1.322E-07	12800
S 96.0	81	2.649E-08	1.457E-07	12800
I 97.0	0	2.717E-10	1.494E-09	12800
S 98.0	2	8.150E-10	4.483E-09	12800

CROSSWIND INTEGRATED= 3.396E-05 SEC/SQ.M 1.868E-04 1/M

TEST U65 JUNE 27, 1968 0332 TO 0402 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 2M  
5000M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
F 82.0	2035	6.107E-07	1.832E-06	4630
84.0	3087	9.264E-07	2.779E-06	4620
86.0	1640	4.923E-07	1.477E-06	4610
88.0	845	2.536E-07	7.608E-07	4610
90.0	444	1.332E-07	3.997E-07	4610
92.0	34	1.034E-08	3.103E-08	4620
94.0	16	4.801E-09	1.440E-08	4620
96.0	0	2.255E-10	6.765E-10	4620

CROSSWIND INTEGRATED= 3.920E-04 SEC/SQ.M 1.176E-03 1/M

TEST U65 JUNE 27, 1968 0332 TO 0402 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 2M  
7000M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SFC/CM	EU/Q 1/SQ.M	DISTANCE METERS
B 76.0	261	7.857E-08	2.357E-07	6280
78.0	182	5.490E-08	1.647E-07	6300
80.0	321	9.633E-08	2.890E-07	6400
82.0	1511	4.534E-07	1.360E-06	6490
E 84.0	965	2.897E-07	8.690E-07	6500
86.0	570	1.713E-07	5.139E-07	6500
88.0	235	7.068E-08	2.120E-07	6480
90.0	156	4.700E-08	1.410E-07	6500
3 92.0	54	1.623E-08	4.868E-08	6490
94.0	23	6.981E-09	2.094E-08	6500
96.0	2	6.671E-10	2.081E-09	6510
98.0	30	9.236E-09	2.771E-08	6520
100.0	1	4.698E-10	1.409E-09	6560

CROSSWIND INTEGRATED= 2.924E-04 SFC/SQ.M 8.772E-04 1/M

TEST U65 JUNE 27, 1968 0332 TO 0402 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 2M  
12800M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SFC/CM	EU/Q 1/SQ.M	DISTANCE METERS
E 91.0	255	7.667E-08	2.300E-07	12800
T 92.0	166	5.609E-08	1.683E-07	12800
3 93.0	46	1.409E-08	4.228E-08	12800
Z 94.0	105	3.166E-08	9.499E-08	12800
95.0	59	1.776E-08	5.327E-08	12800
T 96.0	74	2.227E-08	6.680E-08	12800
Z 97.0	0	0.	0.	12800

CROSSWIND INTEGRATED= 4.882E-05 SEC/SQ.M 1.465E-04 1/M

SAMPLING 400M TO 700M. NO TOWER SAMPLING. MUST ARCS TRUNCATED ON NORTH. SHEARED OR BIMODAL DISTRIBUTIONS. FAILURE OF SAMPLERS AT 410-ARC LEAVES THE 400M DATA ESSENTIALLY MEANINGLESS. IRREGULAR DISPERSAL RATE OF FLUORESCIN FOR ABOUT 5 MIN OF THE 30 MIN DISPERSAL PERIOD (NEAR ABOUT 0340 PST).

TEST U66 JUNE 28, 1968 0331 TO 0401 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
400M ARC SAMPLER HT 1.5M U= 3.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SFC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
B 46.0	225	7.314E-08	2.560E-07	400
50.0	274	8.908E-08	3.118E-07	400
54.0	1392	4.520E-07	1.582E-06	400
58.0	3143	1.021E-06	3.572E-06	400
I 62.0	3122	1.014E-06	3.548E-06	400
I 66.0	683	2.218E-07	7.762E-07	400
I 70.0	0	0.	0.	400
I 74.0	0	0.	0.	400
P 78.0	59	1.922E-08	6.728E-08	400
P 82.0	0	0.	0.	400
P 86.0	228	7.408E-08	2.593E-07	400
P 90.0	0	0.	0.	400
94.0	5660	1.838E-06	6.433E-06	400
98.0	4008	1.307E-06	4.555E-06	400
102.0	1462	4.749E-07	1.652E-06	400
106.0	1146	3.723E-07	1.303E-06	400
110.0	0	0.	0.	400

CROSSWIND INTEGRATED= 1.941E-04 SEC/SQ.M  
6.793E-04 1/M

TEST U66 JUNE 28, 1968 0331 TO 0401 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 2M  
400M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
B 46.0	44958	1.623E-05	2.272E-05	400
50.0	28012	1.011E-05	1.416E-05	400
54.0	20194	7.289E-06	1.021E-05	400
58.0	24968	1.082E-05	1.515E-05	400
I 62.0	26057	9.407E-06	1.317E-05	400
I 66.0	37789	1.364E-05	1.910E-05	400
I 70.0	56473	7.039E-05	2.854E-05	400
I 74.0	71640	2.588E-05	3.623E-05	400
P 78.0	257	9.287E-08	1.300E-07	400
P 82.0	592	2.138E-07	2.994E-07	400
P 86.0	603	2.177E-07	3.048E-07	400
P 90.0	103	3.746E-08	5.244E-08	400
94.0	139029	5.019E-05	7.027E-05	400
98.0	30371	2.901E-05	4.062E-05	400
102.0	33226	1.200E-05	1.679E-05	400
106.0	211	7.644E-08	1.070E-07	400
110.0	3	1.405E-09	1.967E-09	400

CROSSWIND INTEGRATED= 5.742E-03 SEC/SQ.M  
8.038E-03 1/M

TEST U66 JUNE 28, 1968 0331 TO 0401 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
800M ARC SAMPLER HT 1.5M U= 3.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
B 40.0	179	5.814E-08	2.035E-07	800
43.0	355	1.153E-07	4.037E-07	800
46.0	570	1.852E-07	6.482E-07	800
49.0	659	2.143E-07	7.499E-07	800
52.0	1185	3.849E-07	1.347E-06	800
55.0	3123	1.014E-06	3.549E-06	800
58.0	3402	1.105E-06	3.866E-06	800
61.0	3865	1.255E-06	4.393E-06	800
64.0	1591	5.167E-07	1.808E-06	800
67.0	2205	7.159E-07	2.506E-06	800
70.0	659	2.143E-07	7.499E-07	800
73.0	300	9.752E-08	3.413E-07	800
76.0	301	9.799E-08	3.430E-07	800
79.0	77	2.532E-08	8.851E-08	800
82.0	428	1.392E-07	4.874E-07	800
85.0	680	2.208E-07	7.729E-07	800
88.0	612	1.988E-07	6.958E-07	800
91.0	2186	7.098E-07	2.484E-06	800
94.0	918	2.982E-07	1.044E-06	800
97.0	7247	2.353E-06	8.236E-06	800
97.1	7786	2.528E-06	8.849E-06	806
99.1	4920	1.597E-06	5.591E-06	809
101.1	1274	4.138E-07	1.448E-06	813
103.0	1287	4.181E-07	1.463E-06	816
105.0	696	2.260E-07	7.910E-07	820
106.9	0	0.	0.	823

CROSSWIND INTEGRATED= 4.797E-04 SEC/SQ.M  
1.679E-03 1/M

TEST U66 JUNE 28, 1968 0331 TO 0401 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 2M  
800M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
B 40.0	33235	1.200E-05	1.680E-05	800
43.0	43012	1.553E-05	2.174E-05	800
46.0	38449	1.388E-05	1.943E-05	800
49.0	47574	1.717E-05	2.404E-05	800
52.0	33235	1.200E-05	1.680E-05	800
55.0	17353	6.265E-06	8.771E-06	800
58.0	7259	2.621E-06	3.669E-06	800
61.0	7486	2.703E-06	3.784E-06	800
64.0	5847	2.129E-06	2.981E-06	800
67.0	6351	2.293E-06	3.210E-06	800
70.0	6805	2.457E-06	3.439E-06	800
73.0	4989	1.801E-06	2.522E-06	800
76.0	7713	2.725E-06	3.898E-06	800
79.0	3740	1.350E-06	1.891E-06	800
82.0	11798	4.259E-06	5.963E-06	800
85.0	12768	4.609E-06	6.453E-06	800
88.0	16941	6.116E-06	8.563E-06	800
91.0	29325	1.059E-05	1.482E-05	800
94.0	22155	7.998E-06	1.120E-05	800
97.0	12813	4.626E-06	6.476E-06	800
97.1	20304	7.330E-06	1.026E-05	806
99.1	4208	1.519E-06	2.127E-06	809
101.1	117	4.259E-08	5.963E-08	813
103.0	1	5.043E-10	7.060E-10	816

CROSSWIND INTEGRATED= 5.637E-03 SEC/SQ.M  
7.892E-03 1/M

TEST U66 JUNE 28, 1968 0331 TO 0401 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 1200M ARC SAMPLER HT 1.5M U= 3.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
B 48.0	824	2.678E-07	9.372E-07	1200
50.0	1353	4.396E-07	1.539E-06	1200
52.0	1898	6.164E-07	2.157E-06	1200
54.0	2572	8.353E-07	2.923E-06	1200
56.0	4023	1.306E-06	4.573E-06	1200
58.0	4711	1.530E-06	5.354E-06	1200
60.0	5522	1.793E-06	6.275E-06	1200
62.0	4323	1.404E-06	4.913E-06	1200
Q 64.0	1209	3.928E-07	1.375E-06	1200
Q 66.0	1102	3.580E-07	1.253E-06	1200
68.0	1639	5.324E-07	1.863E-06	1200
70.0	1130	3.672E-07	1.285E-06	1200
72.0	1289	4.187E-07	1.465E-06	1200
74.0	941	3.057E-07	1.070E-06	1200
76.0	1204	3.910E-07	1.358E-06	1200
78.0	930	3.020E-07	1.057E-06	1200
80.0	523	1.700E-07	5.949E-07	1200
82.0	350	1.138E-07	3.981E-07	1200
84.0	407	1.323E-07	4.631E-07	1200
86.0	667	2.168E-07	7.588E-07	1200
88.0	716	2.325E-07	8.137E-07	1200
90.0	903	2.934E-07	1.027E-06	1200
92.0	1528	4.963E-07	1.737E-06	1200
94.0	3892	1.264E-06	4.424E-06	1200
96.0	3952	1.283E-06	4.491E-06	1200
98.0	5253	1.706E-06	5.964E-06	1200
100.0	1800	5.847E-07	2.047E-06	1200
102.0	75	2.458E-08	8.604E-08	1200
104.0	1	5.230E-10	1.831E-09	1200
106.0	1	5.230E-10	1.831E-09	1200
108.0	0	0.	0.	1200

CROSSWIND INTEGRATED= 7.447E-04 SEC/SQ.M 2.605E-03 1/M

TEST U66 JUNE 28, 1968 0331 TO 0401 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 1600M ARC SAMPLER HT 1.5M U= 3.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
B 48.0	539	1.752E-07	6.132E-07	1600
50.0	477	1.551E-07	5.428E-07	1600
52.0	1502	4.888E-07	1.708E-06	1600
54.0	400	1.300E-07	4.549E-07	1600
56.0	2748	8.925E-07	3.124E-06	1600
58.0	2022	6.566E-07	2.298E-06	1600
60.0	4163	1.352E-06	4.731E-06	1600
62.0	2833	9.200E-07	3.220E-06	1600
64.0	5704	1.852E-06	6.483E-06	1600
66.0	3063	9.948E-07	3.482E-06	1600
68.0	2532	8.222E-07	2.878E-06	1600
70.0	493	1.603E-07	5.611E-07	1600
72.0	1640	5.327E-07	1.864E-06	1600
74.0	915	2.973E-07	1.041E-06	1600
76.0	1661	5.395E-07	1.888E-06	1600
78.0	459	1.491E-07	5.217E-07	1600
80.0	1286	3.528E-07	1.235E-06	1600
82.0	276	8.970E-08	3.139E-07	1600
84.0	512	1.663E-07	5.821E-07	1600
86.0	96	3.138E-08	1.098E-07	1600
88.0	206	6.721E-08	2.352E-07	1600
90.0	292	9.493E-08	3.322E-07	1600
92.0	1540	5.000E-07	1.750E-06	1600
94.0	115	3.740E-08	1.309E-07	1600
94.6	534	1.737E-07	6.079E-07	1604
95.6	829	2.693E-07	9.426E-07	1606
96.6	892	2.898E-07	1.014E-06	1608
97.6	2154	6.997E-07	2.449E-06	1610
98.6	1809	5.874E-07	2.056E-06	1611
99.6	1304	4.235E-07	1.482E-06	1613
100.6	1136	3.689E-07	1.291E-06	1615
101.6	411	1.337E-07	4.679E-07	1617
102.6	369	1.200E-07	4.201E-07	1618
103.6	0	0.	0.	1620

CROSSWIND INTEGRATED= 7.244E-04 SEC/SQ.M 2.535E-03 1/M

TLST U66 JUNE 28, 1968 0331 TO 0401 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 2M  
 1200M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
b 48.0	15989	5.772E-06	6.081E-06	1200
50.0	16897	6.822E-06	9.551E-06	1200
52.0	27259	9.841E-06	1.378E-05	1200
54.0	30288	1.093E-05	1.531E-05	1200
56.0	31500	1.137E-05	1.592E-05	1200
58.0	30288	1.093E-05	1.531E-05	1200
60.0	14899	5.379E-06	7.530E-06	1200
62.0	5657	2.042E-06	2.859E-06	1200
F 64.0	5109	1.445E-06	2.582E-06	1200
H 66.0	5818	2.100E-06	2.941E-06	1200
68.0	4552	1.643E-06	2.301E-06	1200
70.0	3159	1.141E-06	1.597E-06	1200
72.0	3071	1.109E-06	1.552E-06	1200
74.0	2995	1.081E-06	1.514E-06	1200
76.0	3159	1.141E-06	1.597E-06	1200
78.0	1969	7.111E-07	9.955E-07	1200
80.0	1855	6.699E-07	9.379E-07	1200
82.0	2159	7.796E-07	1.091E-06	1200
84.0	3336	1.205E-06	1.687E-06	1200
86.0	2007	7.248E-07	1.015E-06	1200
88.0	2007	7.248E-07	1.015E-06	1200
90.0	2957	1.068E-06	1.495E-06	1200
92.0	3412	1.232E-06	1.725E-06	1200
94.0	4299	1.552E-06	2.173E-06	1200
96.0	3033	1.095E-06	1.533E-06	1200
98.0	1058	3.820E-07	5.349E-07	1200
100.0	79	2.877E-08	4.028E-08	1200
102.0	3	1.349E-09	1.889E-09	1200

CROSSWIND INTEGRATED= 3.491E-03 SEC/SQ.M 4.887E-03 1/M

TEST U66 JUNE 28, 1968 0331 TO 0401 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 2M  
 1600M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
R 48.0	11627	4.198E-06	5.877E-06	1600
50.0	11627	4.198E-06	5.877E-06	1600
52.0	21442	7.741E-06	1.084E-05	1600
54.0	15989	5.772E-06	8.081E-06	1600
56.0	24714	8.922E-06	1.249E-05	1600
58.0	17807	6.429E-06	9.000E-06	1600
60.0	13445	4.854E-06	6.795E-06	1600
62.0	8945	3.229E-06	4.521E-06	1600
64.0	4926	1.779E-06	2.490E-06	1600
66.0	3412	1.232E-06	1.725E-06	1600
68.0	2539	9.167E-07	1.283E-06	1600
Z 70.0	2121	7.659E-07	1.072E-06	1600
72.0	1248	4.506E-07	6.308E-07	1600
74.0	956	3.454E-07	4.836E-07	1600
76.0	1134	4.094E-07	5.732E-07	1600
78.0	860	3.134E-07	4.388E-07	1600
80.0	678	2.449E-07	3.428E-07	1600
82.0	476	1.722E-07	2.411E-07	1600
84.0	284	1.026E-07	1.436E-07	1600
86.0	108	3.922E-08	5.491E-08	1600
88.0	205	7.426E-08	1.040E-07	1600
90.0	320	1.156E-07	1.619E-07	1600
92.0	956	3.454E-07	4.836E-07	1600
94.0	766	2.769E-07	3.876E-07	1600
94.6	798	2.882E-07	4.035E-07	1604
95.6	1695	6.123E-07	8.572E-07	1606
Z 96.6	821	2.968E-07	4.155E-07	1608
97.6	1034	3.735E-07	5.229E-07	1610
4 98.6	335	1.211E-07	1.695E-07	1611
99.6	141	5.116E-08	7.163E-08	1613
100.6	0	8.527E-11	1.194E-10	1615

CROSSWIND INTEGRATED= 2.998E-03 SEC/SQ.M 4.197E-03 1/M



TEST U66 JUNE 28, 1968 0331 TO 0401 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
2200M ARC SAMPLER HT 1.5M U= 3.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
48.0	233	7.566E-08	2.648E-07	2200
50.0	287	9.332E-08	3.266E-07	2200
52.0	674	2.191E-07	7.669E-07	2200
54.0	1072	3.483E-07	1.219E-06	2200
56.0	1368	4.443E-07	1.555E-06	2200
58.0	2194	7.124E-07	2.494E-06	2200
60.0	3378	1.097E-06	3.839E-06	2200
62.0	5084	1.651E-06	5.777E-06	2200
64.0	7159	2.325E-06	8.136E-06	2200
66.0	9849	1.899E-06	6.647E-06	2200
68.0	5112	1.660E-06	5.809E-06	2200
70.0	4538	1.474E-06	5.157E-06	2200
72.0	3100	1.007E-06	3.523E-06	2200
74.0	2477	8.043E-07	2.815E-06	2200
76.0	2072	6.728E-07	2.355E-06	2200
78.0	1320	4.288E-07	1.501E-06	2200
80.0	885	2.874E-07	1.006E-06	2200
82.0	507	1.649E-07	5.772E-07	2200
84.0	568	1.846E-07	6.461E-07	2200
86.0	238	7.729E-08	2.705E-07	2200
88.0	131	4.279E-08	1.498E-07	2200
90.0	92	2.988E-08	1.046E-07	2200
92.0	66	2.160E-08	7.559E-08	2200
94.0	9	3.124E-09	1.093E-08	2200
96.0	0	0.	0.	2200
98.0	74	2.431E-08	8.510E-08	2200
100.0	1	4.075E-10	1.426E-09	2200
102.0	0	2.717E-10	9.508E-10	2200
104.0	0	0.	0.	2200

CROSSWIND INTEGRATED= 1.209E-03 SEC/SQ.M 4.232E-03 1/M.

TEST U66 JUNE 28, 1968 0331 TO 0401 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
3200M ARC SAMPLER HT 1.5M U= 3.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
48.0	0	0.	0.	3200
50.0	0	0.	0.	3200
52.0	5	1.907E-09	6.656E-09	3200
54.0	17	5.705E-09	1.997E-08	3200
56.0	7	2.309E-09	8.082E-09	3200
58.0	43	1.413E-08	4.944E-08	3200
60.0	165	5.379E-08	1.883E-07	3200
62.0	1134	3.642E-07	1.289E-06	3200
64.0	512	1.654E-07	5.824E-07	3200
66.0	673	2.186E-07	7.649E-07	3200
68.0	708	2.300E-07	8.049E-07	3200
70.0	1081	3.511E-07	1.229E-06	3200
72.7	1728	5.611E-07	1.964E-06	3168
73.7	1950	6.334E-07	2.217E-06	3170
74.7	799	2.535E-07	9.082E-07	3172
75.7	1320	4.286E-07	1.500E-06	3173
76.8	994	3.230E-07	1.130E-06	3175
77.8	923	2.998E-07	1.049E-06	3177
78.8	1420	4.611E-07	1.614E-06	3179
79.8	1872	6.079E-07	2.128E-06	3180
80.8	812	2.637E-07	9.228E-07	3182
81.8	613	1.992E-07	6.974E-07	3184
82.8	792	2.572E-07	9.001E-07	3185
83.8	612	1.988E-07	6.958E-07	3187
84.8	495	1.604E-07	5.622E-07	3189
85.8	672	2.192E-07	7.639E-07	3191
86.8	353	1.149E-07	4.022E-07	3192
87.8	449	1.460E-07	5.109E-07	3194
88.8	137	4.448E-08	1.557E-07	3196
89.8	181	5.885E-08	2.060E-07	3198
90.8	82	2.688E-08	9.406E-08	3199
91.8	189	6.163E-08	2.157E-07	3201
92.8	128	4.170E-08	1.450E-07	3203
93.8	0	0.	0.	3205

CROSSWIND INTEGRATED= 4.908E-04 SEC/SQ.M 1.718E-03 1/M

TEST U66 JUNE 28, 1968 0331 TO 0401 PST  
FLUORESCEN RELEASE FROM ELEVATION OF 2M  
2200M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
48.0	6224	2.247E-06	3.146E-06	2200
50.0	7356	2.656E-06	3.718E-06	2200
52.0	10189	3.678E-06	5.150E-06	2200
54.0	12266	4.428E-06	6.200E-06	2200
56.0	12455	4.496E-06	6.295E-06	2200
58.0	17077	4.360E-06	6.104E-06	2200
60.0	12077	4.360E-06	6.104E-06	2200
62.0	8867	3.201E-06	4.482E-06	2200
64.0	5657	2.042E-06	2.859E-06	2200
66.0	4831	1.744E-06	2.442E-06	2200
68.0	2649	9.565E-07	1.339E-06	2200
70.0	2301	8.309E-07	1.163E-06	2200
72.0	2522	9.108E-07	1.275E-06	2200
74.0	2333	8.423E-07	1.179E-06	2200
76.0	1492	5.387E-07	7.541E-07	2200
78.0	841	3.036E-07	4.251E-07	2200
80.0	374	1.351E-07	1.891E-07	2200
82.0	157	5.675E-08	7.945E-08	2200
84.0	216	7.812E-08	1.094E-07	2200
86.0	40	1.449E-08	2.029E-08	2200
88.0	5	2.148E-09	3.007E-09	2200
90.0	0	0.	0.	2200
92.0	0	0.	0.	2200
94.0	3	1.130E-09	1.583E-09	2200
96.0	5	1.809E-09	2.532E-09	2200

CROSSWIND INTEGRATED= 2.910E-03 SEC/SQ.M 4.073E-03 1/M

TEST U66 JUNE 28, 1968 0331 TO 0401 PST  
FLUORESCEN RELEASE FROM ELEVATION OF 2M  
3200M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
48.0	0	0.	0.	3200
50.0	12	4.635E-09	6.489E-09	3200
52.0	426	1.541E-07	2.157E-07	3200
54.0	781	2.823E-07	3.952E-07	3200
56.0	939	3.393E-07	4.750E-07	3200
58.0	1275	4.603E-07	6.445E-07	3200
60.0	2228	8.046E-07	1.126E-06	3200
62.0	2557	9.233E-07	1.293E-06	3200
64.0	2360	8.520E-07	1.193E-06	3200
66.0	2360	8.520E-07	1.193E-06	3200
68.0	2097	7.571E-07	1.060E-06	3200
70.0	1294	4.675E-07	6.544E-07	3200
72.7	1674	6.047E-07	8.466E-07	3168
73.7	1091	3.941E-07	5.518E-07	3170
74.7	133	4.321E-08	6.749E-08	3172
75.7	686	2.480E-07	3.472E-07	3173
76.8	334	1.207E-07	1.690E-07	3175
77.8	345	1.246E-07	1.744E-07	3177
78.8	238	8.600E-08	1.204E-07	3179
79.8	291	1.053E-07	1.474E-07	3180
80.8	117	4.242E-08	5.939E-08	3182
81.8	69	2.587E-08	3.509E-08	3184
82.8	88	3.201E-08	4.481E-08	3185
83.8	85	3.085E-08	4.319E-08	3187
84.8	69	2.507E-08	3.509E-08	3189
85.8	66	2.391E-08	3.347E-08	3191
86.8	59	1.427E-08	1.998E-08	3192
87.8	26	9.641E-09	1.350E-08	3194
88.8	32	1.157E-08	1.620E-08	3196
89.8	14	5.399E-09	7.559E-09	3198
90.8	10	3.779E-09	5.291E-09	3199

CROSSWIND INTEGRATED= 8.053E-04 SEC/SQ.M 1.127E-03 1/M

TEST U66 JUNE 28, 1968 0331 TO 0401 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 5000M ARC SAMPLER HT 1.5M U= 3.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
B 82.0	1087	3.532E-07	1.236E-06	4630
84.0	1	4.075E-10	1.426E-09	4620
86.0	133	4.333E-08	1.517E-07	4510
88.0	255	8.286E-08	2.900E-07	4610
90.0	196	6.371E-08	2.230E-07	4610
92.0	354	1.152E-07	4.032E-07	4620
94.0	45	1.467E-08	5.135E-08	4620
96.0	105	3.437E-08	1.203E-07	4620
98.0	5	1.630E-09	5.705E-09	4560
100.0	0	2.717E-10	9.508E-10	4690
102.0	0	0.	0.	4710

CROSSWIND INTEGRATED= 1.145E-04 SEC/SQ.M  
 4.007E-04 1/M

TEST U66 JUNE 28, 1968 0331 TO 0401 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 7000M ARC SAMPLER HT 1.5M U= 3.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
B 76.0	445	1.448E-07	5.068E-07	6280
S 78.0	540	1.755E-07	6.147E-07	6300
S 80.0	811	2.634E-07	9.218E-07	6400
S 82.0	1895	6.155E-07	2.154E-06	6490
E 84.0	2136	6.936E-07	2.427E-06	6500
86.0	691	2.247E-07	7.863E-07	6500
88.0	332	1.079E-07	3.775E-07	6480
90.0	287	9.345E-08	3.271E-07	6500
92.0	49	1.663E-08	5.610E-08	6490
94.0	24	8.014E-09	2.805E-08	6500
96.0	0	0.	0.	6510

CROSSWIND INTEGRATED= 5.280E-04 SEC/SQ.M  
 1.848E-03 1/M

TEST U66 JUNE 28, 1968 0331 TO 0401 PST  
 FLUORESCCEIN RELEASE FROM ELEVATION OF 2M  
 5000M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
R 82.0	271	9.797E-08	1.372E-07	4630
Z 84.0	3	1.311E-09	1.836E-09	4620
86.0	56	2.053E-08	2.874E-08	4610
88.0	26	9.677E-09	1.355E-08	4610
90.0	42	1.544E-08	2.162E-08	4610
92.0	17	6.399E-09	8.958E-09	4620
94.0	0	2.826E-10	3.957E-10	4620
96.0	14	5.268E-09	7.375E-09	4620

CROSSWIND INTEGRATED= 2.532E-05 SEC/SQ.M  
 3.544E-05 1/M

TEST U66 JUNE 28, 1968 0331 TO 0401 PST  
 FLUORESCCEIN RELEASE FROM ELEVATION OF 2M  
 7000M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
R 76.0	384	1.389E-07	1.945E-07	6280
S 78.0	378	1.366E-07	1.912E-07	6300
S 80.0	266	9.619E-08	1.347E-07	6400
S 82.0	463	1.674E-07	2.344E-07	6490
E 84.0	411	1.484E-07	2.078E-07	6500
Z 86.0	101	3.660E-08	5.125E-08	6500
88.0	62	2.260E-08	3.164E-08	6480
Z 90.0	35	1.276E-08	1.787E-08	6500
1 92.0	11	4.205E-09	5.998E-09	6490
3 94.0	17	6.206E-09	8.689E-09	6500

CROSSWIND INTEGRATED= 1.723E-04 SEC/SQ.M  
 2.412E-04 1/M

SAMPLING 400M TO 700M. NO TOWERS. SAMPLER FAILURE IN MIDDLE OF 400M ARC LEAVES DATA HERE OF MINIMAL VALUE  
 SOME QUESTION ON THE MASS OF FLUORESCIN EMITTED BECAUSE OF DISPERSAL PROBLEMS.  
 500M AND 700M ARCS TRUNCATED ON NORTH

TEST U67 JULY 15, 1968 0313 TO 0343 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 400M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>3</sup> X10E+6	E/Q SEC/CM <sup>3</sup>	EU/Q 1/SQ.M	DISTANCE METERS
66.0	0	0.	0.	400
70.0	116	3.595E-08	1.578E-07	400
74.0	2551	7.826E-07	3.443E-06	400
E 78.0	10600	3.252E-06	1.431E-05	400
E 82.0	27118	8.319E-06	3.660E-05	400
E 86.0	32724	1.004E-05	4.417E-05	400
E 90.0	16831	5.163E-06	2.272E-05	400
94.0	31168	9.561E-06	4.207E-05	400
98.0	12808	3.929E-06	1.729E-05	400
102.0	1793	5.501E-07	2.421E-06	400
106.0	83	2.573E-08	1.132E-07	400
110.0	0	0.	0.	400

CROSSWIND INTEGRATED= 1.163E-03 SEC/SQ.M 5.118E-03 1/M

TEST U67 JULY 15, 1968 0313 TO 0343 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 2M  
 400M ARC SAMPLER HT 1.5M U= 2.3 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>3</sup> X10E+6	E/Q SEC/CM <sup>3</sup>	EU/Q 1/SQ.M	DISTANCE METERS
58.0	25	8.727E-09	2.007E-08	400
62.0	33	1.128E-08	2.595E-08	400
66.0	52	1.767E-08	4.065E-08	400
70.0	6732	2.275E-06	5.231E-06	400
74.0	33889	1.145E-05	2.633E-05	400
E 78.0	15455	5.221E-06	1.201E-05	400
F 82.0	7079	2.392E-06	5.501E-06	400
E 86.0	3470	1.172E-06	2.697E-06	400
E 90.0	1495	5.053E-07	1.162E-06	400
94.0	2789	9.424E-07	2.168E-06	400
98.0	90	3.067E-08	7.055E-08	400
102.0	2	8.033E-10	1.846E-09	400

CROSSWIND INTEGRATED= 6.709E-04 SEC/SQ.M 1.543E-03 1/M

TEST U67 JULY 15, 1968 0313 TO 0343 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 800M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>3</sup> X10E+5	E/Q SEC/CM <sup>3</sup>	EU/Q 1/SQ.M	DISTANCE METERS
67.0	0	0.	0.	800
70.0	13	4.219E-09	1.856E-08	800
73.0	2372	7.777E-07	3.202E-06	800
76.0	20552	6.304E-06	2.774E-05	800
79.0	41442	1.272E-05	5.599E-05	800
82.0	57756	1.772E-05	7.795E-05	800
85.0	14094	4.323E-06	1.902E-05	800
88.0	12299	3.773E-06	1.660E-05	800
91.0	28710	8.807E-06	3.875E-05	800
94.0	27291	8.372E-06	3.684E-05	800
97.0	19518	5.987E-06	2.634E-05	800
97.1	28799	8.834E-06	3.887E-05	806
99.1	13689	4.199E-06	1.848E-05	809
101.1	4888	1.500E-06	6.599E-06	813
103.0	1120	3.437E-07	1.512E-06	816
105.0	366	1.125E-07	4.952E-07	820
106.9	71	2.202E-08	9.688E-08	823
108.8	0	0.	0.	826

CROSSWIND INTEGRATED= 3.062E-03 SEC/SQ.M 1.347E-02 1/M

TEST U67 JULY 15, 1968 0313 TO 0343 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 2M  
 800M ARC SAMPLER HT 1.5M U= 2.3 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>3</sup> X10E+6	E/Q SEC/CM <sup>3</sup>	EU/Q 1/SQ.M	DISTANCE METERS
67.0	0	0.	0.	800
70.0	153	5.194E-08	1.195E-07	800
73.0	9304	3.143E-06	7.230E-06	800
76.0	15432	5.214E-06	1.199E-05	800
79.0	10212	3.450E-06	7.935E-06	800
82.0	5377	1.817E-06	4.179E-06	800
85.0	1564	5.285E-07	1.216E-06	800
88.0	583	1.972E-07	4.536E-07	800
91.0	1042	3.521E-07	8.099E-07	800
94.0	747	2.524E-07	5.806E-07	800
97.0	120	4.074E-08	9.281E-08	800
97.1	1066	3.603E-07	8.288E-07	806
99.1	174	5.905E-08	1.358E-07	809
101.1	0	0.	0.	813

CROSSWIND INTEGRATED= 6.365E-04 SEC/SQ.M 1.464E-03 1/M

TEST U67 JULY 15, 1968 0313 TO 0343 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 1200M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>3</sup> X10E+6	E/Q SEC/CM <sup>3</sup>	EU/Q 1/SQ.M	DISTANCE METERS
70.0	0	0.	0.	1200
72.0	860	2.639E-07	1.161E-06	1200
74.0	7360	2.258E-06	9.934E-06	1200
76.0	19545	5.996E-06	2.638E-05	1200
78.0	40055	1.229E-05	5.406E-05	1200
80.0	39240	1.204E-05	5.296E-05	1200
82.0	29174	8.949E-06	3.938E-05	1200
84.0	11852	3.636E-06	1.600E-05	1200
86.0	7691	2.359E-06	1.038E-05	1200
88.0	9765	2.996E-06	1.318E-05	1200
90.0	19281	5.915E-06	2.602E-05	1200
92.0	21961	6.737E-06	2.964E-05	1200
94.0	26056	7.993E-06	3.517E-05	1200
96.0	18693	5.734E-06	2.523E-05	1200
98.0	12108	3.714E-06	1.634E-05	1200
100.0	3269	1.003E-06	4.413E-06	1200
102.0	1283	3.938E-07	1.733E-06	1200
104.0	266	8.178E-08	3.598E-07	1200
106.0	0	0.	0.	1200

CROSSWIND INTEGRATED= 3.450E-03 SEC/SQ.M  
 1.518E-02 1/M

TEST U67 JULY 15, 1968 0313 TO 0343 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 1600M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>3</sup> X10E+6	E/Q SEC/CM <sup>3</sup>	EU/Q 1/SQ.M	DISTANCE METERS
66.0	0	0.	0.	1500
68.0	16	4.941E-09	2.174E-08	1500
70.0	427	1.312E-07	5.772E-07	1600
72.0	2219	6.809E-07	2.996E-06	1600
74.0	6487	1.993E-06	8.755E-06	1500
76.0	14276	4.379E-06	1.927E-05	1500
78.0	19353	5.937E-06	2.612E-05	1600
80.0	9316	2.858E-06	1.257E-05	1600
82.0	14700	4.509E-06	1.984E-05	1600
84.0	3503	1.075E-06	4.729E-06	1600
86.0	4072	1.249E-06	5.496E-06	1500
88.0	2706	8.301E-07	3.653E-06	1600
90.0	5703	1.749E-06	7.698E-06	1600
92.0	9554	2.931E-06	1.290E-05	1600
93.6	25369	7.782E-06	3.424E-05	1603
94.0	6081	1.565E-06	8.208E-06	1600
94.6	15593	4.785E-06	2.105E-05	1504
95.6	13919	4.277E-06	1.879E-05	1606
96.6	15119	4.638E-06	2.041E-05	1608
97.6	14003	4.295E-06	1.890E-05	1610
98.6	9527	2.923E-06	1.286E-05	1611
99.6	3898	1.196E-06	5.262E-06	1613
100.6	3675	1.127E-06	4.950E-06	1515
101.6	1996	6.125E-07	2.695E-06	1617
102.6	1024	3.142E-07	1.382E-06	1618
103.6	335	1.030E-07	4.530E-07	1620
104.5	131	4.048E-08	1.781E-07	1622
105.5	0	0.	0.	1623

CROSSWIND INTEGRATED= 2.465E-03 SEC/SQ.M  
 1.084E-02 1/M

TEST U67 JULY 15, 1968 0313 TO 0343 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 2M  
 1200M ARC SAMPLER HT 1.5M U= 2.3 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>3</sup> X10E+6	E/Q SEC/CM <sup>3</sup>	EU/Q 1/SQ.M	DISTANCE METERS
66.0	8	2.811E-09	6.464E-09	1200
68.0	9	3.361E-09	7.729E-09	1200
70.0	21	7.373E-09	1.696E-08	1200
72.0	986	3.332E-07	7.665E-07	1200
74.0	4050	1.368E-06	3.147E-06	1200
76.0	6708	2.266E-06	5.213E-06	1200
78.0	4429	1.497E-06	3.442E-06	1200
80.0	1670	5.642E-07	1.298E-06	1200
82.0	1024	3.461E-07	7.960E-07	1200
84.0	167	5.666E-08	1.303E-07	1200
86.0	116	3.935E-08	9.050E-08	1200
88.0	111	3.752E-08	8.629E-08	1200
90.0	288	9.739E-08	2.240E-07	1200
92.0	312	1.055E-07	2.427E-07	1200
94.0	384	1.300E-07	2.990E-07	1200
96.0	179	6.073E-08	1.397E-07	1200
98.0	28	9.613E-09	2.211E-08	1200
100.0	0	1.018E-10	2.342E-10	1200

CROSSWIND INTEGRATED= 2.901E-04 SEC/SQ.M  
 6.672E-04 1/M

TEST U67 JULY 15, 1968 0313 TO 0343 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 2M  
 1600M ARC SAMPLER HT 1.5M U= 2.3 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>3</sup> X10E+6	E/Q SEC/CM <sup>3</sup>	EU/Q 1/SQ.M	DISTANCE METERS
62.0	4	1.426E-09	3.279E-09	1600
64.0	6	2.342E-09	5.367E-09	1600
66.0	6	2.811E-09	5.247E-09	1600
68.0	12	4.359E-09	1.002E-08	1600
70.0	454	1.536E-07	3.532E-07	1600
72.0	2467	8.336E-07	1.917E-06	1600
74.0	5062	1.710E-06	3.934E-06	1600
76.0	2695	9.106E-07	2.094E-06	1600
78.0	2087	7.053E-07	1.622E-06	1600
80.0	910	3.075E-07	7.073E-07	1600
82.0	312	1.055E-07	2.427E-07	1600
84.0	288	9.739E-08	2.239E-07	1600
86.0	67	2.811E-08	5.247E-08	1600
88.0	42	1.426E-08	3.279E-08	1600
90.0	109	3.646E-08	8.479E-08	1600
92.0	294	9.939E-08	2.286E-07	1600
93.6	372	1.259E-07	2.896E-07	1603
94.0	233	7.907E-08	1.818E-07	1600
94.6	138	4.692E-08	1.079E-07	1604
95.6	231	7.804E-08	1.795E-07	1606
96.6	40	1.365E-08	3.139E-08	1608
97.6	105	3.575E-08	8.223E-08	1610
98.6	1	6.384E-10	1.468E-09	1611

CROSSWIND INTEGRATED= 2.884E-04 SEC/SQ.M  
 6.633E-04 1/M

TEST U67 JULY 15, 1968 0313 TO 0343 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
2200M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
66.0	0	0.	0.	2200
68.0	175	3.837E-08	1.688E-07	2200
70.0	251	7.700E-08	3.388E-07	2200
72.0	3339	1.024E-06	4.507E-06	2200
74.0	6833	2.096E-06	9.223E-06	2200
76.0	9879	3.030E-06	1.333E-05	2200
78.0	10294	3.158E-06	1.389E-05	2200
80.0	8338	2.558E-06	1.125E-05	2200
82.0	4176	1.281E-06	5.637E-06	2200
84.0	4266	1.309E-06	5.758E-06	2200
86.0	820	2.518E-07	1.108E-06	2200
88.0	3771	1.157E-06	5.090E-06	2200
90.0	1904	5.843E-07	2.571E-06	2200
92.0	5759	1.767E-06	7.774E-06	2200
94.0	5251	1.611E-06	7.088E-06	2200
96.0	4392	1.347E-06	5.928E-06	2200
98.0	1386	4.254E-07	1.872E-06	2200
100.0	1533	4.703E-07	2.070E-06	2200
102.0	222	6.815E-08	2.998E-07	2200
104.0	0	2.567E-10	1.129E-09	2200
106.0	0	0.	0.	2200

CROSSWIND INTEGRATED= 1.709E-03 SEC/SQ.M 7.520E-03 1/M

TEST U67 JULY 15, 1968 0313 TO 0343 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
3200M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
64.0	0	0.	0.	3200
66.0	0	2.567E-10	1.129E-09	3200
68.0	788	2.419E-07	1.064E-06	3200
70.0	2006	6.155E-07	2.709E-06	3200
72.7	8936	2.741E-06	1.206E-05	3168
73.7	11240	3.448E-06	1.517E-05	3170
74.7	15039	4.613E-06	2.030E-05	3172
75.7	15419	4.730E-06	2.061E-05	3173
76.8	14770	4.531E-06	1.994E-05	3175
77.8	14274	4.379E-06	1.927E-05	3177
78.8	12710	3.899E-06	1.715E-05	3179
79.8	12757	3.913E-06	1.722E-05	3180
80.8	10058	3.085E-06	1.358E-05	3182
81.8	9609	2.948E-06	1.297E-05	3184
82.8	5964	1.830E-06	8.050E-06	3185
83.8	5090	1.551E-06	6.870E-06	3187
84.8	4683	1.437E-06	6.322E-06	3189
85.8	4624	1.418E-06	6.241E-06	3191
86.8	5536	1.698E-06	7.472E-06	3192
87.8	6640	1.853E-06	8.153E-06	3194
88.8	4988	1.530E-06	6.733E-06	3196
89.8	6482	1.998E-06	8.749E-06	3198
90.8	4745	1.456E-06	6.404E-06	3199
91.8	4401	1.350E-06	5.940E-06	3201
92.8	7320	2.746E-06	9.881E-06	3203
93.8	8363	2.565E-06	1.129E-05	3205
94.8	8412	2.580E-06	1.135E-05	3206
95.8	6615	2.029E-06	8.929E-06	3208
96.8	6423	1.970E-06	8.670E-06	3210
97.8	4910	1.506E-06	6.628E-06	3212
98.8	3302	1.013E-06	4.458E-06	3213
99.8	347	1.067E-07	4.696E-07	3215
100.8	218	6.713E-08	2.954E-07	3217
101.8	10	3.335E-09	1.468E-08	3218

CROSSWIND INTEGRATED= 4.072E-03 SEC/SQ.M 1.792E-02 1/M

TEST U67 JULY 15, 1968 0313 TO 0343 PST  
FLUORESCENCE RELEASE FROM ELEVATION OF 2M  
2200M ARC SAMPLER HT 1.5M U= 2.3 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
66.0	2	8.252E-10	1.898E-09	2200
68.0	86	2.937E-08	6.755E-08	2200
70.0	0	9.521E-11	2.190E-10	2200
72.0	1360	4.596E-07	1.057E-06	2200
74.0	2169	7.329E-07	1.686E-06	2200
76.0	1643	5.552E-07	1.277E-06	2200
78.0	1064	3.596E-07	8.272E-07	2200
80.0	299	1.013E-07	2.330E-07	2200
82.0	190	6.428E-08	1.478E-07	2200
84.0	50	1.720E-08	3.956E-08	2200
86.0	15	5.353E-09	1.231E-08	2200
88.0	35	1.212E-08	2.788E-08	2200
90.0	27	9.267E-09	2.131E-08	2200
92.0	124	4.206E-08	9.674E-08	2200
94.0	133	4.524E-08	1.040E-07	2200
96.0	50	1.720E-08	3.956E-08	2200
98.0	33	1.117E-08	2.569E-08	2200
100.0	1	6.347E-10	1.460E-09	2200

CROSSWIND INTEGRATED= 1.892E-04 SEC/SQ.M 4.351E-04 1/M

TEST U67 JULY 15, 1968 0313 TO 0343 PST  
FLUORESCENCE RELEASE FROM ELEVATION OF 2M  
3200M ARC SAMPLER HT 1.5M U= 2.3 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
66.0	1	5.395E-10	1.241E-09	3200
68.0	224	7.585E-08	1.745E-07	3200
70.0	847	2.863E-07	6.584E-07	3200
72.7	1614	5.453E-07	1.254E-06	3168
73.7	1367	4.620E-07	1.063E-06	3170
74.7	1614	5.453E-07	1.254E-06	3172
75.7	1502	5.074E-07	1.167E-06	3173
76.8	1035	3.497E-07	8.044E-07	3175
77.8	736	2.487E-07	5.720E-07	3177
78.8	501	1.693E-07	3.894E-07	3179
79.8	757	2.559E-07	5.886E-07	3180
80.8	319	1.079E-07	2.482E-07	3182
81.8	130	4.406E-08	1.013E-07	3184
82.8	38	1.302E-08	2.995E-08	3185
83.8	34	1.158E-08	2.663E-08	3187
84.8	37	1.266E-08	2.912E-08	3189
85.8	16	5.731E-09	1.318E-08	3191
86.8	16	5.514E-09	1.268E-08	3192
87.8	55	1.880E-08	4.323E-08	3194
88.8	10	3.457E-09	7.952E-09	3196
89.8	16	5.731E-09	1.318E-08	3198
90.8	20	6.814E-09	1.567E-08	3199
91.8	34	1.158E-08	2.663E-08	3201
92.8	48	1.627E-08	3.742E-08	3203
93.8	79	2.673E-08	6.149E-08	3205
94.8	82	2.782E-08	6.398E-08	3206
95.8	49	1.663E-08	3.825E-08	3208
96.8	37	1.266E-08	2.912E-08	3210
97.8	9	3.241E-09	7.454E-09	3212
98.8	1	6.424E-10	1.477E-09	3213

CROSSWIND INTEGRATED= 2.644E-04 SEC/SQ.M 6.082E-04 1/M

TEST U67 JULY 15, 1968 0313 TO 0343 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 5000M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SFC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
B 82.0	6070	1.862E-06	8.193E-06	4630
84.0	961	2.950E-07	1.298E-06	4620
86.0	2242	6.879E-07	3.027E-06	4610
88.0	675	2.073E-07	9.119E-07	4610
90.0	968	2.970E-07	1.307E-06	4610
92.0	347	1.065E-07	4.687E-07	4620
94.0	1003	3.079E-07	1.355E-06	4620
96.0	402	1.236E-07	5.438E-07	4620
98.0	717	2.231E-07	9.684E-07	4650
100.0	46	1.412E-08	6.211E-08	4690
102.0	4	1.283E-09	5.647E-09	4710

CROSSWIND INTEGRATED= 6.654E-04 SEC/SQ.M 2.928E-03 1/M

TEST U67 JULY 15, 1968 0313 TO 0343 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 7000M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
B 76.0	2641	8.104E-07	3.566E-06	6240
78.0	5235	1.625E-06	7.056E-06	6300
80.0	1797	5.513E-07	2.426E-06	6400
82.0	3310	1.016E-06	4.468E-06	6490
84.0	1249	3.832E-07	1.680E-06	6500
86.0	449	1.380E-07	6.070E-07	6500
88.0	647	1.985E-07	8.735E-07	6480
90.0	239	7.354E-08	3.236E-07	6500
92.0	698	2.142E-07	9.424E-07	6490
94.0	714	2.192E-07	9.645E-07	6500
96.0	616	1.892E-07	8.323E-07	6510
98.0	219	6.738E-08	2.965E-07	6520
100.0	9	2.823E-09	1.242E-08	6560
102.0	11	3.593E-09	1.581E-08	6610
104.0	5	1.540E-09	6.776E-09	6650
106.0	4	1.283E-09	5.647E-09	6720
108.0	0	0.	0.	6800

CROSSWIND INTEGRATED= 1.223E-03 SEC/SQ.M 5.379E-03 1/M

TEST U67 JULY 15, 1968 0313 TO 0343 PST  
 FLUORESCCEIN RELEASE FROM ELEVATION OF 2M  
 5000M ARC SAMPLER HT 1.5M U= 2.3 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SFC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
B 82.0	227	7.690E-08	1.769E-07	4630
84.0	133	4.516E-08	1.039E-07	4620
86.0	58	1.967E-08	4.523E-08	4610
88.0	14	4.967E-09	1.141E-08	4610
90.0	9	3.375E-09	7.762E-09	4610
1 92.0	22	7.606E-09	1.749E-08	4620
94.0	12	4.327E-09	9.952E-09	4620
96.0	30	1.046E-08	2.406E-08	4620
98.0	4	1.449E-09	3.333E-09	4660
100.0	0	1.164E-10	2.677E-10	4690

CROSSWIND INTEGRATED= 2.808E-05 SEC/SQ.M 6.459E-05 1/M

TEST U67 JULY 15, 1968 0313 TO 0343 PST  
 FLUORESCCEIN RELEASE FROM ELEVATION OF 2M  
 7000M ARC SAMPLER HT 1.5M U= 2.3 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
B 76.0	426	1.442E-07	3.316E-07	6280
78.0	347	1.175E-07	2.703E-07	6300
80.0	290	9.414E-08	2.257E-07	6400
82.0	249	8.439E-08	1.941E-07	6490
84.0	155	5.265E-08	1.211E-07	6500
86.0	38	1.309E-08	3.010E-08	6500
88.0	34	1.182E-08	2.718E-08	6480
90.0	14	5.046E-09	1.161E-08	6500
92.0	5	1.756E-09	4.039E-09	6490
94.0	7	2.401E-09	5.523E-09	6500
96.0	3	1.312E-09	3.017E-09	6510
98.0	2	8.675E-10	1.995E-09	6520
100.0	1	3.914E-10	9.003E-10	6560
102.0	0	2.433E-10	5.596E-10	6610
2 104.0	2	9.310E-10	2.141E-09	6650

CROSSWIND INTEGRATED= 1.190E-04 SEC/SQ.M 2.737E-04 1/M

SAMPLING FROM 400M TO 1200M, NO TOWER SAMPLING. BIMODAL DISTRIBUTIONS.  
 ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER EXCEPT 700M ARC. ALSO, ALTHOUGH 1200M ARC DROPS TO BACKGROUND  
 VALUES AT NORTH EXTREMITY OF SAMPLING, THERE MAY HAVE BEEN MORE TRACER NORTH OF THE SAMPLERS.

TEST U68 JULY 16, 1968 0310 TO 0340 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 400M ARC SAMPLER HT 1.5M U = 4.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	E/Q 1/SQ.M	DISTANCE METERS
78.0	0	0.	0.	400
82.0	53	1.708E-08	8.028E-08	400
86.0	970	3.097E-07	1.453E-06	400
90.0	14762	4.701E-06	2.210E-05	400
94.0	24045	7.658E-06	3.599E-05	400
98.0	19367	6.168E-06	2.899E-05	400
102.0	9716	3.094E-06	1.454E-05	400
106.0	13557	4.318E-06	2.029E-05	400
110.0	59432	1.893E-05	8.896E-05	400
114.0	24176	7.700E-06	3.619E-05	400
118.0	3372	1.074E-06	5.048E-06	400
122.0	22	7.008E-09	3.294E-08	400
126.0	1	4.380E-10	2.059E-09	400
130.0	9	3.066E-09	1.441E-08	400
134.0	0	0.	0.	400

CROSSWIND INTEGRATED = 1.507E-03 SEC/SQ.M  
 7.084E-03 1/M

TEST U68 JULY 16, 1968 0310 TO 0340 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 800M ARC SAMPLER HT 1.5M U = 4.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	E/Q 1/SQ.M	DISTANCE METERS
82.0	0	0.	0.	800
85.0	70	2.234E-08	1.050E-07	800
88.0	1793	5.724E-07	2.693E-06	800
91.0	12405	3.951E-06	1.857E-05	800
94.0	19643	6.256E-06	2.940E-05	800
97.0	33262	1.060E-05	4.982E-05	800
97.1	40902	1.303E-05	6.122E-05	806
99.1	21190	6.747E-06	3.171E-05	809
101.1	19563	6.230E-06	2.928E-05	813
103.0	15352	4.902E-06	2.304E-05	816
105.0	11077	3.528E-06	1.658E-05	820
106.9	42445	1.352E-05	6.353E-05	823
108.8	108521	3.455E-05	1.624E-04	826
110.7	135666	4.321E-05	2.031E-04	829
112.6	97982	3.120E-05	1.467E-04	833
114.5	48179	1.534E-05	7.212E-05	836
116.4	5590	1.781E-06	8.368E-06	839
118.3	131	4.191E-08	1.970E-07	842
120.2	0	0.	0.	845

CROSSWIND INTEGRATED = 5.313E-03 SEC/SQ.M  
 2.497E-02 1/M

TEST U68 JULY 16, 1968 0310 TO 0340 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 2M  
 400M ARC SAMPLER HT 1.5M U = 2.4 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	E/Q 1/SQ.M	DISTANCE METERS
74.0	1	5.404E-10	1.297E-09	400
78.0	148	4.627E-08	1.111E-07	400
82.0	17593	5.498E-06	1.319E-05	400
86.0	119485	3.734E-05	8.961E-05	400
90.0	108622	3.394E-05	8.147E-05	400
94.0	46922	1.466E-05	3.519E-05	400
98.0	30628	9.571E-06	2.297E-05	400
102.0	110795	3.462E-05	8.310E-05	400
106.0	417124	1.304E-04	3.128E-04	400
110.0	521406	1.629E-04	3.911E-04	400
114.0	143383	4.481E-05	1.075E-04	400
118.0	1380	4.313E-07	1.035E-06	400
122.0	19	6.080E-09	1.459E-08	400
126.0	73	2.297E-08	5.512E-08	400
130.0	28	8.762E-09	2.188E-08	400
134.0	8	2.702E-09	6.485E-09	400
138.0	13	4.222E-09	1.013E-08	400
142.0	13	4.222E-09	1.013E-08	400

CROSSWIND INTEGRATED = 1.324E-02 SEC/SQ.M  
 3.179E-02 1/M

TEST U68 JULY 16, 1968 0310 TO 0340 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 2M  
 800M ARC SAMPLER HT 1.5M U = 2.4 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	E/Q 1/SQ.M	DISTANCE METERS
82.0	519	1.625E-07	3.899E-07	800
85.0	4339	2.919E-06	7.005E-06	800
88.0	49966	1.561E-05	3.747E-05	800
91.0	54311	1.697E-05	4.073E-05	800
94.0	27371	8.554E-06	2.055E-05	800
97.0	17595	5.499E-06	1.320E-05	800
97.1	20612	6.441E-06	1.546E-05	806
99.1	17356	5.424E-06	1.302E-05	809
101.1	27847	9.702E-06	2.089E-05	813
103.0	18442	5.763E-06	1.383E-05	816
105.0	56146	1.755E-05	4.211E-05	820
106.9	201570	6.299E-05	1.512E-04	823
108.8	237566	7.424E-05	1.782E-04	826
110.7	143977	4.499E-05	1.080E-04	829
112.6	64785	2.025E-05	4.859E-05	833
114.5	11049	3.453E-06	8.287E-06	836
116.4	669	2.093E-07	5.023E-07	839
118.3	26	8.171E-09	1.961E-08	842
120.2	5	1.567E-09	3.761E-09	845
122.1	8	2.798E-09	6.716E-09	848
124.0	136	4.259E-08	1.021E-07	851

CROSSWIND INTEGRATED = 8.762E-03 SEC/SQ.M  
 2.103E-02 1/M

TEST U69 JULY 16, 1968 0310 TO 0340 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
1200M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
84.0	0	0.	0.	1200
86.0	95	3.027E-08	1.423E-07	1200
88.0	1166	3.714E-07	1.746E-06	1200
90.0	6420	2.045E-06	9.611E-06	1200
92.0	10524	3.352E-06	1.575E-05	1200
94.0	22975	7.317E-06	3.439E-05	1200
96.0	28793	9.170E-06	4.310E-05	1200
98.0	24308	7.742E-06	3.639E-05	1200
100.0	16066	5.117E-06	2.405E-05	1200
102.0	15223	4.848E-06	2.279E-05	1200
104.0	9965	3.174E-06	1.492E-05	1200
106.0	11722	3.733E-06	1.755E-05	1200
108.0	44186	1.407E-05	6.614E-05	1200
110.0	92220	2.937E-05	1.388E-04	1200
112.0	68767	2.190E-05	1.029E-04	1200
114.0	25562	8.141E-06	3.826E-05	1200
116.0	731	2.329E-07	1.095E-06	1200
118.0	111	3.565E-08	1.676E-07	1200
120.0	14	4.617E-09	2.170E-08	1200
122.0	0	0.	0.	1200

CROSSWIND INTEGRATED= 5.054E-03 SEC/SQ.M 2.375E-02 1/M

TEST U68 JULY 16, 1968 0310 TO 0340 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
1600M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
84.0	0	0.	0.	1600
86.0	18	5.900E-09	2.773E-08	1600
88.0	340	1.088E-07	5.100E-07	1600
90.0	2190	6.977E-07	3.279E-06	1600
92.0	6275	1.799E-06	9.394E-06	1600
93.6	14829	4.723E-06	2.220E-05	1600
94.0	10300	3.440E-06	1.617E-05	1600
94.6	16499	5.254E-06	2.470E-05	1600
95.6	14544	4.646E-06	2.184E-05	1606
96.6	18805	5.989E-06	2.815E-05	1606
97.6	22231	7.060E-06	3.328E-05	1610
98.6	16413	5.227E-06	2.457E-05	1611
99.6	20727	6.661E-06	3.103E-05	1613
100.6	16940	5.395E-06	2.536E-05	1615
101.6	15553	4.955E-06	2.329E-05	1617
102.6	9318	2.968E-06	1.395E-05	1618
103.6	9341	2.975E-06	1.395E-05	1620
104.5	7974	2.518E-06	1.163E-05	1622
105.5	6262	1.995E-06	9.374E-06	1623
106.5	12875	4.101E-06	1.927E-05	1625
107.5	27231	8.673E-06	4.076E-05	1627
108.5	33434	1.065E-05	5.004E-05	1629
109.5	63795	2.037E-05	9.547E-05	1630
110.4	68848	2.193E-05	1.031E-04	1632
111.4	59283	1.888E-05	8.874E-05	1633
112.4	43024	1.370E-05	6.440E-05	1635
113.4	24204	7.709E-06	3.623E-05	1637
114.4	10395	3.470E-06	1.631E-05	1638
115.3	4179	1.331E-06	6.257E-06	1640
116.3	437	1.553E-07	7.390E-07	1641
117.3	31	1.005E-08	4.724E-08	1643

CROSSWIND INTEGRATED= 4.946E-03 SEC/SQ.M 2.324E-02 1/M

TEST U6H JULY 16, 1968 0310 TO 0340 PST  
FLUOROSCEIN RELEASE FROM ELEVATION OF 2M  
1200M ARC SAMPLER HT 1.5M U= 2.4 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
80.0	0	0.	0.	1200
82.0	9	2.920E-09	7.008E-09	1200
84.0	909	2.843E-07	6.822E-07	1200
86.0	7122	2.226E-06	5.342E-06	1200
88.0	22173	6.929E-06	1.663E-05	1200
90.0	30291	9.466E-06	2.272E-05	1200
92.0	27664	8.709E-06	2.090E-05	1200
94.0	21809	6.816E-06	1.636E-05	1200
96.0	12357	3.862E-06	9.264E-06	1200
98.0	10044	3.139E-06	7.534E-06	1200
100.0	9314	2.911E-06	6.986E-06	1200
102.0	9131	2.854E-06	6.849E-06	1200
104.0	11140	3.481E-06	8.356E-06	1200
106.0	33927	1.060E-05	2.545E-05	1200
108.0	86032	2.689E-05	6.452E-05	1200
110.0	71491	2.234E-05	5.362E-05	1200
112.0	21082	6.588E-06	1.581E-05	1200
114.0	4302	1.345E-06	3.227E-06	1200
116.0	207	6.469E-08	1.553E-07	1200
118.0	30	9.401E-09	2.256E-08	1200
120.0	2	7.724E-10	1.854E-09	1200

CROSSWIND INTEGRATED= 4.964E-03 SEC/SQ.M 1.191E-02 1/M

TEST U6P JULY 16, 1968 0310 TO 0340 PST  
FLUOROSCEIN RELEASE FROM ELEVATION OF 2M  
1600M ARC SAMPLER HT 1.5M U= 2.4 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
82.0	0	1.130E-10	2.713E-10	1600
84.0	81	2.543E-08	6.104E-08	1600
86.0	1781	5.567E-07	1.336E-06	1600
88.0	6903	2.157E-06	5.170E-06	1600
90.0	11265	3.521E-06	8.449E-06	1600
92.0	14537	4.543E-06	1.070E-05	1600
93.6	15499	4.864E-06	1.162E-05	1603
94.0	10175	3.180E-06	7.631E-06	1600
94.6	11682	3.651E-06	8.752E-06	1604
95.6	7582	2.369E-06	5.687E-06	1606
96.6	8921	2.708E-06	6.691E-06	1608
97.6	6689	2.038E-06	5.017E-06	1610
98.6	6980	2.103E-06	5.240E-06	1611
99.6	5652	1.679E-06	3.782E-06	1615
100.6	5349	1.672E-06	4.012E-06	1615
101.6	6093	1.914E-06	4.576E-06	1617
102.6	4456	1.393E-06	3.343E-06	1618
103.6	4456	1.393E-06	3.343E-06	1620
104.5	5349	1.672E-06	4.012E-06	1622
105.5	7433	2.323E-06	5.575E-06	1623
106.5	22771	7.119E-06	1.709E-05	1625
107.5	38449	1.202E-05	2.884E-05	1627
108.5	64906	2.013E-05	4.880E-05	1628
109.5	42219	1.719E-05	3.166E-05	1630
110.4	40072	1.252E-05	3.005E-05	1632
111.4	20820	6.504E-06	1.562E-05	1633
112.4	11401	3.563E-06	8.551E-06	1635
113.4	4605	1.429E-06	3.454E-06	1637
114.4	1877	5.088E-07	1.400E-06	1638
115.3	270	6.457E-08	2.020E-07	1640
116.3	33	1.056E-08	2.533E-08	1641
117.3	5	1.698E-09	4.075E-09	1643
118.2	0	0.	0.	1644

CROSSWIND INTEGRATED= 3.595E-03 SEC/SQ.M 5.627E-03 1/M



TEST U68 JULY 16, 1968 0310 TO 0340 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 2200M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM	L/U SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
76.0	0	0.	0.	2200
78.0	2	9.327E-10	4.384E-09	2200
80.0	0	0.	0.	2200
82.0	5	1.732E-09	8.141E-09	2200
84.0	0	0.	0.	2200
86.0	2	7.994E-10	3.757E-09	2200
88.0	86	2.758E-08	1.296E-07	2200
90.0	913	2.910E-07	1.368E-06	2200
92.0	2977	9.463E-07	4.457E-06	2200
94.0	1799	5.731E-07	2.693E-06	2200
96.0	1114	3.549E-07	1.668E-06	2200
98.0	6424	2.045E-06	9.616E-06	2200
100.0	5150	1.640E-06	7.710E-06	2200
102.0	3980	1.268E-06	5.958E-06	2200
104.0	4374	1.373E-06	6.548E-06	2200
106.0	3645	1.161E-06	5.457E-06	2200
108.0	13988	4.455E-06	2.094E-05	2200
110.0	21335	6.795E-06	3.194E-05	2200
112.0	7010	2.233E-06	1.049E-05	2200
114.0	2403	7.656E-07	3.598E-06	2200
116.0	105	3.371E-08	1.584E-07	2200
118.0	0	2.665E-10	1.252E-09	2200
120.0	0	0.	0.	2200
122.0	0	0.	0.	2200

CROSSWIND INTEGRATED= 1.842E-03 8.658E-03  
 SEC/SQ.M 1/M

TEST U68 JULY 16, 1968 0310 TO 0340 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 3200M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM	L/U SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
84.8	0	0.	0.	3200
85.8	1	4.329E-10	2.035E-09	3191
86.8	29	9.523E-09	4.476E-08	3192
87.8	85	2.857E-08	1.343E-07	3194
88.8	323	1.030E-07	4.842E-07	3196
89.8	502	1.607E-07	7.528E-07	3198
90.8	1317	4.195E-07	1.971E-06	3199
91.8	2420	7.709E-07	3.623E-06	3201
92.8	3578	1.143E-06	5.357E-06	3203
93.8	4151	1.322E-06	6.213E-06	3205
94.8	4988	1.589E-06	7.467E-06	3206
95.8	7100	2.261E-06	1.063E-05	3208
96.8	7463	2.379E-06	1.115E-05	3210
97.8	8211	2.615E-06	1.229E-05	3212
98.8	10226	3.257E-06	1.531E-05	3213
99.8	11187	3.563E-06	1.675E-05	3215
100.8	11382	3.625E-06	1.704E-05	3217
101.8	7937	2.528E-06	1.188E-05	3218
102.8	7592	2.418E-06	1.136E-05	3220
103.8	7723	2.460E-06	1.156E-05	3222
104.8	7746	2.467E-06	1.159E-05	3224
105.8	7428	2.366E-06	1.112E-05	3225
106.8	5933	1.839E-06	8.881E-06	3227
107.8	7097	2.260E-06	1.062E-05	3229
108.8	13143	4.186E-06	1.967E-05	3230
109.7	19720	6.281E-06	2.952E-05	3232
110.7	30723	9.785E-06	4.599E-05	3233
111.7	29307	9.334E-06	4.387E-05	3235
112.7	13154	4.189E-06	1.969E-05	3237
113.7	7399	2.357E-06	1.108E-05	3236
114.6	907	2.892E-07	1.359E-06	3240
115.6	172	5.497E-08	2.584E-07	3241
116.6	6	2.164E-09	1.017E-08	3243
117.6	0	0.	0.	3245

CROSSWIND INTEGRATED= 4.246E-03 1.996E-02  
 SEC/SQ.M 1/M

TEST U68 JULY 16, 1968 0310 TO 0340 PST  
 FLUORESCCEIN RELEASE FROM ELEVATION OF 2M  
 2200M ARC SAMPLER HT 1.5M U= 2.4 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM	L/U SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
82.0	6	2.055E-09	4.932E-09	2200
84.0	55	1.742E-08	4.180E-08	2200
86.0	531	1.660E-07	3.953E-07	2200
88.0	3224	1.308E-06	2.414E-06	2200
90.0	8495	2.655E-06	6.372E-06	2200
92.0	8873	2.773E-06	6.655E-06	2200
94.0	6796	2.124E-06	5.097E-06	2200
96.0	3983	1.265E-06	2.988E-06	2200
98.0	4552	1.423E-06	3.415E-06	2200
100.0	3603	1.126E-06	2.703E-06	2200
102.0	3224	1.008E-06	2.418E-06	2200
104.0	4552	1.423E-06	3.415E-06	2200
106.0	7362	2.301E-06	5.522E-06	2200
108.0	25175	7.867E-06	1.888E-05	2200
110.0	15104	4.720E-06	1.133E-05	2200
112.0	4268	1.334E-06	3.201E-06	2200
114.0	287	8.993E-08	2.158E-07	2200
116.0	11	3.523E-09	8.455E-09	2200
118.0	6	2.055E-09	4.932E-09	2200
120.0	2	9.199E-10	2.208E-09	2200

CROSSWIND INTEGRATED= 2.403E-03 5.766E-03  
 SEC/SQ.M 1/M

TEST U68 JULY 16, 1968 0310 TO 0340 PST  
 FLUORESCCEIN RELEASE FROM ELEVATION OF 2M  
 3200M ARC SAMPLER HT 1.5M U= 2.4 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM	L/U SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
82.8	0	0.	0.	3200
83.8	0	1.001E-10	2.404E-10	3187
84.8	50	1.576E-08	3.782E-08	3189
85.8	174	5.448E-08	1.306E-07	3191
86.8	397	1.242E-07	2.982E-07	3192
87.8	1369	4.280E-07	1.027E-06	3194
88.8	2441	7.755E-07	1.861E-06	3196
89.8	2883	8.386E-07	2.013E-06	3198
90.8	4567	1.427E-06	3.426E-06	3199
91.8	5599	1.750E-06	4.200E-06	3201
92.8	4904	1.533E-06	3.678E-06	3203
93.8	5824	1.820E-06	4.366E-06	3205
94.8	3827	1.196E-06	2.871E-06	3206
95.8	4231	1.322E-06	3.174E-06	3208
96.8	3356	1.049E-06	2.517E-06	3210
97.8	3356	1.049E-06	2.517E-06	3212
98.8	4433	1.385E-06	3.325E-06	3213
99.8	3289	1.026E-06	2.467E-06	3215
100.8	3154	9.858E-07	2.366E-06	3217
101.8	2683	1.386E-07	2.013E-06	3218
102.8	3491	1.091E-06	2.610E-06	3220
103.8	4366	1.364E-06	3.275E-06	3222
104.8	4433	1.335E-06	3.325E-06	3224
105.8	4500	1.406E-06	3.375E-06	3225
106.8	6272	1.960E-06	4.705E-06	3227
107.8	10025	3.133E-06	7.519E-06	3229
108.8	11967	3.740E-06	8.976E-06	3230
109.7	17146	5.358E-06	1.256E-05	3232
110.7	15527	4.852E-06	1.165E-05	3233
111.7	8291	2.591E-06	6.219E-06	3235
112.7	2885	9.017E-07	2.164E-06	3237
113.7	866	2.708E-07	6.459E-07	3238
114.6	76	2.404E-08	5.768E-08	3240
115.6	10	5.074E-09	1.218E-08	3241
116.6	0	0.	0.	3243

CROSSWIND INTEGRATED= 2.543E-03 6.103E-03  
 SEC/SQ.M 1/M

TEST U68 JULY 16, 1968 0310 TO 0340 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
5000M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SFC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
B 82.0	16	5.330E-09	2.505E-08	4630
84.0	58	1.879E-08	8.830E-08	4620
86.0	7	2.532E-09	1.190E-08	4610
88.0	12	4.130E-09	1.941E-08	4610
90.0	79	2.518E-08	1.184E-07	4610
92.0	236	7.541E-08	3.544E-07	4620
94.0	791	2.521E-07	1.185E-06	4620
96.0	1485	4.731E-07	2.224E-06	4520
98.0	1362	4.338E-07	2.039E-06	4660
100.0	2572	9.194E-07	3.851E-06	4690
102.0	1924	6.129E-07	2.881E-06	4710
104.0	1831	5.832E-07	2.741E-06	4770
106.0	3135	9.986E-07	4.694E-06	4810
108.0	1678	5.344E-07	2.512E-06	4970
110.0	2680	9.537E-07	4.012E-06	4920
112.0	6379	2.032E-06	9.549E-06	4990
114.0	1946	6.200E-07	2.914E-06	5080
116.0	107	3.424E-08	1.609E-07	5020
118.0	0	0.	0.	5100

CROSSWIND INTEGRATED= 1.416E-03 SFC/SQ.M  
6.654E-03 1/M

TEST U68 JULY 16, 1968 0310 TO 0340 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
7000M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SFC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
B 76.0	71	2.274E-08	1.071E-07	6280
78.0	25	8.261E-09	3.883E-08	6300
80.0	56	1.799E-08	8.454E-08	6400
82.0	89	2.925E-08	1.328E-07	6490
84.0	46	1.492E-08	7.014E-08	6500
86.0	179	5.716E-08	2.686E-07	6500
88.0	190	6.076E-08	2.656E-07	6480
90.0	283	9.034E-08	4.246E-07	6500
92.0	469	1.496E-07	7.032E-07	6490
94.0	794	2.529E-07	1.139E-06	6500
96.0	894	2.847E-07	1.336E-06	6510
98.0	1714	5.461E-07	2.567E-06	6520
100.0	2885	9.189E-07	4.319E-06	6560
102.0	2150	6.848E-07	3.219E-06	6610
104.0	2884	9.185E-07	4.317E-06	6650
106.0	1135	3.615E-07	1.699E-06	6720
108.0	1302	4.149E-07	1.950E-06	6800
5 110.0	567	1.808E-07	8.498E-07	7000
112.0	1077	3.431E-07	1.613E-06	7300
114.0	1720	5.479E-07	2.575E-06	7210
116.0	530	1.869E-07	7.940E-07	7220
118.0	21	6.795E-07	3.194E-08	7190
120.0	0	0.	0.	7150

CROSSWIND INTEGRATED= 1.427E-03 SFC/SQ.M  
6.706E-03 1/M

TEST U68 JULY 16, 1968 0310 TO 0340 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 2M  
5000M ARC SAMPLER HT 1.5M U= 2.4 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
82.0	10	3.131E-09	7.515E-09	4630
84.0	4	1.370E-09	3.238E-09	4620
86.0	18	5.871E-09	1.409E-08	4610
88.0	169	5.304E-08	1.273E-07	4610
90.0	1437	4.494E-07	1.078E-06	4610
92.0	4271	1.335E-06	3.204E-06	4620
94.0	6047	1.890E-06	4.536E-06	4620
96.0	4600	1.438E-06	3.451E-06	4620
98.0	4469	1.397E-06	3.352E-06	4660
100.0	2825	8.829E-07	2.119E-06	4690
102.0	3877	1.212E-06	2.908E-06	4710
104.0	5850	1.828E-06	4.388E-06	4770
106.0	5126	1.602E-06	3.845E-06	4810
108.0	5587	1.746E-06	4.190E-06	4870
110.0	12964	4.051E-06	9.724E-06	4920
112.0	11699	3.656E-06	8.775E-06	4990
114.0	2956	9.240E-07	2.218E-06	5080
116.0	129	4.032E-08	9.676E-08	5020
118.0	1	5.676E-10	1.362E-09	5100
3 120.0	3	1.155E-09	2.771E-09	5130

CROSSWIND INTEGRATED= 3.779E-03 SEC/SQ.M  
9.071E-03 1/M

TEST U68 JULY 16, 1968 0310 TO 0340 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 2M  
7000M ARC SAMPLER HT 1.5M U= 2.4 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
B 76.0	69	2.172E-08	5.214E-08	6280
78.0	69	2.172E-08	5.214E-08	6300
80.0	107	3.347E-08	8.032E-08	6400
82.0	97	3.053E-08	7.328E-08	6490
3 84.0	150	4.717E-08	1.132E-07	6500
86.0	221	6.909E-08	1.658E-07	6500
88.0	273	6.553E-08	2.053E-07	6480
90.0	727	2.273E-07	5.456E-07	6500
4 92.0	1378	4.308E-07	1.034E-06	6490
94.0	1023	3.198E-07	7.675E-07	6500
96.0	1003	3.136E-07	7.527E-07	6510
98.0	1082	3.373E-07	8.119E-07	6520
100.0	1477	4.616E-07	1.106E-06	6560
102.0	1437	4.493E-07	1.078E-06	6610
104.0	1200	3.753E-07	9.007E-07	6650
4 106.0	1102	3.445E-07	8.267E-07	6720
3 108.0	1904	5.952E-07	1.428E-06	6800
6 110.0	2693	6.418E-07	2.020E-06	7000
4 112.0	1299	4.061E-07	9.747E-07	7300
114.0	589	1.842E-07	4.420E-07	7210
116.0	85	2.662E-08	6.388E-08	7220
118.0	0	9.786E-12	2.349E-11	7190

CROSSWIND INTEGRATED= 1.320E-03 SEC/SQ.M  
3.169E-03 1/M

TEST U68 JULY 16, 1968 0910 TO 0940 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 20M  
 12800M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/D SFC/CU.M	EU/D 1/SQ.M	DISTANCE METERS
91.0	0	0.	0.	12800
P 92.0	22	7.062E-09	3.319E-06	12800
93.0	4	1.466E-09	6.888E-09	12800
94.0	3	1.199E-09	5.636E-09	12800
95.0	26	8.527E-09	4.008E-08	12800
96.0	43	1.399E-08	6.575E-08	12800
97.0	20	6.662E-09	3.131E-08	12800
98.0	21	5.795E-09	3.194E-08	12800
99.0	2	6.662E-10	3.131E-09	12800
100.0	0	2.665E-10	1.252E-09	12800
101.0	0	0.	0.	12800
102.0	2	6.662E-10	3.131E-09	12800
103.0	0	0.	0.	12800

CROSSWIND INTEGRATED= 1.057E-05 4.966E-05  
 SEC/SQ.M 1/M

TEST U69 JULY 16, 1968 0910 TO 0940 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 2M  
 12800M ARC SAMPLER HT 1.5M U= 2.4 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/D SFC/CU.M	EU/D 1/SQ.M	DISTANCE METERS
R 91.0	4	1.272E-09	3.053E-09	12800
P 92.0	5	1.761E-09	4.227E-09	12800
1 93.0	1	3.914E-10	9.394E-10	12800
2 94.0	24	7.731E-09	1.855E-08	12800
2 95.0	13	4.306E-09	1.033E-08	12800
3 96.0	33	1.037E-08	2.489E-08	12800
4 97.0	19	5.969E-09	1.433E-08	12800
3 98.0	18	5.676E-09	1.362E-08	12800
1 99.0	5	1.664E-09	3.993E-09	12800
1 100.0	0	0.	0.	12800

CROSSWIND INTEGRATED= 8.745E-06 2.099E-05  
 SEC/SQ.M 1/M

SAMPLING FROM 400M TO 12800M. NO TOWER SAMPLING. ONLY ZINC SULFIDE TRACER RELEASED THIS DATE. TRACER APPEARS CONTAINED WITHIN SAMPLERS TO A DISTANCE OF 5000M, DISTRIBUTION SKEWED STRONGLY TO SOUTH. TRUNCATED DISTRIBUTION ON 7000M ARC AND SIGNIFICANT DUST ON 12800M ARC MAKE THESE AKC DATA QUESTIONABLE.

TEST U69 JULY 19, 1968 0118 TO 0148 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
400M ARC SAMPLER HT 1.5M U= 4.9 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SFC/CM X10E+5	E/Q SFC/CM	EJ/Q 1/SQ.M	DISTANCE METERS
70.0	0	0.	0.	400
74.0	24	7.736E-09	3.791E-08	400
78.0	2	8.596E-10	4.212E-09	400
82.0	3765	1.177E-06	5.766E-06	400
86.0	29875	9.335E-06	4.575E-05	400
90.0	36442	1.140E-05	5.586E-05	400
94.0	53432	1.670E-05	8.182E-05	400
98.0	39058	1.221E-05	5.981E-05	400
102.0	45470	1.421E-05	6.963E-05	400
106.0	45348	1.417E-05	6.944E-05	400
W 110.0	13136	4.105E-06	2.012E-05	400
W 114.0	3185	9.954E-07	4.877E-06	400
W 118.0	0	0.	0.	400
W 122.0	1	4.299E-10	2.106E-09	400
126.0	0	0.	0.	400

CROSS-IND INTEGRATED= 2.354E-03 1.154E-02  
SFC/SQ.M 1/M

TEST U69 JULY 18, 1968 0118 TO 0148 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
800M ARC SAMPLER HT 1.5M U= 4.9 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SFC/CM	EJ/Q 1/SQ.M	DISTANCE METERS
79.0	0	0.	0.	800
82.0	222	6.962E-09	3.412E-07	800
85.0	4915	1.255E-06	6.149E-06	800
88.0	23461	7.327E-06	3.593E-05	800
91.0	54158	1.692E-05	8.293E-05	800
94.0	42666	1.333E-05	6.533E-05	800
97.0	34326	1.073E-05	5.256E-05	800
97.1	46325	1.448E-05	7.094E-05	806
99.1	43924	1.373E-05	6.726E-05	809
101.1	47676	1.496E-05	7.300E-05	813
103.0	56644	1.772E-05	8.680E-05	816
105.0	66076	1.977E-05	9.197E-05	820
106.9	45762	1.430E-05	7.007E-05	823
108.8	55501	1.734E-05	8.499E-05	826
110.7	25526	7.977E-06	3.909E-05	829
112.6	6668	2.084E-06	1.021E-05	833
114.5	1309	4.091E-07	2.005E-06	836
116.4	727	2.273E-07	1.114E-06	839
118.3	0	0.	0.	842

CROSS-IND INTEGRATED= 5.052E-03 2.475E-02  
SFC/SQ.M 1/M

TEST U69 JULY 18, 1968 0118 TO 0148 PST  
 ZINC SULFIDE RELEASE FROM ELLEVATION OF 26M  
 1200M ARC SAMPLER HT 1.5M U= 4.9 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SFC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
80.0	0	0.	0.	1200
82.0	2	7.551E-10	3.700E-09	1200
84.0	161	5.034E-08	2.467E-07	1200
86.0	1498	4.682E-07	2.294E-06	1200
88.0	8387	2.621E-06	1.284E-05	1200
90.0	20125	6.289E-06	3.082E-05	1200
92.0	28739	6.981E-06	4.401E-05	1200
94.0	33704	1.053E-05	5.161E-05	1200
96.0	27986	8.746E-06	4.265E-05	1200
98.0	22011	6.878E-06	3.370E-05	1200
100.0	11247	3.515E-06	1.722E-05	1200
102.0	20125	6.289E-06	3.082E-05	1200
104.0	24824	7.758E-06	3.801E-05	1200
106.0	18598	5.812E-06	2.848E-05	1200
108.0	17507	5.471E-06	2.681E-05	1200
110.0	25372	7.929E-06	3.895E-05	1200
112.0	7162	2.238E-06	1.097E-05	1200
114.0	385	1.203E-07	5.895E-07	1200
116.0	2	7.551E-10	3.700E-09	1200
118.0	0	0.	0.	1200

CROSSWIND INTEGRATED= 3.506E-03 1.718E-02  
 SEC/SQ.M 1/M

TEST U69 JULY 18, 1968 0118 TO 0148 PST  
 ZINC SULFIDE RELEASE FROM ELLEVATION OF 26M  
 1600M ARC SAMPLER HT 1.5M U= 4.9 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SFC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
86.0	0	0.	0.	1600
88.0	195	6.116E-08	2.997E-07	1600
90.0	1543	4.885E-07	2.344E-06	1600
92.0	3092	9.665E-07	4.736E-06	1600
94.0	19531	5.791E-06	2.838E-05	1600
96.0	19071	5.960E-06	2.920E-05	1600
98.0	5897	1.843E-06	9.030E-06	1600
100.0	21540	6.744E-06	3.304E-05	1600
102.0	19338	5.043E-06	2.951E-05	1600
104.0	21931	6.854E-06	3.358E-05	1600
106.0	20249	6.328E-06	3.121E-05	1610
108.0	10812	3.379E-06	1.656E-05	1611
110.0	16149	5.647E-06	2.473E-05	1613
112.0	17269	5.497E-06	2.644E-05	1615
114.0	16948	5.296E-06	2.575E-05	1617
116.0	15485	4.829E-06	2.371E-05	1618
118.0	15973	4.992E-06	2.446E-05	1620
120.0	15608	4.878E-06	2.390E-05	1622
122.0	11196	3.499E-06	1.714E-05	1623
124.0	13085	4.090E-06	2.004E-05	1625
126.0	13932	4.354E-06	2.133E-05	1627
128.0	20076	6.274E-06	3.074E-05	1628
130.0	20820	6.506E-06	3.188E-05	1630
132.0	16906	5.283E-06	2.589E-05	1632
134.0	9695	3.030E-06	1.485E-05	1633
136.0	4245	1.327E-06	6.501E-06	1635
138.0	905	2.830E-07	1.387E-06	1637
140.0	466	1.458E-07	7.143E-07	1638
142.0	0	0.	0.	1640

CROSSWIND INTEGRATED= 3.171E-03 1.554E-02  
 SEC/SQ.M 1/M

TEST U67 JULY 14, 1968 0118 TO 0146 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 2200M ARC SAMPLER HT 1.5M U= 4.9 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>2</sup>	E/Q SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
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86.0	0	0.	0.	2200
88.0	33	1.059E-08	5.189E-08	2200
P 90.0	37	1.177E-08	5.766E-08	2200
92.0	1722	5.384E-07	2.638E-06	2200
G 94.0	648	2.025E-07	9.923E-07	2200
7 96.0	490	1.534E-07	7.515E-07	2200
P 98.0	12348	3.859E-06	1.891E-05	2200
100.0	3876	1.211E-06	5.936E-06	2200
102.0	3848	1.209E-06	5.843E-06	2200
104.0	5334	1.667E-06	8.168E-06	2200
E 106.0	5081	1.568E-06	7.780E-06	2200
4 108.0	5524	1.726E-06	8.459E-06	2200
F 110.0	12131	3.791E-06	1.858E-05	2200
5 112.0	415	1.297E-07	6.355E-07	2200
114.0	71	2.249E-08	1.102E-07	2200
116.0	0	0.	0.	2200

CROSSWIND INTEGRATED= 1.237E-03 6.064E-03  
 SEC/SQ.M 1/M

TEST U69 JULY 14, 1968 0118 TO 0148 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 3200M ARC SAMPLER HT 1.5M U= 4.9 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>2</sup>	E/Q SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
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80.8	0	0.	0.	3200
97.8	20	6.371E-09	3.122E-08	3198
90.8	85	2.676E-08	1.311E-07	3199
91.4	451	1.410E-07	6.910E-07	3201
92.4	1314	4.107E-07	2.013E-06	3203
93.8	2317	7.242E-07	3.544E-06	3205
94.8	4497	1.406E-06	6.887E-06	3206
95.4	7333	2.448E-06	1.199E-05	3208
96.4	6972	2.804E-06	1.374E-05	3210
97.8	8109	2.534E-06	1.242E-05	3212
98.4	9127	2.852E-06	1.398E-05	3213
99.4	8489	2.653E-06	1.300E-05	3215
100.8	8758	2.737E-06	1.341E-05	3217
101.8	7602	2.376E-06	1.164E-05	3218
102.8	7358	2.300E-06	1.127E-05	3220
103.8	6539	2.044E-06	1.001E-05	3222
104.8	6306	1.971E-06	9.657E-06	3224
105.4	6037	1.847E-06	9.245E-06	3225
106.4	6207	1.940E-06	9.505E-06	3227
107.8	4866	1.521E-06	7.451E-06	3229
109.4	9518	2.975E-06	1.458E-05	3230
109.7	12014	3.754E-06	1.840E-05	3232
110.7	8626	2.699E-06	1.322E-05	3233
111.7	4006	1.253E-06	6.136E-06	3235
112.7	816	2.557E-07	1.253E-06	3237
113.7	44	1.402E-08	6.868E-08	3238
114.6	13	4.248E-09	2.081E-08	3240
115.6	0	0.	0.	3241

CROSSWIND INTEGRATED= 2.434E-03 1.195E-02  
 SEC/SQ.M 1/M

TEST U69 JULY 18, 1968 0118 TU 0148 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 5000M ARC SAMPLER HT 1.5M U= 4.9 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/U SFC/CU.M	EU/U 1/SQ.M	DISTANCE METERS
92.0	0	0.	0.	4620
94.0	20	6.276E-09	3.075E-08	4520
96.0	221	6.916E-08	3.389E-07	4620
98.0	646	2.020E-07	9.898E-07	4660
100.0	3741	1.169E-06	5.729E-06	4690
102.0	2855	8.923E-07	4.372E-06	4710
104.0	1186	3.706E-07	1.816E-06	4770
106.0	2518	7.871E-07	3.857E-06	4810
108.0	1516	4.738E-07	2.322E-06	4870
F 110.0	977	3.054E-07	1.497E-06	4920
112.0	433	1.353E-07	6.630E-07	4990
114.0	5	1.569E-09	7.680E-09	5060
116.0	0	0.	0.	5020

CROSSWIND INTEGRATED= 7.338E-04 3.596E-03  
 SFC/SQ.M 1/M

TEST U69 JULY 18, 1968 0118 TU 0148 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 7000M ARC SAMPLER HT 1.5M U= 4.9 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/U SFC/CU.M	LU/U 1/SQ.M	DISTANCE METERS
94.0	0	0.	0.	6500
3 96.0	213	6.668E-08	3.267E-07	6510
3 98.0	758	2.372E-07	1.102E-06	6520
4 100.0	2070	6.472E-07	3.171E-06	6560
4 102.0	2937	9.179E-07	4.496E-06	6610
4 104.0	3318	1.037E-06	5.081E-06	6650
4 106.0	3966	1.239E-06	6.073E-06	6720
5 108.0	3230	1.070E-06	4.947E-06	6800
5 110.0	431	1.349E-07	6.611E-07	7000
6 112.0	98	3.085E-08	1.512E-07	7300
3 114.0	82	2.589E-08	1.268E-07	7210
4 116.0	88	2.772E-08	1.358E-07	7220
3 118.0	4	1.438E-09	7.047E-09	7190
4 120.0	75	2.366E-08	1.160E-07	7150
E 122.0	73	2.301E-08	1.128E-07	7120
E 124.0	70	2.196E-08	1.076E-07	7100
4 126.0	67	2.118E-08	1.038E-07	7100
7 128.0	54	1.713E-08	8.392E-08	7100
E 130.0	61	1.935E-08	9.481E-08	7130
F 142.0	57	1.804E-08	8.841E-08	7150
134.0	56	1.752E-08	8.584E-08	7200
0 136.0	31	9.936E-09	4.869E-08	7250
3 138.0	49	1.543E-08	7.559E-08	7300
4 140.0	20	6.276E-09	3.075E-08	7350
4 142.0	53	1.697E-08	8.254E-08	7250
F 144.0	49	1.543E-08	7.559E-08	7110
E 146.0	49	1.543E-08	7.559E-08	7100

CROSSWIND INTEGRATED= 1.315E-03 6.444E-03  
 SEC/SQ.M 1/M

TEST U69 JULY 18, 1968 0118 TO 0148 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 12800M AKC SAMPLER HT 1.5M U= 4.9 M/SEC AT 26M

AZIMUTH EXPOSURE E/O E/O DISTANCE  
 DEGREES GM-SEC/CM SEC/CM 1/50.M METERS  
 X10E+6

94.0	0	0.	0.	12800
6 95.0	7	2.223E-09	1.089E-08	12800
7 96.0	0	2.615E-10	1.281E-09	12800
4 97.0	9	2.876E-09	1.409E-08	12800
7 98.0	2	6.537E-10	3.203E-09	12800
99.0	0	0.	0.	12800
100.0	0	0.	0.	12800
101.0	10	3.399E-09	1.666E-08	12800
6 102.0	5	1.569E-09	7.638E-09	12800
5 103.0	5	1.700E-09	8.320E-09	12800
4 104.0	10	3.269E-09	1.602E-08	12800
4 105.0	7	2.223E-09	1.089E-08	12800
6 106.0	17	5.471E-09	2.691E-08	12800
5 107.0	4	1.307E-09	6.406E-09	12800
4 108.0	6	1.961E-09	9.609E-09	12800
5 109.0	0	0.	0.	12800
5 110.0	0	0.	0.	12800
7 111.0	16	5.099E-09	2.498E-08	12800
5 112.0	7	2.223E-09	1.089E-08	12800
4 113.0	17	5.360E-09	2.627E-08	12800
9 114.0	13	4.314E-09	2.114E-08	12800
5 115.0	3	1.046E-09	5.125E-09	12800
6 116.0	10	3.399E-09	1.666E-08	12800
117.0	30	9.413E-09	4.613E-08	12800
118.0	15	5.099E-09	2.498E-08	12800
119.0	0	0.	0.	12800
120.0	23	7.321E-09	3.528E-08	12800
121.0	18	5.753E-09	2.819E-08	12800
4 122.0	146	4.589E-08	2.249E-07	12800
123.0	69	2.170E-09	1.063E-07	12800
5 124.0	85	2.772E-08	1.354E-07	12800
5 125.0	100	3.151E-08	1.544E-07	12800
4 126.0	69	2.157E-09	1.057E-07	12800
5 127.0	70	2.194E-08	1.070E-07	12800
5 128.0	76	2.379E-08	1.166E-07	12800
5 129.0	40	1.255E-08	6.150E-08	12800
8 130.0	35	1.151E-08	5.638E-08	12800
6 131.0	32	1.020E-08	4.997E-08	12800
132.0	6	1.961E-09	9.609E-09	12800
5 133.0	35	1.111E-08	5.445E-08	12800
8 134.0	30	9.544E-09	4.677E-08	12800
4 135.0	18	5.753E-09	2.819E-08	12800
9 136.0	14	4.445E-09	2.170E-08	12800
4 137.0	37	1.177E-08	5.766E-08	12800
5 138.0	12	3.922E-09	1.922E-08	12800
5 139.0	41	1.294E-08	6.342E-08	12800
1 140.0	20	6.276E-09	3.075E-08	12800
6 141.0	14	4.445E-09	2.170E-08	12800
142.0	5	1.569E-09	7.638E-09	12800
143.0	12	3.791E-09	1.858E-08	12800
7 144.0	30	9.544E-09	4.677E-08	12800
6 145.0	6	2.092E-09	1.025E-08	12800
146.0	5	1.700E-09	8.320E-09	12800
147.0	17	5.360E-09	2.627E-08	12800
148.0	8	2.746E-09	1.345E-08	12800
7 149.0	6	1.961E-09	9.609E-09	12800
5 150.0	2	6.537E-10	3.203E-09	12800
8 151.0	2	6.537E-10	3.203E-09	12800

CROSSWIND INTEGRATED= 9.084E-05 4.451E-04  
 SEC/50.M 1/M



SAMPLING 400M TO 1200M, NO TOWER SAMPLING. DISTRIBUTION TENDS TOWARD BIMODAL.  
 ALL ARCS EXCEPT 700M EMRRACE CROSSWIND EXTENT OF BOTH TRACERS. THE SKEWING OF 700M DATA TO THE SOUTH IS NOT  
 READILY EXPLAINABLE.

TEST U70 JULY 19, 1968 0108 TO 0138 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 400M ARC SAMPLER HT 1.5M U= 7.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SFC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
82.0	0	0.	0.	400
86.0	24	7.774E-09	6.064E-08	400
90.0	9	2.962E-09	2.310E-08	400
94.0	139	4.480E-08	3.494E-07	400
98.0	5731	1.837E-06	1.433E-05	400
102.0	17359	5.564E-05	4.340E-05	400
106.0	14542	4.661E-06	3.636E-05	400
110.0	21486	6.887E-06	5.372E-05	400
114.0	15147	4.855E-06	3.787E-05	400
118.0	25167	8.066E-06	6.292E-05	400
122.0	62309	1.997E-05	1.558E-04	400
126.0	56614	1.815E-05	1.415E-04	400
130.0	16375	5.248E-06	4.094E-05	400
134.0	2025	6.493E-07	5.065E-06	400
138.0	4	1.481E-09	1.155E-08	400
142.0	1	3.702E-10	2.688E-09	400

CROSSWIND INTEGRATED= 2.121E-03 SEC/SQ.M  
 1.654E-02 1/M

TEST U70 JULY 19, 1968 0108 TO 0138 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 800M ARC SAMPLER HT 1.5M U= 7.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
80.0	0	0.	0.	800
91.0	8	2.591E-09	2.021E-08	800
94.0	0	0.	0.	800
97.0	449	1.440E-07	1.123E-06	800
97.1	605	1.940E-07	1.513E-06	806
99.1	3286	1.053E-05	8.216E-06	809
101.1	5378	1.724E-06	1.345E-05	813
103.0	12289	3.939E-06	3.072E-05	816
105.0	17573	5.632E-06	4.393E-05	820
106.9	16724	5.360E-06	4.161E-05	823
108.8	22764	7.296E-06	5.691E-05	826
110.7	14490	4.644E-05	3.623E-05	829
112.6	13658	4.378E-06	3.415E-05	833
114.5	13230	4.240E-06	3.308E-05	836
116.4	13525	4.335E-06	3.351E-05	839
118.3	12700	4.071E-06	3.175E-05	842
120.2	25831	8.279E-06	6.458E-05	845
122.1	43082	1.381E-05	1.077E-04	848
124.0	53480	1.714E-05	1.337E-04	851
125.8	49527	1.587E-05	1.238E-04	854
127.7	27564	8.835E-06	6.891E-05	857
129.5	13773	4.415E-06	3.443E-05	859
131.4	4681	1.500E-06	1.170E-05	862
133.2	445	1.432E-07	1.117E-06	865
135.0	59	1.894E-08	1.477E-07	867
136.8	0	0.	0.	869

CROSSWIND INTEGRATED= 3.239E-03 SEC/SQ.M  
 2.526E-02 1/M

TEST U70 JULY 19, 1968 0108 TO 0138 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 2M  
 400M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
90.0	0	0.	0.	400
94.0	1054	3.864E-07	1.855E-06	400
98.0	11778	4.314E-06	2.071E-05	400
102.0	39093	1.432E-05	6.874E-05	400
106.0	33228	1.217E-05	5.842E-05	400
110.0	26058	9.545E-06	4.582E-05	400
114.0	41700	1.528E-05	7.332E-05	400
118.0	80372	2.944E-05	1.413E-04	400
122.0	175964	6.446E-05	3.094E-04	400
126.0	156411	5.729E-05	2.750E-04	400
130.0	53432	1.957E-05	9.395E-05	400
134.0	2711	9.934E-07	4.768E-06	400
138.0	62	2.296E-08	1.102E-07	400
142.0	14	5.147E-09	2.471E-08	400
146.0	16	5.939E-09	2.851E-08	400
150.0	7	2.771E-09	1.330E-08	400

CROSSWIND INTEGRATED= 6.362E-03 SEC/SQ.M  
 3.054E-02 1/M

TEST U70 JULY 19, 1968 0108 TO 0138 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 2M  
 800M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
94.0	0	2.771E-10	1.330E-09	800
97.0	343	1.257E-07	6.034E-07	800
97.1	574	2.106E-07	1.011E-06	806
99.1	4819	1.765E-06	8.473E-06	809
101.1	6076	2.206E-06	1.068E-05	813
103.0	34583	1.267E-05	6.081E-05	816
105.0	17358	6.359E-06	3.052E-05	820
106.9	16004	5.863E-06	2.814E-05	823
108.8	12620	4.623E-06	2.219E-05	826
110.7	9461	3.466E-06	1.665E-05	829
112.6	9069	3.300E-06	1.584E-05	833
114.5	15779	5.780E-06	2.774E-05	836
116.4	22548	8.260E-06	3.965E-05	839
118.3	22548	8.260E-06	3.965E-05	842
120.2	28565	1.046E-05	5.023E-05	845
122.1	60758	2.726E-05	1.068E-04	848
124.0	83548	3.003E-05	1.464E-04	851
125.8	78122	2.862E-05	1.374E-04	854
127.7	42308	1.550E-05	7.439E-05	857
129.5	20292	7.433E-06	3.566E-05	859
131.4	5850	2.143E-06	1.029E-05	862
133.2	427	1.567E-07	7.519E-07	865
135.0	31	1.141E-08	5.479E-08	867
136.8	2	7.872E-10	3.778E-09	870

CROSSWIND INTEGRATED= 4.989E-03 SEC/SQ.M  
 2.395E-02 1/M

TEST U70 JULY 19, 1968 0109 TO 0135 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
1200M ARC SAMPLER HT 1.5M U= 7.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM	E/Q SFC/CM	EJ/Q 1/SQ.M	DISTANCE METERS
92.0	0	0.	0.	1200
94.0	2	8.934E-10	6.958E-09	1200
96.0	8	2.680E-09	2.091E-08	1200
98.0	24	7.817E-09	6.097E-08	1200
100.0	429	1.378E-07	1.075E-06	1200
102.0	2077	6.658E-07	5.193E-06	1200
104.0	4339	1.391E-06	1.085E-05	1200
106.0	10423	3.341E-06	2.636E-05	1200
108.0	15006	4.810E-06	3.752E-05	1200
110.0	11219	3.596E-06	2.805E-05	1200
112.0	8481	2.719E-06	2.120E-05	1200
114.0	10575	3.390E-06	2.644E-05	1200
116.0	4107	1.316E-06	1.027E-05	1200
118.0	5958	1.910E-06	1.490E-05	1200
120.0	14300	4.584E-06	3.575E-05	1200
122.0	16746	5.367E-06	4.187E-05	1200
124.0	26128	8.375E-06	6.532E-05	1200
126.0	22772	7.299E-06	5.693E-05	1200
128.0	7658	2.455E-06	1.915E-05	1200
130.0	4457	1.429E-06	1.114E-05	1200
132.0	627	2.012E-07	1.570E-06	1200
134.0	23	7.594E-09	5.923E-08	1200
136.0	0	0.	0.	1200

CROSSWIND INTEGRATED= 2.220E-03 SEC/SQ.M 1.732E-02 1/M

TEST U70 JULY 19, 1968 0108 TO 0136 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
1600M ARC SAMPLER HT 1.5M U= 7.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM	E/Q SEC/CM	EJ/Q 1/SQ.M	DISTANCE METERS
92.0	1	4.467E-10	3.484E-09	1600
93.5	3	1.218E-09	9.502E-09	1603
94.0	10	3.350E-09	2.613E-08	1600
94.6	39	1.218E-08	9.502E-08	1604
95.6	0	0.	0.	1606
96.6	0	0.	0.	1608
97.6	45	1.462E-08	1.140E-07	1610
98.6	0	0.	0.	1611
99.6	0	0.	0.	1613
100.6	0	0.	0.	1615
101.6	93	2.985E-08	2.328E-07	1617
102.6	269	8.649E-08	6.746E-07	1618
103.6	271	8.710E-08	6.794E-07	1620
104.5	1347	4.318E-07	3.368E-06	1622
105.5	2392	7.668E-07	5.981E-06	1623
106.5	5841	1.872E-06	1.460E-05	1625
107.5	8861	2.840E-06	2.215E-05	1627
108.5	12122	3.885E-06	3.031E-05	1628
109.5	7947	2.547E-06	1.987E-05	1630
110.4	5583	1.790E-06	1.396E-05	1632
111.4	8274	2.657E-06	2.069E-05	1633
112.4	9923	3.181E-06	2.481E-05	1635
113.4	7804	2.502E-06	1.951E-05	1637
114.4	4311	1.392E-06	1.078E-05	1638
115.3	3707	1.188E-06	9.269E-06	1640
116.3	3610	1.157E-06	9.027E-06	1641
117.3	4511	1.446E-06	1.128E-05	1643
118.2	5837	1.871E-06	1.459E-05	1644
119.2	6316	2.025E-06	1.579E-05	1646
120.2	7723	2.475E-06	1.931E-05	1647
121.2	8884	2.848E-06	2.221E-05	1649
122.1	11712	3.754E-06	2.928E-05	1650
123.1	13089	4.195E-06	3.272E-05	1652
124.1	12918	4.141E-06	3.230E-05	1653
125.0	8511	2.728E-06	2.120E-05	1655
126.0	12818	4.108E-06	3.203E-05	1656
126.9	13764	4.412E-06	3.441E-05	1658
127.8	9593	3.075E-06	2.398E-05	1659
128.8	3833	1.229E-06	9.593E-06	1660
129.7	1940	6.219E-07	4.851E-06	1662

TEST U70 JULY 19, 1968 0108 TO 0138 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 2M  
1200M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM	E/Q SEC/CM	EJ/Q 1/SQ.M	DISTANCE METERS
98.0	8	3.114E-09	1.495E-08	1200
100.0	326	1.196E-07	5.740E-07	1200
102.0	1554	5.694E-07	2.793E-06	1200
104.0	4175	1.529E-06	7.341E-06	1200
106.0	6707	2.457E-06	1.179E-05	1200
108.0	5314	1.947E-06	9.344E-06	1200
110.0	4175	1.529E-06	7.341E-06	1200
112.0	3921	1.437E-06	6.896E-06	1200
114.0	5061	1.854E-06	8.899E-06	1200
3 116.0	4934	1.808E-06	8.676E-06	1200
118.0	5187	1.900E-06	9.122E-06	1200
120.0	9678	3.545E-06	1.702E-05	1200
122.0	15219	5.575E-06	2.676E-05	1200
124.0	18872	6.913E-06	3.318E-05	1200
126.0	23743	8.697E-06	4.175E-05	1200
4 128.0	11505	4.214E-06	2.023E-05	1200
130.0	3162	1.158E-06	5.560E-06	1200
132.0	478	1.752E-07	8.411E-07	1200
104.0	20	7.398E-09	3.551E-08	1200
136.0	2	7.950E-10	3.816E-09	1200

CROSSWIND INTEGRATED= 1.848E-03 SEC/SQ.M 8.872E-03 1/M

TEST U70 JULY 19, 1968 0108 TO 0138 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 2M  
1600M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM	E/Q SEC/CM	EJ/Q 1/SQ.M	DISTANCE METERS
99.6	0	0.	0.	1600
100.6	9	3.547E-09	1.703E-08	1615
101.6	139	5.113E-08	2.454E-07	1617
102.6	503	1.844E-07	8.850E-07	1618
103.6	460	1.688E-07	8.103E-07	1620
104.5	1977	7.243E-07	3.477E-06	1622
105.5	2225	8.151E-07	3.913E-06	1623
106.5	5945	2.178E-06	1.045E-05	1625
107.5	6094	2.232E-06	1.072E-05	1627
108.5	7433	2.723E-06	1.307E-05	1628
109.5	3465	1.269E-06	6.093E-06	1630
110.4	2572	9.423E-07	4.523E-06	1632
111.4	3663	1.342E-06	6.442E-06	1633
112.4	4457	1.633E-06	7.837E-06	1635
113.4	3862	1.415E-06	6.791E-06	1637
114.4	2225	8.151E-07	3.913E-06	1638
115.3	2622	9.605E-07	4.610E-06	1640
116.3	3564	1.306E-06	6.267E-06	1641
117.3	4755	1.742E-06	8.361E-06	1643
118.2	4308	1.578E-06	7.576E-06	1644
119.2	4755	1.742E-06	8.361E-06	1646
120.2	4159	1.524E-06	7.314E-06	1647
121.2	4011	1.469E-06	7.052E-06	1649
122.1	8326	3.050E-06	1.464E-05	1650
123.1	7731	2.832E-06	1.359E-05	1652
124.1	9517	3.486E-06	1.673E-05	1653
125.0	6391	2.341E-06	1.124E-05	1655
126.0	12932	4.737E-06	2.274E-05	1656
126.9	11905	4.361E-06	2.093E-05	1658
127.8	6094	2.232E-06	1.072E-05	1659
128.8	2225	8.151E-07	3.913E-06	1660
129.7	1431	5.244E-07	2.517E-06	1662

130.6	1505	4.824E-07	3.763E-06	1663
131.5	983	1.230E-07	9.597E-07	1664
132.5	38	1.218E-08	9.502E-06	1665
133.5	0	9.746E-09	7.601E-08	1667
134.4	0	0.	0.	1668

CROSSWIND INTEGRATED= 1.831E-03 SEC/SQ.M 1.420E-02 1/M

TEST U70 JULY 19, 1968 0108 TO 0138 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
2200M ARC SAMPLER HT 1.5M U= 7.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/W SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
94.0	0	0.	0.	2200
96.0	14	4.729E-09	3.689E-06	2200
X 98.0	0	0.	0.	2200
100.0	0	2.489E-10	1.942E-09	2200
102.0	23	7.468E-09	5.825E-06	2200
104.0	11	3.609E-09	2.815E-08	2200
106.0	176	5.651E-08	4.407E-07	2200
108.0	2110	6.766E-07	5.277E-06	2200
F 110.0	5731	1.837E-06	1.433E-05	2200
112.0	3152	1.010E-06	7.892E-06	2200
114.0	2879	9.005E-07	7.024E-06	2200
116.0	2995	9.602E-07	7.490E-06	2200
118.0	1458	4.673E-07	3.645E-06	2200
E 120.0	5149	1.009E-06	7.874E-06	2200
122.0	5191	1.654E-06	1.296E-05	2200
124.0	3842	1.232E-06	9.607E-06	2200
126.0	7103	2.277E-06	1.776E-05	2200
128.0	1673	5.369E-07	4.183E-06	2200
130.0	558	1.791E-07	1.397E-06	2200
132.0	34	1.095E-08	6.543E-08	2200
U 134.0	0	0.	0.	2200
136.0	0	2.499E-10	1.942E-09	2200

CROSSWIND INTEGRATED= 9.855E-04 SEC/SQ.M 7.687E-03 1/M

TEST U70 JULY 19, 1968 0108 TO 0138 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
3200M ARC SAMPLER HT 1.5M U= 7.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/W SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
105.5	0	0.	0.	3200
106.5	21	5.952E-09	3.422E-09	3227
107.5	404	1.310E-07	1.022E-06	3229
108.5	1171	3.754E-07	2.928E-06	3230
109.7	2515	8.064E-07	6.290E-06	3232
110.7	5088	1.631E-06	1.272E-05	3233
111.7	6905	2.213E-06	1.720E-05	3235
112.7	8593	2.754E-06	2.148E-05	3237
113.7	9041	2.898E-06	2.260E-05	3238
114.6	10729	3.439E-06	2.692E-05	3240
115.6	6136	1.967E-06	1.534E-05	3241
116.6	4660	1.494E-06	1.165E-05	3243
117.6	2529	8.108E-07	6.524E-06	3245
118.6	2352	7.541E-07	5.892E-06	3246
119.5	2656	8.514E-07	6.641E-06	3248
120.5	3831	1.228E-06	9.578E-06	3249
121.5	4230	1.356E-06	1.058E-05	3251
C 122.4	5583	1.740E-06	1.390E-05	3252
C 123.4	6862	2.000E-06	1.718E-05	3253
C 124.4	6292	2.017E-06	1.573E-05	3255
125.4	5541	1.776E-06	1.355E-05	3256
126.3	3238	1.038E-06	8.096E-06	3258
127.3	1526	4.892E-07	3.816E-06	3259
128.3	437	1.401E-07	1.093E-06	3261
129.3	168	5.415E-08	4.224E-07	3262
130.3	6	2.195E-09	1.712E-08	3263
131.2	0	0.	0.	3264

CROSSWIND INTEGRATED= 1.782E-03 SEC/SQ.M 1.390E-02 1/M

130.6	930	3.409E-07	1.036E-06	1663
131.5	234	8.574E-08	4.116E-07	1664
132.5	28	1.047E-08	5.025E-08	1665
133.5	32	1.203E-08	5.773E-08	1667
134.4	0	0.	0.	1668

CROSSWIND INTEGRATED= 1.430E-03 SEC/SQ.M 6.862E-03 1/M

TEST U70 JULY 19, 1968 0108 TO 0138 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 2M  
2200M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/W SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
102.0	3	1.101E-09	5.286E-09	2200
104.0	94	3.449E-08	1.656E-07	2200
106.0	325	1.194E-07	5.730E-07	2200
108.0	1706	6.252E-07	3.001E-06	2200
5 110.0	2464	9.026E-07	4.332E-06	2200
4 112.0	1831	6.709E-07	3.220E-06	2200
114.0	2369	8.678E-07	4.166E-06	2200
116.0	2843	1.042E-06	5.000E-06	2200
118.0	1293	4.739E-07	2.275E-06	2200
U 120.0	787	2.886E-07	1.385E-06	2200
122.0	3128	1.144E-06	5.500E-06	2200
124.0	3792	1.389E-06	6.668E-06	2200
126.0	4077	1.493E-06	7.168E-06	2200
128.0	1022	3.747E-07	1.799E-06	2200
130.0	431	1.579E-07	7.580E-07	2200
132.0	15	5.816E-09	2.791E-08	2200
0 134.0	7	2.833E-09	1.360E-08	2200
136.0	0	3.097E-10	1.487E-09	2200

CROSSWIND INTEGRATED= 7.369E-04 SEC/SQ.M 3.537E-03 1/M

TEST U70 JULY 19, 1968 0108 TO 0138 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 2M  
3200M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/W SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
103.8	0	0.	0.	3200
104.8	0	0.	0.	3224
105.8	3	1.409E-09	6.762E-09	3225
106.8	1	4.695E-10	2.254E-09	3227
107.8	254	9.313E-08	4.470E-07	3229
108.8	906	3.322E-07	1.595E-06	3230
109.7	1669	6.116E-07	2.936E-06	3232
110.7	2477	9.074E-07	4.356E-06	3233
111.7	3150	1.154E-06	5.539E-06	3235
112.7	3890	1.425E-06	6.840E-06	3237
113.7	3957	1.450E-06	6.959E-06	3238
114.6	4832	1.770E-06	8.497E-06	3240
115.6	3015	1.105E-06	5.302E-06	3241
116.6	1871	6.855E-07	3.291E-06	3243
117.6	1288	4.719E-07	2.265E-06	3245
118.6	1131	4.144E-07	1.989E-06	3246
119.5	1736	6.362E-07	3.054E-06	3248
120.5	2544	9.321E-07	4.474E-06	3249
121.5	3352	1.228E-06	5.894E-06	3251
C 122.4	3284	1.203E-06	5.775E-06	3252
C 123.4	4159	1.524E-06	7.314E-06	3253
C 124.4	3621	1.326E-06	6.367E-06	3255
125.4	3823	1.400E-06	6.722E-06	3256
126.3	2544	9.321E-07	4.474E-06	3258
127.3	1041	3.815E-07	1.831E-06	3259
128.3	339	1.244E-07	5.973E-07	3261
129.3	73	2.700E-08	1.296E-07	3262
130.3	14	5.478E-09	2.629E-08	3263
131.2	1	7.043E-10	3.381E-09	3264

CROSSWIND INTEGRATED= 1.113E-03 SEC/SQ.M 5.341E-03 1/M

TEST U70 JULY 19, 1968 0108 TO 0138 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
5000M ARC SAMPLER HT 1.5M U= 7.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
110.0	0	2.489E-10	1.942E-09	4920
112.0	240	7.704E-08	6.009E-07	4990
114.0	2096	6.721E-07	5.242E-06	5080
116.0	1327	4.255E-07	3.319E-06	5020
118.0	686	2.207E-07	1.717E-06	5100
6 120.0	97	3.124E-08	2.437E-07	5130
6 122.0	1217	3.903E-07	3.044E-06	4830
124.0	849	2.722E-07	2.123E-06	4550
126.0	551	1.769E-07	1.379E-06	4770
128.0	130	4.169E-08	3.252E-07	4900
130.0	1	4.978E-10	3.883E-09	4970
132.0	0	0.	0.	4980

CROSSWIND INTEGRATED= 3.987E-04 SEC/SQ.M 3.110E-03 1/M

TEST U70 JULY 19, 1968 0108 TO 0138 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
7000M ARC SAMPLER HT 1.5M U= 7.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+5	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
86.0	0	0.	0.	6500
4 88.0	8	2.614E-09	2.039E-08	6480
4 90.0	13	4.232E-09	3.301E-08	6500
4 92.0	50	1.618E-08	1.262E-07	6490
4 94.0	21	6.970E-09	5.436E-08	6500
4 96.0	20	6.721E-09	5.242E-08	6510
4 98.0	22	7.343E-09	5.728E-08	6520
4 100.0	8	2.738E-09	2.136E-08	6500
4 102.0	20	6.472E-09	5.048E-08	6610
4 104.0	24	7.717E-09	6.019E-08	6650
4 106.0	8	2.853E-09	2.233E-08	6720
E 108.0	22	7.343E-09	5.728E-08	6800
E 110.0	55	1.780E-08	1.388E-07	7000
5 112.0	88	2.638E-08	2.213E-07	7300
4 114.0	546	1.752E-07	1.367E-06	7210
4 116.0	1774	5.688E-07	4.437E-06	7220
118.0	3256	1.044E-06	8.141E-06	7190
120.0	1593	5.107E-07	3.983E-06	7150
7 122.0	598	1.919E-07	1.497E-06	7120
F 124.0	1251	4.011E-07	3.129E-06	7100
5 126.0	770	2.468E-07	1.925E-06	7100
4 128.0	151	4.954E-08	3.736E-07	7100
130.0	100	3.211E-08	2.505E-07	7130
E 132.0	100	3.236E-08	2.524E-07	7150
4 134.0	105	3.173E-08	2.631E-07	7200
4 136.0	69	2.715E-08	1.728E-07	7250
138.0	73	2.352E-08	1.835E-07	7300
E 140.0	72	2.327E-08	1.815E-07	7350
4 142.0	71	2.303E-08	1.796E-07	7250
7 144.0	44	1.431E-08	1.116E-07	7110
R 146.0	100	3.236E-08	2.524E-07	7100

CROSSWIND INTEGRATED= 8.846E-04 SEC/SQ.M 6.900E-03 1/M

TEST U70 JULY 19, 1968 0108 TO 0138 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 2M  
5000M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
108.0	4	1.652E-09	7.928E-09	4870
0 110.0	0	0.	0.	4920
112.0	376	1.379E-07	6.620E-07	4990
114.0	2033	7.449E-07	3.576E-06	5080
116.0	1507	5.522E-07	2.651E-06	5020
118.0	646	2.367E-07	1.136E-06	5100
6 120.0	784	2.873E-07	1.379E-06	5130
6 122.0	1639	6.004E-07	2.882E-06	4830
124.0	1099	4.029E-07	1.934E-06	4660
126.0	803	2.945E-07	1.414E-06	4770
128.0	89	3.262E-08	1.566E-07	4900
130.0	22	8.190E-09	3.931E-08	4970
132.0	2	1.078E-09	5.175E-09	4980

CROSSWIND INTEGRATED= 5.697E-04 SEC/SQ.M 2.735E-03 1/M

TEST U70 JULY 19, 1968 0108 TO 0138 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 2M  
7000M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 2M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
4 90.0	0	0.	0.	6500
4 92.0	4	1.721E-09	8.259E-09	6490
4 94.0	72	2.638E-08	1.266E-07	6500
4 96.0	4	1.721E-09	8.259E-09	6510
4 98.0	23	8.603E-09	4.129E-08	6520
4 100.0	29	1.067E-08	5.120E-08	6500
4 102.0	17	6.538E-09	3.138E-08	6610
4 104.0	15	5.506E-09	2.643E-08	6650
4 106.0	0	0.	0.	6720
E 108.0	3	1.376E-09	6.607E-09	6800
9 110.0	4	1.721E-09	8.259E-09	7000
5 112.0	84	3.047E-08	1.487E-07	7300
4 114.0	353	1.294E-07	6.211E-07	7210
4 116.0	1135	4.160E-07	1.997E-06	7220
4 118.0	1392	5.100E-07	2.448E-06	7190
5 120.0	721	2.643E-07	1.269E-06	7150
7 122.0	938	3.438E-07	1.650E-06	7120
T 124.0	977	3.582E-07	1.719E-06	7100
5 126.0	757	2.774E-07	1.331E-06	7100
4 128.0	103	3.765E-08	1.817E-07	7100
5 130.0	42	1.549E-08	7.433E-08	7130
E 132.0	35	1.308E-08	6.277E-08	7150
4 134.0	27	9.979E-09	4.790E-08	7200
4 136.0	33	1.239E-08	5.946E-08	7250
4 138.0	28	1.032E-08	4.955E-08	7300
E 140.0	27	9.979E-09	4.790E-08	7350
4 142.0	27	9.979E-09	4.790E-08	7250
7 144.0	24	8.947E-09	4.295E-08	7110
R 146.0	17	6.538E-09	3.138E-08	7100

CROSSWIND INTEGRATED= 6.306E-04 SEC/SQ.M 3.027E-03 1/M

TEST U70 JULY 19, 1968 0109 TO 0138 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 264  
 12800M ARC SAMPLER HT 1.5M U= 7.8 M/SEC AT 26M

AZIMUTH EXPOSURE E/Q LU/Q DISTANCE  
 DEGREES GM-SEC/CM SEC/CM 1/SQ.M METERS  
 X10E+6

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM	E/Q SEC/CM	LU/Q 1/SQ.M	DISTANCE METERS
91.0	4	1.494E-09	1.165E-08	12500
P 92.0	0	2.489E-10	1.942E-09	12800
93.0	11	3.609E-09	2.815E-08	12800
94.0	9	2.987E-09	2.330E-08	12800
95.0	3	1.245E-09	9.708E-09	12300
5 96.0	9	2.987E-09	2.330E-08	12800
5 97.0	13	4.356E-09	3.394E-08	12800
7 98.0	0	2.489E-10	1.942E-09	12800
4 99.0	6	2.116E-09	1.650E-08	12800
100.0	16	5.352E-09	4.174E-08	12800
101.0	11	3.609E-09	2.815E-08	12800
4 102.0	6	2.260E-09	1.747E-08	12800
4 103.0	0	0.	0.	12800
104.0	4	1.369E-09	1.068E-08	12800
5 105.0	0	2.489E-10	1.942E-09	12800
4 106.0	1	4.978E-10	3.893E-09	12800
4 107.0	5	1.618E-09	1.254E-08	12800
4 108.0	8	2.863E-09	2.233E-08	12800
4 109.0	2	7.468E-10	5.825E-09	12800
4 110.0	14	4.605E-09	3.592E-08	12800
5 111.0	5	1.618E-09	1.262E-08	12800
4 112.0	27	8.837E-09	6.693E-08	12800
4 113.0	11	3.609E-09	2.815E-08	12800
5 114.0	16	5.352E-09	4.174E-08	12800
4 115.0	45	1.469E-08	1.140E-07	12800
4 116.0	69	2.215E-08	1.728E-07	12800
4 117.0	143	4.605E-08	3.592E-07	12800
F 118.0	201	6.472E-08	5.045E-07	12800
4 119.0	332	1.064E-07	6.300E-07	12800
4 120.0	557	1.786E-07	1.393E-06	12800
F 121.0	843	2.702E-07	2.100E-06	12800
122.0	2061	6.606E-07	5.153E-06	12800
123.0	1329	4.260E-07	3.323E-06	12800
5 124.0	1376	4.411E-07	3.443E-06	12800
4 125.0	780	2.500E-07	1.950E-06	12800
4 126.0	472	1.516E-07	1.182E-06	12800
5 127.0	171	5.501E-08	4.291E-07	12800
4 128.0	133	4.294E-08	3.342E-07	12800
5 129.0	53	1.735E-08	1.333E-07	12800
5 130.0	17	5.725E-09	4.460E-08	12800
4 131.0	17	5.725E-09	4.460E-08	12800
4 132.0	15	5.103E-09	3.980E-08	12800
4 133.0	8	2.863E-09	2.233E-08	12800
E 134.0	2	8.712E-10	6.790E-09	12800
6 135.0	0	2.489E-10	1.942E-09	12800
4 136.0	3	9.957E-10	7.766E-09	12800
5 137.0	3	9.957E-10	7.766E-09	12800
138.0	0	0.	0.	12800

CROSSWIND INTEGRATED= 6.325E-04 4.934E-03  
 SEC/SC.M 1/M

TEST U70 JULY 19, 1968 0108 TO 0138 PST  
 FLUORESCHEIN RELEASE FROM ELEVATION OF 2M  
 12800M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 2M

AZIMUTH EXPOSURE E/Q LU/Q DISTANCE  
 DEGREES GM-SEC/CM SEC/CM 1/SQ.M METERS  
 X10E+6

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM	E/Q SEC/CM	LU/Q 1/SQ.M	DISTANCE METERS
100.0	3	1.147E-09	5.506E-09	12600
4 101.0	6	2.294E-09	1.101E-08	12800
4 102.0	0	0.	0.	12800
4 103.0	10	4.015E-09	1.927E-08	12800
4 104.0	5	1.950E-09	9.360E-09	12800
5 105.0	19	7.112E-09	3.414E-08	12800
4 106.0	9	3.326E-09	1.597E-08	12800
4 107.0	17	6.423E-09	3.063E-08	12800
4 108.0	10	3.671E-09	1.762E-08	12800
4 109.0	4	1.491E-09	7.158E-09	12800
4 110.0	25	9.176E-09	4.405E-08	12800
5 111.0	8	2.987E-09	1.432E-08	12800
4 112.0	10	4.015E-09	1.927E-08	12800
5 113.0	25	9.520E-09	4.570E-08	12800
5 114.0	61	2.237E-08	1.074E-07	12800
4 115.0	89	3.269E-08	1.569E-07	12800
4 116.0	117	4.301E-08	2.065E-07	12800
4 117.0	330	1.210E-07	5.809E-07	12800
F 118.0	383	1.406E-07	6.750E-07	12800
4 119.0	410	1.503E-07	7.213E-07	12800
4 120.0	614	2.249E-07	1.060E-06	12800
F 121.0	929	3.406E-07	1.635E-06	12800
122.0	1363	4.995E-07	2.398E-06	12800
123.0	673	2.466E-07	1.184E-06	12800
T 124.0	1245	4.562E-07	2.190E-06	12800
4 125.0	949	3.478E-07	1.669E-06	12800
4 126.0	357	1.310E-07	6.288E-07	12800
5 127.0	155	5.678E-08	2.725E-07	12800
4 128.0	108	3.957E-08	1.900E-07	12800
5 129.0	51	1.881E-08	9.030E-08	12800
5 130.0	19	7.112E-09	3.414E-08	12800
4 131.0	29	1.090E-08	5.231E-08	12800
4 132.0	11	4.359E-09	2.092E-08	12800
4 133.0	5	1.950E-09	9.360E-09	12800
E 134.0	9	3.326E-09	1.597E-08	12800
6 135.0	18	6.768E-09	3.248E-08	12800
4 136.0	0	0.	0.	12800

CROSSWIND INTEGRATED= 6.620E-04 3.178E-03  
 SEC/SC.M 1/M

SAMPLING 400M TO 12800M: NO TOWER SAMPLING. ZNS DISPERSED FOR 30 MIN; FLUORESCIN DISPERSED ONLY LAST 15 MIN.  
 ARCS OUT TO 3200M EMBRACE CROSSWIND EXTENT OF TRACER, 5000M, 7000M AND 12800M ARCS TRUNCATED ON NORTH.

TEST U71 AUGUST 6, 1968 0043 TO 0113 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 400M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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46.0	2	1.016E-09	3.453E-09	400
E 50.0	41	1.473E-08	5.007E-08	400
54.0	92	3.250E-08	1.105E-07	400
58.0	2625	9.231E-07	3.139E-06	400
62.0	10254	3.606E-06	1.226E-05	400
66.0	13673	4.808E-06	1.635E-05	400
70.0	30403	1.069E-05	3.635E-05	400
74.0	32296	1.136E-05	3.661E-05	400
78.0	17370	6.108E-06	2.077E-05	400
82.0	8863	3.117E-06	1.060E-05	400
86.0	9809	3.449E-06	1.173E-05	400
90.0	6538	2.299E-06	7.817E-06	400
94.0	20904	7.350E-06	2.499E-05	400
98.0	24495	8.613E-06	2.928E-05	400
102.0	9035	3.177E-06	1.080E-05	400
106.0	281	9.901E-08	3.366E-07	400
P 110.0	27	9.647E-09	3.280E-08	400
P 114.0	18	6.601E-09	2.244E-08	400
P 118.0	7	2.539E-09	8.632E-09	400
P 122.0	2	1.016E-09	3.453E-09	400
126.0	25	9.140E-09	3.107E-08	400
130.0	5	2.031E-09	6.906E-09	400
134.0	40	1.422E-08	4.834E-08	400
138.0	11	4.052E-09	1.381E-08	400
142.0	12	4.570E-09	1.554E-08	400
146.0	5	2.031E-09	6.906E-09	400
150.0	0	0.	0.	400
154.0	1	5.078E-10	1.726E-09	400

CROSSWIND INTEGRATED= 1.835E-03 6.238E-03  
 SFC/SQ.M 1/M

TEST U71 AUGUST 6, 1968 0058 TO 0113 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 400M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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62.0	0	4.598E-10	1.931E-09	400
66.0	2176	1.470E-06	6.173E-06	400
70.0	1268	8.567E-07	3.598E-06	400
74.0	1836	1.240E-06	5.208E-06	400
78.0	2108	1.424E-06	5.980E-06	400
82.0	3266	2.205E-06	9.263E-06	400
86.0	3061	2.068E-06	8.684E-06	400
90.0	14	9.502E-09	3.991E-08	400
94.0	6	4.160E-09	1.747E-08	400
98.0	2	1.752E-09	7.357E-09	400
102.0	548	3.707E-07	1.557E-06	400
106.0	5	3.795E-09	1.594E-08	400
P 110.0	6	4.598E-09	1.931E-08	400
P 114.0	2	1.679E-09	7.050E-09	400
P 118.0	1	8.758E-10	3.678E-09	400
P 122.0	21	1.452E-08	6.100E-08	400
126.0	1	1.095E-09	4.598E-09	400
130.0	3	2.189E-09	9.196E-09	400
134.0	1	1.022E-09	4.291E-09	400
138.0	1	7.298E-10	3.065E-09	400
142.0	2	1.460E-09	6.131E-09	400

CROSSWIND INTEGRATED= 2.704E-04 1.136E-03  
 SEC/SQ.M 1/M

TEST U71 AUGUST 6, 1968 0043 TU 0113 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 800M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
52.0	0	0.	0.	800
55.0	108	3.808E-08	1.295E-07	800
54.0	1390	4.890E-07	1.663E-06	800
61.0	10176	3.578E-06	1.217E-05	800
64.0	21726	7.639E-06	2.597E-05	800
67.0	30480	1.072E-05	3.644E-05	800
70.0	43146	1.517E-05	5.158E-05	800
73.0	56193	1.976E-05	6.718E-05	800
76.0	46084	1.620E-05	5.509E-05	800
79.0	23889	8.400E-06	2.856E-05	800
82.0	14609	5.137E-06	1.747E-05	900
85.0	5988	2.106E-06	7.159E-06	900
88.0	6033	2.121E-06	7.213E-06	800
91.0	21921	7.708E-06	2.621E-05	800
94.0	31919	1.122E-05	3.816E-05	800
97.0	30978	1.089E-05	3.703E-05	800
97.1	45594	1.603E-05	5.451E-05	906
99.1	21764	7.653E-06	2.602E-05	809
101.1	5998	2.109E-06	7.172E-06	813
103.0	2349	8.260E-07	2.808E-06	816
105.0	204	7.189E-08	2.444E-07	820
106.9	17	6.118E-09	2.080E-08	823
108.8	0	0.	0.	826

CROSSWIND INTEGRATED= 5.392E-03 SEC/SQ.M  
 1.833E-02 1/M

TEST U71 AUGUST 6, 1968 0043 TU 0113 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 1200M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
54.0	1	5.664E-10	1.926E-09	1200
56.0	81	2.860E-08	9.725E-08	1200
58.0	711	2.501E-07	8.502E-07	1200
60.0	1540	5.415E-07	1.841E-06	1200
62.0	5428	1.909E-06	6.490E-06	1200
64.0	17862	6.281E-06	2.135E-05	1200
66.0	32186	1.132E-05	3.848E-05	1200
68.0	30093	1.058E-05	3.598E-05	1200
70.0	29591	1.041E-05	3.539E-05	1200
72.0	32334	1.137E-05	3.866E-05	1200
74.0	40597	1.427E-05	4.853E-05	1200
76.0	41734	1.467E-05	4.989E-05	1200
78.0	44079	1.550E-05	5.270E-05	1200
80.0	38587	1.357E-05	4.613E-05	1200
82.0	21772	7.656E-06	2.603E-05	1200
84.0	12234	4.302E-06	1.463E-05	1200
86.0	7102	2.497E-06	8.491E-06	1200
88.0	6816	2.797E-06	8.149E-06	1200
90.0	13377	4.704E-06	1.599E-05	1200
92.0	14212	4.997E-06	1.699E-05	1200
4 94.0	13477	4.739E-06	1.611E-05	1200
6 96.0	11815	4.154E-06	1.412E-05	1200
4 98.0	8217	2.889E-06	9.824E-06	1200
6 100.0	1719	6.046E-07	2.056E-06	1200
4 102.0	826	2.906E-07	9.879E-07	1200
0 104.0	3	1.133E-09	3.852E-09	1200
4 106.0	0	2.832E-10	9.629E-10	1200
0 108.0	13	4.815E-09	1.637E-08	1200
M 110.0	10	3.682E-09	1.252E-08	1200
112.0	0	0.	0.	1200

CROSSWIND INTEGRATED= 6.281E-03 SEC/SQ.M  
 2.135E-02 1/M

TEST U71 AUGUST 6, 1968 0058 TU 0113 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 800M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
61.0	1	1.153E-09	4.643E-09	800
64.0	203	1.372E-07	5.762E-07	800
67.0	2041	1.379E-06	5.790E-06	800
70.0	4288	2.896E-06	1.216E-05	800
73.0	7203	4.864E-06	2.043E-05	800
T 76.0	7094	4.791E-06	2.012E-05	800
2 79.0	8841	5.970E-06	2.507E-05	800
82.0	12771	8.624E-06	3.622E-05	800
85.0	6876	4.643E-06	1.950E-05	800
84.0	2995	2.022E-06	8.494E-06	800
S 91.0	7	5.080E-09	2.133E-08	800
S 94.0	26	1.765E-08	7.412E-08	800
97.0	441	2.981E-07	1.252E-06	800
S 97.1	669	4.520E-07	1.898E-06	806
S 99.1	579	3.911E-07	1.642E-06	809
101.1	782	5.262E-07	2.218E-06	813
103.0	182	1.231E-07	5.170E-07	816
105.0	1281	8.656E-07	3.635E-06	820
106.9	40	2.757E-08	1.158E-07	823
108.8	164	1.110E-07	4.662E-07	826
110.7	0	0.	0.	829

CROSSWIND INTEGRATED= 1.551E-03 SEC/SQ.M  
 6.514E-03 1/M

TEST U71 AUGUST 6, 1968 0058 TU 0113 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 1200M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
62.0	1	8.955E-10	3.761E-09	1200
64.0	130	8.809E-08	3.700E-07	1200
66.0	465	3.146E-07	1.321E-06	1200
68.0	1630	1.101E-06	4.624E-06	1200
70.0	3163	2.136E-06	8.972E-06	1200
72.0	3650	2.465E-06	1.035E-05	1200
74.0	4503	3.041E-06	1.277E-05	1200
76.0	6573	4.439E-06	1.864E-05	1200
78.0	7669	5.179E-06	2.175E-05	1200
80.0	10774	7.275E-06	3.056E-05	1200
82.0	9678	6.535E-06	2.745E-05	1200
84.0	11688	7.892E-06	3.315E-05	1200
86.0	6938	4.665E-06	1.968E-05	1200
2 88.0	3289	2.221E-06	9.328E-06	1200
3 90.0	1744	1.178E-06	4.948E-06	1200
4 92.0	1326	8.959E-07	3.763E-06	1200
4 94.0	214	1.445E-07	6.069E-07	1200
6 96.0	1364	9.215E-07	3.871E-06	1200
4 98.0	1782	1.204E-06	5.055E-06	1200
6 100.0	1744	1.178E-06	4.948E-06	1200
4 102.0	478	3.232E-07	1.357E-06	1200
0 104.0	478	3.232E-07	1.357E-06	1200
4 106.0	7	5.048E-09	2.120E-08	1200
0 108.0	4	2.849E-09	1.197E-08	1200
L 110.0	0	0.	0.	1200
0 112.0	3	2.239E-09	9.403E-09	1200
4 114.0	7	5.292E-09	2.223E-08	1200
0 116.0	6	4.559E-09	1.915E-08	1200
118.0	0	0.	0.	1200

CROSSWIND INTEGRATED= 2.244E-03 SEC/SQ.M  
 9.423E-03 1/M

TEST U71 AUGUST 6, 1968 0043 TO 0113 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 264  
1600M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
56.0	0	0.	0.	1500
58.0	28	9.912E-09	3.370E-08	1600
60.0	325	1.144E-07	3.890E-07	1600
62.0	1387	4.880E-07	1.659E-06	1600
64.0	5715	2.010E-06	6.833E-06	1600
66.0	12007	4.222E-06	1.435E-05	1500
68.0	18590	6.537E-06	2.222E-05	1600
70.0	16849	5.924E-06	2.014E-05	1600
72.0	14325	5.037E-06	1.713E-05	1600
74.0	13043	4.586E-06	1.559E-05	1600
76.0	33845	1.190E-05	4.046E-05	1600
78.0	37677	1.325E-05	4.504E-05	1500
80.0	23828	8.379E-06	2.849E-05	1600
82.0	16781	5.901E-06	2.006E-05	1600
84.0	14254	5.012E-06	1.704E-05	1600
86.0	10755	3.782E-06	1.236E-05	1600
88.0	4603	1.619E-06	5.504E-06	1600
90.0	5889	2.071E-06	7.041E-06	1500
92.0	17186	6.043E-06	2.055E-05	1600
93.6	26815	9.429E-06	3.206E-05	1603
94.0	17354	6.102E-06	2.075E-05	1600
94.6	25348	8.913E-06	3.030E-05	1604
95.6	16650	5.855E-06	1.991E-05	1606
96.6	13098	4.606E-06	1.556E-05	1508
97.6	10131	3.562E-06	1.211E-05	1610
7 98.6	3260	1.147E-06	3.899E-06	1611
99.6	4751	1.671E-06	5.601E-06	1613
100.6	2338	8.222E-07	2.795E-06	1515
101.6	1256	4.417E-07	1.502E-06	1617
G 102.6	643	2.262E-07	7.689E-07	1618
Q 103.6	270	9.511E-08	3.234E-07	1620
104.5	63	2.219E-08	7.546E-08	1622
105.5	33	1.162E-08	3.952E-08	1623
106.5	78	2.748E-08	9.342E-08	1525
107.5	0	0.	0.	1627

CROSSWIND INTEGRATED= 5.886E-03 SEC/SQ.M 2.001E-02 1/M

TEST U71 AUGUST 6, 1968 0043 TO 0113 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 264  
2200M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
56.0	0	0.	0.	2200
X 60.0	0	0.	0.	2200
62.0	170	5.987E-08	2.036E-07	2200
64.0	376	1.324E-07	4.501E-07	2200
66.0	1253	4.406E-07	1.498E-06	2200
68.0	1209	4.254E-07	1.446E-06	2200
70.0	7026	2.471E-06	8.400E-06	2200
E 72.0	4712	1.657E-06	5.634E-06	2200
74.0	2163	7.607E-07	2.586E-06	2200
76.0	4214	1.482E-06	5.038E-06	2200
E 78.0	3440	1.210E-06	4.113E-06	2200
80.0	2434	8.562E-07	2.911E-06	2200
82.0	4115	1.447E-06	4.920E-06	2200
S 84.0	1112	3.912E-07	1.330E-06	2200
S 86.0	1465	5.155E-07	1.753E-06	2200
88.0	2556	8.990E-07	3.056E-06	2200
90.0	3513	1.235E-06	4.200E-06	2200
92.0	1669	5.870E-07	1.996E-06	2200
94.0	13150	4.624E-06	1.572E-05	2200
9 96.0	802	2.823E-07	9.598E-07	2200
Q 98.0	253	8.900E-08	3.026E-07	2200
100.0	987	3.472E-07	1.180E-06	2200
S 102.0	66	2.324E-08	7.903E-08	2200
S 104.0	12	4.413E-09	1.506E-08	2200
6 106.0	0	1.471E-10	5.002E-10	2200

CROSSWIND INTEGRATED= 1.531E-03 SEC/SQ.M 5.206E-03 1/M

TEST U71 AUGUST 6, 1968 0058 TO 0113 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
1600M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
62.0	0	2.442E-10	1.026E-09	1600
64.0	14	1.010E-08	4.240E-08	1600
66.0	67	4.527E-08	1.901E-07	1600
68.0	555	3.752E-07	1.576E-06	1600
70.0	872	5.889E-07	2.474E-06	1600
72.0	1859	1.256E-06	5.274E-06	1600
74.0	1935	1.307E-06	5.489E-06	1600
76.0	6392	4.316E-06	1.813E-05	1600
78.0	8584	5.796E-06	2.434E-05	1600
80.0	5113	3.453E-06	1.450E-05	1600
82.0	3773	2.548E-06	1.070E-05	1600
84.0	8584	5.796E-06	2.434E-05	1600
86.0	8949	6.043E-06	2.538E-05	1600
88.0	4139	2.795E-06	1.174E-05	1600
90.0	4049	2.735E-06	1.149E-05	1600
92.0	2011	1.358E-06	5.705E-06	1600
93.6	3764	2.542E-06	1.068E-05	1603
94.0	1100	7.428E-07	3.120E-06	1600
94.6	2524	1.705E-06	7.160E-06	1604
95.6	1532	1.035E-06	4.346E-06	1606
96.6	2574	1.738E-06	7.300E-06	1608
97.6	3318	2.241E-06	9.410E-06	1610
7 98.6	2921	1.973E-06	8.285E-06	1611
99.6	3814	2.575E-06	1.082E-05	1613
100.6	1978	1.336E-06	5.612E-06	1615
101.6	2772	1.872E-06	7.863E-06	1617
Z 102.6	476	3.219E-07	1.352E-06	1618
Z 103.6	554	3.745E-07	1.573E-06	1620
104.5	58	3.955E-08	1.661E-07	1622
105.5	9	6.539E-09	2.746E-08	1623
106.5	1034	6.983E-07	2.933E-06	1625
107.5	0	0.	0.	1627
108.5	7	4.944E-09	2.077E-08	1628
109.5	0	0.	0.	1630
110.4	3	2.233E-09	9.378E-09	1632

CROSSWIND INTEGRATED= 2.658E-03 SEC/SQ.M 1.116E-02 1/M

TEST U71 AUGUST 6, 1968 0058 TO 0113 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
2200M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
62.0	1	1.264E-09	5.328E-09	2200
64.0	1	1.275E-09	5.355E-09	2200
66.0	1	1.009E-09	4.236E-09	2200
68.0	16	1.091E-08	4.582E-08	2200
70.0	222	1.503E-07	6.314E-07	2200
F 72.0	360	2.436E-07	1.023E-06	2200
74.0	452	3.057E-07	1.284E-06	2200
76.0	1064	7.187E-07	3.018E-06	2200
F 78.0	1445	9.762E-07	4.100E-06	2200
80.0	1548	1.046E-06	4.392E-06	2200
82.0	2339	1.580E-06	6.635E-06	2200
S 84.0	3414	2.306E-06	9.684E-06	2200
S 86.0	1163	7.853E-07	3.298E-06	2200
88.0	2037	1.376E-06	5.779E-06	2200
90.0	3130	2.114E-06	8.877E-06	2200
92.0	525	3.546E-07	1.489E-06	2200
94.0	1580	1.067E-06	4.482E-06	2200
9 96.0	275	1.859E-07	7.806E-07	2200
Q 98.0	472	3.191E-07	1.340E-06	2200
100.0	867	5.855E-07	2.459E-06	2200
T 102.0	275	1.859E-07	7.806E-07	2200
T 104.0	176	1.193E-07	5.009E-07	2200
6 106.0	347	2.347E-07	9.857E-07	2200
108.0	48	3.298E-08	1.385E-07	2200
Q 110.0	23	1.586E-08	6.660E-08	2200
5 112.0	2	1.396E-09	5.861E-09	2200
4 114.0	1	1.142E-09	4.795E-09	2200
5 116.0	1	6.978E-10	2.931E-09	2200

CROSSWIND INTEGRATED= 1.130E-03 SEC/SQ.M 4.747E-03 1/M



TEST U71 AUGUST 6, 1968 0043 TO 0113 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 3200M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SFC/CU.M	EJ/J 1/SQ.M	DISTANCE METERS
60.0	0	0.	0.	3200
62.0	3	1.324E-09	4.501E-09	3200
64.0	12	4.413E-09	1.500E-09	3200
66.0	177	4.472E-08	1.520E-07	3200
68.0	650	2.295E-07	7.772E-07	3200
70.0	964	3.392E-07	1.153E-06	3200
72.7	9500	3.341E-06	1.136E-05	3168
73.7	9379	3.298E-06	1.121E-05	3170
74.7	8665	3.047E-06	1.036E-05	3172
75.7	13521	4.754E-06	1.616E-05	3173
76.8	12787	4.496E-06	1.529E-05	3175
77.8	8025	2.822E-06	9.594E-06	3177
C 78.8	18884	6.640E-06	2.258E-05	3179
C 79.8	15924	5.599E-06	1.904E-05	3180
C 80.8	22132	7.782E-06	2.646E-05	3182
81.8	21593	7.593E-06	2.581E-05	3184
82.0	20244	7.118E-06	2.420E-05	3185
83.8	14173	4.984E-06	1.694E-05	3187
84.8	18796	6.609E-06	2.247E-05	3189
85.8	14769	5.193E-06	1.766E-05	3191
86.8	7302	2.568E-06	8.731E-06	3192
87.8	12661	4.452E-06	1.514E-05	3194
88.8	10157	3.571E-06	1.214E-05	3196
89.8	5697	2.003E-06	6.811E-06	3198
90.8	11832	4.161E-06	1.415E-05	3199
91.8	10895	3.831E-06	1.303E-05	3201
92.8	5558	1.955E-06	6.646E-06	3203
93.8	12373	4.351E-06	1.479E-05	3205
94.8	12570	4.420E-06	1.503E-05	3206
95.8	6081	2.138E-06	7.270E-06	3208
96.8	11077	3.895E-06	1.324E-05	3210
97.8	10887	3.828E-06	1.302E-05	3212
98.8	4051	1.427E-06	4.844E-06	3213
99.8	7207	2.534E-06	8.616E-06	3215
100.8	4412	1.552E-06	5.276E-06	3217
101.8	2193	7.713E-07	2.622E-06	3218
102.8	2309	8.119E-07	2.761E-06	3220
103.8	1415	4.978E-07	1.693E-06	3222
104.8	343	1.209E-07	4.112E-07	3224
105.8	219	7.728E-08	2.629E-07	3225
106.8	94	3.312E-08	1.126E-07	3227
107.8	12	4.516E-09	1.536E-08	3229
N 108.8	75	2.660E-08	9.043E-08	3230
N 109.7	11	4.015E-09	1.365E-08	3232
N 110.7	0	0.	0.	3233

CROSSWIND INTEGRATED= 7.069E-03 SEC/SQ.M  
 2.403E-02 1/M

TEST U71 AUGUST 6, 1968 0050 TO 0113 PST  
 FLUORSCEN RELEASE FROM ELEVATION OF 56M  
 3200M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SFC/CU.M	EJ/J 1/SQ.M	DISTANCE METERS
4 70.0	7	5.201E-09	2.185E-09	3200
71.7	146	9.867E-08	4.144E-07	3168
73.7	262	1.773E-07	7.446E-07	3170
74.7	242	1.636E-07	6.871E-07	3172
75.7	636	4.297E-07	1.805E-06	3173
76.8	527	3.560E-07	1.495E-06	3175
77.8	646	4.362E-07	1.832E-06	3177
78.8	1520	1.027E-06	4.313E-06	3179
P 79.8	1947	1.315E-06	5.522E-06	3180
80.8	3898	2.633E-06	1.106E-05	3182
81.8	5828	3.935E-06	1.653E-05	3184
82.8	6276	4.238E-06	1.780E-05	3185
83.8	4840	3.269E-06	1.373E-05	3187
84.8	6276	4.236E-06	1.780E-05	3189
85.8	6276	4.238E-06	1.780E-05	3191
86.8	3629	2.451E-06	1.029E-05	3192
87.8	7398	4.995E-06	2.098E-05	3194
88.8	5312	3.587E-06	1.506E-05	3196
89.8	4639	3.132E-06	1.316E-05	3198
90.8	6052	4.047E-06	1.716E-05	3199
91.8	5603	3.784E-06	1.589E-05	3201
92.8	2418	1.633E-06	6.858E-06	3203
93.8	2552	1.724E-06	7.240E-06	3205
94.8	2081	1.406E-06	5.904E-06	3206
95.8	1274	8.604E-07	3.613E-06	3208
96.8	1498	1.012E-06	4.250E-06	3210
97.8	1947	1.315E-06	5.522E-06	3212
98.8	1206	8.149E-07	3.423E-06	3213
99.8	1386	9.361E-07	3.932E-06	3215
100.8	2014	1.360E-06	5.713E-06	3217
101.8	1251	8.452E-07	3.550E-06	3218
102.8	1004	6.706E-07	2.650E-06	3220
103.8	1812	1.224E-06	5.140E-06	3222
104.8	1206	8.149E-07	3.423E-06	3224
105.8	946	6.369E-07	2.683E-06	3225
106.8	956	6.461E-07	2.714E-06	3227
107.8	636	4.297E-07	1.805E-06	3229
108.8	636	4.297E-07	1.805E-06	3230
109.7	305	2.061E-07	8.658E-07	3232
N 110.7	326	2.206E-07	9.264E-07	3233
111.7	91	6.189E-08	2.599E-07	3235
112.7	43	2.943E-08	1.236E-07	3237
113.7	11	8.006E-09	3.363E-08	3238
114.6	3	2.164E-09	9.088E-09	3240

CROSSWIND INTEGRATED= 3.682E-03 SEC/SQ.M  
 1.546E-02 1/M

TEST U71 AUGUST 6, 1968 0043 TO 0113 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
5000M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
B 82.0	6723	2.364E-06	8.038E-06	4630
84.0	2389	8.403E-07	2.857E-06	4620
S 86.0	3692	1.298E-06	4.414E-06	4610
S 88.0	2212	7.779E-07	2.645E-06	4610
90.0	2403	8.451E-07	2.873E-06	4610
92.0	713	2.510E-07	8.533E-07	4620
S 94.0	1825	6.418E-07	2.182E-06	4620
S 96.0	1778	6.253E-07	2.126E-06	4620
S 98.0	2086	7.338E-07	2.495E-06	4560
100.0	2391	8.409E-07	2.859E-06	4690
102.0	1912	6.724E-07	2.286E-06	4710
104.0	809	2.846E-07	9.678E-07	4770
106.0	746	2.626E-07	8.928E-07	4810
108.0	347	1.222E-07	4.156E-07	4870
E 110.0	45	1.603E-08	5.452E-09	4920
112.0	9	3.383E-09	1.150E-08	4990
114.0	1	5.884E-10	2.001E-09	5080
116.0	0	0.	0.	5020

CROSSWIND INTEGRATED= 1.715E-03 SEC/SQ.M 5.834E-03 1/M

TEST U71 AUGUST 6, 1968 0043 TO 0113 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
7000M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
F 76.0	612	2.154E-07	7.322E-07	6280
5 78.0	791	2.782E-07	9.458E-07	6300
4 80.0	1170	4.116E-07	1.395E-06	6400
4 82.0	1493	5.250E-07	1.785E-06	6490
E 84.0	1086	3.422E-07	1.299E-06	6500
6 86.0	707	2.478E-07	8.458E-07	6500
4 88.0	1085	3.816E-07	1.297E-06	6480
4 90.0	1176	4.144E-07	1.409E-06	6500
92.0	1470	5.171E-07	1.758E-06	6490
S 94.0	1091	3.838E-07	1.305E-06	6500
4 96.0	1590	5.943E-07	2.021E-06	6510
F 98.0	1990	6.998E-07	2.379E-06	6520
4 100.0	2519	8.859E-07	3.012E-06	6560
4 102.0	3116	1.096E-06	3.726E-06	6610
4 104.0	2553	8.979E-07	3.053E-06	6650
4 106.0	1655	5.820E-07	1.979E-06	6720
4 108.0	686	2.414E-07	8.288E-07	6800
5 110.0	0	1.471E-10	5.002E-10	7000

CROSSWIND INTEGRATED= 1.999E-03 SEC/SQ.M 6.796E-03 1/M

TEST U71 AUGUST 6, 1968 0058 TO 0113 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 56M  
5000M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
B 82.0	708	4.787E-07	2.010E-06	4630
84.0	945	6.385E-07	2.682E-06	4620
S 86.0	1221	8.250E-07	3.465E-06	4610
S 88.0	1478	9.982E-07	4.192E-06	4610
90.0	1642	1.109E-06	4.659E-06	4610
92.0	1063	7.184E-07	3.017E-06	4620
S 94.0	551	3.721E-07	1.563E-06	4620
S 96.0	669	4.520E-07	1.898E-06	4620
S 98.0	301	2.034E-07	8.541E-07	4660
100.0	511	3.455E-07	1.451E-06	4690
102.0	393	2.655E-07	1.115E-06	4710
104.0	406	2.744E-07	1.153E-06	4770
106.0	511	3.455E-07	1.451E-06	4810
108.0	5	3.489E-09	1.465E-08	4870
E 110.0	23	1.560E-08	6.554E-08	4920
112.0	155	1.048E-07	4.403E-07	4990
114.0	0	1.692E-10	7.104E-10	5080
P 116.0	2	1.776E-09	7.460E-09	5020
118.0	1	7.612E-10	3.197E-09	5100
P 120.0	2	1.459E-09	6.128E-09	5130

CROSSWIND INTEGRATED= 1.160E-03 SEC/SQ.M 4.873E-03 1/M

TEST U71 AUGUST 6, 1968 0058 TO 0113 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 56M  
7000M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
B 76.0	95	6.466E-08	2.715E-07	6280
5 78.0	189	1.281E-07	5.382E-07	6300
4 80.0	248	1.681E-07	7.080E-07	6400
4 82.0	426	2.889E-07	1.210E-06	6490
F 84.0	465	3.146E-07	1.321E-06	6500
F 86.0	492	3.324E-07	1.396E-06	6500
4 88.0	531	3.590E-07	1.508E-06	6480
4 90.0	669	4.523E-07	1.900E-06	6500
3 92.0	590	3.990E-07	1.676E-06	6490
S 94.0	459	3.102E-07	1.303E-06	6500
4 96.0	446	3.013E-07	1.265E-06	6510
F 98.0	327	2.714E-07	9.298E-07	6520
4 100.0	235	1.592E-07	6.687E-07	6560
4 102.0	354	2.391E-07	1.004E-06	6610
4 104.0	367	2.469E-07	1.042E-06	6650
4 106.0	393	2.658E-07	1.116E-06	6720
4 108.0	406	2.747E-07	1.154E-06	6800
5 110.0	3	2.030E-09	8.525E-09	7000
6 112.0	17	1.205E-08	5.062E-08	7300
4 114.0	1	8.246E-10	3.463E-09	7210
116.0	1	1.332E-09	5.595E-09	7220
118.0	3	2.030E-09	8.525E-09	7190

CROSSWIND INTEGRATED= 1.037E-03 SEC/SQ.M 4.354E-03 1/M

TEST U71 AUGUST 6, 1968 0043 TO 0113 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 12800M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EJ/Q 1/SQ.M	DISTANCE METERS
B 91.0	81	2.859E-08	9.753E-08	12800
7 92.0	8	2.942E-09	1.000E-08	12800
5 93.0	14	5.002E-09	1.701E-08	12800
5 94.0	115	4.075E-08	1.385E-07	12800
5 95.0	7	2.648E-09	9.003E-09	12800
6 96.0	4	1.471E-09	5.002E-09	12800
5 97.0	0	0.	0.	12800
5 98.0	9	3.236E-09	1.100E-08	12800
99.0	17	6.326E-09	2.151E-08	12800
C 100.0	11	4.119E-09	1.400E-08	12800
4 101.0	0	1.471E-10	5.002E-10	12800

CROSSWIND INTEGRATED= 2.130E-05 7.241E-05  
 SEC/SQ.M 1/M

TEST U71 AUGUST 6, 1968 0058 TO 0113 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 12800M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EJ/Q 1/SQ.M	DISTANCE METERS
B 91.0	99	6.724E-08	2.824E-07	12800
7 92.0	52	3.552E-08	1.492E-07	12800
5 93.0	41	2.791E-08	1.172E-07	12800
W 94.0	74	5.032E-08	2.114E-07	12800
5 95.0	29	1.966E-08	8.259E-08	12800
6 96.0	25	1.713E-08	7.193E-08	12800
5 97.0	7	4.863E-09	2.043E-08	12800
5 98.0	14	9.515E-09	3.996E-08	12800
4 99.0	5	4.017E-09	1.687E-08	12800
X 100.0	2	1.522E-09	6.394E-09	12800
4 101.0	0	5.075E-10	2.131E-09	12800
5 102.0	3	2.157E-09	9.058E-09	12800
6 103.0	2	1.586E-09	6.660E-09	12800
5 104.0	3	2.537E-09	1.066E-08	12800
0 105.0	1	1.269E-09	5.328E-09	12800
4 106.0	0	3.172E-10	1.332E-09	12800

CROSSWIND INTEGRATED= 5.497E-05 2.309E-04  
 SEC/SQ.M 1/M

SAMPLING 400M TO 7000M: NO TOWER SAMPLING. ZNS DISPERSAL FOR 30 MIN: FLUORESCENCE DISPERSED ONLY LAST 20 MIN. DISTRIBUTIONS ARE BIMODAL OR MULTIMODAL. ALL ARCS EMBRACE CROSSWIND EXTENT OF TRALER.

TEST U72 AUGUST 7, 1968 0047 TO 0117 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
400M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
74.0	0	0.	0.	400
78.0	9	3.069E-09	1.350E-08	400
82.0	86	2.806E-08	1.235E-07	400
86.0	1565	4.989E-07	2.195E-06	400
90.0	2465	7.861E-07	3.459E-06	400
94.0	1336	4.251E-07	1.875E-06	400
98.0	4451	1.419E-06	6.244E-06	400
102.0	4673	1.490E-06	6.555E-06	400
106.0	8591	2.739E-06	1.205E-05	400
110.0	13445	4.286E-06	1.886E-05	400
4 114.0	16731	5.334E-06	2.347E-05	400
118.0	32107	1.024E-05	4.504E-05	400
122.0	41286	1.316E-05	5.791E-05	400
126.0	22020	7.019E-06	3.089E-05	400
130.0	4135	1.318E-06	5.801E-06	400
134.0	23	7.453E-09	3.279E-08	400
138.0	0	0.	0.	400

CROSSWIND INTEGRATED= 1.361E-03 SEC/SQ.M  
5.990E-03 1/M

TEST U72 AUGUST 7, 1968 0047 TO 0117 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
800M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
74.0	0	0.	0.	800
82.0	46	1.403E-08	6.173E-08	800
85.0	862	2.749E-07	1.202E-06	800
88.0	6316	2.014E-06	8.850E-06	800
91.0	4035	1.286E-06	5.660E-06	800
94.0	1761	5.677E-07	2.498E-06	800
97.0	1100	3.507E-07	1.543E-06	800
97.1	4506	1.437E-06	6.321E-06	806
99.1	2912	9.285E-07	4.065E-06	809
101.1	2646	9.435E-07	3.712E-06	813
103.0	3477	1.106E-06	4.866E-06	816
105.0	4776	1.523E-06	6.700E-06	820
106.9	5222	1.665E-06	7.322E-06	823
108.8	10852	3.459E-06	1.522E-05	826
110.7	11936	3.806E-06	1.674E-05	829
112.6	7427	2.354E-06	1.042E-05	833
114.5	17093	5.449E-06	2.395E-05	836
116.4	25045	7.984E-06	3.513E-05	839
118.3	30696	9.785E-06	4.306E-05	842
120.2	28202	8.991E-06	3.950E-05	845
122.1	48189	1.536E-05	6.759E-05	848
124.0	50365	1.605E-05	7.084E-05	851
125.8	65986	2.107E-05	9.251E-05	854
127.7	30334	9.670E-06	4.255E-05	857
129.5	12112	3.861E-06	1.699E-05	859
131.4	719	2.295E-07	1.010E-06	862
133.2	0	0.	0.	865

CROSSWIND INTEGRATED= 3.305E-03 SEC/SQ.M  
1.482E-02 1/M

TEST U72 AUGUST 7, 1968 0057 TO 0117 PST  
FLUORESCENCE RELEASE FROM ELEVATION OF 56M  
400M ARC SAMPLER HT 1.5M U= 6.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
86.0	0	0.	0.	400
90.0	16	7.662E-09	4.597E-08	400
94.0	0	1.505E-10	9.032E-10	400
98.0	6	2.996E-09	1.797E-08	400
102.0	6	3.146E-09	1.888E-08	400
106.0	15	7.211E-09	4.326E-08	400
110.0	5	2.394E-09	1.436E-08	400
4 114.0	2926	1.359E-06	8.152E-06	400
118.0	7	3.553E-09	2.132E-08	400
122.0	41	1.915E-08	1.149E-07	400
126.0	4	2.293E-09	1.376E-08	400
130.0	0	2.559E-10	1.535E-09	400
134.0	0	0.	0.	400

CROSSWIND INTEGRATED= 3.930E-05 SEC/SQ.M  
.2358E-04 1/M

TEST U72 AUGUST 7, 1968 0057 TO 0117 PST  
FLUORESCENCE RELEASE FROM ELEVATION OF 56M  
800M ARC SAMPLER HT 1.5M U= 6.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
76.0	0	0.	0.	800
79.0	0	9.032E-11	5.419E-10	800
82.0	0	0.	0.	800
85.0	0	7.527E-11	4.516E-10	800
88.0	0	0.	0.	800
91.0	0	3.011E-10	1.806E-09	800
94.0	0	0.	0.	800
97.0	186	8.656E-08	5.194E-07	800
101.1	0	8.314E-11	4.988E-10	813
103.0	8	4.157E-09	2.494E-08	816
105.0	6	2.827E-09	1.698E-08	820
106.9	56	2.627E-08	1.576E-07	823
108.8	11	5.155E-09	3.093E-08	826
110.7	1213	5.632E-07	3.379E-06	829
112.6	23	1.114E-08	6.685E-08	833
114.5	3380	1.569E-06	9.415E-06	836
116.4	3981	1.849E-06	1.109E-05	839
118.3	4733	2.198E-06	1.319E-05	842
120.2	3530	1.639E-06	9.834E-06	845
122.1	10600	4.921E-06	2.953E-05	848
124.0	9472	4.398E-06	2.639E-05	851
125.8	3906	1.814E-06	1.086E-05	854
127.7	4132	1.918E-06	1.151E-05	857
129.5	2645	1.228E-06	7.370E-06	859
131.4	120	5.604E-08	3.362E-07	862
133.2	0	0.	0.	865

CROSSWIND INTEGRATED= 6.213E-04 SEC/SQ.M  
3.728E-03 1/M

TEST U72 AUGUST 7, 1968 0047 TO 0117 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 1200M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
 DEGREES GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS  
 X10E+6

82.0	0	2.568E-10	1.130E-09	1200
84.0	42	1.361E-08	5.986E-08	1200
86.0	347	1.107E-07	4.869E-07	1200
88.0	1150	3.665E-07	1.613E-06	1200
90.0	2525	8.052E-07	3.543E-06	1200
92.0	2413	7.695E-07	3.386E-06	1200
94.0	2288	7.294E-07	3.210E-06	1200
96.0	1689	5.387E-07	2.370E-06	1200
98.0	1180	3.764E-07	1.656E-06	1200
100.0	1200	3.826E-07	1.693E-06	1200
102.0	1597	5.091E-07	2.240E-06	1200
104.0	1192	3.800E-07	1.672E-06	1200
106.0	1013	5.702E-07	2.544E-06	1200
108.0	1696	5.407E-07	2.379E-06	1200
110.0	5815	1.854E-06	8.157E-06	1200
112.0	7268	2.317E-06	1.019E-05	1200
114.0	7668	2.445E-06	1.076E-05	1200
E 116.0	8403	2.679E-06	1.179E-05	1200
118.0	9099	2.901E-06	1.276E-05	1200
120.0	7927	2.527E-06	1.112E-05	1200
122.0	9346	2.979E-06	1.311E-05	1200
124.0	20283	6.466E-06	2.845E-05	1200
126.0	23845	7.601E-06	3.345E-05	1200
E 128.0	9745	3.106E-06	1.367E-05	1200
130.0	2043	6.514E-07	2.866E-06	1200
132.0	111	3.543E-08	1.559E-07	1200
134.0	0	0.	0.	1200

CROSSWIND INTEGRATED= 1.745E-03 7.679E-03  
 SEC/SQ.M 1/M

TEST U72 AUGUST 7, 1968 0057 TO 0117 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 1200M ARC SAMPLER HT 1.5M U= 6.0 M/SEC AT 56M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
 DEGREES GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS  
 X10E+6

88.0	0	8.396E-11	5.038E-10	1200
90.0	1	6.157E-10	3.694E-09	1200
92.0	42	1.965E-08	1.179E-07	1200
94.0	136	6.331E-08	3.799E-07	1200
96.0	173	8.066E-08	4.840E-07	1200
98.0	129	5.995E-08	3.597E-07	1200
100.0	282	1.310E-07	7.862E-07	1200
102.0	100	4.652E-08	2.791E-07	1200
104.0	18	8.452E-09	5.071E-08	1200
106.0	87	4.064E-08	2.438E-07	1200
108.0	105	4.887E-08	2.932E-07	1200
110.0	88	4.123E-08	2.474E-07	1200
112.0	181	8.413E-08	5.048E-07	1200
114.0	771	3.580E-07	2.148E-06	1200
0 116.0	2277	1.057E-06	6.345E-06	1200
118.0	3417	1.586E-06	9.518E-06	1200
120.0	3923	1.822E-06	1.093E-05	1200
122.0	2961	1.375E-06	8.249E-06	1200
124.0	4809	2.233E-06	1.340E-05	1200
126.0	4176	1.939E-06	1.163E-05	1200
0 128.0	4429	2.057E-06	1.234E-05	1200
130.0	1973	9.164E-07	5.498E-06	1200
132.0	47	2.217E-08	1.330E-07	1200
134.0	31	1.461E-08	8.766E-08	1200
136.0	20	9.292E-09	5.575E-08	1200
138.0	7	3.610E-09	2.166E-08	1200
140.0	2	1.120E-09	6.717E-09	1200

CROSSWIND INTEGRATED= 5.872E-04 3.523E-03  
 SEC/SQ.M 1/M

TEST U72 AUGUST 7, 1968 0047 TO 0117 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 1600M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

AZIMUTH DEGRFES	EXPOSURE GM-SFC/CU.M X10E+6	E/O SEC/CU.M	EJ/U 1/SQ.M	DISTANCE METERS
80.0	0	0.	0.	1600
82.0	4	1.541E-09	6.778E-09	1600
84.0	2	7.703E-10	3.339E-09	1500
86.0	0	0.	0.	1600
88.0	65	2.080E-08	9.151E-08	1600
90.0	527	1.6E2E-07	7.400E-07	1600
92.0	3859	1.230E-06	5.414E-06	1600
93.6	6205	1.978E-06	8.704E-06	1600
94.0	2121	6.753E-07	2.976E-06	1500
94.6	4656	1.484E-06	6.531E-06	1604
95.6	2429	7.746E-07	3.403E-06	1606
96.6	2131	6.795E-07	2.990E-06	1608
97.6	3307	1.054E-06	4.040E-06	1610
98.6	2312	7.371E-07	3.243E-06	1611
99.6	1586	5.377E-07	2.356E-06	1513
100.6	1816	5.789E-07	2.547E-06	1615
101.6	2454	9.100E-07	4.004E-06	1617
102.6	2777	8.853E-07	3.895E-06	1618
103.6	1491	4.756E-07	2.092E-06	1620
104.5	1107	3.530E-07	1.553E-06	1622
105.5	1230	3.923E-07	1.726E-06	1523
P 106.5	2808	8.953E-07	3.939E-06	1525
P 107.5	3150	1.004E-06	4.410E-06	1527
P 108.5	4943	1.576E-06	6.933E-06	1628
P 109.5	4682	1.493E-06	6.567E-06	1630
P 110.4	4854	1.547E-06	6.609E-06	1632
111.4	7855	2.504E-06	1.102E-05	1533
112.4	11045	3.521E-06	1.549E-05	1535
113.4	8778	2.798E-06	1.231E-05	1637
114.4	9791	3.121E-06	1.373E-05	1638
115.3	12356	3.939E-06	1.753E-05	1640
116.3	13985	4.458E-06	1.962E-05	1641
117.3	9576	3.053E-06	1.343E-05	1543
118.2	10732	3.421E-06	1.505E-05	1644
119.2	10927	3.451E-06	1.519E-05	1546
120.2	11963	3.820E-06	1.681E-05	1547
121.2	10569	3.369E-06	1.482E-05	1649
122.1	15274	4.869E-06	2.142E-05	1650
123.1	14071	4.436E-06	1.974E-05	1652
124.1	16780	5.349E-06	2.354E-05	1653
125.0	27392	8.732E-06	3.842E-05	1655
126.0	45879	1.463E-05	6.435E-05	1656
126.9	52799	1.683E-05	7.406E-05	1659
127.8	43122	1.375E-05	6.043E-05	1659
128.8	22810	7.271E-06	3.193E-05	1660
129.7	6090	1.942E-06	8.543E-06	1662
130.6	1649	5.259E-07	2.314E-06	1663
131.5	160	5.121E-08	2.253E-07	1664
132.5	5	1.829E-09	8.048E-09	1665

CROSSWIND INTEGRATED= 3.740E-03 1.640E-02  
 SFC/SQ.M 1/M

TEST U72 AUGUST 7, 1968 0057 TO 0117 PST  
 FLUOROSCEIN RELEASE FROM ELEVATION OF 56M  
 1600M ARC SAMPLER HT 1.5M U= 6.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EJ/U 1/SQ.M	DISTANCE METERS
78.0	0	1.675E-10	1.008E-09	1600
80.0	5	2.659E-09	1.595E-08	1600
82.0	0	0.	0.	1600
84.0	2	1.175E-09	7.053E-09	1600
86.0	0	0.	0.	1600
88.0	0	0.	0.	1600
90.0	0	0.	0.	1600
92.0	9	4.338E-09	2.603E-08	1600
93.6	1	8.553E-10	5.132E-09	1603
94.0	0	2.799E-10	1.679E-09	1600
94.6	0	0.	0.	1604
95.6	23	1.105E-08	6.632E-08	1606
96.6	1	7.457E-10	4.474E-09	1608
97.6	356	1.657E-07	9.940E-07	1610
98.6	633	2.940E-07	1.764E-06	1611
99.6	491	2.292E-07	1.369E-06	1613
100.6	1318	6.120E-07	3.672E-06	1615
101.6	1412	6.559E-07	3.935E-06	1617
102.6	167	7.795E-08	4.677E-07	1618
103.6	1082	5.023E-07	3.014E-06	1620
104.5	1483	6.888E-07	4.133E-06	1622
105.5	916	4.256E-07	2.553E-06	1623
P 106.5	609	2.830E-07	1.698E-06	1625
P 107.5	92	4.285E-08	2.571E-07	1627
P 108.5	385	1.788E-07	1.073E-06	1628
P 109.5	30	1.401E-08	8.409E-08	1630
P 110.4	26	1.336E-08	8.014E-08	1632
111.4	66	3.079E-08	1.848E-07	1633
112.4	541	2.512E-07	1.507E-06	1635
113.4	229	1.065E-07	6.397E-07	1637
114.4	378	1.755E-07	1.053E-06	1638
115.3	1530	7.107E-07	4.264E-06	1640
116.3	1459	6.778E-07	4.067E-06	1641
117.3	2376	1.103E-06	6.620E-06	1642
118.2	4013	1.863E-06	1.118E-05	1644
119.2	4162	1.932E-06	1.159E-05	1646
120.2	4213	1.863E-06	1.118E-05	1647
121.2	7733	3.590E-06	2.154E-05	1649
122.1	8477	3.736E-06	2.361E-05	1650
123.1	3517	1.633E-06	9.798E-06	1652
124.1	5203	2.416E-06	1.450E-05	1653
125.0	5650	2.623E-06	1.574E-05	1655
126.0	6096	2.830E-06	1.698E-05	1656
126.9	7584	3.521E-06	2.113E-05	1658
127.8	4608	2.140E-06	1.284E-05	1659
128.8	10709	4.972E-06	2.983E-05	1660
129.7	4906	2.278E-06	1.367E-05	1662
130.6	5055	2.347E-06	1.408E-05	1663
131.5	4	2.062E-09	1.237E-08	1664

CROSSWIND INTEGRATED= 1.239E-03 7.433E-03  
 SEC/SQ.M 1/M

TEST U72 AUGUST 7, 1968 0047 TO 0117 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 2200M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

AZIMUTH EXPOSURE E/Q LU/Q DISTANCE  
 DEGREES GM-SEC/CM SEC/CM 1/SQ.M METERS  
 X10E+6

78.0	0	0.	0.	2200
80.0	4	1.334E-09	5.668E-09	2200
82.0	10	3.201E-09	1.408E-08	2200
84.0	5	1.867E-09	8.215E-09	2200
86.0	0	0.	0.	2200
88.0	4	1.334E-09	5.868E-09	2200
90.0	0	0.	0.	2200
92.0	13	4.268E-09	1.878E-08	2200
4 94.0	71	2.294E-08	1.009E-07	2200
E 96.0	80	2.574E-08	1.133E-07	2200
7 98.0	594	1.896E-07	8.344E-07	2200
100.0	1218	3.884E-07	1.709E-06	2200
102.0	1176	3.749E-07	1.650E-06	2200
104.0	1125	3.588E-07	1.579E-06	2200
106.0	530	1.691E-07	7.441E-07	2200
108.0	1640	5.231E-07	2.301E-06	2200
E 110.0	893	2.847E-07	1.253E-06	2200
6 112.0	578	1.843E-07	8.110E-07	2200
114.0	5281	1.684E-06	7.408E-06	2200
116.0	6282	2.003E-06	8.812E-06	2200
118.0	2381	7.591E-07	3.340E-06	2200
E 120.0	2185	6.967E-07	3.065E-06	2200
122.0	3688	1.176E-06	5.173E-06	2200
124.0	8581	2.736E-06	1.204E-05	2200
126.0	26632	8.490E-06	3.736E-05	2200
128.0	25840	8.237E-06	3.624E-05	2200
5 130.0	633	2.019E-07	8.884E-07	2200
132.0	18	6.001E-09	2.641E-08	2200
134.0	0	0.	0.	2200

CROSSWIND INTEGRATED= 1.2190E-03 9.637E-03  
 SFC/SQ.M 1/M

TEST U72 AUGUST 7, 1968 0057 TO 0117 PST  
 FLUORESCCEIN RELEASE FROM ELEVATION OF 56M  
 2200M ARC SAMPLER HT 1.5M U= 6.0 M/SEC AT 56M

AZIMUTH EXPOSURE E/Q LU/Q DISTANCE  
 DEGREES GM-SEC/CM SEC/CM 1/SQ.M METERS  
 X10E+6

4 94.0	2	1.192E-09	7.153E-09	2200
9 96.0	0	3.198E-11	1.919E-10	2200
7 98.0	43	2.021E-08	1.212E-07	2200
100.0	83	3.896E-08	2.338E-07	2200
102.0	143	6.658E-08	3.995E-07	2200
104.0	246	1.146E-07	6.873E-07	2200
4 106.0	165	7.676E-08	4.606E-07	2200
108.0	152	7.094E-08	4.257E-07	2200
0 110.0	123	5.741E-08	3.445E-07	2200
6 112.0	68	3.176E-08	1.906E-07	2200
114.0	222	1.035E-07	6.211E-07	2200
116.0	439	2.043E-07	1.226E-06	2200
2 118.0	670	3.111E-07	1.867E-06	2200
0 120.0	1321	6.133E-07	3.688E-06	2200
122.0	3035	1.409E-06	8.456E-06	2200
124.0	1991	9.247E-07	5.548E-06	2200
126.0	3889	1.806E-06	1.083E-05	2200
128.0	3604	1.674E-06	1.004E-05	2200
5 130.0	2235	1.038E-06	6.226E-06	2200
132.0	10	4.797E-09	2.878E-08	2200
0 134.0	5	2.588E-09	1.553E-08	2200
136.0	2	1.279E-09	7.676E-09	2200
138.0	3	1.410E-09	8.461E-09	2200
140.0	0	4.507E-10	2.704E-09	2200

CROSSWIND INTEGRATED= 6.583E-04 3.950E-03  
 SEC/SQ.M 1/M

TEST U72 AUGUST 7, 1968 0047 TO 0117 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 3200M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

AZIMUTH EXPOSURE E/Q LU/Q DISTANCE  
 DEGREES GM-SEC/CM SEC/CM 1/SQ.M METERS  
 X10E+6

90.8	0	0.	0.	3200
91.8	12	3.900E-09	1.716E-08	3201
92.8	0	0.	0.	3203
93.8	0	0.	0.	3205
94.8	0	0.	0.	3206
95.8	0	0.	0.	3208
96.8	0	0.	0.	3210
97.8	5	1.733E-09	7.626E-09	3212
98.8	40	1.300E-08	5.719E-08	3213
99.8	228	7.279E-08	3.203E-07	3215
100.8	909	2.899E-07	1.275E-06	3217
101.8	1686	5.377E-07	2.366E-06	3218
102.8	1705	5.438E-07	2.393E-06	3220
103.8	1787	5.698E-07	2.507E-06	3222
104.8	1708	5.446E-07	2.376E-06	3224
105.8	1431	4.563E-07	2.008E-06	3225
106.8	1610	5.134E-07	2.259E-06	3227
107.8	1413	4.506E-07	1.983E-06	3229
108.8	1102	3.514E-07	1.546E-06	3230
109.7	1527	4.870E-07	2.143E-06	3232
110.7	1345	4.290E-07	1.887E-06	3233
111.7	1531	4.883E-07	2.149E-06	3235
112.7	1356	4.324E-07	1.903E-06	3237
113.7	1200	3.825E-07	1.683E-06	3238
114.6	1447	4.615E-07	2.030E-06	3240
115.6	2197	7.006E-07	3.083E-06	3241
116.6	2431	7.752E-07	3.411E-06	3243
117.6	2146	6.847E-07	3.010E-06	3245
118.6	3538	1.128E-06	4.963E-06	3246
119.5	4882	1.556E-06	6.848E-06	3248
120.5	4637	1.478E-06	6.505E-06	3249
121.5	3697	1.179E-06	5.186E-06	3251
122.4	4625	1.474E-06	6.488E-06	3252
123.4	7184	2.290E-06	1.008E-05	3253
124.4	9212	2.937E-06	1.292E-05	3255
125.4	12780	4.074E-06	1.793E-05	3256

TEST U72 AUGUST 7, 1968 0057 TO 0117 PST  
 FLUORESCCEIN RELEASE FROM ELEVATION OF 56M  
 3200M ARC SAMPLER HT 1.5M U= 6.0 M/SEC AT 56M

AZIMUTH EXPOSURE E/Q LU/Q DISTANCE  
 DEGREES GM-SEC/CM SEC/CM 1/SQ.M METERS  
 X10E+6

102.8	0	0.	0.	3200
103.8	1	5.951E-10	3.571E-09	3222
104.8	39	1.325E-08	1.095E-07	3224
105.8	73	3.412E-08	2.047E-07	3225
106.8	207	9.611E-08	5.767E-07	3227
107.8	194	9.016E-08	5.410E-07	3229
108.8	340	1.581E-07	9.486E-07	3230
109.7	329	1.531E-07	9.189E-07	3232
110.7	415	1.928E-07	1.157E-06	3233
111.7	329	1.531E-07	9.189E-07	3235
112.7	393	1.829E-07	1.097E-06	3237
113.7	158	7.379E-08	4.426E-07	3238
114.6	404	1.879E-07	1.127E-06	3240
115.6	101	4.701E-08	2.821E-07	3241
116.6	276	1.263E-07	7.701E-07	3243
117.6	340	1.581E-07	9.486E-07	3245
118.6	372	1.730E-07	1.038E-06	3246
119.5	703	3.267E-07	1.960E-06	3248
120.5	1367	6.347E-07	3.808E-06	3249
121.5	1591	7.388E-07	4.433E-06	3251
122.4	2219	1.030E-06	6.183E-06	3252
123.4	3498	1.624E-06	9.744E-06	3253
124.4	3229	1.499E-06	8.995E-06	3255
125.4	3632	1.687E-06	1.012E-05	3256

126.3	16547	5.275E-06	2.321E-05	3258
127.3	18392	5.863E-06	2.540E-05	3254
128.3	9441	3.010E-06	1.324E-05	3261
129.3	2867	9.142E-07	4.023E-06	3262
130.3	341	1.088E-07	4.785E-07	3263
131.2	47	1.517E-08	6.673E-08	3264
132.2	0	0.	0.	3266

CROSSWIND INTEGRATED= 2.250E-03 SEC/SQ.M 9.901E-03 1/M

TEST U72 AUGUST 7, 1968 0047 TO 0117 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
5000M ARC SAMPLER HT 1.5M W= 4.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/W SEC/CM.M	EU/W 1/SQ.M	DISTANCE METERS
98.0	0	0.	0.	4550
100.0	5	1.734E-09	7.629E-09	4590
102.0	3	1.067E-09	4.694E-09	4710
104.0	0	0.	0.	4770
106.0	37	1.187E-08	5.223E-08	4810
108.0	136	4.348E-08	1.913E-07	4870
110.0	398	1.271E-07	5.592E-07	4920
112.0	416	1.328E-07	5.845E-07	4990
114.0	192	6.121E-08	2.693E-07	5080
116.0	235	7.508E-08	3.304E-07	5020
118.0	397	1.267E-07	5.575E-07	5100
120.0	1196	3.815E-07	1.677E-06	5130
122.0	1156	3.608E-07	1.623E-06	4930
124.0	1100	3.509E-07	1.544E-06	4660
S 126.0	3558	1.134E-06	4.991E-06	4770
128.0	2125	6.775E-07	2.981E-06	4900
0 130.0	187	5.988E-08	2.635E-07	4970
6 132.0	2	8.032E-10	3.521E-09	4980
134.0	0	0.	0.	4990

CROSSWIND INTEGRATED= 6.042E-06 SEC/SQ.M 2.659E-03 1/M

TEST U72 AUGUST 7, 1968 0047 TO 0117 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
7000M ARC SAMPLER HT 1.5M W= 4.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/W SEC/CM.M	EU/W 1/SQ.M	DISTANCE METERS
84.0	0	0.	0.	6500
94.0	0	0.	0.	6500
104.0	0	0.	0.	6550
106.0	0	0.	0.	6720
108.0	0	0.	0.	6800
5 112.0	6	2.134E-09	9.389E-09	7300
4 114.0	263	8.415E-08	3.703E-07	7210
116.0	702	2.239E-07	9.853E-07	7220
118.0	973	3.132E-07	1.355E-06	7190
120.0	787	2.511E-07	1.135E-06	7150
122.0	750	2.391E-07	1.052E-06	7120
0 124.0	647	2.063E-07	9.070E-07	7100
126.0	2705	8.625E-07	3.795E-06	7100
X 128.0	1698	5.415E-07	2.382E-06	7100
E 130.0	1277	4.072E-07	1.792E-06	7130
0 132.0	1130	3.607E-07	1.585E-06	7150
4 134.0	105	3.374E-08	1.485E-07	7200
5 136.0	0	0.	0.	7250

CROSSWIND INTEGRATED= 8.772E-04 SEC/SQ.M 3.860E-03 1/M

126.3	7850	3.644E-06	2.187E-05	3258
127.3	10542	4.894E-06	2.937E-05	3259
128.3	5831	2.707E-06	1.624E-05	3261
129.3	4373	2.030E-06	1.218E-05	3262
130.3	649	3.014E-07	1.809E-06	3263
131.2	33	1.577E-08	9.462E-08	3264
132.2	15	7.141E-09	4.285E-08	3266
133.2	45	2.123E-08	1.274E-07	3267
134.2	0	1.488E-10	8.927E-10	3268

CROSSWIND INTEGRATED= 1.283E-03 SEC/SQ.M 7.700E-03 1/M

TEST U72 AUGUST 7, 1968 0057 TO 0117 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
5000M ARC SAMPLER HT 1.5M W= 6.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/W SEC/CM.M	EU/W 1/SQ.M	DISTANCE METERS
102.0	1	5.234E-10	3.140E-09	4710
104.0	0	4.361E-11	2.617E-10	4770
106.0	2	1.090E-09	6.542E-09	4810
108.0	6	2.908E-09	1.745E-08	4870
110.0	46	2.137E-08	1.282E-07	4920
112.0	121	5.626E-08	3.376E-07	4990
114.0	146	6.789E-08	4.073E-07	5080
116.0	46	2.181E-08	1.308E-07	5020
118.0	69	3.227E-08	1.936E-07	5100
120.0	196	9.115E-08	5.469E-07	5130
122.0	327	1.522E-07	9.133E-07	4830
124.0	906	4.209E-07	2.525E-06	4660
126.0	1643	7.628E-07	4.577E-06	4770
128.0	1906	8.849E-07	5.309E-06	4900
0 130.0	1774	8.239E-07	4.943E-06	4970
6 132.0	1	8.723E-10	5.234E-09	4980
134.0	0	1.163E-10	6.978E-10	4990
136.0	1	6.978E-10	4.107E-09	5000
0 138.0	0	3.489E-10	2.093E-09	5020
140.0	1	5.234E-10	3.140E-09	5060

CROSSWIND INTEGRATED= 5.680E-04 SEC/SQ.M 3.408E-03 1/M

TEST U72 AUGUST 7, 1968 0057 TO 0117 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
7000M ARC SAMPLER HT 1.5M W= 6.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/W SEC/CM.M	EU/W 1/SQ.M	DISTANCE METERS
5 112.0	0	3.344E-10	2.006E-09	7300
4 114.0	11	5.234E-09	3.140E-08	7210
116.0	99	4.627E-08	2.776E-07	7220
118.0	248	1.156E-07	6.935E-07	7190
120.0	97	4.536E-08	2.721E-07	7150
122.0	60	2.796E-08	1.677E-07	7120
0 124.0	196	9.115E-08	5.469E-07	7100
2 126.0	2169	1.007E-06	6.042E-06	7100
2 128.0	1202	5.582E-07	3.349E-06	7100
1 130.0	1084	5.033E-07	3.020E-06	7130
0 132.0	1084	5.033E-07	3.020E-06	7150
4 134.0	39	1.832E-08	1.099E-07	7200
5 136.0	0	7.269E-11	4.361E-10	7250

CROSSWIND INTEGRATED= 7.264E-04 SEC/SQ.M 4.358E-03 1/M



SAMPLING 400M TO 1200M; NO TOWER SAMPLING. ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER DISTRIBUTION.  
 ZNS DISPERSAL FOR 30 CONTINUOUS MIN. FLUORESCIN ON FIRST 5 MIN, OFF 10 MIN, THEN ON 15 MIN. (FLUORESCIN ON  
 AT 0140PST, OFF AT 0145PST, ON AT 0155PST AND OFF AGAIN AT 0210PST.) FLUORESCIN DISPERSAL DEVICE PROBLEMS.

TEST U73 AUGUST 8, 1968 0140 TO 0210 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 400M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
102.0	0	0.	0.	400
106.0	99	3.218E-08	1.770E-07	400
P 110.0	3013	9.793E-07	5.306E-06	400
P 114.0	30366	9.869E-06	5.420E-05	400
P 118.0	38474	1.250E-05	6.877E-05	400
P 122.0	32527	1.057E-05	5.814E-05	400
126.0	35581	1.156E-05	6.360E-05	400
130.0	27936	9.079E-06	4.994E-05	400
134.0	8308	2.700E-06	1.485E-05	400
138.0	434	1.412E-07	7.768E-07	400
142.0	0	0.	0.	400

CROSSWIND INTEGRATED= 1.604E-03 8.822E-03  
 SEC/SQ.M 1/M

TEST U73 AUGUST 8, 1968 0140 TO 0210 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 800M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
105.0	0	0.	0.	820
106.9	26	8.709E-09	4.790E-08	823
108.8	520	1.692E-07	9.306E-07	926
110.7	5125	1.666E-06	9.162E-06	829
112.6	8399	2.730E-06	1.501E-05	833
114.5	20067	6.522E-06	3.587E-05	836
116.4	31100	1.011E-05	5.559E-05	839
118.3	31211	1.014E-05	5.579E-05	842
120.2	32524	1.057E-05	5.814E-05	845
122.1	48392	1.573E-05	8.650E-05	848
124.0	44414	1.443E-05	7.939E-05	851
125.8	43790	1.423E-05	7.827E-05	854
127.7	32000	1.040E-05	5.720E-05	857
129.5	20500	6.662E-06	3.664E-05	859
131.4	8092	2.630E-06	1.447E-05	862
133.2	4134	1.344E-06	7.390E-06	865
135.0	757	2.463E-07	1.355E-06	867
136.8	15	4.977E-09	2.737E-08	869
138.7	0	0.	0.	872
162.2	0	0.	0.	894

CROSSWIND INTEGRATED= 2.988E-03 1.643E-02  
 SEC/SQ.M 1/M

TEST U73 AUGUST 8, 1968 1407 TO 2107 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 400M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
106.0	0	1.355E-10	8.807E-10	400
P 110.0	14	6.774E-09	4.403E-08	400
P 114.0	3	1.505E-09	9.785E-09	400
P 118.0	50	2.348E-08	1.526E-07	400
P 122.0	202	9.424E-08	6.125E-07	400
126.0	4901	2.276E-06	1.479E-05	400
130.0	1	9.032E-10	5.871E-09	400

CROSSWIND INTEGRATED= 6.709E-05 4.361E-04  
 SEC/SQ.M 1/M

TEST U73 AUGUST 8, 1968 1407 TO 2107 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 800M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
110.7	22	1.031E-08	6.701E-08	829
112.6	820	3.811E-07	2.477E-06	833
114.5	6537	3.035E-06	1.973E-05	836
116.4	2400	1.114E-06	7.244E-06	839
118.3	6537	3.035E-06	1.973E-05	842
120.2	7214	3.349E-06	2.177E-05	845
122.1	10598	4.921E-06	3.198E-05	848
124.0	8342	3.873E-06	2.517E-05	851
125.8	1076	4.998E-07	3.249E-06	854
127.7	7214	3.349E-06	2.177E-05	857
129.5	2174	1.010E-06	6.563E-06	859
131.4	348	1.616E-07	1.051E-06	862
133.2	63	2.943E-08	1.913E-07	865
135.0	0	0.	0.	867

CROSSWIND INTEGRATED= 6.891E-04 4.479E-03  
 SEC/SQ.M 1/M

TEST U73 AUGUST 8, 1968 0140 TO 0210 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
1200M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. X10E+6	E/Q SEC/CM.	EU/Q 1/SQ.M	DISTANCE METERS
108.0	0	0.	0.	1200
110.0	175	9.706E-06	3.139E-07	1200
112.0	303	9.869E-06	5.428E-07	1200
114.0	3057	9.938E-07	5.455E-06	1200
116.0	3480	1.131E-06	6.221E-06	1200
118.0	10915	3.547E-06	1.951E-05	1200
120.0	12547	4.078E-06	2.243E-05	1200
122.0	9971	3.241E-06	1.762E-05	1200
124.0	9885	3.213E-06	1.767E-05	1200
126.0	11884	3.852E-06	2.124E-05	1200
128.0	7137	6.947E-07	3.621E-06	1200
130.0	1448	4.736E-07	2.589E-06	1200
132.0	343	1.118E-07	6.247E-07	1200
134.0	9	3.141E-09	1.728E-06	1200
136.0	0	0.	0.	1200

CROSSWIND INTEGRATED= 9.007E-04 SEC/SQ.M  
4.954E-03 1/M

TEST U73 AUGUST 8, 1968 0140 TO 0210 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
1600M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. X10E+6	E/Q SEC/CM.	EU/Q 1/SQ.M	DISTANCE METERS
108.5	0	0.	0.	1630
109.5	126	4.102E-08	2.256E-07	1630
110.4	120	3.924E-08	2.159E-07	1632
111.4	172	5.619E-08	3.090E-07	1633
112.4	367	2.818E-07	1.550E-06	1635
113.4	1756	5.708E-07	3.139E-06	1637
114.4	3729	1.212E-06	6.666E-06	1638
115.3	4681	1.521E-06	8.368E-06	1640
116.3	12765	4.149E-06	2.232E-05	1641
117.3	13956	4.536E-06	2.495E-05	1643
118.2	22985	7.470E-06	4.108E-05	1644
119.2	22842	7.424E-06	4.083E-05	1646
120.2	27718	9.008E-06	4.955E-05	1647
121.2	33349	1.084E-05	5.961E-05	1649
122.1	30833	1.002E-05	5.511E-05	1650
123.1	21577	7.012E-06	3.857E-05	1652
124.1	25186	8.185E-06	4.502E-05	1653
125.0	43234	1.405E-05	7.728E-05	1655
126.0	27990	7.472E-06	4.109E-05	1656
126.9	14585	4.740E-06	2.607E-05	1658
127.8	11574	3.752E-06	2.059E-05	1659
128.8	3918	1.274E-06	7.004E-06	1660
129.7	2211	7.188E-07	3.953E-06	1662
130.6	740	2.408E-07	1.324E-06	1663
131.5	540	1.757E-07	9.663E-07	1664
132.5	21	7.135E-09	3.924E-08	1665
133.5	0	0.	0.	1667

CROSSWIND INTEGRATED= 2.900E-03 SEC/SQ.M  
1.595E-02 1/M

TEST U73 AUGUST 8, 1968 1407 TO 2107 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
1200M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. X10E+6	E/Q SEC/CM.	EU/Q 1/SQ.M	DISTANCE METERS
108.0	0	0.	0.	1200
110.0	26	1.245E-08	8.096E-08	1200
112.0	111	5.164E-08	3.356E-07	1200
114.0	1252	5.814E-07	3.779E-06	1200
116.0	2050	9.517E-07	6.186E-06	1200
118.0	4687	2.176E-06	1.415E-05	1200
120.0	7305	3.392E-06	2.205E-05	1200
122.0	7671	3.561E-06	2.315E-05	1200
124.0	6757	3.137E-06	2.039E-05	1200
126.0	6392	2.968E-06	1.929E-05	1200
128.0	3164	1.469E-06	9.548E-06	1200
130.0	2050	9.517E-07	6.186E-06	1200
132.0	228	1.059E-07	6.886E-07	1200
134.0	5	2.687E-09	1.746E-08	1200
136.0	1	6.717E-10	4.366E-09	1200

CROSSWIND INTEGRATED= 8.110E-04 SEC/SQ.M  
5.272E-03 1/M

TEST U73 AUGUST 8, 1968 1407 TO 2107 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
1600M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. X10E+6	E/Q SEC/CM.	EU/Q 1/SQ.M	DISTANCE METERS
109.5	0	0.	0.	1630
110.4	7	3.509E-09	2.281E-08	1632
111.4	123	5.724E-08	3.721E-07	1633
112.4	633	2.941E-07	1.912E-06	1635
113.4	822	3.818E-07	2.462E-06	1637
114.4	769	3.573E-07	2.322E-06	1638
115.3	2823	1.311E-06	8.519E-06	1640
116.3	3219	1.495E-06	9.717E-06	1641
117.3	4311	2.002E-06	1.301E-05	1643
118.2	6692	3.107E-06	2.019E-05	1644
119.2	11305	5.249E-06	3.412E-05	1646
120.2	8329	3.867E-06	2.513E-05	1647
121.2	8180	3.798E-06	2.469E-05	1649
122.1	18349	8.519E-06	5.537E-05	1650
123.1	13388	6.216E-06	4.040E-05	1652
124.1	14876	6.907E-06	4.489E-05	1653
125.0	11900	5.525E-06	3.591E-05	1655
126.0	7436	3.452E-06	2.244E-05	1656
126.9	4757	2.209E-06	1.436E-05	1658
127.8	6096	2.831E-06	1.840E-05	1659
128.8	6692	3.107E-06	2.019E-05	1660
129.7	1156	5.369E-07	3.490E-06	1662
130.6	704	3.270E-07	2.126E-06	1663
131.5	704	3.270E-07	2.126E-06	1664
132.5	0	4.386E-10	2.851E-09	1665
133.5	0	0.	0.	1667

CROSSWIND INTEGRATED= 1.715E-03 SEC/SQ.M  
1.115E-02 1/M

TEST U73 AUGUST 8, 1968 0140 TU 0210 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
2200M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
110.0	0	0.	0.	2200
7 112.0	4	1.360E-09	7.478E-09	2200
114.0	367	1.194E-07	6.566E-07	2200
116.0	447	1.453E-07	7.994E-07	2200
118.0	2621	8.518E-07	4.685E-06	2200
F 120.0	7111	2.311E-06	1.271E-05	2200
122.0	7210	2.343E-06	1.289E-05	2200
124.0	2805	9.119E-07	5.016E-06	2200
126.0	2930	9.523E-07	5.238E-06	2200
128.0	971	3.156E-07	1.736E-06	2200
130.0	65	2.121E-08	1.167E-07	2200
132.0	15	5.167E-09	2.842E-08	2200
O 134.0	0	0.	0.	2200

CROSSWIND INTEGRATED= 6.127E-04 SEC/SQ.M 3.370E-03 1/M

TEST U73 AUGUST 8, 1968 0140 TU 0210 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
3200M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
106.8	0	0.	0.	3227
111.7	0	0.	0.	3235
112.7	35	1.149E-08	6.317E-08	3237
113.7	80	2.605E-08	1.433E-07	3238
114.6	580	1.886E-07	1.057E-06	3240
115.6	1265	4.113E-07	2.262E-06	3241
116.6	2119	6.887E-07	3.788E-06	3243
117.6	3616	1.175E-06	6.465E-06	3245
118.6	7114	2.312E-06	1.272E-05	3246
119.5	10332	3.358E-06	1.847E-05	3248
120.5	13718	4.458E-06	2.452E-05	3249
121.5	12552	4.079E-06	2.244E-05	3251
122.4	12151	3.949E-06	2.172E-05	3252
123.4	9518	3.093E-06	1.701E-05	3253
124.4	6842	2.224E-06	1.223E-05	3255
125.4	3871	1.258E-06	6.919E-06	3256
126.3	2615	8.499E-07	4.674E-06	3258
127.3	505	1.643E-07	9.038E-07	3259
128.3	118	3.843E-08	2.114E-07	3261
129.3	5	1.767E-09	9.718E-09	3262
130.3	0	0.	0.	3263
142.0	0	0.	0.	3278

CROSSWIND INTEGRATED= 1.559E-03 SEC/SQ.M 8.576E-03 1/M

TEST U73 AUGUST 8, 1968 0140 TU 0210 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
5000M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
112.0	0	0.	0.	4990
114.0	4	1.496E-09	8.220E-09	5080
116.0	51	1.659E-09	9.123E-08	5020
118.0	596	1.938E-07	1.066E-06	5100
120.0	612	1.991E-07	1.095E-06	5130
122.0	2700	8.778E-07	4.828E-06	4830
124.0	362	1.177E-07	6.476E-07	4660
126.0	238	7.736E-08	4.255E-07	4770
128.0	17	5.847E-09	3.216E-08	4900
130.0	0	2.719E-10	1.496E-09	4970

CROSSWIND INTEGRATED= 2.544E-04 SEC/SQ.M 1.399E-03 1/M

TEST U73 AUGUST 8, 1968 1407 TU 2107 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
2200M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
3 108.0	0	4.071E-10	2.646E-09	2200
8 110.0	0	1.018E-10	6.615E-10	2200
7 112.0	1	5.815E-10	3.780E-09	2200
114.0	130	6.077E-08	3.950E-07	2200
116.0	1478	6.866E-07	4.463E-06	2200
118.0	2432	1.129E-06	7.340E-06	2200
C 120.0	4174	1.938E-06	1.260E-05	2200
122.0	8538	3.964E-06	2.577E-05	2200
124.0	6261	2.907E-06	1.890E-05	2200
126.0	4174	1.938E-06	1.260E-05	2200
128.0	1419	6.591E-07	4.284E-06	2200
4 130.0	157	7.298E-08	4.744E-07	2200
132.0	4	2.108E-09	1.370E-08	2200
O 134.0	9	4.361E-09	2.835E-08	2200
136.0	2	1.018E-09	6.615E-09	2200

CROSSWIND INTEGRATED= 1.026E-03 SEC/SQ.M 6.671E-03 1/M

TEST U73 AUGUST 8, 1968 1407 TU 2107 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
3200M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
112.7	5	2.728E-09	1.773E-08	3237
113.7	8	3.918E-09	2.547E-08	3238
114.6	238	1.106E-07	7.188E-07	3240
115.6	809	3.759E-07	2.443E-06	3241
116.6	1455	6.759E-07	4.394E-06	3243
117.6	3093	1.436E-06	9.335E-06	3245
118.6	2891	1.342E-06	8.726E-06	3246
119.5	4170	1.936E-06	1.258E-05	3248
120.5	5179	2.405E-06	1.563E-05	3249
121.5	7400	3.436E-06	2.233E-05	3251
122.4	6727	3.123E-06	2.030E-05	3252
123.4	5830	2.707E-06	1.759E-05	3253
124.4	8970	4.165E-06	2.707E-05	3255
125.4	6279	2.915E-06	1.895E-05	3256
126.3	2555	1.186E-06	7.711E-06	3258
127.3	962	4.468E-07	2.904E-06	3259
128.3	103	4.810E-08	3.127E-07	3261
129.3	3	1.736E-09	1.128E-08	3262

CROSSWIND INTEGRATED= 1.454E-03 SEC/SQ.M 9.449E-03 1/M

TEST U73 AUGUST 8, 1968 1407 TU 2107 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
5000M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
110.0	0	2.908E-11	1.890E-10	4920
112.0	6	3.053E-09	1.984E-08	4990
114.0	0	3.198E-10	2.079E-09	5080
116.0	31	1.483E-08	9.639E-08	5020
118.0	827	3.842E-07	2.498E-06	5100
120.0	2169	1.007E-06	6.546E-06	5130
122.0	2432	1.129E-06	7.339E-06	4830
124.0	1971	9.154E-07	5.950E-06	4660
126.0	1643	7.628E-07	4.950E-06	4770
128.0	216	1.003E-07	6.520E-07	4900
130.0	7	3.634E-09	2.362E-08	4970
132.0	1	4.652E-10	3.024E-09	4980
134.0	0	4.071E-10	2.646E-09	4990

CROSSWIND INTEGRATED= 7.362E-04 SEC/SQ.M 4.785E-03 1/M

TEST U73 AUGUST 8, 1968 0140 TO 0210 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
7000M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 20M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SFC/CM	EU/Q 1/SQ.M	DISTANCE METERS
7 112.0	0	0.	0.	7800
X 114.0	0	0.	0.	7210
116.0	65	2.121E-08	1.157E-07	7220
118.0	454	1.477E-07	8.121E-07	7190
120.0	4899	1.592E-06	8.758E-06	7150
122.0	5109	1.661E-06	9.134E-06	7120
6 124.0	611	1.988E-07	1.093E-06	7100
126.0	127	4.133E-08	2.273E-07	7100
4 128.0	0	0.	0.	7100
146.0	0	0.	0.	7100

CROSSWIND INTEGRATED= 9.121E-04 SEC/SQ.M  
5.017E-03 1/M

TEST U73 AUGUST 8, 1968 0140 TO 0210 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
12000M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 20M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SFC/CM	EU/Q 1/SQ.M	DISTANCE METERS
110.0	0	0.	0.	12800
6 111.0	4	1.350E-09	7.473E-09	12800
112.0	23	7.614E-09	4.186E-08	12800
113.0	77	2.529E-08	1.391E-07	12800
9 114.0	18	6.118E-09	3.365E-08	12800
7 115.0	57	1.876E-08	1.032E-07	12800
116.0	233	7.557E-08	4.173E-07	12800
117.0	1137	3.698E-07	2.034E-06	12800
118.0	334	1.086E-07	5.975E-07	12800
119.0	165	5.208E-08	2.864E-07	12800
120.0	208	6.771E-08	3.724E-07	12800
1 121.0	222	7.560E-08	4.150E-07	12800
122.0	229	7.355E-08	4.136E-07	12800
123.0	138	4.487E-08	2.456E-07	12800
4 124.0	115	3.739E-08	2.056E-07	12800
4 125.0	56	1.836E-08	1.019E-07	12800
4 126.0	5	1.768E-09	9.722E-09	12800
127.0	23	7.614E-09	4.186E-08	12800
5 128.0	11	3.807E-09	2.094E-08	12800
4 129.0	4	1.360E-09	7.478E-09	12800
7 130.0	0	0.	0.	12800
131.0	5	1.966E-09	1.047E-08	12800
4 132.0	0	0.	0.	12800

CROSSWIND INTEGRATED= 2.235E-04 SEC/SQ.M  
1.229E-03 1/M

TEST U73 AUGUST 8, 1968 1407 TO 2107 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
7000M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
116.0	4	2.312E-09	1.502E-08	7220
118.0	64	2.979E-08	1.936E-07	7190
120.0	1182	5.491E-07	3.569E-06	7150
122.0	3024	1.404E-06	9.125E-06	7120
6 124.0	1439	6.682E-07	4.343E-06	7100
126.0	85	3.986E-08	2.591E-07	7100
4 128.0	2	1.352E-09	8.788E-09	7100
130.0	1	5.815E-10	3.780E-09	7100
0 132.0	0	2.035E-10	1.323E-09	7150
134.0	0	3.053E-10	1.984E-09	7200
9 136.0	0	2.617E-10	1.701E-09	7250
4 138.0	2	1.134E-09	7.371E-09	7300

CROSSWIND INTEGRATED= 6.705E-04 SEC/SQ.M  
4.358E-03 1/M

TEST U73 AUGUST 8, 1968 1407 TO 2107 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
12000M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SFC/CM	EU/Q 1/SQ.M	DISTANCE METERS
110.0	0	3.198E-10	2.079E-09	12800
6 111.0	10	4.652E-09	3.024E-08	12800
112.0	10	5.028E-09	3.307E-08	12800
9 113.0	23	1.090E-08	7.087E-08	12800
7 114.0	46	2.137E-08	1.389E-07	12800
115.0	86	4.627E-08	2.618E-07	12800
116.0	227	1.057E-07	6.870E-07	12800
0 117.0	518	2.407E-07	1.565E-06	12800
5 118.0	275	1.278E-07	8.306E-07	12800
5 119.0	229	1.064E-07	6.917E-07	12800
5 120.0	73	3.402E-08	2.211E-07	12800
1 121.0	61	2.864E-08	1.862E-07	12800
1 122.0	57	2.660E-08	1.729E-07	12800
123.0	15	7.123E-09	4.630E-08	12800
4 124.0	48	2.268E-08	1.474E-07	12800
4 125.0	7	3.634E-09	2.362E-08	12800
1 126.0	5	2.617E-09	1.701E-08	12800
3 127.0	4	2.050E-09	1.332E-08	12800
1 128.0	3	1.483E-09	9.639E-09	12800
4 129.0	5	2.466E-09	1.616E-08	12800
7 130.0	3	1.575E-09	1.021E-08	12800
1 131.0	2	1.265E-09	8.221E-09	12800
4 132.0	1	8.723E-10	5.670E-09	12800
3 133.0	0	1.599E-10	1.039E-09	12800

CROSSWIND INTEGRATED= 1.784E-04 SEC/SQ.M  
1.159E-03 1/M

SAMPLING 400M TO 700M. NO TOWER SAMPLING.  
 TRACK SKEMED TO NORTH.  
 ALL AKCS EMBRACE CROSSWIND EXTENT OF TRACER.

TEST U74 AUGUST 29, 1968 0039 TO 0109 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 400M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
94.0	0	0.	0.	400
98.0	176	6.305E-08	2.900E-07	400
102.0	169	6.059E-08	2.787E-07	400
106.0	2379	8.522E-07	3.920E-06	400
110.0	6045	2.165E-06	9.961E-06	400
4 114.0	4157	1.489E-06	6.850E-06	400
118.0	2616	9.379E-07	4.314E-06	400
122.0	26	9.354E-09	4.305E-08	400
126.0	0	0.	0.	400

CROSSWIND INTEGRATED= 1.558E-04 SEC/SQ.M 7.165E-04 1/M

TEST U74 AUGUST 29, 1968 0039 TO 0109 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 400M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
94.0	0	0.	0.	800
97.0	94	3.359E-08	1.563E-07	400
97.1	877	3.145E-07	1.447E-06	806
99.1	1589	5.695E-07	2.619E-06	809
101.1	7893	2.827E-05	1.301E-05	913
103.0	5709	2.845E-06	9.426E-06	916
105.0	26889	9.681E-06	4.430E-05	820
106.7	22640	8.109E-06	3.730E-05	823
108.8	32976	1.181E-05	5.433E-05	826
110.7	34162	1.224E-05	5.629E-05	829
112.6	23185	9.304E-05	3.820E-05	933
114.5	60535	2.168E-05	9.974E-05	936
116.4	28253	1.612E-05	4.655E-05	839
118.3	7564	2.709E-06	1.246E-05	842
120.2	353	1.267E-07	5.827E-07	845
122.1	0	0.	0.	848

CROSSWIND INTEGRATED= 2.498E-03 SEC/SQ.M 1.149E-02 1/M

TEST U74 AUGUST 29, 1968 0039 TO 0109 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 1200M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
92.0	0	0.	0.	1200
94.0	16	6.059E-09	2.787E-08	1200
96.0	74	2.654E-08	1.221E-07	1200
98.0	646	2.317E-07	1.056E-06	1200
100.0	1705	6.107E-07	2.809E-06	1200
102.0	4866	1.743E-06	8.018E-06	1200
104.0	13774	4.934E-06	2.269E-05	1200
106.0	19810	7.095E-06	3.284E-05	1200
108.0	23637	8.466E-06	3.894E-05	1200
110.0	20373	7.297E-06	3.357E-05	1200
112.0	20852	7.469E-06	3.436E-05	1200
114.0	24447	8.756E-06	4.028E-05	1200
116.0	12952	4.639E-06	2.134E-05	1200
118.0	1468	5.259E-07	2.419E-06	1200
4 120.0	67	2.423E-08	1.115E-07	1200
122.0	0	0.	0.	1200

CROSSWIND INTEGRATED= 2.171E-03 SEC/SQ.M 9.986E-03 1/M

TEST U74 AUGUST 29, 1968 0039 TO 0109 PST  
 FLUORESCCEIN RELEASE FROM ELEVATION OF 56M  
 400M ARC SAMPLER HT 1.5M U= 6.2 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
86.0	3	1.322E-09	8.197E-09	400
90.0	3	1.359E-09	8.425E-09	400
94.0	3	1.285E-09	7.970E-09	400
3 98.0	1	3.673E-10	2.277E-09	400
102.0	1	3.673E-10	2.277E-09	400
106.0	0	2.975E-10	1.844E-09	400
110.0	1	5.147E-10	3.188E-09	400
4 114.0	2	9.182E-10	5.693E-09	400
118.0	1	4.774E-10	2.960E-09	400
122.0	0	8.814E-11	5.465E-10	400

CROSSWIND INTEGRATED= 1.954E-07 SEC/SQ.M 1.211E-06 1/M

TEST U74 AUGUST 29, 1968 0039 TO 0109 PST  
 FLUORESCCEIN RELEASE FROM ELEVATION OF 56M  
 800M ARC SAMPLER HT 1.5M U= 6.2 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
Z 90.0	0	0.	0.	800
105.0	1	3.651E-10	2.264E-09	820
106.9	0	2.556E-10	1.585E-09	823
108.8	0	1.095E-10	6.791E-10	826
110.7	6	2.312E-09	1.434E-08	829
112.6	373	1.271E-07	7.878E-07	833
114.5	30394	1.032E-05	6.401E-05	836
Z 116.4	33640	1.143E-05	7.087E-05	839
Z 118.3	19532	6.637E-06	4.115E-05	842
120.2	2555	8.682E-07	5.385E-06	845
122.1	1466	4.982E-07	3.089E-06	848
124.0	1	5.111E-10	3.169E-09	851

CROSSWIND INTEGRATED= 8.318E-04 SEC/SQ.M 5.157E-03 1/M

TEST U74 AUGUST 29, 1968 0039 TO 0109 PST  
 FLUORESCCEIN RELEASE FROM ELEVATION OF 56M  
 1200M ARC SAMPLER HT 1.5M U= 6.2 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
104.0	0	1.536E-10	9.525E-10	1200
106.0	0	2.192E-10	1.359E-09	1200
108.0	55	1.886E-08	1.169E-07	1200
110.0	42	1.456E-08	9.026E-08	1200
112.0	391	1.332E-07	8.256E-07	1200
114.0	12238	4.158E-06	2.578E-05	1200
116.0	15830	5.379E-06	3.335E-05	1200
118.0	13394	4.551E-06	2.822E-05	1200
4 120.0	1176	3.999E-07	2.479E-06	1200
122.0	22	7.594E-09	4.708E-08	1200
124.0	5	1.960E-09	1.215E-08	1200
126.0	7	2.391E-09	1.482E-08	1200
5 128.0	0	1.291E-10	8.001E-10	1200
130.0	0	1.659E-10	1.029E-09	1200

CROSSWIND INTEGRATED= 6.144E-04 SEC/SQ.M 3.809E-03 1/M

TEST U74 AUGUST 29, 1968 0039 TO 0109 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 1600M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SFC/CM	EU/Q 1/SQ.M	DISTANCE METERS
92.0	1	5.770E-10	2.654E-09	1600
93.6	0	0.	0.	1603
94.0	15	5.481E-09	2.521E-08	1600
94.6	30	1.076E-08	4.952E-08	1604
95.6	18	6.459E-09	2.971E-08	1606
96.6	126	4.521E-08	2.080E-07	1608
97.6	96	3.445E-08	1.585E-07	1610
98.6	432	1.550E-07	7.131E-07	1611
99.6	360	1.292E-07	5.942E-07	1613
100.6	769	2.756E-07	1.268E-06	1615
101.6	1650	5.910E-07	2.719E-06	1617
102.6	3991	1.430E-06	6.576E-06	1618
103.6	6660	2.385E-06	1.097E-05	1620
104.5	7582	2.716E-06	1.249E-05	1622
105.5	12292	4.403E-06	2.025E-05	1623
106.5	17657	6.324E-06	2.909E-05	1625
107.5	20311	7.275E-06	3.346E-05	1627
108.5	28540	1.022E-05	4.702E-05	1628
109.5	28053	1.005E-05	4.622E-05	1630
110.4	31684	1.135E-05	5.220E-05	1632
111.4	29258	1.048E-05	4.821E-05	1633
112.4	27434	9.826E-06	4.520E-05	1635
113.4	50084	1.794E-05	8.252E-05	1637
114.4	39101	1.400E-05	6.442E-05	1638
115.3	16226	5.812E-06	2.673E-05	1640
116.3	13329	4.774E-06	2.196E-05	1641
117.3	2701	9.678E-07	4.452E-06	1643
118.2	1175	4.209E-07	1.936E-06	1644
119.2	210	7.535E-08	3.466E-07	1646
120.2	0	0.	0.	1647

CROSSWIND INTEGRATED= 3.399E-03 SEC/SQ.M  
 1.564E-02 1/M

TEST U74 AUGUST 29, 1968 0039 TO 0109 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 2200M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
86.0	0	0.	0.	2200
88.0	4	1.644E-09	7.582E-09	2200
X 90.0	0	0.	0.	2200
X 92.0	14	5.095E-09	2.344E-08	2200
X 94.0	24	8.841E-09	4.067E-08	2200
96.0	50	1.798E-08	8.271E-08	2200
X 98.0	109	3.911E-08	1.799E-07	2200
X 100.0	56	2.304E-08	9.238E-08	2200
102.0	823	2.950E-07	1.357E-06	2200
E 104.0	1706	6.111E-07	2.811E-06	2200
106.0	3520	1.261E-06	5.600E-06	2200
108.0	10168	3.642E-06	1.675E-05	2200
F 110.0	9699	3.474E-06	1.598E-05	2200
112.0	8205	2.939E-06	1.352E-05	2200
F 114.0	2969	1.064E-06	4.893E-06	2200
116.0	2006	7.188E-07	3.307E-06	2200
S 118.0	479	1.716E-07	7.892E-07	2200
U 120.0	4	1.498E-09	6.893E-09	2200
T 122.0	0	0.	0.	2200
X 124.0	0	0.	0.	2200
126.0	0	0.	0.	2200

CROSSWIND INTEGRATED= 1.096E-03 SEC/SQ.M  
 5.041E-03 1/M

TLST U74 AUGUST 29, 1968 0039 TO 0109 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 1600M ARC SAMPLER HT 1.5M U= 6.2 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SFC/CM	EU/Q 1/SQ.M	DISTANCE METERS
Z 0.0	0	0.	0.	1600
108.5	1	3.853E-10	2.389E-09	1628
109.5	203	6.920E-08	4.290E-07	1630
110.4	3	1.220E-09	7.564E-09	1632
111.4	3	1.310E-08	8.121E-08	1633
112.4	3753	1.276E-06	7.903E-06	1635
113.4	6545	2.224E-06	1.379E-05	1637
114.4	10414	3.539E-06	2.194E-05	1638
115.3	30057	1.021E-05	6.332E-05	1640
116.3	54869	1.864E-05	1.156E-04	1641
117.3	32920	1.119E-05	6.935E-05	1643
118.2	22900	7.781E-06	4.824E-05	1644
119.2	16459	5.595E-06	3.467E-05	1646
120.2	2031	6.904E-07	4.281E-06	1647
121.2	919	3.124E-07	1.937E-06	1649
1 122.1	3	1.300E-09	8.061E-09	1650
123.1	0	3.371E-10	2.090E-09	1652
124.1	0	1.635E-10	1.045E-09	1653
125.0	31	1.069E-08	6.628E-08	1655
126.0	0	7.223E-11	4.479E-10	1656
1 126.9	3	1.300E-09	8.061E-09	1658

CROSSWIND INTEGRATED= 1.717E-03 SEC/SQ.M  
 1.064E-02 1/M

TEST U74 AUGUST 29, 1968 0039 TO 0109 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 2200M ARC SAMPLER HT 1.5M U= 6.2 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
X 104.0	0	0.	0.	2200
2 106.0	1	3.511E-10	2.177E-09	2200
108.0	0	9.576E-11	5.937E-10	2200
0 110.0	2	9.683E-10	6.003E-09	2200
2 112.0	240	8.172E-08	5.066E-07	2200
F 114.0	1824	6.200E-07	3.844E-06	2200
2 116.0	12461	4.234E-06	2.625E-05	2200
5 118.0	8874	3.015E-06	1.870E-05	2200
U 120.0	2561	8.703E-07	5.396E-06	2200
T 122.0	21	7.342E-09	4.552E-08	2200
X 124.0	19	6.451E-09	4.024E-08	2200
3 126.0	3	1.256E-09	7.784E-09	2200
128.0	5	1.766E-09	1.095E-08	2200
1 130.0	3	1.064E-09	6.597E-09	2200

CROSSWIND INTEGRATED= 6.789E-04 SEC/SQ.M  
 4.209E-03 1/M

TEST U74 AUGUST 29, 1968 0039 TU 0109 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 3200M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 26M

AZIMUTH EXPOSURE E/Q LU/Q DISTANCE  
 DEGREES GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS  
 X10E+6

89.8	0	0.	0.	3200
90.8	8	2.921E-09	1.344E-08	3199
91.8	24	8.763E-09	4.031E-08	3201
92.8	67	2.434E-08	1.120E-07	3203
93.8	587	2.103E-07	9.674E-07	3205
94.8	689	2.464E-07	1.135E-06	3206
95.8	827	2.465E-07	1.364E-06	3208
96.8	981	3.515E-07	1.617E-06	3210
97.8	392	1.407E-07	6.472E-07	3212
98.8	1149	4.119E-07	1.895E-06	3213
99.8	941	3.374E-07	1.552E-06	3215
100.8	1361	4.878E-07	2.244E-06	3217
101.8	1307	4.683E-07	2.154E-06	3218
102.8	1620	5.803E-07	2.669E-06	3220
103.8	1380	4.946E-07	2.275E-06	3222
104.8	1723	6.173E-07	2.840E-06	3224
105.8	3044	1.090E-06	5.016E-06	3225
106.8	2719	9.741E-07	4.481E-06	3227
107.8	5352	1.917E-06	8.619E-06	3229
E 108.8	5807	2.080E-06	9.563E-06	3230
E 109.7	5079	1.819E-06	8.369E-06	3232
E 110.7	4296	1.539E-06	7.079E-06	3233
111.7	3668	1.314E-06	6.044E-06	3235
112.7	3297	1.181E-06	5.433E-06	3237
113.7	4291	1.537E-06	7.070E-06	3238
114.6	6325	2.266E-06	1.042E-05	3240
115.6	7704	2.759E-06	1.269E-05	3241
116.6	4171	1.494E-06	6.873E-06	3243
117.6	2162	7.745E-07	3.563E-06	3245
118.6	368	1.319E-07	6.069E-07	3246
119.5	29	1.071E-08	4.927E-08	3248
120.5	2	9.737E-10	4.479E-09	3249

CROSSWIND INTEGRATED= 1.420E-03 6.532E-03  
 SEC/SQ.M 1/M

TEST U74 AUGUST 29, 1968 0039 TU 0109 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 5000M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 26M

AZIMUTH EXPOSURE E/Q LU/Q DISTANCE  
 DEGREES GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS  
 X10E+6

90.0	0	1.498E-10	6.893E-10	4610
92.0	153	5.499E-08	2.530E-07	4620
94.0	494	1.773E-07	8.154E-07	4620
96.0	348	1.250E-07	5.749E-07	4620
98.0	266	9.560E-08	4.398E-07	4660
100.0	594	2.128E-07	9.788E-07	4690
102.0	536	1.923E-07	8.844E-07	4710
104.0	733	2.628E-07	1.209E-06	4770
106.0	2723	9.753E-07	4.487E-06	4810
108.0	5211	1.867E-06	8.596E-06	4970
110.0	1708	6.120E-07	2.815E-06	4920
112.0	945	3.325E-07	1.557E-06	4990
114.0	3381	1.211E-06	5.571E-06	5080
116.0	792	2.638E-07	1.306E-06	5020
118.0	292	1.049E-07	4.325E-07	5100
120.0	93	3.357E-08	1.544E-07	5130
122.0	0	1.498E-10	6.893E-10	4630
124.0	2	8.991E-10	4.136E-09	4660
126.0	0	0.	0.	4770

CROSSWIND INTEGRATED= 1.118E-03 5.142E-03  
 SEC/SQ.M 1/M

TEST U74 AUGUST 29, 1968 0039 TU 0109 PST  
 FLUORESCCEIN RELEASE FROM ELEVATION OF 56M  
 3200M ARC SAMPLER HT 1.5M U= 6.2 M/SEC AT 56M

AZIMUTH EXPOSURE E/Q LU/Q DISTANCE  
 DEGREES GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS  
 X10E+6

Z 0.0	0	0.	0.	3200
100.8	0	0.	0.	3217
101.8	49	1.673E-08	1.037E-07	3218
102.8	26	9.111E-09	5.644E-08	3220
103.8	43	1.492E-08	9.249E-08	3222
104.8	68	2.327E-08	1.443E-07	3224
105.8	220	7.481E-08	4.638E-07	3225
106.8	46	1.564E-08	9.699E-08	3227
107.8	191	6.501E-08	4.031E-07	3229
E 108.8	351	1.195E-07	7.406E-07	3230
E 109.7	661	2.247E-07	1.393E-06	3232
E 110.7	1210	4.113E-07	2.550E-06	3233
111.7	2152	7.314E-07	4.535E-06	3235
112.7	2152	7.314E-07	4.535E-06	3237
113.7	2960	1.006E-06	6.236E-06	3238
114.6	4306	1.463E-06	9.072E-06	3240
115.6	7119	2.419E-06	1.500E-05	3241
Z 116.6	5158	1.753E-06	1.087E-05	3243
117.6	9061	3.079E-06	1.909E-05	3245
118.6	5607	1.905E-06	1.181E-05	3246
119.5	1816	6.171E-07	3.826E-06	3248
120.5	582	1.979E-07	1.227E-06	3249
121.5	214	7.285E-08	4.517E-07	3251
122.4	1	5.445E-10	3.376E-09	3252
123.4	10	3.485E-09	2.160E-08	3253
124.4	4	1.416E-09	8.777E-09	3255
125.4	2	9.074E-10	5.626E-09	3256
126.3	0	1.742E-10	1.080E-09	3258

CROSSWIND INTEGRATED= 8.310E-04 5.152E-03  
 SEC/SQ.M 1/M

TEST U74 AUGUST 29, 1968 0039 TU 0109 PST  
 FLUORESCCEIN RELEASE FROM ELEVATION OF 56M  
 5000M ARC SAMPLER HT 1.5M U= 6.2 M/SEC AT 56M

AZIMUTH EXPOSURE E/Q LU/Q DISTANCE  
 DEGREES GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS  
 X10E+6

92.0	0	0.	0.	4620
94.0	0	3.192E-10	1.979E-09	4620
96.0	0	3.192E-10	1.979E-09	4620
98.0	2	8.299E-10	5.146E-09	4660
100.0	13	4.575E-09	2.837E-08	4690
102.0	24	8.299E-09	5.146E-08	4710
104.0	55	1.883E-08	1.168E-07	4770
106.0	93	3.160E-08	1.959E-07	4810
108.0	216	7.342E-08	4.552E-07	4870
110.0	472	1.606E-07	9.955E-07	4920
112.0	1577	5.359E-07	3.323E-06	4990
114.0	3225	1.096E-06	6.794E-06	5080
116.0	3319	1.128E-06	6.994E-06	5020
118.0	3414	1.160E-06	7.194E-06	5100
E 120.0	1675	5.693E-07	3.529E-06	5130
E 122.0	492	1.673E-07	1.037E-06	4830
124.0	1	5.746E-10	3.562E-09	4660
126.0	1	4.150E-10	2.573E-09	4770
E 128.0	0	1.596E-10	8.895E-10	4900

CROSSWIND INTEGRATED= 8.731E-04 5.413E-03  
 SEC/SQ.M 1/M

TEST U74 AUGUST 29, 1968 0039 TO 0109 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 7000M ARC SAMPLER HT 1.5M U= 6.6 M/SEC AT 26M

AZIMUTH EXPOSURE E/Q L/J/Q DISTANCE  
 DEGREES GM-SEC/CM<sup>3</sup> SEC/CM<sup>3</sup> 1/50.M METERS  
 X10E+6

90.0	0	0.	0.	6500
92.0	8	3.147E-09	1.448E-08	6490
94.0	6	2.394E-09	1.152E-08	6500
96.0	42	1.513E-08	6.962E-08	6510
98.0	87	3.132E-08	1.441E-07	6520
100.0	98	3.536E-08	1.627E-07	6560
102.0	215	7.702E-08	3.543E-07	6510
104.0	95	3.416E-08	1.572E-07	6650
106.0	259	9.245E-08	4.253E-07	6720
S 108.0	318	1.140E-07	5.245E-07	6800
H 110.0	1958	7.014E-07	3.227E-06	7000
S 112.0	108	3.881E-08	1.785E-07	7300
S 114.0	76	2.742E-08	1.251E-07	7210
116.0	83	2.982E-08	1.374E-07	7220
F 118.0	92	3.312E-08	1.523E-07	7190
H 120.0	70	2.532E-08	1.165E-07	7150
U 122.0	0	0.	0.	7120
7 124.0	0	2.997E-10	1.379E-09	7100
126.0	0	0.	0.	7100

CROSSWIND INTEGRATED= 3.048E-04 1.402E-03  
 SEC/50.M 1/M

TEST U74 AUGUST 29, 1968 0039 TO 0109 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 7000M ARC SAMPLER HT 1.5M U= 6.2 M/SEC AT 56M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
 DEGREES GM-SEC/CM<sup>3</sup> SEC/CM<sup>3</sup> 1/50.M METERS  
 X10E+6

100.0	0	5.320E-11	3.298E-10	6560
102.0	2	8.619E-10	5.344E-09	6610
104.0	3	1.213E-09	7.521E-09	6650
106.0	8	2.969E-09	1.841E-08	6720
T 108.0	38	1.318E-08	8.174E-08	6800
F 110.0	282	9.586E-08	5.943E-07	7000
S 112.0	367	1.249E-07	7.744E-07	7300
S 114.0	1577	5.360E-07	3.323E-06	7210
116.0	1709	5.807E-07	3.601E-06	7220
F 118.0	919	3.126E-07	1.938E-06	7190
S 120.0	328	1.115E-07	6.913E-07	7150
U 122.0	0	2.234E-10	1.385E-09	7120
7 124.0	0	5.320E-11	3.298E-10	7100
4 126.0	0	2.766E-10	1.715E-09	7100
X 128.0	0	1.596E-10	9.895E-10	7100

CROSSWIND INTEGRATED= 4.473E-04 2.773E-03  
 SEC/50.M 1/M



SAMPLING 400M TO 12800M, BUT NO TRACER OBSERVED AT 12800M. NO TOWER SAMPLING.  
 5000M AND 7000M ARCS TRUNCATED ON NORTH. WIND SPEED MEASURED AT 12800M ARC AVERAGED ABOUT 0.2 M/SEC AT 1.5M  
 ELEVATION. RELATIVELY LARGE DIRECTION SHEAR WITH ELEVATION (ABOUT 20 DEGREES FROM 15M TO 61M).

TEST U75 AUGUST 30, 1968 0031 TO 0101 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 400M ARC SAMPLER HT 1.5M U = 2.9 M/SEC AT 26M

AZIMUTH DFGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
62.0	5	2.052E-09	5.951E-09	400
66.0	86	3.078E-08	8.926E-08	400
70.0	594	2.114E-07	6.129E-07	400
74.0	13389	4.756E-06	1.379E-05	400
78.0	2980	1.059E-06	3.071E-06	400
82.0	1273	4.525E-07	1.312E-06	400
86.0	3083	1.095E-06	3.176E-06	400
90.0	860	3.057E-07	8.867E-07	400
94.0	0	0.	0.	400

CROSSWIND INTEGRATED= 2.210E-04 6.408E-04  
 SEC/SQ.M 1/M

TEST U75 AUGUST 30, 1968 0031 TO 0101 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 800M ARC SAMPLER HT 1.5M U = 2.9 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
58.0	0	0.	0.	800
61.0	24	8.721E-09	2.529E-08	800
64.0	72	2.565E-08	7.436E-08	800
67.0	199	7.079E-08	2.053E-07	800
70.0	1550	5.510E-07	1.598E-06	800
73.0	1911	6.792E-07	1.970E-06	800
E 76.0	2856	1.015E-06	2.943E-06	800
E 79.0	7275	2.584E-06	7.495E-06	800
E 82.0	9094	3.231E-06	9.369E-06	800
F 85.0	4545	1.615E-06	4.683E-06	800
88.0	2044	7.264E-07	2.107E-06	800
91.0	642	2.283E-07	6.620E-07	800
94.0	131	4.668E-08	1.354E-07	800
97.0	0	0.	0.	800

CROSSWIND INTEGRATED= 4.516E-04 1.310E-03  
 SEC/SQ.M 1/M

TEST U75 AUGUST 30, 1968 0031 TO 0101 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 400M ARC SAMPLER HT 1.5M U = 2.5 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
62.0	0	3.072E-10	7.679E-10	400
66.0	3	1.152E-09	2.880E-09	400
70.0	0	3.840E-11	9.599E-11	400
74.0	0	0.	0.	400
78.0	2	9.215E-10	2.304E-09	400
2 82.0	8	3.149E-09	7.871E-09	400
86.0	1224	4.349E-07	1.067E-06	400
Z 90.0	1541	5.478E-07	1.369E-06	400
94.0	5446	1.935E-06	4.837E-06	400
4 98.0	21	7.526E-09	1.881E-08	400
102.0	9	3.379E-09	8.447E-09	400
106.0	1	4.608E-10	1.152E-09	400
110.0	8	2.918E-09	7.295E-09	400
3 114.0	7	2.608E-09	6.719E-09	400

CROSSWIND INTEGRATED= 8.210E-05 2.052E-04  
 SEC/SQ.M 1/M

TEST U75 AUGUST 30, 1968 0031 TO 0101 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 800M ARC SAMPLER HT 1.5M U = 2.5 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
70.0	0	1.421E-10	3.552E-10	800
73.0	1	6.143E-10	1.536E-09	800
E 76.0	9	3.225E-09	8.063E-09	800
F 79.0	49	1.751E-08	4.377E-08	800
E 82.0	171	6.090E-08	1.522E-07	800
E 85.0	517	1.838E-07	4.594E-07	800
88.0	1564	5.558E-07	1.390E-06	800
91.0	10439	3.709E-06	9.271E-06	800
Z 94.0	4084	1.451E-06	3.627E-06	800
97.0	3267	1.161E-06	2.901E-06	800
99.1	3306	1.175E-06	2.937E-06	806
F 99.1	4360	1.549E-06	3.872E-06	809
101.1	5638	2.003E-06	5.008E-06	813
103.0	3457	1.228E-06	3.071E-06	816
105.0	1	6.744E-10	1.686E-09	820

CROSSWIND INTEGRATED= 4.263E-04 1.066E-03  
 SEC/SQ.M 1/M

TEST U75 AUGUST 30, 1968 0031 TO 0101 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 1200M ARC SAMPLER HT 1.5M U= 2.9 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
62.0	1	5.722E-10	1.660E-09	1200
64.0	20	7.439E-09	2.157E-08	1200
66.0	405	1.439E-07	4.174E-07	1200
68.0	350	1.245E-07	3.609E-07	1200
70.0	2502	4.890E-07	2.578E-06	1200
72.0	5408	1.921E-06	5.572E-06	1200
74.0	6350	2.256E-06	6.542E-06	1200
76.0	11140	3.958E-06	1.148E-05	1200
78.0	5812	2.065E-06	5.968E-06	1200
80.0	9550	3.393E-06	9.838E-06	1200
82.0	6450	2.292E-06	6.646E-06	1200
84.0	4061	1.443E-06	4.184E-06	1200
86.0	5342	1.898E-06	5.504E-06	1200
88.0	919	3.268E-07	9.476E-07	1200
90.0	1968	6.987E-07	2.026E-06	1200
92.0	327	1.165E-07	3.377E-07	1200
94.0	6	2.289E-09	6.638E-09	1200
96.0	0	0.	0.	1200

CROSSWIND INTEGRATED= 4.020E-04 SEC/SQ.M  
 2.616E-03 1/M

TEST U75 AUGUST 30, 1968 0031 TO 0101 PST  
 FLUORESCCEIN RELEASE FROM ELEVATION OF 56M  
 1200M ARC SAMPLER HT 1.5M U= 2.5 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
70.0	0	0.	0.	1200
72.0	1	4.712E-10	1.178E-09	1200
74.0	0	0.	0.	1200
76.0	7	2.549E-09	6.371E-09	1200
78.0	0	0.	0.	1200
80.0	0	0.	0.	1200
82.0	0	0.	0.	1200
84.0	245	8.733E-08	2.183E-07	1200
86.0	821	2.919E-07	7.296E-07	1200
88.0	3163	1.124E-06	2.810E-06	1200
90.0	7670	2.725E-06	6.812E-06	1200
92.0	11689	4.153E-06	1.038E-05	1200
Z 94.0	10593	3.763E-06	9.408E-06	1200
Z 96.0	5113	1.816E-06	4.541E-06	1200
Z 98.0	2467	8.765E-07	2.191E-06	1200
Z 100.0	1100	3.908E-07	9.770E-07	1200
Z 102.0	872	3.098E-07	7.746E-07	1200
104.0	685	2.437E-07	6.092E-07	1200
106.0	740	2.629E-07	6.574E-07	1200
9 108.0	595	2.115E-07	5.289E-07	1200
110.0	0	0.	0.	1200
3 112.0	0	2.570E-10	6.425E-10	1200
114.0	0	1.927E-10	4.819E-10	1200
116.0	1	6.853E-10	1.713E-09	1200

CROSSWIND INTEGRATED= 6.811E-04 SEC/SQ.M  
 1.703E-03 1/M

TEST U75 AUGUST 30, 1968 0031 TO 0101 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 1600M ARC SAMPLER HT 1.5M U= 2.9 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
62.0	0	0.	0.	1600
64.0	78	2.804E-08	8.132E-08	1600
66.0	211	7.496E-08	2.174E-07	1600
68.0	95	3.405E-08	9.874E-08	1600
70.0	375	3.110E-07	9.019E-07	1600
72.0	4234	1.524E-06	4.362E-06	1600
74.0	2359	8.383E-07	2.431E-06	1600
76.0	1015	3.608E-07	1.046E-06	1600
78.0	565	2.009E-07	5.825E-07	1600
80.0	3042	1.081E-06	3.135E-06	1600
82.0	1477	5.248E-07	1.522E-06	1600
84.0	1005	3.574E-07	1.036E-06	1600
86.0	316	1.124E-07	3.261E-07	1600
P 88.0	2443	8.661E-07	2.517E-06	1600
P 90.0	1815	6.449E-07	1.870E-06	1600
92.0	179	6.381E-08	1.850E-07	1600
93.6	162	5.765E-08	1.672E-07	1603
94.0	0	0.	0.	1600
94.6	0	0.	0.	1604

CROSSWIND INTEGRATED= 3.925E-04 SEC/SQ.M  
 1.138E-03 1/M

TEST U75 AUGUST 30, 1968 0031 TO 0101 PST  
 FLUORESCCEIN RELEASE FROM ELEVATION OF 56M  
 1600M ARC SAMPLER HT 1.5M U= 2.5 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
78.0	0	0.	0.	1600
80.0	0	0.	0.	1600
82.0	98	3.127E-08	7.817E-08	1600
84.0	170	6.050E-08	1.513E-07	1600
86.0	353	1.257E-07	3.143E-07	1600
P 88.0	1138	4.045E-07	1.011E-06	1600
P 90.0	5844	2.076E-06	5.191E-06	1600
92.0	6077	2.141E-06	5.353E-06	1600
93.6	8623	3.064E-06	7.659E-06	1603
Z 94.0	10046	3.569E-06	8.922E-06	1600
94.6	10409	3.696E-06	9.245E-06	1604
95.6	5945	2.112E-06	5.220E-06	1606
96.6	3961	1.372E-06	3.430E-06	1608
97.6	3564	1.266E-06	3.166E-06	1610
98.6	1977	7.023E-07	1.756E-06	1611
99.6	1183	4.204E-07	1.051E-06	1613
100.6	1282	4.556E-07	1.139E-06	1615
101.6	2225	7.904E-07	1.976E-06	1617
102.6	890	3.163E-07	7.909E-07	1618
103.6	1457	5.177E-07	1.294E-06	1620
104.5	1292	4.590E-07	1.147E-06	1622
105.5	311	1.108E-07	2.769E-07	1623
106.5	583	2.073E-07	5.181E-07	1625
107.5	583	2.073E-07	5.181E-07	1627
108.5	0	0.	0.	1628
109.5	0	8.391E-11	2.098E-10	1630

CROSSWIND INTEGRATED= 7.268E-04 SEC/SQ.M  
 1.617E-03 1/M

TEST U75 AUGUST 30, 1968 0031 TO 0101 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 3200M ARC SAMPLER HT 1.5M U= 2.9 M/SEC AT 26M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
 DEGREES GM-SEC/CM SEC/CM I/SQ.M METERS  
 X10E+6

58.0	0	0.	0.	2200
60.0	61	2.170E-08	6.293E-04	2200
62.0	0	0.	0.	2200
64.C	11	4.161E-09	1.207E-08	2200
4 66.0	18	6.539E-09	1.896E-08	2200
68.0	0	0.	0.	2200
70.0	353	1.256E-07	3.642E-07	2200
72.0	2014	7.158E-07	2.076E-06	2200
74.0	1514	5.387E-07	1.561E-06	2200
E 76.0	663	2.357E-07	6.836E-07	2200
78.0	292	1.039E-07	3.013E-07	2200
80.0	637	2.265E-07	6.568E-07	2200
82.0	6692	2.377E-06	6.894E-06	2200
84.0	268	9.527E-08	2.763E-07	2200
86.0	607	2.156E-07	6.254E-07	2200
88.0	319	1.134E-07	3.289E-07	2200
90.0	102	3.656E-08	1.060E-07	2200
92.0	0	0.	0.	2200

CROSSWIND INTEGRATED= 3.699E-04 1.073E-03  
 SEC/SC.M I/M

TEST U75 AUGUST 30, 1968 0031 TO 0101 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 2200M ARC SAMPLER HT 1.5M U= 2.5 M/SEC AT 56M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
 DEGREES GM-SEC/CM SEC/CM I/SQ.M METERS  
 X10E+6

2 78.0	0	0.	0.	2200
2 80.0	47	1.702E-08	4.255E-08	2200
2 82.0	111	3.971E-08	9.928E-08	2200
3 84.0	288	1.025E-07	2.561E-07	2200
1 86.0	689	2.450E-07	6.124E-07	2200
2 88.0	2695	9.574E-07	2.394E-06	2200
2 90.0	4458	1.564E-06	3.960E-06	2200
3 92.0	7589	2.696E-06	6.740E-06	2200
2 94.0	8222	2.921E-06	7.302E-06	2200
E 96.0	2560	9.097E-07	2.274E-06	2200
0 98.0	689	2.450E-07	6.124E-07	2200
4 100.0	1024	3.641E-07	9.102E-07	2200
3 102.0	1643	5.837E-07	1.459E-06	2200
3 104.0	926	3.291E-07	8.226E-07	2200
4 106.0	571	2.029E-07	5.073E-07	2200
4 108.0	99	3.526E-08	8.816E-08	2200
3 110.0	74	2.636E-08	6.591E-08	2200
E 112.0	13	4.672E-09	1.168E-08	2200
L 114.0	1	7.008E-10	1.752E-09	2200
5 116.0	0	0.	0.	2200
5 118.0	0	1.335E-10	3.337E-10	2200
4 120.0	0	1.446E-10	3.615E-10	2200

CROSSWIND INTEGRATED= 8.650E-04 2.163E-03  
 SEC/SC.M I/M

TEST U75 AUGUST 30, 1968 0031 TO 0101 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 3200M ARC SAMPLER HT 1.5M U= 2.9 M/SEC AT 26M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
 DEGREES GM-SEC/CM SEC/CM I/SQ.M METERS  
 X10E+6

60.0	0	0.	0.	3200
62.0	3	1.338E-09	3.879E-09	3200
64.0	35	1.263E-08	3.664E-08	3200
66.0	177	6.316E-08	1.832E-07	3200
68.0	154	5.484E-08	1.590E-07	3200
70.0	314	1.119E-07	3.241E-07	3200
72.7	1625	5.775E-07	1.675E-06	3168
73.7	2159	7.671E-07	2.225E-06	3170
74.7	1979	7.037E-07	2.039E-06	3172
75.7	2244	7.985E-07	2.314E-06	3173
76.8	2250	7.995E-07	2.319E-06	3175
77.8	2630	9.344E-07	2.710E-06	3177
W 78.8	8234	2.425E-06	8.484E-06	3179
W 79.8	4932	1.752E-06	5.081E-06	3180
W 80.8	7662	2.722E-06	7.894E-06	3182
81.8	1588	5.643E-07	1.636E-06	3184
82.8	549	1.952E-07	5.661E-07	3185
83.8	349	1.242E-07	3.602E-07	3187
84.8	478	1.698E-07	4.925E-07	3189
85.8	680	2.418E-07	7.013E-07	3191
86.8	79	2.839E-08	8.234E-08	3192
87.8	119	4.259E-08	1.235E-07	3194
88.8	64	2.464E-08	7.204E-08	3196
89.8	87	3.093E-08	8.969E-08	3198
90.8	22	8.112E-09	2.352E-08	3199
91.8	0	0.	0.	3201

CROSSWIND INTEGRATED= 8.049E-04 2.334E-03  
 SEC/SC.M I/M

TEST U75 AUGUST 30, 1968 0031 TO 0101 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 3200M ARC SAMPLER HT 1.5M U= 2.5 M/SEC AT 56M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
 DEGREES GM-SEC/CM SEC/CM I/SQ.M METERS  
 X10E+6

75.8	0	0.	0.	3200
76.8	0	1.138E-11	2.846E-11	3175
77.8	33	1.207E-08	3.017E-08	3177
78.8	36	1.283E-08	3.207E-08	3179
W 79.8	11	4.098E-09	1.025E-08	3180
80.8	28	1.017E-08	2.542E-08	3182
81.8	52	1.852E-08	4.630E-08	3184
82.8	85	3.028E-08	7.571E-08	3185
83.8	436	1.551E-07	3.878E-07	3187
84.8	928	3.297E-07	8.242E-07	3189
85.8	1479	5.255E-07	1.314E-06	3191
86.8	2152	7.646E-07	1.911E-06	3192
87.8	3229	1.147E-06	2.868E-06	3194
88.8	4642	1.649E-06	4.123E-06	3196
89.8	5393	1.916E-06	4.790E-06	3198
90.8	5609	1.993E-06	4.981E-06	3199
91.8	6148	2.184E-06	5.460E-06	3201
92.8	5824	2.069E-06	5.173E-06	3203
93.8	3363	1.195E-06	2.987E-06	3205
94.8	1950	6.928E-07	1.732E-06	3206
95.8	2425	1.004E-06	2.509E-06	3208
96.8	2152	7.646E-07	1.911E-06	3210
97.8	1367	4.857E-07	1.214E-06	3212
98.8	2152	7.646E-07	1.911E-06	3213
99.8	1389	4.936E-07	1.234E-06	3215
100.8	1008	3.581E-07	8.954E-07	3217
101.8	873	3.103E-07	7.758E-07	3218
102.8	1344	4.777E-07	1.194E-06	3220
103.8	783	2.785E-07	6.961E-07	3222

104.8	288	1.023E-07	2.559E-07	3224
105.8	479	1.703E-07	4.250E-07	3228
106.8	308	1.096E-07	2.740E-07	3227
107.8	500	1.779E-07	4.447E-07	3229
108.8	0	1.257E-10	3.131E-10	3230
109.7	0	5.692E-11	1.423E-10	3232
110.7	1	4.174E-10	1.044E-09	3233
111.7	0	1.430E-10	3.730E-10	3235
112.7	2	8.348E-10	2.087E-09	3237
113.7	2	7.590E-10	1.897E-09	3238
114.6	0	1.821E-10	4.554E-10	3240
115.6	5	1.025E-09	2.561E-09	3241
116.6	2	7.969E-10	1.992E-09	3243
117.6	26	9.411E-09	2.353E-08	3245
118.6	9	3.529E-09	8.823E-09	3246
119.5	2	9.487E-10	2.372E-09	3248
120.5	0	1.440E-10	3.700E-10	3249
121.5	0	6.831E-11	1.708E-10	3251

CROSSWIND INTEGRATED= 1.131E-03 SEC/SQ.M 2.827E-03 1/M

TEST U75 AUGUST 30, 1968 0031 TO 0101 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
5000M ARC SAMPLER HT 1.5M U= 2.9 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS	
0	82.0	550	1.954E-07	5.660E-07	4630
4	84.0	2073	7.366E-07	2.130E-06	4620
4	86.0	60	2.155E-08	6.250E-08	4610
4	88.0	8	2.972E-09	8.620E-09	4610
	93.0	0	0.	0.	4610

CROSSWIND INTEGRATED= 1.543E-04 SEC/SQ.M 4.475E-04 1/M

TEST U75 AUGUST 30, 1968 0031 TO 0101 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 56M  
5000M ARC SAMPLER HT 1.5M U= 2.5 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS	
0	82.0	240	0.560E-08	2.143E-07	4630
4	84.0	784	2.795E-07	6.567E-07	4620
4	86.0	688	2.445E-07	6.111E-07	4610
4	88.0	964	3.426E-07	8.384E-07	4610
1	90.0	1510	5.365E-07	1.341E-06	4610
4	92.0	7026	7.233E-07	1.803E-06	4620
5	94.0	405	3.215E-07	8.039E-07	4620
8	96.0	865	3.075E-07	7.688E-07	4620
0	98.0	145	6.671E-08	1.673E-07	4660
2	100.0	285	1.070E-07	2.549E-07	4690
3	102.0	98	3.491E-08	8.777E-08	4710
3	104.0	1	5.400E-10	1.251E-09	4770
2	106.0	16	5.951E-09	1.483E-08	4810
2	108.0	0	6.674E-11	1.664E-10	4870

CROSSWIND INTEGRATED= 4.922E-04 SEC/SQ.M 1.231E-03 1/M

TEST U75 AUGUST 30, 1968 0031 TO 0101 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
7000M ARC SAMPLER HT 1.5M U= 2.9 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS	
0	76.0	58	2.001E-08	6.034E-08	6280
	78.0	39	1.412E-08	4.095E-08	6300
4	80.0	253	9.006E-08	2.612E-07	6400
	82.0	10	3.716E-09	1.070E-08	6490
0	84.0	106	3.790E-08	1.099E-07	6500
5	86.0	0	0.	0.	6500

CROSSWIND INTEGRATED= 3.723E-05 SEC/SQ.M 1.080E-04 1/M

TEST U75 AUGUST 30, 1968 0031 TO 0101 P  
FLUORESCCEIN RELEASE FROM ELEVATION OF 56M  
7000M ARC SAMPLER HT 1.5M U= 2.5 M/SEC AT 56

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS	
0	76.0	89	3.170E-08	7.926E-08	6280
3	78.0	108	3.871E-08	9.673E-08	6300
0	80.0	107	3.801E-08	9.503E-08	6400
	82.0	128	4.572E-08	1.143E-07	6490
0	84.0	261	9.291E-08	2.323E-07	6500
5	86.0	287	1.023E-07	2.556E-07	6500
0	88.0	557	1.980E-07	4.951E-07	6480
2	90.0	1083	3.849E-07	9.623E-07	6500
3	92.0	471	1.677E-07	4.192E-07	6490
4	94.0	268	9.524E-08	2.381E-07	6500
	96.0	138	4.922E-08	1.231E-07	6510
	98.0	35	1.248E-08	3.120E-08	6520
	100.0	9	3.359E-09	8.399E-09	6560
	102.0	1	6.674E-10	1.669E-09	6610

CROSSWIND INTEGRATED= 2.853E-04 SEC/SQ.M 7.132E-04 1/M

TEST U75 AUGUST 30, 1968 0031 TO 0101 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
12800M ARC SAMPLER HT 1.5M U= 2.9 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS	
	91.0	0	0.	0.	12800
	92.0	0	0.	0.	12800
	93.0	0	0.	0.	12800
	94.0	0	0.	0.	12800
	95.0	0	0.	0.	12800

CROSSWIND INTEGRATED= 0. SEC/SQ.M 0. 1/M

TEST U75 AUGUST 30, 1968 0031 TO 0101 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 56M  
12800M ARC SAMPLER HT 1.5M U= 2.5 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS	
N	90.0	0	0.	0.	12800

CROSSWIND INTEGRATED= 0. SEC/SQ.M 0. 1/M

SAMPLING 400M TO 700M. NO TOWER SAMPLING.

5000M AND 7000M ARCS TRUNCATED ON NORTH.

TEST U76 SEPTEMBER 16, 1968 0206 TO 0236 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
400M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
62.0	0	0.	0.	400
66.0	330	1.207E-07	7.840E-07	400
70.0	6380	2.329E-06	1.514E-05	400
74.0	24037	8.773E-06	5.702E-05	400
78.0	12367	4.514E-06	2.934E-05	400
82.0	17233	6.289E-06	4.068E-05	400
86.0	25629	9.354E-06	6.080E-05	400
90.0	16681	6.818E-06	4.432E-05	400
P 94.0	1400	5.112E-07	3.323E-06	400
P 98.0	0	0.	0.	400

CROSSWIND INTEGRATED= 1.001E-03 SEC/SQ.M 7.026E-03 1/M

TEST U76 SEPTEMBER 16, 1968 0206 TO 0236 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
800M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
64.0	0	0.	0.	800
67.0	937	3.421E-07	2.224E-06	800
70.0	20596	7.517E-06	4.886E-05	800
73.0	46962	1.714E-05	1.114E-04	800
76.0	13047	4.762E-06	3.095E-05	800
79.0	6193	2.260E-06	1.469E-05	800
82.0	12155	4.436E-06	2.884E-05	800
85.0	19961	7.285E-06	4.735E-05	800
88.0	16038	5.853E-06	3.805E-05	800
91.0	4275	1.560E-06	1.014E-05	800
94.0	81	2.971E-08	1.931E-07	800
97.0	0	0.	0.	800

CROSSWIND INTEGRATED= 2.144E-03 SEC/SQ.M 1.394E-02 1/M

TEST U76 SEPTEMBER 16, 1968 0206 TO 0236 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
1200M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
64.0	0	0.	0.	1200
64.0	57	2.100E-08	1.365E-07	1200
68.0	3184	1.162E-06	7.556E-06	1200
70.0	20338	7.423E-06	4.825E-05	1200
72.0	32983	1.204E-05	7.624E-05	1200
74.0	20520	7.489E-06	4.866E-05	1200
76.0	4759	1.737E-06	1.129E-05	1200
78.0	4135	1.509E-06	9.810E-06	1200
80.0	5756	2.101E-06	1.366E-05	1200
82.0	6236	2.276E-06	1.479E-05	1200
E 84.0	8964	3.272E-06	2.127E-05	1200
E 86.0	11174	4.078E-06	2.651E-05	1200
88.0	4224	3.367E-06	2.188E-05	1200
90.0	3296	1.203E-06	7.821E-06	1200
92.0	345	1.260E-07	8.189E-07	1200
94.0	0	0.	0.	1200

CROSSWIND INTEGRATED= 2.002E-03 SEC/SQ.M 1.332E-02 1/M

TEST U76 SEPTEMBER 16, 1968 0206 TO 0236 PST  
FLUORESCHEIN RELEASE FROM ELEVATION OF 56M  
400M ARC SAMPLER HT 1.5M U= 7.1 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
62.0	0	0.	0.	400
66.0	0	2.730E-10	1.938E-09	400
70.0	3	1.237E-09	8.780E-09	400
74.0	5	2.160E-09	1.534E-08	400
78.0	0	1.526E-10	1.083E-09	400
82.0	69	2.581E-08	1.832E-07	400
86.0	765	2.844E-07	2.019E-06	400
90.0	9	3.525E-09	2.503E-08	400
E 94.0	5	2.080E-09	1.477E-08	400
E 98.0	4	1.598E-09	1.135E-08	400
E 102.0	5	2.080E-09	1.477E-08	400
E 106.0	9	3.405E-09	2.417E-08	400
110.0	38	1.417E-08	1.006E-07	400
114.0	5	2.200E-09	1.562E-08	400
118.0	2	8.753E-10	6.215E-09	400
122.0	5	1.959E-09	1.391E-08	400

CROSSWIND INTEGRATED= 9.659E-06 SEC/SQ.M 6.858E-05 1/M

TEST U76 SEPTEMBER 16, 1968 0206 TO 0236 PST  
FLUORESCHEIN RELEASE FROM ELEVATION OF 56M  
800M ARC SAMPLER HT 1.5M U= 7.1 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
67.0	0	2.811E-11	1.996E-10	800
70.0	725	2.695E-07	1.913E-06	800
73.0	2654	9.862E-07	7.002E-06	800
76.0	6658	2.473E-06	1.756E-05	800
79.0	1519	5.646E-07	4.000E-06	800
82.0	997	3.706E-07	2.632E-06	800
85.0	5239	1.946E-06	1.382E-05	800
88.0	9824	3.649E-06	2.591E-05	800
91.0	1837	6.826E-07	4.847E-06	800
94.0	99	3.698E-08	2.626E-07	800
97.0	2	7.669E-10	5.445E-09	800
97.1	0	2.262E-10	1.606E-09	800
99.1	0	1.863E-10	1.323E-09	800

CROSSWIND INTEGRATED= 4.599E-04 SEC/SQ.M 3.265E-03 1/M

TEST U76 SEPTEMBER 16, 1968 0206 TO 0236 PST  
FLUORESCHEIN RELEASE FROM ELEVATION OF 56M  
1200M ARC SAMPLER HT 1.5M U= 7.1 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
66.0	0	0.	0.	1200
68.0	14	5.372E-09	3.814E-08	1200
70.0	619	2.307E-07	1.633E-06	1200
72.0	5190	1.928E-06	1.369E-05	1200
74.0	7123	2.646E-06	1.879E-05	1200
76.0	6758	2.510E-06	1.782E-05	1200
78.0	6027	2.239E-06	1.590E-05	1200
80.0	2506	9.309E-07	6.610E-06	1200
82.0	3291	1.223E-06	8.680E-06	1200
E 84.0	6335	2.539E-06	1.803E-05	1200
E 86.0	13394	4.976E-06	3.533E-05	1200
88.0	9498	3.528E-06	2.505E-05	1200
90.0	2620	9.733E-07	6.910E-06	1200
92.0	1290	4.795E-07	3.404E-06	1200
94.0	22	6.264E-09	5.881E-08	1200
96.0	0	2.441E-10	1.733E-09	1200
98.0	1	3.785E-10	2.687E-09	1200
100.0	0	1.030E-10	7.314E-10	1200

CROSSWIND INTEGRATED= 1.014E-03 SEC/SQ.M 7.202E-03 1/M

TEST U76 SEPTEMBER 16, 1968 0206 TO 0236 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
1600M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
64.0	0.	0.	0.	1600
66.0	85	3.10E-08	2.020E-07	1600
68.0	2274	8.301E-07	5.395E-06	1600
70.0	21261	7.760E-06	5.044E-05	1600
72.0	32187	1.175E-05	7.636E-05	1600
74.0	16268	5.865E-06	3.812E-05	1600
76.0	4877	1.760E-06	1.157E-05	1600
78.0	4180	1.526E-06	9.918E-06	1600
80.0	5476	1.979E-06	1.299E-05	1600
82.0	5291	1.931E-06	1.255E-05	1600
84.0	6054	2.210E-06	1.436E-05	1600
86.0	7928	2.894E-06	1.881E-05	1600
88.0	4777	1.744E-06	1.133E-05	1600
90.0	1377	5.028E-07	3.268E-06	1600
92.0	1	5.579E-10	3.637E-09	1600
94.0	0.	0.	0.	1600

CROSSWIND INTEGRATED= 2.230E-03 SEC/SQ.M  
1.482E-02 1/M

TEST U76 SEPTEMBER 16, 1968 0206 TO 0236 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
2200M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
62.0	0.	0.	0.	2200
64.0	3	1.374E-09	8.932E-09	2200
66.0	126	4.626E-09	3.007E-07	2200
68.0	1249	4.527E-07	2.943E-06	2200
70.0	11437	4.174E-06	2.713E-05	2200
72.0	14006	5.134E-06	3.337E-05	2200
74.0	2714	9.908E-07	6.440E-06	2200
76.0	3269	1.193E-06	7.755E-06	2200
78.0	1415	5.167E-07	3.359E-06	2200
80.0	949	3.465E-07	2.252E-06	2200
82.0	963	3.515E-07	2.285E-06	2200
84.0	1002	3.660E-07	2.379E-06	2200
86.0	1219	4.452E-07	2.694E-06	2200
88.0	49	1.817E-08	1.181E-07	2200
90.0	6	2.290E-09	1.489E-08	2200
92.0	0	0.	0.	2200

CROSSWIND INTEGRATED= 1.078E-03 SEC/SQ.M  
7.006E-03 1/M

TEST U76 SEPTEMBER 16, 1968 0206 TO 0236 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
1600M ARC SAMPLER HT 1.5M U= 7.1 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
64.0	0	4.703E-11	3.339E-10	1600
70.0	403	1.498E-07	1.064E-06	1600
Z 72.0	3924	1.458E-06	1.035E-05	1600
Z 74.0	5696	2.116E-06	1.502E-05	1600
76.0	11324	4.207E-06	2.987E-05	1600
78.0	5662	2.103E-06	1.493E-05	1600
80.0	4050	1.505E-06	1.069E-05	1600
Z 82.0	3670	1.364E-06	9.682E-06	1600
W 84.0	5063	1.881E-06	1.335E-05	1600
W 86.0	8950	3.325E-06	2.361E-05	1600
88.0	7089	2.633E-06	1.870E-05	1600
90.0	2506	9.309E-07	6.610E-06	1600
92.0	31	1.165E-08	8.270E-08	1600
E 93.6	4	1.755E-09	1.246E-08	1600
E 94.0	1	5.173E-10	3.673E-09	1600

CROSSWIND INTEGRATED= 1.211E-03 SEC/SQ.M  
8.598E-03 1/M

TEST U76 SEPTEMBER 16, 1968 0206 TO 0236 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
2200M ARC SAMPLER HT 1.5M U= 7.1 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
66.0	0	0.	0.	2200
68.0	0	3.141E-10	2.230E-09	2200
70.0	532	1.977E-07	1.403E-06	2200
72.0	2827	1.050E-06	7.456E-06	2200
74.0	4269	1.586E-06	1.126E-05	2200
76.0	6166	2.291E-06	1.626E-05	2200
3 78.0	4838	1.797E-06	1.276E-05	2200
80.0	2366	8.792E-07	6.242E-06	2200
82.0	1400	5.201E-07	3.693E-06	2200
84.0	2301	8.548E-07	6.069E-06	2200
86.0	3794	1.410E-06	1.001E-05	2200
Z 88.0	196	7.307E-08	5.188E-07	2200
90.0	21	7.817E-09	5.550E-08	2200
92.0	7	1.163E-10	8.259E-10	2200
X 94.0	9	1.501E-09	1.065E-08	2200
5 96.0	0	3.257E-10	2.313E-09	2200

CROSSWIND INTEGRATED= 8.193E-04 SEC/SQ.M  
5.817E-03 1/M

TEST U76 SEPTEMBER 16, 1968 0206 TO 0236 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
3200M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
64.0	0	0.	0.	3200
66.0	56	2.077E-08	1.350E-07	3200
68.0	1756	6.411E-07	4.167E-06	3200
70.0	7310	2.668E-06	1.734E-05	3200
72.7	10049	3.668E-06	2.384E-05	3168
73.7	12097	4.415E-06	2.870E-05	3170
74.7	8993	3.282E-06	2.134E-05	3172
75.7	6479	2.365E-05	1.537E-05	3173
76.8	4380	1.599E-06	1.039E-05	3175
77.8	2535	9.253E-07	6.014E-06	3177
78.8	1537	5.611E-07	3.647E-06	3179
79.8	1075	3.925E-07	2.552E-06	3180
80.8	1410	5.147E-07	3.346E-06	3182
81.8	1074	3.940E-07	2.561E-06	3184
82.8	2026	7.396E-07	4.808E-06	3185
83.8	1672	6.104E-07	3.967E-06	3187
84.8	704	2.571E-07	1.671E-06	3189
85.8	416	1.520E-07	9.880E-07	3191
86.8	49	1.799E-08	1.170E-07	3192
87.8	0	0.	0.	3194

CROSSWIND INTEGRATED= 1.709E-03 SEC/SQ.M  
1.111E-02 1/M

TEST U76 SEPTEMBER 16, 1968 0206 TO 0236 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
5000M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
82.0	366	1.338E-07	8.694E-07	4630
84.0	107	3.939E-08	2.561E-07	4620
86.0	5	1.985E-09	1.290E-08	4610
88.0	5	2.138E-09	1.389E-08	4610
90.0	12	4.420E-09	2.878E-08	4610
92.0	3	1.374E-09	8.932E-09	4620
94.0	3	1.222E-09	7.940E-09	4620
96.0	2	1.069E-09	6.947E-09	4620
98.0	3	1.374E-09	8.932E-09	4660
100.0	5	1.985E-09	1.290E-08	4690
102.0	0	0.	0.	4710

CROSSWIND INTEGRATED= 3.049E-05 SEC/SQ.M  
1.982E-04 1/M

TEST U76 SEPTEMBER 16, 1968 0206 TO 0236 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
7000M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
76.0	2540	9.273E-07	6.027E-06	6280
78.0	2552	9.314E-07	6.054E-06	6300
80.0	4414	1.611E-06	1.047E-05	6400
82.0	3793	1.384E-06	8.999E-06	6490
84.0	921	2.997E-07	1.948E-06	6500
86.0	666	2.432E-07	1.581E-06	6500
88.0	0	0.	0.	6480
90.0	399	1.460E-07	9.488E-07	6500
92.0	5	1.832E-09	1.191E-08	6490
94.0	0	0.	0.	6500
96.0	0	0.	0.	6510
98.0	0	0.	0.	6520
100.0	0	0.	0.	6650
104.0	0	0.	0.	7210
110.0	0	0.	0.	7150

CROSSWIND INTEGRATED= 1.238E-03 SEC/SQ.M  
8.649E-03 1/M

TEST U76 SEPTEMBER 16, 1968 0206 TO 0236 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
3200M ARC SAMPLER HT 1.5M U= 7.1 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
66.0	0	0.	0.	3200
68.0	40	1.487E-08	1.056E-07	3200
70.0	473	1.757E-07	1.248E-06	3200
72.7	3027	1.125E-06	7.985E-06	3168
73.7	5382	2.000E-06	1.420E-05	3170
74.7	6504	2.416E-06	1.716E-05	3172
75.7	6728	2.500E-06	1.775E-05	3173
76.8	7401	2.750E-06	1.952E-05	3175
77.8	6955	2.250E-06	1.597E-05	3177
78.8	6055	2.250E-06	1.597E-05	3179
79.8	2421	8.996E-07	6.387E-06	3180
80.8	2018	7.496E-07	5.322E-06	3182
81.8	2354	8.746E-07	6.210E-06	3184
82.8	2892	1.075E-06	7.630E-06	3185
83.8	4104	1.525E-06	1.082E-05	3187
84.8	2960	1.100E-06	7.807E-06	3189
85.8	1524	5.663E-07	4.021E-06	3191
86.8	640	2.378E-07	1.688E-06	3192
87.8	95	3.538E-08	2.512E-07	3194
88.8	1	6.984E-10	4.959E-09	3196
89.8	2	9.782E-10	6.931E-09	3198
90.8	0	0.	0.	3199

CROSSWIND INTEGRATED= 1.332E-03 SEC/SQ.M  
9.456E-03 1/M

TEST U76 SEPTEMBER 16, 1968 0206 TO 0236 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
5000M ARC SAMPLER HT 1.5M U= 7.1 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
82.0	1577	5.860E-07	4.161E-06	4630
84.0	159	5.912E-08	4.197E-07	4620
86.0	5	2.024E-09	1.437E-08	4610
88.0	0	8.143E-11	5.781E-10	4610
90.0	0	1.512E-10	1.074E-09	4610

CROSSWIND INTEGRATED= 1.046E-04 SEC/SQ.M  
7.427E-04 1/M

TEST U76 SEPTEMBER 16, 1968 0206 TO 0236 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
7000M ARC SAMPLER HT 1.5M U= 7.1 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
76.0	141	1.553E-08	1.103E-07	6280
78.0	571	2.122E-07	1.506E-06	6300
80.0	1708	6.348E-07	4.507E-06	6400
82.0	3024	1.123E-06	7.976E-06	6490
84.0	2037	7.569E-07	5.374E-06	6500
86.0	1399	5.200E-07	3.692E-06	6500
88.0	2	7.503E-10	5.327E-09	6480
90.0	406	1.511E-07	1.073E-06	6500
92.0	3	1.361E-09	9.663E-09	6490
94.0	0	5.816E-11	4.129E-10	6500

CROSSWIND INTEGRATED= 7.708E-04 SEC/SQ.M  
5.473E-03 1/M

SAMPLING 400M TO 1200M. NO TOWN SAMPLING. EXTREME SHIFT IN PLUME CENTERLINE LOCATION STARTING ABOUT 1600M. THE PLUME CENTERLINE SHIFT CAUSED TRUNCATION OR "MISSED PLUME" ON 1200, 3200, 5000, 7000 AND 12000 ARCS. FLUORESCIN WAS NOT ASSAYED FAR ENOUGH NORTH ON THE 1600M ARC TO BE SURE OF TRUNCATION.

TEST U77 SEPTEMBER 17, 1968 0050 TO 0120 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
400M ARC SAMPLER HT 1.5M U= 3.6 M/SEC AT 20M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
46.0	2	1.036E-09	3.731E-09	400
50.0	2	1.036E-09	3.731E-09	400
54.0	0	0.	0.	400
58.0	0	0.	0.	400
62.0	0	0.	0.	400
70.0	5	2.073E-09	7.462E-09	400
78.0	2	1.036E-09	3.731E-09	400
90.0	0	0.	0.	400
94.0	0	0.	0.	400
98.0	0	0.	0.	400
102.0	3472	1.308E-06	4.710E-06	400
106.0	17189	6.477E-06	2.332E-05	400
110.0	24173	9.108E-06	3.279E-05	400
114.0	11674	4.399E-06	1.504E-05	400
118.0	5457	2.056E-06	7.402E-06	400
122.0	3325	1.253E-06	4.511E-06	400
126.0	1	5.142E-10	1.866E-09	400

CROSSWIND INTEGRATED= 6.873E-04 2.474E-03  
SEC/SQ.M 1/M

TEST U77 SEPTEMBER 17, 1968 0050 TO 0120 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
800M ARC SAMPLER HT 1.5M U= 3.6 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
94.0	1	5.142E-10	1.866E-09	800
97.0	60	2.280E-08	8.208E-08	800
97.1	0	0.	0.	806
99.1	34	1.311E-08	4.721E-08	809
101.1	1840	6.933E-07	2.490E-06	813
103.0	7782	2.932E-06	1.056E-05	816
105.0	20450	7.706E-06	2.774E-05	820
106.9	29268	1.103E-05	3.970E-05	823
108.8	38212	1.440E-05	5.183E-05	826
110.7	24952	9.402E-06	3.365E-05	829
112.6	10579	3.986E-06	1.435E-05	833
114.5	27750	1.046E-05	3.764E-05	836
116.4	33344	1.256E-05	4.523E-05	839
118.3	34040	1.283E-05	4.617E-05	842
120.2	32074	1.209E-05	4.351E-05	845
122.1	9292	3.501E-06	1.260E-05	848
124.0	69	2.623E-08	9.441E-08	851
125.3	0	0.	0.	854

CROSSWIND INTEGRATED= 2.816E-03 1.014E-02  
SEC/SQ.M 1/M

TEST U77 SEPTEMBER 17, 1968 0050 TO 0120 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
400M ARC SAMPLER HT 1.5M U= 3.7 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+5	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
86.0	3	1.227E-09	4.540E-09	400
90.0	6	2.296E-09	8.493E-09	400
94.0	0	0.	0.	400
98.0	12	4.551E-09	1.684E-08	400
102.0	0	3.166E-10	1.172E-09	400
106.0	2040	7.472E-07	2.765E-06	400
110.0	1019	3.732E-07	1.381E-06	400
114.0	3811	1.396E-06	5.163E-06	400
118.0	2108	7.722E-07	2.857E-06	400
122.0	0	0.	0.	400

CROSSWIND INTEGRATED= 9.206E-05 3.406E-04  
SEC/SQ.M 1/M

TEST U77 SEPTEMBER 17, 1968 0050 TO 0120 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
800M ARC SAMPLER HT 1.5M U= 3.7 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
99.1	0	0.	0.	800
101.1	0	0.	0.	813
103.0	317	1.163E-07	4.304E-07	816
105.0	739	2.710E-07	1.003E-06	820
Z 106.9	6313	2.312E-06	8.554E-06	823
108.8	9021	3.303E-06	1.222E-05	826
110.7	5260	1.926E-06	7.127E-06	829
112.6	8569	3.138E-06	1.161E-05	833
Z 114.5	4357	1.596E-06	5.904E-06	836
116.4	6387	2.229E-06	8.248E-06	839
118.3	17294	6.333E-06	2.343E-05	842
120.2	12857	4.708E-06	1.742E-05	845
122.1	785	2.875E-07	1.064E-06	848
124.0	37	1.364E-08	5.047E-08	851
125.8	296	1.085E-07	4.013E-07	854
127.7	0	6.557E-11	2.426E-10	857

CROSSWIND INTEGRATED= 7.305E-04 2.703E-03  
SEC/SQ.M 1/M



TEST U77 SEPTEMBER 17, 1968 0050 TU 0120 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 1200M ARC SAMPLER HT 1.5M U= 3.6 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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P 48.0	42	1.604E-08	5.790E-08	1200
50.0	29	1.123E-08	4.042E-08	1200
52.0	22	8.497E-09	3.059E-08	1200
54.0	11	4.249E-09	1.530E-08	1200
56.0	25	9.711E-09	3.496E-08	1200
58.0	14	5.463E-09	1.967E-08	1200
60.0	12	4.856E-09	1.748E-08	1200
62.0	24	9.104E-09	3.278E-08	1200
64.0	35	1.335E-08	4.807E-08	1200
66.0	0	0.	0.	1200
68.0	12	4.856E-09	1.748E-08	1200
70.0	28	1.093E-08	3.933E-08	1200
72.0	5	2.124E-09	7.648E-09	1200
74.0	0	0.	0.	1200
76.0	0	0.	0.	1200
78.0	0	0.	0.	1200
80.0	0	0.	0.	1200
82.0	0	0.	0.	1200
84.0	0	0.	0.	1200
86.0	1	6.070E-10	2.185E-09	1200
88.0	0	0.	0.	1200
90.0	0	0.	0.	1200
92.0	0	0.	0.	1200
94.0	0	0.	0.	1200
96.0	11	4.249E-09	1.530E-08	1200
98.0	13	5.159E-09	1.857E-08	1200
100.0	108	4.097E-08	1.475E-07	1200
102.0	839	3.159E-07	1.137E-06	1200
104.0	2895	1.091E-06	3.928E-06	1200
106.0	13979	5.267E-06	1.896E-05	1200
4 108.0	13653	5.144E-06	1.852E-05	1200
110.0	23128	8.714E-06	3.137E-05	1200
112.0	15563	5.864E-06	2.111E-05	1200
114.0	15201	5.728E-06	2.062E-05	1200
116.0	20379	7.679E-06	2.764E-05	1200
118.0	33300	1.255E-05	4.517E-05	1200
120.0	14286	5.383E-06	1.938E-05	1200
122.0	1879	7.083E-07	2.550E-06	1200
X 124.0	0	0.	0.	1200
X 126.0	0	0.	0.	1200
128.0	0	0.	0.	1200

CROSSWIND INTEGRATED= 2.454E-03 8.836E-03  
 SEC/SQ.M 1/M

TEST U77 SEPTEMBER 17, 1968 0050 TU 0120 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 1200M ARC SAMPLER HT 1.5M U= 3.7 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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B 48.0	60	2.219E-08	8.208E-08	1200
52.0	35	1.313E-08	4.860E-08	1200
56.0	49	1.821E-08	6.738E-08	1200
62.0	35	1.313E-08	4.860E-08	1200
70.0	17	6.291E-09	2.328E-08	1200
80.0	10	3.841E-09	1.421E-08	1200
82.0	1	4.636E-10	1.715E-09	1200
84.0	3	1.148E-09	4.247E-09	1200
86.0	0	2.207E-10	8.168E-10	1200
88.0	0	0.	0.	1200
90.0	0	0.	0.	1200
92.0	0	2.207E-10	8.168E-10	1200
94.0	0	1.324E-11	4.901E-11	1200
96.0	0	0.	0.	1200
98.0	2	8.308E-10	3.104E-09	1200
100.0	0	6.622E-11	2.450E-10	1200
102.0	0	2.649E-11	9.801E-11	1200
104.0	44	1.622E-08	6.003E-08	1200
L 106.0	1204	4.411E-07	1.632E-06	1200
4 108.0	8219	3.010E-06	1.114E-05	1200
110.0	16439	6.019E-06	2.227E-05	1200
3 112.0	10228	3.745E-06	1.386E-05	1200
114.0	6392	2.341E-06	8.661E-06	1200
116.0	5296	1.939E-06	7.176E-06	1200
118.0	16357	5.990E-06	2.216E-05	1200
3 120.0	5844	2.140E-06	7.918E-06	1200
122.0	185	6.810E-08	2.520E-07	1200
X 124.0	3	1.126E-09	4.165E-09	1200
X 126.0	0	1.126E-10	4.165E-10	1200
128.0	4	1.523E-09	5.636E-09	1200

CROSSWIND INTEGRATED= 1.066E-03 4.017E-03  
 SEC/SQ.M 1/M

TEST U77 SEPTEMBER 17, 1968 0050 TO 0120 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 1600M ARC SAMPLER HT 1.5M U= 3.6 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
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44.0	0	0.	0.	1600
52.0	0	0.	0.	1600
56.0	0	0.	0.	1600
60.0	0	0.	0.	1600
64.0	1	6.070E-10	2.185E-09	1600
64.0	0	0.	0.	1600
72.0	0	0.	0.	1600
76.0	0	3.035E-10	1.093E-09	1600
80.0	3	1.214E-09	4.370E-09	1600
84.0	0	0.	0.	1600
86.0	39	1.487E-08	5.353E-08	1600
88.0	33	1.775E-08	6.589E-08	1600
90.0	95	3.581E-08	1.289E-07	1600
92.0	31	1.184E-08	4.261E-08	1600
E 93.6	150	5.662E-08	2.038E-07	1603
94.0	37	1.396E-08	5.026E-08	1600
94.6	264	9.966E-08	3.588E-07	1604
95.6	147	5.549E-08	1.998E-07	1606
96.6	108	4.077E-08	1.468E-07	1608
97.6	81	3.058E-08	1.101E-07	1610
98.6	288	1.087E-07	3.914E-07	1611
99.6	159	6.002E-08	2.161E-07	1613
100.6	399	1.506E-07	5.422E-07	1615
101.6	162	6.115E-08	2.201E-07	1617
102.6	444	1.676E-07	6.034E-07	1618
103.6	510	1.925E-07	6.931E-07	1620
104.5	937	3.533E-07	1.272E-06	1622
105.5	2473	9.320E-07	3.355E-06	1623
106.5	6197	2.335E-06	8.406E-06	1625
107.5	9216	3.699E-06	1.331E-05	1627
108.5	17994	6.780E-06	2.441E-05	1628
109.5	23388	8.813E-06	3.173E-05	1630
110.4	30235	1.139E-05	4.101E-05	1632
111.4	23016	8.672E-06	3.122E-05	1633
112.4	25817	9.728E-06	3.502E-05	1635
113.4	24765	9.331E-06	3.359E-05	1637
114.4	26166	9.859E-06	3.549E-05	1638
115.3	37352	1.407E-05	5.067E-05	1640
116.3	40069	1.510E-05	5.435E-05	1641
117.3	44842	1.690E-05	6.083E-05	1643
118.2	34268	1.291E-05	4.648E-05	1644
119.2	14826	5.586E-06	2.011E-05	1646
120.2	5169	1.948E-06	7.012E-06	1647
121.2	1927	6.885E-07	2.479E-06	1649
122.1	138	5.209E-08	1.875E-07	1650
123.1	0	0.	0.	1552

CROSSWIND INTEGRATED= 3.902E-03 SEC/SQ.M 1/M

TEST U77 SEPTEMBER 17, 1968 0050 TO 0120 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 1600M ARC SAMPLER HT 1.5M U= 3.7 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
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100.6	0	0.	0.	1600
101.6	0	0.	0.	1617
102.6	217	7.957E-08	2.944E-07	1618
103.6	82	3.027E-08	1.120E-07	1620
104.5	0	1.730E-11	6.400E-11	1622
105.5	0	9.514E-11	3.520E-10	1623
106.5	472	1.730E-07	6.400E-07	1625
107.5	509	1.133E-07	4.192E-07	1627
108.5	1237	4.532E-07	1.677E-06	1628
109.5	4015	1.470E-06	5.440E-06	1630
Z 110.4	14382	5.266E-06	1.949E-05	1632
111.4	15374	5.630E-06	2.083E-05	1633
112.4	22319	8.173E-06	3.024E-05	1635
113.4	14382	5.266E-06	1.949E-05	1637
114.4	7438	2.724E-06	1.008E-05	1638
115.3	11406	4.177E-06	1.545E-05	1640
116.3	19321	7.075E-06	2.618E-05	1641
117.3	9540	3.493E-06	1.293E-05	1643
118.2	20753	7.599E-06	2.812E-05	1644
119.2	15981	5.852E-06	2.165E-05	1646
120.2	5057	1.852E-06	6.852E-06	1647
121.2	1188	4.350E-07	1.610E-06	1649
122.1	136	5.016E-08	1.856E-07	1650
123.1	408	1.496E-07	5.536E-07	1652
124.1	63	2.335E-08	8.640E-08	1653
125.0	15	5.622E-09	2.080E-08	1655
126.0	188	6.919E-08	2.560E-07	1656
126.9	146	5.362E-08	1.984E-07	1658
127.8	0	0.	0.	1659

CROSSWIND INTEGRATED= 1.686E-03 SEC/SQ.M 6.238E-03 1/M

TEST U77 SEPTEMBER 17, 1968 0050 TO 0120 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 3200M ARC SAMPLER HT 1.5M U= 3.6 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
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B 60.0	96	3.704E-08	1.334E-07	3200
62.0	99	3.768E-08	1.356E-07	3200
64.0	29	1.119E-08	4.029E-08	3200
66.0	115	4.335E-08	1.561E-07	3200
4 68.0	103	3.783E-08	1.362E-07	3200
0 70.0	23	4.670E-09	3.121E-08	3200
72.7	305	1.152E-07	4.146E-07	3168
73.7	275	1.040E-07	3.743E-07	3170
74.7	530	1.997E-07	7.190E-07	3172
75.7	411	1.552E-07	5.586E-07	3173
76.8	262	9.884E-08	3.558E-07	3175
77.8	505	1.405E-07	6.859E-07	3177
78.8	774	2.919E-07	1.051E-06	3179
79.8	301	1.137E-07	4.093E-07	3180
80.8	637	2.402E-07	8.647E-07	3182
81.8	493	1.859E-07	6.693E-07	3184
82.8	997	3.759E-07	1.353E-06	3185

TEST U77 SEPTEMBER 17, 1968 0050 TO 0120 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 3200M ARC SAMPLER HT 1.5M U= 3.7 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
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B 60.0	224	8.221E-08	3.042E-07	3200
62.0	211	7.763E-08	2.872E-07	3200
64.0	155	5.699E-08	2.109E-07	3200
66.0	177	6.501E-08	2.406E-07	3200
4 68.0	211	7.763E-08	2.872E-07	3200
0 70.0	202	7.419E-08	2.745E-07	3200
72.7	141	5.183E-08	1.918E-07	3168
73.7	360	1.320E-07	4.884E-07	3170
74.7	144	5.300E-08	1.961E-07	3172
75.7	275	1.007E-07	3.727E-07	3173
76.8	221	8.116E-08	3.003E-07	3175
77.8	119	4.361E-08	1.614E-07	3177
78.8	189	6.943E-08	2.569E-07	3179
79.8	68	2.523E-08	9.335E-08	3180
80.8	328	1.203E-07	4.450E-07	3182
81.8	520	1.907E-07	7.055E-07	3184
82.8	851	3.119E-07	1.154E-06	3185

83.8	763	2.878E-07	1.036E-06	3187
84.8	822	3.098E-07	1.115E-06	3189
85.8	490	1.849E-07	6.656E-07	3191
86.8	680	2.566E-07	9.237E-07	3192
87.8	974	3.672E-07	1.322E-06	3194
88.8	905	3.411E-07	1.228E-06	3196
89.8	1451	5.470E-07	1.969E-06	3198
90.8	554	2.090E-07	7.522E-07	3199
91.8	1314	4.973E-07	1.790E-06	3201
92.8	1766	6.658E-07	2.397E-06	3203
93.8	1399	5.275E-07	1.899E-06	3205
94.8	1867	7.037E-07	2.533E-06	3206
95.8	1822	6.868E-07	2.472E-06	3208
96.8	1853	6.986E-07	2.515E-06	3210
97.8	2159	8.102E-07	2.917E-06	3212
98.8	1669	6.289E-07	2.264E-06	3213
99.8	2003	7.549E-07	2.718E-06	3215
100.8	1427	5.377E-07	1.936E-06	3217
101.8	788	2.970E-07	1.069E-06	3218
102.8	467	1.762E-07	6.342E-07	3220
103.8	403	1.521E-07	5.476E-07	3222
104.8	441	1.664E-07	5.992E-07	3224
105.8	592	2.233E-07	8.039E-07	3225
106.8	399	1.506E-07	5.421E-07	3227
107.8	247	9.321E-08	3.356E-07	3229
108.8	829	3.124E-07	1.129E-06	3230
109.7	835	3.150E-07	1.134E-06	3232
110.7	2176	8.199E-07	2.952E-06	3233
111.7	3801	1.432E-06	5.157E-06	3235
112.7	4834	1.822E-06	6.550E-06	3237
113.7	4088	1.533E-06	5.518E-06	3238
114.6	5265	1.984E-06	7.143E-06	3240
115.6	3411	1.285E-06	4.648E-06	3241
116.6	3461	1.304E-06	4.696E-06	3243
117.6	152	5.736E-08	2.065E-07	3245
118.6	13	5.121E-09	1.844E-08	3246
119.5	0	0.	0.	3248

CROSSWIND INTEGRATED= 1.318E-03 4.747E-03  
SEC/SQ.M 1/M

83.8	339	1.242E-07	4.595E-07	3187
84.8	93	3.423E-08	1.266E-07	3189
85.8	160	5.887E-08	2.178E-07	3191
86.8	456	1.672E-07	6.187E-07	3192
87.8	307	1.125E-07	4.161E-07	3194
88.8	296	1.085E-07	4.016E-07	3196
89.8	467	1.711E-07	6.332E-07	3198
90.8	243	8.899E-08	3.292E-07	3199
91.8	862	3.159E-07	1.169E-06	3201
92.8	1320	4.837E-07	1.792E-06	3203
93.8	478	1.750E-07	6.476E-07	3205
94.8	659	2.415E-07	8.937E-07	3206
95.8	606	2.220E-07	8.213E-07	3208
96.8	531	1.946E-07	7.200E-07	3210
97.8	798	2.924E-07	1.082E-06	3212
98.8	851	3.119E-07	1.154E-06	3213
99.8	883	3.237E-07	1.193E-06	3215
100.8	595	2.181E-07	8.068E-07	3217
101.8	285	1.046E-07	3.871E-07	3218
102.8	456	1.672E-07	6.187E-07	3220
103.8	243	8.899E-08	3.292E-07	3222
104.8	43	1.584E-08	5.861E-08	3224
105.8	109	4.009E-08	1.483E-07	3225
106.8	66	2.445E-08	9.045E-08	3227
107.8	35	1.428E-08	5.282E-08	3229
108.8	189	6.943E-08	2.569E-07	3230
109.7	176	6.474E-08	2.395E-07	3232
110.7	713	2.611E-07	9.666E-07	3233
111.7	1208	4.426E-07	1.638E-06	3235
112.7	1814	6.644E-07	2.458E-06	3237
113.7	5381	1.970E-06	7.291E-06	3238
114.6	8970	3.265E-06	1.215E-05	3240
115.6	12620	4.621E-06	1.710E-05	3241
116.6	7848	2.874E-06	1.063E-05	3243
117.6	1500	5.474E-07	2.033E-06	3245
118.6	737	2.701E-07	9.993E-07	3246
119.5	387	1.419E-07	5.252E-07	3248
120.5	349	1.241E-07	4.740E-07	3249
121.5	9	3.481E-09	1.286E-08	3251
122.4	1	7.041E-10	2.605E-09	3252
123.4	0	1.179E-10	4.362E-10	3253

CROSSWIND INTEGRATED= 1.199E-03 4.437E-03  
SEC/SQ.M 1/M

TEST U77 SEPTEMBER 17, 1968 0050 TO 0120 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
500G ARC SAMPLER HIT 1.5M U= 3.6 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM	E/Q SEC/CM	LU/Q 1/SQ.M	DISTANCE METERS	
8	32.0	949	3.578E-07	1.288E-06	4630
	84.0	1053	3.971E-07	1.430E-06	4620
	86.0	4505	1.698E-06	6.111E-06	4610
	88.0	904	3.408E-07	1.227E-06	4610
	90.0	822	3.099E-07	1.116E-06	4610
	92.0	294	1.124E-07	4.046E-07	4620
	94.0	292	1.102E-07	3.967E-07	4620
	96.0	541	2.040E-07	7.343E-07	4620
	98.0	179	6.763E-08	2.435E-07	4560
	100.0	289	1.056E-07	3.802E-07	4690
4	102.0	45	1.718E-08	6.186E-08	4710
4	104.0	97	3.673E-08	1.322E-07	4770
	106.0	204	7.693E-08	2.769E-07	4810
	108.0	164	6.195E-08	2.230E-07	4870
	110.0	243	9.159E-08	3.297E-07	4920
	112.0	109	4.114E-08	1.481E-07	4990
2	114.0	0	0.	0.	5080
6	116.0	0	0.	0.	5020
	118.0	12	4.571E-09	1.646E-08	5100
6	120.0	0	0.	0.	5130
X	122.0	0	0.	0.	4930
X	124.0	0	0.	0.	4660
	126.0	4	1.734E-09	6.242E-09	4770
	128.0	12	4.729E-09	1.702E-08	4900
5	130.0	2	7.882E-10	2.837E-09	4970
	132.0	5	2.207E-09	7.945E-09	4980
	134.0	1	6.305E-10	2.270E-09	4990
	136.0	0	0.	0.	5000

CROSSWIND INTEGRATED= 6.547E-04 2.357E-03  
SEC/SQ.M 1/M

TEST U77 SEPTEMBER 17, 1968 0050 TO 0120 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
500GM ARC SAMPLER HIT 1.5M U= 3.7 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM	E/Q SEC/CM	LU/Q 1/SQ.M	DISTANCE METERS	
8	32.0	1419	5.196E-07	1.923E-06	4630
	84.0	1320	4.835E-07	1.789E-06	4620
	86.0	2300	8.423E-07	3.117E-06	4610
	88.0	1103	4.041E-07	1.495E-06	4610
	90.0	1182	4.350E-07	1.602E-06	4610
	92.0	906	3.318E-07	1.228E-06	4620
	94.0	847	3.102E-07	1.148E-06	4620
	96.0	945	3.463E-07	1.281E-06	4620
	98.0	866	3.174E-07	1.174E-06	4660
	100.0	866	3.174E-07	1.174E-06	4690
4	102.0	630	2.379E-07	8.536E-07	4710
4	104.0	728	2.668E-07	9.872E-07	4770
	106.0	649	2.379E-07	8.803E-07	4810
	108.0	708	2.596E-07	9.605E-07	4870
	110.0	768	2.813E-07	1.041E-06	4920
	112.0	406	1.488E-07	5.507E-07	4990
E	114.0	5	1.835E-09	6.788E-09	5080
6	116.0	2	8.485E-10	3.139E-09	5020
	118.0	7	2.637E-09	9.756E-09	5100
6	120.0	7	2.752E-09	1.018E-08	5130
F	122.0	5	2.064E-09	7.637E-09	4830
E	124.0	4	1.491E-09	5.515E-09	4660
4	126.0	2	1.055E-09	3.903E-09	4770
	128.0	6	2.293E-09	8.485E-09	4900
5	130.0	9	3.440E-09	1.273E-08	4970
	132.0	7	2.867E-09	1.061E-08	4980
	134.0	1	4.701E-10	1.739E-09	4990
E	136.0	2	9.173E-10	3.394E-09	5000
	138.0	5	1.949E-09	7.212E-09	5020
5	140.0	5	1.949E-09	7.212E-09	5060
3	142.0	5	2.179E-09	8.061E-09	5090
9	144.0	0	0.	0.	5130

CROSSWIND INTEGRATED= 9.408E-04 3.481E-03  
SEC/SQ.M 1/M

TEST U77 SEPTEMBER 17, 1968 0050 TO 0120 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
7000M ARC SAMPLER HT 1.5M U= 3.6 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	LU/Q 1/SQ.M	DISTANCE METERS
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B 76.0	458	1.726E-07	6.214E-07	6280
78.0	1473	7.061E-07	2.542E-06	6300
80.0	2494	9.398E-07	3.343E-06	6400
82.0	2012	7.584E-07	2.730E-06	6490
5 84.0	488	1.841E-07	4.628E-07	6500
86.0	301	1.135E-07	4.086E-07	6500
E 93.0	271	1.021E-07	3.677E-07	6480
90.0	245	9.253E-08	3.331E-07	6500
92.0	194	7.314E-08	2.633E-07	6490
94.0	184	6.968E-08	2.508E-07	6500
96.0	292	1.103E-07	3.972E-07	6510
98.0	120	4.540E-08	1.634E-07	6520
100.0	50	1.892E-08	6.810E-08	6560
7 102.0	33	1.245E-08	4.483E-08	6610
S 104.0	5	2.049E-09	7.377E-09	6650
106.0	6	2.365E-09	8.512E-09	6720
108.0	0	0.	0.	6800
C 110.0	0	3.153E-10	1.135E-09	7000
112.0	1	6.305E-10	2.270E-09	7300
114.0	2	7.882E-10	2.837E-09	7210
116.0	0	0.	0.	7220

CROSSWIND INTEGRATED= 7.630E-04 SEC/SQ.M 2.747E-03 1/M

TEST U77 SEPTEMBER 17, 1968 0050 TO 0120 PST  
FLUORESCHEIN RELEASE FROM ELEVATION OF 56M  
7000M ARC SAMPLER HT 1.5M U= 3.7 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	LU/Q 1/SQ.M	DISTANCE METERS
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B 76.0	708	2.596E-07	9.605E-07	6280
2 78.0	1576	5.774E-07	2.137E-06	6300
80.0	1971	7.219E-07	2.671E-06	6400
82.0	1642	6.015E-07	2.226E-06	6490
5 84.0	1445	5.293E-07	1.958E-06	6500
4 86.0	748	2.740E-07	1.014E-06	6500
E 88.0	465	1.705E-07	6.309E-07	6480
90.0	307	1.127E-07	4.170E-07	6500
2 92.0	353	1.296E-07	4.794E-07	6490
3 94.0	294	1.079E-07	3.992E-07	6500
96.0	445	1.633E-07	6.041E-07	6510
98.0	551	2.018E-07	7.467E-07	6520
100.0	274	1.007E-07	3.725E-07	6560
7 102.0	136	5.011E-08	1.854E-07	6610
T 104.0	31	1.158E-08	4.285E-08	6650
T 106.0	16	6.192E-09	2.291E-08	6720
108.0	5	2.179E-09	8.061E-09	6800
0 110.0	1	5.733E-10	2.121E-09	7000
3 112.0	1	5.389E-10	1.994E-09	7300
114.0	7	2.752E-09	1.018E-08	7210
116.0	0	0.	0.	7220
118.0	6	2.408E-09	8.409E-09	7190
120.0	1	6.765E-10	2.503E-09	7150
5 122.0	5	2.179E-09	8.061E-09	7120
124.0	0	0.	0.	7100

CROSSWIND INTEGRATED= 9.063E-04 SEC/SQ.M 3.353E-03 1/M

TEST U77 SEPTEMBER 17, 1968 0050 TO 0120 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
12800M ARC SAMPLER HT 1.5M U= 3.6 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	LU/Q 1/SQ.M	DISTANCE METERS
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5 91.0	1	6.305E-10	2.270E-09	12800
93.0	0	0.	0.	12800
95.0	0	0.	0.	12800
97.0	0	0.	0.	12800
99.0	0	0.	0.	12800
4 100.0	0	0.	0.	12800
101.0	22	8.355E-09	3.008E-08	12800
4 102.0	0	0.	0.	12800
103.0	0	0.	0.	12800
105.0	0	0.	0.	12800
107.0	0	0.	0.	12800
109.0	0	0.	0.	12800
111.0	0	0.	0.	12800

CROSSWIND INTEGRATED= 2.148E-06 SEC/SQ.M 7.734E-06 1/M

TEST U77 SEPTEMBER 17, 1968 0050 TO 0120 PST  
FLUORESCHEIN RELEASE FROM ELEVATION OF 56M  
12800M ARC SAMPLER HT 1.5M U= 3.7 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	LU/Q 1/SQ.M	DISTANCE METERS
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B 91.0	6	2.293E-09	8.485E-09	12800
4 92.0	2	7.453E-10	2.758E-09	12800
4 93.0	0	2.293E-10	8.485E-10	12800
5 94.0	0	2.293E-10	8.485E-10	12800
5 95.0	2	9.173E-10	3.394E-09	12800
9 96.0	3	1.142E-09	4.412E-09	12800
9 97.0	1	4.357E-10	1.612E-09	12800
5 98.0	1	4.013E-10	1.485E-09	12800
5 99.0	1	5.389E-10	1.994E-09	12800
4 100.0	0	3.440E-11	1.273E-10	12800
3 101.0	1	4.357E-10	1.612E-09	12800
4 102.0	0	1.949E-10	7.212E-10	12800
4 103.0	0	9.173E-11	3.394E-10	12800
4 104.0	0	1.605E-10	5.940E-10	12800
P 105.0	1	4.357E-10	1.612E-09	12800
7 106.0	0	2.064E-10	7.637E-10	12800
4 107.0	0	2.981E-10	1.103E-09	12800
5 108.0	0	1.376E-10	5.091E-10	12800
5 109.0	1	5.389E-10	1.994E-09	12800
4 110.0	0	2.981E-10	1.103E-09	12800
3 111.0	0	0.	0.	12800

CROSSWIND INTEGRATED= 2.193E-06 SEC/SQ.M 8.113E-06 1/M

SAMPLING 400M TO 700M. NO TOWER SAMPLING. ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER. TRACE OF RAIN FELL DURING TRACER RELEASE. UP TO 0.03 INCHES OF RAIN FELL DURING PICKUP OF SAMPLES; ALTHOUGH MANY FILTERS WERE VERY WET, THE EFFECTS OF THIS "WASHING" ARE UNCERTAIN.

TEST U76 SEPTEMBER 18, 1968 0131 TO 0201 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
400M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
118.0	0	0.	0.	400
122.0	1278	4.486E-07	3.176E-06	400
126.0	18373	7.021E-05	4.564E-05	400
130.0	60708	2.320E-05	1.508E-04	400
134.0	66751	2.551E-05	1.658E-04	400
138.0	41527	1.587E-05	1.031E-04	400
142.0	9026	3.449E-06	2.242E-05	400
146.0	261	9.983E-08	6.489E-07	400
150.0	0	0.	0.	400

CROSSWIND INTEGRATED= 2.112E-03 SEC/SQ.M 1.373E-02 1/M

TEST U76 SEPTEMBER 18, 1968 0131 TO 0201 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
400M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
120.2	0	0.	0.	845
122.1	101	3.866E-08	2.513E-07	848
124.0	500	1.911E-07	1.242E-06	851
125.8	3017	1.153E-06	7.496E-06	854
127.7	17753	4.874E-06	3.168E-05	857
129.5	19472	7.441E-06	4.836E-05	859
131.4	9123	3.486E-06	2.266E-05	862
133.2	35770	1.367E-05	8.884E-05	865
135.0	26421	1.010E-05	6.562E-05	867
136.8	35515	1.357E-05	8.821E-05	869
138.7	20853	7.969E-06	5.180E-05	872
140.6	7197	2.750E-06	1.788E-05	874
142.4	907	3.468E-07	2.254E-06	876
144.2	11	4.418E-09	2.872E-08	878
146.0	0	0.	0.	880

CROSSWIND INTEGRATED= 1.821E-03 SEC/SQ.M 1.184E-02 1/M

TEST U78 SEPTEMBER 18, 1968 0131 TO 0201 PST  
FLUORESCEN RELEASE FROM ELEVATION OF 56M  
400M ARC SAMPLER HT 1.5M U= 7.3 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
P 106.0	1	5.123E-10	3.739E-09	400
110.0	0	0.	0.	400
114.0	0	0.	0.	400
118.0	0	0.	0.	400
122.0	0	0.	0.	400
126.0	814	2.968E-07	2.166E-06	400
130.0	3469	1.265E-06	9.234E-06	400
134.0	9494	3.461E-06	2.527E-05	400
138.0	1563	5.698E-07	4.160E-06	400
142.0	92	3.361E-08	2.454E-07	400
146.0	0	0.	0.	400

CROSSWIND INTEGRATED= 1.571E-04 SEC/SQ.M 1.147E-03 1/M

TEST U78 SEPTEMBER 18, 1968 0131 TO 0201 PST  
FLUORESCEN RELEASE FROM ELEVATION OF 56M  
400M ARC SAMPLER HT 1.5M U= 7.3 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
122.1	0	1.175E-10	8.579E-10	848
124.0	208	7.594E-08	5.944E-07	851
125.8	1250	4.559E-07	3.320E-06	854
127.7	9699	3.536E-06	2.581E-05	857
129.5	37980	1.385E-05	1.011E-04	859
T 131.4	44492	1.622E-05	1.184E-04	862
133.2	71623	2.611E-05	1.906E-04	865
134.9	24818	9.048E-06	6.605E-05	867
T 136.9	11730	4.277E-06	3.122E-05	870
138.7	6654	2.428E-06	1.772E-05	872
T 140.6	1250	4.559E-07	3.320E-06	874
T 142.4	75	2.763E-08	2.017E-07	876
T 144.2	7	2.820E-09	2.054E-08	878
S 146.0	7	2.690E-09	1.964E-08	880
T 147.8	18	6.738E-09	4.919E-08	882

CROSSWIND INTEGRATED= 2.097E-03 SEC/SQ.M 1.531E-02 1/M

TEST U78 SEPTEMBER 18, 1968 0131 TO 0201 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
1200M ARC SAMPLER HT 1.5M U= 4.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
X 122.0	0	0.	0.	1200
124.0	73	2.798E-08	1.819E-07	1200
126.0	1695	6.477E-07	4.210E-06	1200
128.0	3732	1.426E-06	9.270E-06	1200
S 130.0	8903	3.402E-06	2.211E-05	1200
132.0	12354	4.721E-06	3.069E-05	1200
134.0	14764	5.642E-06	3.667E-05	1200
S 136.0	17032	6.509E-06	4.231E-05	1200
138.0	4412	1.686E-06	1.096E-05	1200
140.0	2209	8.441E-07	5.487E-06	1200
142.0	287	1.100E-07	7.147E-07	1200
144.0	6	2.518E-09	1.637E-08	1200
146.0	0	2.798E-10	1.819E-09	1200

CROSSWIND INTEGRATED= 1.048E-03 SEC/SQ.M 6.812E-03 1/M

TEST U78 SEPTEMBER 18, 1968 0131 TO 0201 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
1600M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
124.1	0	0.	0.	1653
125.0	99	3.791E-08	2.464E-07	1655
126.0	687	2.628E-07	1.708E-06	1656
126.9	1287	4.920E-07	3.198E-06	1658
127.8	3366	1.286E-06	8.362E-06	1659
128.8	8886	3.396E-06	2.207E-05	1660
129.7	11105	4.243E-06	2.758E-05	1662
130.6	11860	4.532E-06	2.946E-05	1663
131.5	12748	4.872E-06	3.167E-05	1664
132.5	14451	5.522E-06	3.589E-05	1665
133.5	17811	6.806E-06	4.424E-05	1667
134.4	10566	4.038E-06	2.624E-05	1668
135.4	19481	7.444E-06	4.839E-05	1669
136.4	9749	3.726E-06	2.422E-05	1670
137.3	4047	1.547E-06	1.005E-05	1672
R 138.3	469	1.792E-07	1.165E-06	1673
139.3	4615	1.764E-06	1.146E-05	1674
140.2	1752	6.695E-07	4.352E-06	1675
141.2	529	2.025E-07	1.316E-06	1676
142.2	180	6.893E-08	4.480E-07	1677
143.1	9	3.446E-09	2.240E-08	1678
144.1	0	0.	0.	1679

CROSSWIND INTEGRATED= 1.417E-03 SEC/SQ.M 9.213E-03 1/M

TEST U78 SEPTEMBER 18, 1968 0131 TO 0201 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
2200M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
122.0	0	0.	0.	2200
X 124.0	23	8.831E-09	5.740E-08	2200
126.0	206	7.907E-08	5.136E-07	2200
128.0	1094	4.184E-07	2.720E-06	2200
130.0	4412	1.686E-06	1.096E-05	2200
132.0	3110	1.188E-06	7.725E-06	2200
E 134.0	3108	1.188E-06	7.721E-06	2200
136.0	3081	1.178E-06	7.655E-06	2200
7 138.0	718	2.747E-07	1.785E-06	2200
140.0	591	2.261E-07	1.470E-06	2200
142.0	60	2.314E-08	1.504E-07	2200
144.0	0	0.	0.	2200

CROSSWIND INTEGRATED= 4.815E-04 SEC/SQ.M 3.130E-03 1/M

TEST U78 SEPTEMBER 18, 1968 0131 TO 0201 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
1200M ARC SAMPLER HT 1.5M U= 7.3 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
X 122.0	0	0.	0.	1200
1 124.0	17	6.290E-09	4.592E-08	1200
Z 126.0	809	2.951E-07	2.154E-06	1200
Z 128.0	4303	1.569E-06	1.145E-05	1200
T 130.0	12237	4.461E-06	3.257E-05	1200
132.0	15830	5.771E-06	4.213E-05	1200
134.0	12968	4.728E-06	3.451E-05	1200
T 136.0	10411	3.796E-06	2.771E-05	1200
138.0	2353	8.582E-07	6.265E-06	1200
1 140.0	746	2.720E-07	1.986E-06	1200
142.0	78	2.871E-08	2.096E-07	1200
144.0	2	1.015E-09	7.412E-09	1200
146.0	1	4.220E-10	3.080E-09	1200

CROSSWIND INTEGRATED= 9.126E-04 SEC/SQ.M 6.662E-03 1/M

TEST U78 SEPTEMBER 18, 1968 0131 TO 0201 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
1600M ARC SAMPLER HT 1.5M U= 7.3 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
123.1	0	0.	0.	1652
124.1	0	6.028E-11	4.400E-10	1653
125.0	173	6.312E-08	4.608E-07	1655
126.0	392	1.432E-07	1.045E-06	1656
126.9	704	2.569E-07	1.675E-06	1658
127.8	3269	1.192E-06	8.702E-06	1659
128.8	4460	1.626E-06	1.187E-05	1660
129.7	7138	2.603E-06	1.900E-05	1662
130.6	10115	3.688E-06	2.692E-05	1663
131.5	9817	3.579E-06	2.613E-05	1664
132.5	11404	4.158E-06	3.035E-05	1665
133.5	13884	5.062E-06	3.695E-05	1667
134.4	13884	5.062E-06	3.695E-05	1668
135.4	12892	4.700E-06	3.431E-05	1669
136.4	25789	9.402E-06	6.863E-05	1670
137.3	9222	3.362E-06	2.454E-05	1672
138.3	2674	9.751E-07	7.118E-06	1673
139.3	189	6.906E-08	5.042E-07	1674
140.2	69	2.523E-08	1.842E-07	1675
141.2	321	1.174E-07	8.568E-07	1676
142.2	132	4.848E-08	3.539E-07	1677
143.1	10	3.875E-09	2.829E-08	1678
144.1	0	2.153E-10	1.572E-09	1679

CROSSWIND INTEGRATED= 1.280E-03 SEC/SQ.M 9.345E-03 1/M

TEST U78 SEPTEMBER 18, 1968 0131 TO 0201 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
2200M ARC SAMPLER HT 1.5M U= 7.3 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
X 124.0	0	0.	0.	2200
126.0	92	3.371E-08	2.461E-07	2200
128.0	630	2.300E-07	1.679E-06	2200
130.0	6261	2.283E-06	1.666E-05	2200
3 132.0	6451	2.352E-06	1.717E-05	2200
0 134.0	4933	1.799E-06	1.313E-05	2200
3 136.0	5123	1.868E-06	1.363E-05	2200
P 138.0	1419	5.176E-07	3.779E-06	2200
140.0	216	7.892E-08	5.761E-07	2200
142.0	134	4.890E-08	3.569E-07	2200
144.0	0	5.708E-11	4.167E-10	2200

CROSSWIND INTEGRATED= 7.073E-04 SEC/SQ.M 5.163E-03 1/M

TEST U78 SEPTEMBER 18, 1968 0131 TU 0201 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
3200M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
125.4	0	0.	0.	3256
126.3	14	5.454E-09	3.545E-08	3258
127.3	54	2.082E-08	1.353E-07	3259
128.3	496	1.899E-07	1.234E-06	3261
129.3	705	2.697E-07	1.753E-06	3262
130.3	2828	1.081E-06	7.025E-06	3263
131.2	4060	1.552E-06	1.009E-05	3264
132.2	4142	1.583E-06	1.029E-05	3266
133.2	4349	1.662E-06	1.080E-05	3267
134.2	4822	1.843E-06	1.198E-05	3268
135.2	3732	1.426E-06	9.271E-06	3270
136.2	3173	1.213E-06	7.882E-06	3271
137.1	2446	9.350E-07	6.078E-06	3272
138.1	2056	7.858E-07	5.108E-06	3273
139.1	851	3.252E-07	2.114E-06	3274
140.1	277	1.061E-07	6.896E-07	3276
141.1	64	2.479E-08	1.611E-07	3277
142.0	0	0.	0.	3278

CROSSWIND INTEGRATED= 7.290E-04 SEC/SQ.M  
4.738E-03 1/M

TEST U78 SEPTEMBER 18, 1968 0131 TU 0201 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
3200M ARC SAMPLER HT 1.5M U= 7.3 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
125.4	0	1.207E-10	8.813E-10	3256
126.3	23	8.664E-09	6.340E-08	3258
127.3	297	1.044E-07	7.912E-07	3259
128.3	307	1.123E-07	8.196E-07	3261
129.3	985	3.592E-07	2.622E-06	3262
130.3	1030	3.755E-07	2.741E-06	3263
131.2	3497	1.275E-06	9.308E-06	3264
132.2	2892	1.054E-06	7.697E-06	3266
133.2	4237	1.545E-06	1.128E-05	3267
134.2	3026	1.103E-06	8.055E-06	3268
135.2	2488	9.071E-07	6.622E-06	3270
136.2	2420	8.826E-07	6.443E-06	3271
137.1	1142	4.164E-07	3.040E-06	3272
138.1	260	9.507E-08	6.937E-07	3273
139.1	254	9.280E-08	6.775E-07	3274
140.1	4	1.558E-09	1.137E-08	3276
141.1	0	3.115E-10	2.274E-09	3277

CROSSWIND INTEGRATED= 4.670E-04 SEC/SQ.M  
3.409E-03 1/M

TEST U78 SEPTEMBER 18, 1968 0131 TU 0201 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
5000M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
126.0	0	0.	0.	4770
128.0	3	1.523E-09	9.896E-09	4900
130.0	33	1.294E-08	8.412E-08	4970
132.0	867	3.313E-07	2.153E-06	4980
134.0	2535	9.689E-07	6.298E-06	4990
5 136.0	833	3.184E-07	2.069E-06	5000
138.0	836	3.197E-07	2.078E-06	5020
140.0	49	1.873E-08	1.217E-07	5060
142.0	0	0.	0.	5090

CROSSWIND INTEGRATED= 3.438E-04 SEC/SQ.M  
2.235E-03 1/M

TEST U78 SEPTEMBER 18, 1968 0131 TU 0201 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
5000M ARC SAMPLER HT 1.5M U= 7.3 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
126.0	0	6.850E-11	5.000E-10	4770
128.0	0	1.027E-10	7.500E-10	4900
130.0	8	2.991E-09	2.183E-08	4970
132.0	689	2.514E-07	1.835E-06	4980
134.0	1511	5.511E-07	4.023E-06	4990
5 136.0	1511	5.511E-07	4.023E-06	5000
138.0	229	8.359E-08	6.102E-07	5020
140.0	4	1.694E-09	1.237E-08	5060
142.0	0	1.142E-11	8.334E-11	5090

CROSSWIND INTEGRATED= 2.514E-04 SEC/SQ.M  
1.835E-03 1/M

TEST U78 SEPTEMBER 18, 1968 0131 TU 0201 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
7000M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
126.0	0	0.	0.	7100
128.0	3	1.370E-09	8.907E-09	7100
130.0	0	0.	0.	7130
X 132.0	0	0.	0.	7150
134.0	1292	4.941E-07	3.211E-06	7200
136.0	1548	5.917E-07	3.846E-06	7250
138.0	1736	6.637E-07	4.314E-06	7300
6 140.0	79	3.030E-08	1.969E-07	7350
142.0	0	3.045E-10	1.979E-09	7250

CROSSWIND INTEGRATED= 4.512E-04 SEC/SQ.M  
2.933E-03 1/M

TEST U78 SEPTEMBER 18, 1968 0131 TU 0201 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
7000M ARC SAMPLER HT 1.5M U= 7.3 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
X 132.0	1	4.777E-10	3.484E-09	7150
134.0	356	1.300E-07	9.494E-07	7200
136.0	828	3.020E-07	2.204E-06	7250
138.0	591	2.157E-07	1.574E-06	7300
6 140.0	14	5.157E-09	3.764E-09	7350
142.0	0	1.575E-10	1.150E-09	7250

CROSSWIND INTEGRATED= 1.655E-04 SEC/SQ.M  
1.208E-03 1/M

SAMPLING 400M TO 1200M. NO TOWER SAMPLING.  
 SAMPLING ARC AT 2200M WAS NOT ACTIVATED.  
 ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER.

TEST U79 SEPTEMBER 20, 1968 0027 TO 0057 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 400M ARC SAMPLER HT 1.5M U= 5.1 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
P 116.0	0	0.	0.	400
P 122.0	283	9.444E-08	4.816E-07	400
126.0	55569	1.852E-05	9.447E-05	400
130.0	43192	1.440E-05	7.343E-05	400
134.0	18893	6.298E-06	3.212E-05	400
139.0	2514	8.380E-07	4.274E-06	400
142.0	0	0.	0.	400

CROSSWIND INTEGRATED= 1.121E-03 SEC/SQ.M 5.718E-03 1/M

TEST U79 SEPTEMBER 20, 1968 0027 TO 0057 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 400M ARC SAMPLER HT 1.5M U= 6.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
P 122.0	0	2.732E-10	1.803E-09	400
126.0	2	1.054E-09	6.956E-09	400
130.0	3	1.405E-09	9.275E-09	400
134.0	13	5.035E-09	3.323E-08	400
138.0	1	5.465E-10	3.607E-09	400
142.0	4	1.639E-09	1.082E-08	400
146.0	2	8.197E-10	5.410E-09	400
150.0	3	1.171E-09	7.729E-09	400
154.0	6	2.225E-09	1.468E-08	400

CROSSWIND INTEGRATED= 3.957E-07 SEC/SQ.M 2.612E-06 1/M

TEST U79 SEPTEMBER 20, 1968 0027 TO 0057 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 800M ARC SAMPLER HT 1.5M U= 5.1 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
116.4	0	0.	0.	839
118.3	45	1.526E-08	7.781E-08	842
120.2	982	3.273E-07	1.669E-06	845
122.1	3199	1.067E-06	5.440E-06	848
124.0	28686	9.562E-06	4.877E-05	851
125.8	56936	1.898E-05	9.679E-05	854
127.7	122652	4.088E-05	2.085E-04	857
129.5	70626	2.354E-05	1.201E-04	859
131.4	40545	1.352E-05	6.893E-05	862
133.2	34229	1.141E-05	5.819E-05	865
135.0	8675	2.892E-06	1.475E-05	867
136.8	674	2.247E-07	1.146E-06	869
138.7	0	0.	0.	872

CROSSWIND INTEGRATED= 3.381E-03 SEC/SQ.M 1.724E-02 1/M

TEST U79 SEPTEMBER 20, 1968 0027 TO 0057 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 800M ARC SAMPLER HT 1.5M U= 6.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
112.6	0	0.	0.	800
114.5	2	9.969E-10	6.574E-09	836
116.4	15	5.653E-09	3.731E-08	839
118.3	51	1.877E-08	1.235E-07	842
120.2	105	3.812E-08	2.516E-07	845
122.1	238	8.598E-08	5.675E-07	848
124.0	46	1.667E-08	1.100E-07	851
125.8	623	2.253E-07	1.407E-06	854
127.7	10800	3.901E-06	2.574E-05	857
129.5	19525	7.051E-06	4.654E-05	859
131.4	14862	5.367E-06	3.542E-05	862
133.2	4933	1.782E-06	1.176E-05	865
134.9	4933	1.782E-06	1.176E-05	867
136.9	4	1.772E-09	1.170E-08	870
138.7	1	6.079E-10	4.012E-09	872
140.6	0	0.	0.	874

CROSSWIND INTEGRATED= 5.609E-04 SEC/SQ.M 3.701E-03 1/M

TEST U79 SEPTEMBER 20, 1968 0027 TO 0057 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 1200M ARC SAMPLER HT 1.5M U= 5.1 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
118.0	0	0.	0.	1200
120.0	51	1.718E-08	8.763E-08	1200
122.0	941	3.139E-07	1.601E-06	1200
124.0	5504	1.835E-06	9.357E-06	1200
126.0	39140	1.305E-05	6.654E-05	1200
128.0	68741	2.291E-05	1.169E-04	1200
130.0	44912	1.497E-05	7.635E-05	1200
132.0	21359	7.120E-06	3.631E-05	1200
134.0	5191	1.730E-06	8.825E-06	1200
W 136.0	964	3.216E-07	1.640E-06	1200
W 138.0	0	0.	0.	1200

CROSSWIND INTEGRATED= 2.608E-03 SEC/SQ.M 1.330E-02 1/M

TEST U79 SEPTEMBER 20, 1968 0027 TO 0057 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 1200M ARC SAMPLER HT 1.5M U= 6.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
122.0	0	0.	0.	1200
124.0	243	8.779E-08	5.794E-07	1200
126.0	1196	4.322E-07	2.853E-06	1200
128.0	3540	1.779E-06	8.439E-06	1200
130.0	21915	7.915E-06	5.224E-05	1200
132.0	8152	2.944E-06	1.943E-05	1200
134.0	882	3.186E-07	2.103E-06	1200
W 136.0	8	2.907E-09	1.918E-08	1200
W 138.0	5	2.123E-09	1.401E-08	1200
W 140.0	1	5.552E-10	3.664E-09	1200

CROSSWIND INTEGRATED= 5.438E-04 SEC/SQ.M 3.589E-03 1/M



TEST U79 SEPTEMBER 20, 1968 0027 TO 0057 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 1600M ARC SAMPLER HT 1.5M U= 5.1 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
120.2	0	0.	0.	1647
121.2	117	3.921E-08	2.000E-07	1649
122.1	364	1.215E-07	6.194E-07	1650
123.1	1488	4.963E-07	2.531E-06	1652
124.1	4349	1.450E-06	7.394E-06	1653
125.0	10055	3.352E-06	1.709E-05	1655
126.0	23691	7.897E-06	4.028E-05	1656
126.9	42345	1.412E-05	7.199E-05	1658
127.8	48929	1.631E-05	8.318E-05	1659
128.8	55992	1.866E-05	9.519E-05	1660
129.7	45563	1.519E-05	7.746E-05	1662
130.6	39691	1.323E-05	6.748E-05	1663
131.5	27968	9.323E-06	4.755E-05	1664
132.5	17924	4.308E-06	2.197E-05	1665
133.5	4667	1.556E-06	7.935E-06	1667
134.4	1747	5.824E-07	2.970E-06	1668
135.4	289	9.659E-08	4.926E-07	1669
136.4	0	0.	0.	1670

CROSSWIND INTEGRATED= 2.884E-03 SEC/SQ.M  
 1.471E-02 1/M

TEST U79 SEPTEMBER 20, 1968 0027 TO 0057 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 3200M ARC SAMPLER HT 1.5M U= 5.1 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
117.6	0	0.	0.	3245
118.6	33	1.133E-08	5.777E-08	3246
119.5	232	7.748E-08	3.951E-07	3248
120.5	1168	3.896E-07	1.987E-06	3249
121.5	4210	1.404E-06	7.158E-06	3251
122.4	4462	1.487E-06	7.586E-06	3252
123.4	4417	1.472E-06	7.510E-06	3253
124.4	7379	2.460E-06	1.254E-05	3255
125.4	11383	3.794E-06	1.935E-05	3256
126.3	17922	5.974E-06	3.047E-05	3258
127.3	17209	5.736E-06	2.926E-05	3259
128.3	8100	2.700E-06	1.377E-05	3261
129.3	4908	1.636E-06	8.344E-06	3262
130.3	2252	7.507E-07	3.829E-06	3263
131.2	1205	4.019E-07	2.050E-06	3264
132.2	221	7.385E-08	3.766E-07	3266
133.2	0	0.	0.	3267

CROSSWIND INTEGRATED= 1.573E-03 SEC/SQ.M  
 8.024E-03 1/M

TEST U79 SEPTEMBER 20, 1968 0027 TO 0057 PST  
 FLUORESCHEIN RELEASE FROM ELEVATION OF 56M  
 1600M ARC SAMPLER HT 1.5M U= 6.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
122.1	0	0.	0.	1600
123.1	0	0.	0.	1652
124.1	47	1.698E-08	1.120E-07	1653
125.0	0	0.	0.	1655
126.0	956	3.454E-07	2.280E-06	1656
126.9	2964	1.070E-06	7.065E-06	1658
127.8	3708	1.339E-06	8.839E-06	1659
128.8	6535	2.360E-06	1.558E-05	1660
129.7	13380	4.832E-06	3.189E-05	1662
130.6	20325	7.340E-06	4.845E-05	1663
131.5	16853	6.086E-06	4.017E-05	1664
132.5	5642	2.038E-06	1.345E-05	1665
133.5	3460	1.250E-06	8.247E-06	1667
134.4	1806	6.525E-07	4.306E-06	1668
135.4	0	0.	0.	1669
136.4	12	4.351E-09	2.871E-08	1670
137.3	0	0.	0.	1672
138.3	32	1.166E-08	7.826E-08	1673

CROSSWIND INTEGRATED= 7.377E-04 SEC/SQ.M  
 4.869E-03 1/M

TEST U79 SEPTEMBER 20, 1968 0027 TO 0057 PST  
 FLUORESCHEIN RELEASE FROM ELEVATION OF 56M  
 3200M ARC SAMPLER HT 1.5M U= 6.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
118.6	0	0.	0.	3200
119.5	0	1.543E-10	1.018E-09	3248
120.5	3	1.273E-09	8.402E-09	3249
121.5	6	2.430E-09	1.604E-08	3251
122.4	12	4.398E-09	2.903E-08	3252
123.4	38	1.393E-08	9.192E-08	3253
124.4	337	1.219E-07	8.048E-07	3255
125.4	332	1.200E-07	7.921E-07	3256
126.3	2149	7.762E-07	5.123E-06	3258
127.3	5604	2.024E-06	1.336E-05	3259
128.3	5604	2.024E-06	1.336E-05	3261
129.3	9193	3.323E-06	2.191E-05	3262
130.3	6949	2.510E-06	1.657E-05	3263
131.2	2485	8.977E-07	5.925E-06	3264
132.2	850	3.071E-07	2.027E-06	3266
133.2	104	3.785E-08	2.498E-07	3267
134.2	8	3.125E-09	2.062E-08	3268
135.2	27	1.007E-08	6.645E-08	3270
136.2	4	1.505E-09	9.930E-09	3271
137.1	6	2.199E-09	1.451E-08	3272

CROSSWIND INTEGRATED= 6.809E-04 SEC/SQ.M  
 4.494E-03 1/M

TEST U75 SEPTEMBER 20, 1968 0027 TO 0057 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
700M ARC SAMPLER HT 1.5M U = 5.1 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>2</sup>	E/Q SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
110.0	0	2.784E-10	1.422E-09	4920
112.0	39	1.311E-08	6.688E-08	4990
114.0	51	1.701E-08	8.677E-08	5080
116.0	1017	3.390E-07	1.729E-06	5020
118.0	2383	7.945E-07	4.052E-06	5130
120.0	3739	1.246E-06	6.357E-06	5130
122.0	9563	3.188E-06	1.626E-05	4830
124.0	924	3.082E-07	1.572E-06	4660
126.0	102	3.431E-08	1.750E-07	4770
128.0	12	4.044E-09	2.063E-08	4900
130.0	5	1.952E-09	9.957E-09	4970
132.0	0	0.	0.	4980

CROSSWIND INTEGRATED = 1.024E-03 SEC/SQ.M 5.271E-03 1/M

TEST U75 SEPTEMBER 20, 1968 0027 TO 0057 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
700M ARC SAMPLER HT 1.5M U = 5.1 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>2</sup>	E/Q SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
108.0	0	0.	0.	6800
110.0	2	6.367E-10	4.267E-09	7000
112.0	162	5.424E-08	2.767E-07	7300
114.0	696	2.322E-07	1.164E-06	7210
116.0	1491	4.973E-07	2.530E-06	7220
118.0	2462	8.204E-07	4.166E-06	7190
120.0	4770	1.574E-06	8.029E-06	7150
122.0	3935	1.312E-06	6.691E-06	7120
4 124.0	1101	3.672E-07	1.873E-06	7100
126.0	333	1.128E-07	5.754E-07	7100
4 128.0	30	1.032E-08	5.263E-08	7100
130.0	0	0.	0.	7130

CROSSWIND INTEGRATED = 1.244E-03 SEC/SQ.M 6.345E-03 1/M

TEST U75 SEPTEMBER 20, 1968 0027 TO 0057 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
1200M ARC SAMPLER HT 1.5M U = 5.1 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>2</sup>	E/Q SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
110.0	0	2.784E-10	1.422E-09	12800
111.0	7	2.658E-09	1.351E-08	12800
112.0	0	0.	0.	12800
113.0	6	2.231E-09	1.138E-08	12800
114.0	61	2.030E-08	1.033E-07	12800
9 115.0	2	8.367E-10	4.267E-09	12800
7 116.0	45	1.508E-08	7.661E-08	12800
117.0	192	6.449E-08	3.273E-07	12800
118.0	150	5.020E-08	2.560E-07	12800
119.0	212	7.070E-08	3.600E-07	12800
110.0	303	1.012E-07	5.164E-07	12800
111.0	71	2.331E-08	1.210E-07	12800
112.0	335	1.103E-07	5.620E-07	12800
113.0	285	9.525E-08	4.850E-07	12800
114.0	223	7.447E-08	3.790E-07	12800
115.0	203	6.792E-08	3.464E-07	12800
116.0	255	8.507E-08	4.333E-07	12800
117.0	241	8.047E-08	4.104E-07	12800
118.0	34	1.157E-08	5.903E-08	12800
119.0	18	6.136E-09	3.129E-08	12800
120.0	10	3.426E-09	1.776E-08	12800
121.0	5	1.813E-09	9.246E-09	12800
122.0	0	1.395E-10	7.112E-10	12800

CROSSWIND INTEGRATED = 1.965E-04 SEC/SQ.M 1.012E-03 1/M

TEST U75 SEPTEMBER 20, 1968 0027 TO 0057 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
500M ARC SAMPLER HT 1.5M U = 6.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>2</sup>	E/Q SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
112.0	2	8.029E-10	5.299E-09	4990
114.0	2	7.351E-10	4.852E-09	5080
116.0	76	2.767E-08	1.823E-07	5020
118.0	195	7.059E-08	4.659E-07	5100
0 120.0	379	1.371E-07	9.048E-07	5130
122.0	1438	5.194E-07	5.426E-06	4930
124.0	1304	3.627E-07	2.394E-06	4660
126.0	2825	1.021E-06	6.736E-06	4770
128.0	866	3.057E-07	2.018E-06	4900
130.0	264	9.547E-08	6.301E-07	4970
132.0	11	4.094E-09	2.702E-08	4980
134.0	0	0.	0.	4990

CROSSWIND INTEGRATED = 4.243E-04 SEC/SQ.M 2.827E-03 1/M

TEST U75 SEPTEMBER 20, 1968 0027 TO 0057 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
700M ARC SAMPLER HT 1.5M U = 6.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>2</sup>	E/Q SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
110.0	1	5.029E-10	3.359E-09	7000
112.0	4	1.753E-09	1.157E-08	7300
114.0	9	3.449E-09	2.276E-08	7210
116.0	54	1.951E-08	1.288E-07	7220
118.0	219	7.911E-08	5.221E-07	7190
120.0	726	2.624E-07	1.732E-06	7150
122.0	1417	5.118E-07	3.378E-06	7120
4 124.0	2232	8.063E-07	5.321E-06	7100
126.0	2429	8.775E-07	5.792E-06	7100
4 128.0	608	2.197E-07	1.450E-06	7100
130.0	52	1.883E-08	1.243E-07	7130
5 132.0	0	0.	0.	7150
134.0	0	0.	0.	7200

CROSSWIND INTEGRATED = 6.953E-04 SEC/SQ.M 4.589E-03 1/M

TEST U75 SEPTEMBER 20, 1968 0027 TO 0057 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
1200M ARC SAMPLER HT 1.5M U = 6.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>2</sup>	E/Q SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
111.0	0	0.	0.	12800
112.0	1	3.953E-10	2.612E-09	12800
113.0	5	1.979E-09	1.306E-08	12800
114.0	22	8.199E-09	5.411E-08	12800
9 115.0	35	1.295E-08	8.546E-08	12800
7 116.0	64	2.335E-08	1.541E-07	12800
117.0	83	3.014E-08	1.989E-07	12800
118.0	124	4.434E-08	2.959E-07	12800
E 119.0	130	4.710E-08	3.109E-07	12800
110.0	133	4.823E-08	3.185E-07	12800
4 111.0	164	5.954E-08	3.935E-07	12800
112.0	205	7.424E-08	4.900E-07	12800
113.0	377	1.364E-07	9.005E-07	12800
114.0	575	2.077E-07	1.371E-06	12800
115.0	622	2.247E-07	1.483E-06	12800
116.0	516	1.873E-07	1.230E-06	12800
117.0	622	2.247E-07	1.483E-06	12800
118.0	349	1.263E-07	8.333E-07	12800
119.0	528	1.997E-07	1.259E-06	12800
120.0	240	8.668E-08	5.721E-07	12800
121.0	139	5.049E-08	3.333E-07	12800
122.0	102	3.692E-08	2.437E-07	12800
123.0	12	4.653E-09	3.095E-08	12800
124.0	7	2.651E-09	1.754E-08	12800
125.0	0	1.695E-10	1.120E-09	12800

CROSSWIND INTEGRATED = 4.009E-04 SEC/SQ.M 2.699E-03 1/M

SAMPLING 400M TO 3200M. NO TOWER SAMPLING. ALL ARCS TRUNCATED FOR ZNS RELEASE FROM 26M. SOME ARCS TRUNCATED FOR FLUORESCIN RELEASE FROM 56M. TRACER "SMOURED" WIDELY IN CROSSWIND DIRECTION. THERMALLY VERY STABLE ATMOSPHERE. EQUIPMENT DIFFICULTIES DURING FLUORESCIN ASSAY.

TEST U80 SEPTEMBER 30, 1968 0039 TO 0109 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
400M ARC SAMPLER HT 1.5M U= 2.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
B 46.0	2831	9.867E-07	2.171E-06	400
B 50.0	762	2.657E-07	5.845E-07	400
54.0	4368	1.522E-06	3.349E-06	400
58.0	4135	1.441E-06	3.170E-06	400
62.0	3114	1.085E-06	2.388E-06	400
66.0	4202	1.464E-06	3.221E-06	400
70.0	3657	1.275E-06	2.804E-06	400
74.0	3849	1.341E-06	2.951E-06	400
78.0	4288	1.494E-06	3.288E-06	400
4 82.0	3058	1.066E-06	2.345E-06	400
86.0	4982	1.736E-06	3.819E-06	400
90.0	6512	2.269E-06	4.992E-06	400
94.0	5940	2.070E-06	4.554E-06	400
98.0	8700	3.032E-06	6.669E-06	400
102.0	9709	3.383E-06	7.443E-06	400
106.0	9747	3.396E-06	7.472E-06	400
110.0	10576	3.685E-06	8.107E-06	400
9 114.0	12820	4.467E-06	9.828E-06	400
118.0	34841	1.214E-05	2.671E-05	400
122.0	24849	8.658E-06	1.905E-05	400
126.0	77870	2.713E-05	5.969E-05	400
130.0	34781	1.212E-05	2.666E-05	400
134.0	17993	6.269E-06	1.379E-05	400
138.0	5981	2.084E-06	4.585E-06	400
142.0	8546	2.978E-06	6.551E-06	400
146.0	3150	1.098E-06	2.415E-06	400
150.0	3475	1.211E-06	2.664E-06	400
B 154.0	3766	1.312E-06	2.887E-06	400

CROSSWIND INTEGRATED= 3.099E-03 SEC/SQ.M 6.818E-03 1/M

TEST U80 SEPTEMBER 30, 1968 0039 TO 0109 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
800M ARC SAMPLER HT 1.5M U= 2.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
B 40.0	1669	5.817E-07	1.280E-06	800
43.0	2021	7.044E-07	1.550E-06	800
46.0	2031	7.079E-07	1.557E-06	800
49.0	2135	7.442E-07	1.637E-06	800
52.0	2014	7.019E-07	1.544E-06	800
55.0	2170	7.563E-07	1.664E-06	800
58.0	2914	1.015E-06	2.234E-06	800
61.0	2700	9.409E-07	2.070E-06	800
64.0	2895	1.009E-06	2.219E-06	800
4 67.0	2101	7.321E-07	1.611E-06	800
70.0	3948	1.376E-06	3.026E-06	800
73.0	3428	1.195E-06	2.628E-06	800
76.0	4163	1.451E-06	3.191E-06	800
79.0	4192	1.461E-06	3.213E-06	800
82.0	6398	2.230E-06	4.905E-06	800
85.0	5640	1.965E-06	4.324E-06	800
88.0	5488	1.913E-06	4.208E-06	800
91.0	6792	2.367E-06	5.207E-06	800
94.0	6255	2.180E-06	4.795E-06	800
97.0	8687	3.027E-06	6.659E-06	800
97.1	10450	3.641E-06	8.011E-06	806
99.1	10208	3.557E-06	7.825E-06	809
101.1	8021	2.795E-06	6.149E-06	813
103.0	6512	2.269E-06	4.992E-06	816
105.0	10796	3.762E-06	8.276E-06	820
106.9	9647	3.362E-06	7.396E-06	823
108.8	10422	3.632E-06	7.990E-06	826
E 110.7	11821	4.119E-06	9.062E-06	829
112.6	13284	4.629E-06	1.018E-05	833
114.5	32457	1.131E-05	2.488E-05	836
116.4	37744	1.315E-05	2.893E-05	839
118.3	39029	1.360E-05	2.992E-05	842
120.2	43482	1.515E-05	3.333E-05	845
122.1	41239	1.437E-05	3.161E-05	848
124.0	48982	1.707E-05	3.755E-05	851
125.8	64354	2.242E-05	4.933E-05	854
127.7	70115	2.443E-05	5.375E-05	857

TEST U80 SEPTEMBER 30, 1968 0039 TO 0109 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
400M ARC SAMPLER HT 1.5M U= 2.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
74.0	0	1.162E-11	3.254E-11	400
78.0	0	1.046E-10	2.929E-10	400
4 82.0	5	1.976E-09	5.532E-09	400
86.0	21	7.554E-09	2.115E-08	400
90.0	7	2.673E-09	7.485E-09	400
94.0	0	2.324E-10	6.508E-10	400
98.0	0	3.407E-11	9.763E-11	400
102.0	89	3.208E-08	8.982E-08	400
106.0	167	5.977E-08	1.679E-07	400
110.0	89	3.208E-08	8.982E-08	400
9 114.0	95	3.440E-08	9.633E-08	400
118.0	112	4.021E-08	1.126E-07	400
122.0	3	1.240E-09	3.471E-09	400
126.0	1383	4.958E-07	1.388E-06	400
130.0	3607	1.293E-06	3.621E-06	400
134.0	0	1.162E-10	3.254E-10	400
138.0	0	2.324E-10	6.508E-10	400

CROSSWIND INTEGRATED= 5.590E-05 SEC/SQ.M 1.565E-04 1/M

TEST U80 SEPTEMBER 30, 1968 0039 TO 0109 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
800M ARC SAMPLER HT 1.5M U= 2.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
64.0	0	0.	0.	800
67.0	3	1.27E-09	3.580E-09	800
70.0	0	3.254E-10	9.112E-10	800
73.0	1	6.973E-10	1.953E-09	800
76.0	0	2.673E-10	7.485E-10	800
79.0	0	4.649E-11	1.302E-10	800
82.0	2	7.361E-10	2.061E-09	800
85.0	2	8.156E-10	2.278E-09	800
88.0	2	7.351E-10	2.061E-09	800
91.0	2	8.910E-10	2.495E-09	800
94.0	2	8.910E-10	2.495E-09	800
97.0	3	1.162E-09	3.254E-09	800
97.1	2	1.066E-09	2.983E-09	806
99.1	4	1.541E-09	4.313E-09	809
101.1	12	4.622E-09	1.294E-08	813
103.0	18	6.676E-09	1.869E-08	816
105.0	0	0.	0.	820
106.9	1	5.263E-10	1.474E-09	823
108.8	17	7.419E-09	1.797E-08	826
Z 110.7	0	0.	0.	829
112.6	16	6.034E-09	1.689E-08	833
114.5	1177	4.220E-07	1.182E-06	836
116.4	11	4.108E-09	1.150E-08	839
118.3	962	3.449E-07	9.659E-07	842
120.2	29	1.066E-08	2.983E-08	845
122.1	1678	6.017E-07	1.685E-06	848
124.0	9246	3.314E-06	9.280E-06	851
125.8	14436	5.174E-06	1.449E-05	854
127.7	8569	3.072E-06	8.601E-06	857

129.5	119111	4.150E-05	9.131E-05	859	129.5	18082	6.481E-06	1.815E-05	859
131.4	49935	1.740E-05	3.828E-05	862	131.4	61854	2.217E-05	6.200E-05	862
133.2	62294	2.171E-05	4.775E-05	865	133.2	47746	1.711E-05	4.792E-05	865
135.0	59970	2.090E-05	4.597E-05	867	134.9	6990	2.506E-06	7.015E-06	867
E 136.8	54515	1.899E-05	4.179E-05	869	E 136.9	1678	6.017E-07	1.685E-06	870
E 138.7	43609	1.520E-05	3.343E-05	872	E 138.7	389	1.395E-07	3.907E-07	872
E 140.6	32703	1.140E-05	2.507E-05	874	E 140.6	84	3.044E-08	8.519E-08	874
E 142.4	27745	9.667E-06	2.127E-05	876	E 142.4	41	1.502E-08	4.206E-08	876
E 144.2	26369	9.188E-06	2.021E-05	878	E 144.2	17	6.419E-09	1.797E-08	878
146.0	21975	7.657E-06	1.685E-05	880	146.0	0	1.412E-10	3.954E-10	880
147.8	15481	5.394E-06	1.187E-05	882					
149.6	17878	6.229E-06	1.370E-05	884					
151.4	15012	5.231E-06	1.151E-05	886					
153.2	13084	4.559E-06	1.003E-05	887					
155.0	10071	3.509E-06	7.721E-06	889					
156.8	7018	2.445E-06	5.380E-06	890					
158.6	5851	2.039E-06	4.486E-06	892					
160.4	5541	1.931E-06	4.248E-06	893					
B 162.2	5787	2.017E-06	4.437E-06	894					
CROSSWIND INTEGRATED= 1.130E-02 SEC/SQ.M 2.487E-02 I/M					CROSSWIND INTEGRATED= 1.700E-03 SEC/SQ.M 4.761E-03 I/M				

TEST U80 SEPTEMBER 30, 1968 0039 TO 0109 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 1200M ARC SAMPLER HT 1.5M U= 2.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
B 48.0	1560	5.436E-07	1.196E-06	1200
50.0	1996	6.957E-07	1.531E-06	1200
52.0	2027	7.064E-07	1.554E-06	1200
54.0	1873	6.528E-07	1.436E-06	1200
56.0	2165	7.546E-07	1.660E-06	1200
58.0	2152	7.502E-07	1.650E-06	1200
60.0	2166	7.549E-07	1.661E-06	1200
62.0	2106	7.339E-07	1.615E-06	1200
64.0	1682	5.863E-07	1.290E-06	1200
66.0	2524	8.795E-07	1.935E-06	1200
68.0	2544	8.865E-07	1.950E-06	1200
70.0	2483	8.655E-07	1.904E-06	1200
72.0	1911	6.660E-07	1.465E-06	1200
74.0	2567	8.947E-07	1.966E-06	1200
76.0	2446	8.526E-07	1.876E-06	1200
78.0	2463	8.585E-07	1.889E-06	1200
80.0	2482	8.649E-07	1.903E-06	1200
82.0	3680	1.283E-06	2.822E-06	1200
E 84.0	3622	1.262E-06	2.777E-06	1200
E 86.0	3633	1.266E-06	2.785E-06	1200
88.0	3568	1.244E-06	2.736E-06	1200
90.0	5279	1.840E-06	4.047E-06	1200
92.0	4507	1.570E-06	3.455E-06	1200
94.0	4966	1.730E-06	3.807E-06	1200
96.0	4887	1.703E-06	3.746E-06	1200
98.0	5842	2.036E-06	4.479E-06	1200
100.0	6412	2.234E-06	4.916E-06	1200
102.0	8097	2.822E-06	6.207E-06	1200
104.0	7578	2.641E-06	5.809E-06	1200
106.0	10200	3.554E-06	7.820E-06	1200
108.0	8149	2.840E-06	6.247E-06	1200
110.0	10887	3.793E-06	8.346E-06	1200
112.0	7526	2.622E-06	5.769E-06	1200
114.0	12298	4.285E-06	9.427E-06	1200
E 116.0	18610	6.484E-06	1.427E-05	1200
118.0	26121	9.101E-06	2.002E-05	1200
6 120.0	15506	5.403E-06	1.189E-05	1200
122.0	34132	1.189E-05	2.616E-05	1200
124.0	30405	1.059E-05	2.331E-05	1200
126.0	37528	1.308E-05	2.877E-05	1200
128.0	32127	1.119E-05	2.463E-05	1200
130.0	27642	9.632E-06	2.119E-05	1200
4 132.0	30934	1.078E-05	2.371E-05	1200
134.0	34457	1.201E-05	2.641E-05	1200
6 136.0	34186	1.191E-05	2.621E-05	1200
138.0	33239	1.158E-05	2.548E-05	1200
E 140.0	18625	6.490E-06	1.428E-05	1200
142.0	17825	6.211E-06	1.366E-05	1200
E 144.0	17954	6.256E-06	1.376E-05	1200
146.0	10763	3.750E-06	8.251E-06	1200
7 148.0	4490	1.565E-06	3.442E-06	1200
150.0	9714	3.385E-06	7.447E-06	1200
152.0	6991	2.436E-06	5.359E-06	1200
154.0	4546	1.584E-06	3.485E-06	1200
B 156.0	530	1.849E-07	4.069E-07	1200

CROSSWIND INTEGRATED= 8.679E-03 SEC/SQ.M 1.909E-02 I/M

TEST U80 SEPTEMBER 30, 1968 0039 TO 0109 PST  
 FLUORESCCEIN RELEASE FROM ELEVATION OF 56M  
 1200M ARC SAMPLER HT 1.5M U= 2.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
92.0	0	0.	0.	1200
94.0	0	0.	0.	1200
96.0	43	1.556E-08	4.356E-08	1200
98.0	88	3.176E-08	8.894E-08	1200
100.0	148	5.337E-08	1.494E-07	1200
102.0	160	5.769E-08	1.615E-07	1200
104.0	420	1.566E-07	4.217E-07	1200
106.0	438	1.571E-07	4.399E-07	1200
108.0	245	8.794E-08	2.462E-07	1200
110.0	377	1.355E-07	3.793E-07	1200
4 112.0	390	1.400E-07	3.921E-07	1200
114.0	1935	6.936E-07	1.942E-06	1200
9 116.0	1099	3.941E-07	1.104E-06	1200
118.0	1441	5.166E-07	1.447E-06	1200
6 120.0	1327	4.758E-07	1.332E-06	1200
122.0	719	2.580E-07	7.224E-07	1200
124.0	517	1.854E-07	5.191E-07	1200
126.0	1251	4.486E-07	1.256E-06	1200
128.0	6581	2.359E-06	6.605E-06	1200
130.0	8583	3.077E-06	8.614E-06	1200
4 132.0	23627	8.469E-06	2.371E-05	1200
134.0	31503	1.129E-05	3.162E-05	1200
6 136.0	2656	9.523E-07	2.666E-06	1200
138.0	466	1.672E-07	4.683E-07	1200
0 140.0	947	3.397E-07	9.511E-07	1200
142.0	812	2.911E-07	8.150E-07	1200
0 144.0	335	1.204E-07	3.370E-07	1200
146.0	649	2.327E-07	6.516E-07	1200
7 148.0	209	7.498E-08	2.099E-07	1200
150.0	27	9.940E-09	2.783E-08	1200
152.0	41	1.491E-08	4.175E-08	1200
154.0	9	3.436E-09	9.620E-09	1200
156.0	11	4.106E-09	1.150E-08	1200

CROSSWIND INTEGRATED= 1.307E-03 SEC/SQ.M 3.660E-03 I/M

TEST UHO SEPTEMBER 30, 1968 0039 TO 0109 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 1600M ARC SAMPLER HT 1.5M U= 2.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	L/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
B 48.0	372	1.297E-07	2.852E-07	1600
50.0	581	2.026E-07	4.458E-07	1600
52.0	509	1.774E-07	3.902E-07	1600
54.0	644	2.245E-07	4.939E-07	1600
56.0	736	2.568E-07	5.649E-07	1600
58.0	895	3.121E-07	6.866E-07	1600
60.0	760	2.649E-07	5.828E-07	1600
62.0	1229	4.283E-07	9.422E-07	1600
64.0	1341	4.673E-07	1.028E-06	1600
66.0	1715	5.978E-07	1.315E-06	1600
68.0	1621	5.649E-07	1.243E-06	1600
70.0	1560	5.436E-07	1.196E-06	1600
S 72.0	789	2.750E-07	6.051E-07	1600
74.0	1755	6.118E-07	1.346E-06	1600
76.0	2211	7.706E-07	1.695E-06	1600
78.0	2059	7.176E-07	1.579E-06	1600
80.0	1325	4.619E-07	1.016E-06	1600
82.0	1971	6.870E-07	1.511E-06	1600
W 84.0	1822	6.351E-07	1.397E-06	1600
H 86.0	2899	1.010E-06	2.223E-06	1600
88.0	2230	7.771E-07	1.710E-06	1600
90.0	3583	1.249E-06	2.747E-06	1600
92.0	3503	1.221E-06	2.686E-06	1600
93.6	4105	1.431E-06	3.147E-06	1603
94.0	3965	1.382E-06	3.040E-06	1600
94.6	6149	2.143E-06	4.714E-06	1604
95.6	5818	2.027E-06	4.460E-06	1606
96.6	6227	2.170E-06	4.774E-06	1608
97.6	7817	2.724E-06	5.992E-06	1610
98.6	6095	2.124E-06	4.672E-06	1611
99.6	7501	2.614E-06	5.750E-06	1613
100.6	9247	3.222E-06	7.089E-06	1615
E 101.6	8418	2.933E-06	6.453E-06	1617
E 102.6	7820	2.725E-06	5.995E-06	1618
E 103.6	7309	2.547E-06	5.603E-06	1620
E 104.5	6657	2.320E-06	5.103E-06	1622
E 105.5	6654	2.319E-06	5.101E-06	1623
106.5	6678	2.327E-06	5.119E-06	1625
107.5	6101	2.126E-06	4.677E-06	1627
108.5	6275	2.167E-06	4.811E-06	1628
109.5	6527	2.275E-06	5.004E-06	1630
110.4	7228	2.519E-06	5.541E-06	1632
111.4	6882	2.398E-06	5.276E-06	1633
112.4	5617	1.957E-06	4.306E-06	1635
113.4	5932	2.067E-06	4.548E-06	1637
114.4	6329	2.205E-06	4.852E-06	1638
115.3	8833	3.078E-06	6.771E-06	1640
116.3	10221	3.562E-06	7.836E-06	1641
117.3	11231	3.913E-06	8.610E-06	1643
118.2	19370	6.749E-06	1.485E-05	1644
119.2	28378	9.888E-06	2.175E-05	1646
120.2	42837	1.493E-05	3.284E-05	1647
121.2	51770	1.804E-05	3.968E-05	1649
122.1	50721	1.767E-05	3.888E-05	1650
123.1	45398	1.582E-05	3.480E-05	1652
124.1	46600	1.624E-05	3.572E-05	1653
125.0	41713	1.453E-05	3.198E-05	1655
126.0	48436	1.688E-05	3.713E-05	1656
126.9	44734	1.559E-05	3.429E-05	1658
127.8	54643	1.904E-05	4.189E-05	1659
128.8	47820	1.666E-05	3.666E-05	1660
129.7	36892	1.285E-05	2.828E-05	1662
130.6	36820	1.283E-05	2.822E-05	1663
131.5	47871	1.668E-05	3.670E-05	1664
132.5	41310	1.439E-05	3.167E-05	1665
133.5	31134	1.085E-05	2.387E-05	1667
134.4	43667	1.522E-05	3.347E-05	1668
135.4	38891	1.355E-05	2.981E-05	1669
136.4	27777	9.678E-06	2.129E-05	1670
137.3	3777	1.316E-06	2.896E-06	1672
138.3	27260	9.498E-06	2.090E-05	1673
139.3	16515	5.754E-06	1.266E-05	1674
140.2	20007	6.971E-06	1.534E-05	1675
141.2	16770	5.843E-06	1.286E-05	1676
142.2	11706	4.079E-06	8.974E-06	1677
143.1	13554	4.723E-06	1.039E-05	1678
144.1	9560	3.331E-06	7.329E-06	1679
145.1	8169	2.846E-06	6.262E-06	1680

TEST UHO SEPTEMBER 30, 1968 0039 TO 0109 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 1600M ARC SAMPLER HT 1.5M U= 2.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	L/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
96.6	0	0.	0.	1600
99.6	0	2.540E-10	7.112E-10	1613
100.6	16	5.740E-09	1.607E-08	1615
E 101.6	36	1.311E-08	3.670E-08	1617
E 102.6	18	6.502E-09	1.821E-08	1618
E 103.6	20	7.518E-09	2.105E-08	1620
E 104.5	20	7.518E-09	2.105E-08	1622
E 105.5	102	3.673E-08	1.020E-07	1623
106.5	1295	4.643E-07	1.300E-06	1625
107.5	0	0.	0.	1627
108.5	400	1.434E-07	4.015E-07	1628
109.5	140	5.027E-08	1.408E-07	1630
110.4	563	2.018E-07	5.651E-07	1632
111.4	215	7.736E-08	2.166E-07	1633
112.4	67	2.403E-08	6.728E-08	1635
113.4	563	2.018E-07	5.651E-07	1637
114.4	350	1.256E-07	3.517E-07	1638
115.3	941	3.373E-07	9.444E-07	1640
116.3	1059	3.796E-07	1.063E-06	1641
117.3	775	2.780E-07	7.784E-07	1643
118.2	12	4.470E-09	1.252E-08	1644
119.2	1035	3.711E-07	1.039E-06	1646
120.2	1602	5.743E-07	1.608E-06	1647
121.2	2759	9.892E-07	2.770E-06	1649
122.1	846	3.034E-07	8.496E-07	1650
123.1	1271	4.558E-07	1.276E-06	1652
124.1	610	2.187E-07	6.125E-07	1653
125.0	752	2.695E-07	7.547E-07	1655
126.0	563	2.018E-07	5.651E-07	1656
126.9	470	1.688E-07	4.726E-07	1658
127.8	704	2.526E-07	7.073E-07	1659
128.8	531	1.906E-07	5.338E-07	1660
129.7	1682	6.031E-07	1.669E-06	1662
130.6	978	3.507E-07	9.818E-07	1663
131.5	8031	2.879E-06	8.061E-06	1664
132.5	19837	7.110E-06	1.991E-05	1665
133.5	22898	8.237E-06	2.298E-05	1667
134.4	21467	7.694E-06	2.154E-05	1668
135.4	18604	6.668E-06	1.867E-05	1669
136.4	8775	3.146E-06	8.807E-06	1670
137.3	903	3.240E-07	9.072E-07	1672
138.3	5204	1.805E-06	5.223E-06	1673
139.3	2525	9.054E-07	2.535E-06	1674
140.2	3270	1.172E-06	3.282E-06	1675
141.2	2674	9.587E-07	2.684E-06	1676
142.2	1335	4.787E-07	1.340E-06	1677
143.1	539	1.934E-07	5.414E-07	1678
144.1	704	2.526E-07	7.073E-07	1679
145.1	286	1.028E-07	2.877E-07	1680

146.0	8752	3.050E-06	6.709E-06	1681
146.9	5722	1.994E-06	4.387E-06	1682
147.9	3979	1.387E-06	3.050E-06	1683
148.8	1941	6.765E-07	1.488E-06	1684
149.7	814	2.838E-07	6.244E-07	1685
150.7	393	1.372E-07	3.018E-07	1686
151.6	69	2.409E-08	5.299E-08	1687
152.6	69	2.409E-08	5.299E-08	1688
153.5	57	1.990E-08	4.377E-08	1688
154.5	0	0.	0.	1689
155.4	0	0.	0.	1690

CROSSWIND INTEGRATED= 1.166E-02 2.608E-02  
SEC/SQ.M 1/M

TEST U80 SEPTEMBER 30, 1968 0039 TU 0109 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
2200M ARC SAMPLER HT 1.5M U= 2.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
8 48.0	159	5.569E-08	1.225E-07	2200
6 50.0	251	8.776E-08	1.931E-07	2200
4 52.0	0	0.	0.	2200
5 54.0	856	2.985E-07	6.568E-07	2200
5 56.0	606	2.112E-07	4.647E-07	2200
5 58.0	340	1.188E-07	2.614E-07	2200
5 60.0	653	2.277E-07	5.009E-07	2200
5 62.0	248	8.673E-08	1.908E-07	2200
5 64.0	768	2.676E-07	5.888E-07	2200
5 66.0	422	1.474E-07	3.242E-07	2200
5 68.0	571	1.990E-07	4.378E-07	2200
4 70.0	358	1.251E-07	2.752E-07	2200
4 72.0	412	1.439E-07	3.165E-07	2200
5 74.0	687	2.397E-07	5.272E-07	2200
E 76.0	553	1.929E-07	4.243E-07	2200
4 78.0	795	2.771E-07	6.097E-07	2200
5 80.0	453	1.582E-07	3.480E-07	2200
5 82.0	322	1.124E-07	2.473E-07	2200
5 84.0	1235	4.306E-07	9.473E-07	2200
5 86.0	512	1.786E-07	3.929E-07	2200
4 88.0	317	1.106E-07	2.434E-07	2200
6 90.0	695	2.424E-07	5.333E-07	2200
5 92.0	1409	4.910E-07	1.080E-06	2200
E 94.0	966	3.367E-07	7.408E-07	2200
E 96.0	689	2.404E-07	5.288E-07	2200
E 98.0	827	2.885E-07	6.347E-07	2200
6 100.0	975	3.399E-07	7.479E-07	2200
4 102.0	911	3.175E-07	6.985E-07	2200
3 104.0	2007	6.994E-07	1.539E-06	2200
E 106.0	917	3.198E-07	7.036E-07	2200
5 108.0	2075	7.230E-07	1.591E-06	2200
7 110.0	977	3.405E-07	7.492E-07	2200
5 112.0	854	2.978E-07	6.552E-07	2200
6 114.0	316	1.102E-07	2.424E-07	2200
7 116.0	277	9.679E-08	2.129E-07	2200
8 118.0	208	7.274E-08	1.600E-07	2200
E 120.0	454	1.583E-07	3.483E-07	2200
4 122.0	911	3.175E-07	6.985E-07	2200
7 124.0	950	3.312E-07	7.286E-07	2200
5 126.0	2988	1.041E-06	2.291E-06	2200
5 128.0	2579	8.988E-07	1.977E-06	2200
7 130.0	816	2.845E-07	6.260E-07	2200
7 132.0	687	2.395E-07	5.269E-07	2200
E 134.0	560	1.953E-07	4.297E-07	2200
6 136.0	1089	3.797E-07	8.354E-07	2200
E 138.0	659	2.297E-07	5.054E-07	2200
6 140.0	782	2.727E-07	6.000E-07	2200
7 142.0	99	3.469E-08	7.633E-08	2200
4 144.0	58	2.041E-08	4.490E-08	2200
5 146.0	0	0.	0.	2200

CROSSWIND INTEGRATED= 9.976E-04 2.195E-03  
SEC/SQ.M 1/M

146.0	515	1.849E-07	5.177E-07	1681
146.9	201	7.228E-08	2.024E-07	1682
Z 147.9	69	2.487E-08	6.965E-08	1683
148.8	59	2.149E-08	6.016E-08	1684
149.7	43	1.556E-08	4.357E-08	1685
150.7	5	2.100E-09	5.879E-09	1686

CROSSWIND INTEGRATED= 1.396E-03 3.909E-03  
SEC/SQ.M 1/M

TEST U80 SEPTEMBER 30, 1968 0039 TU 0109 PST  
FLUORESCHEIN RELEASE FROM ELEVATION OF 56M  
2200M ARC SAMPLER HT 1.5M U= 2.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
5 80.0	1	4.041E-10	1.131E-09	2200
5 82.0	0	2.357E-10	6.600E-10	2200
5 84.0	0	6.734E-11	1.886E-10	2200
5 86.0	2	8.755E-10	2.451E-09	2200
4 88.0	2	1.061E-09	2.970E-09	2200
6 90.0	6	2.263E-09	6.336E-09	2200
5 92.0	69	2.475E-08	6.930E-08	2200
E 94.0	95	3.409E-08	9.544E-08	2200
0 96.0	122	4.334E-08	1.228E-07	2200
7 98.0	885	3.175E-07	8.890E-07	2200
6 100.0	550	1.973E-07	5.524E-07	2200
4 102.0	846	3.033E-07	8.494E-07	2200
104.0	234	8.414E-08	2.356E-07	2200
9 106.0	339	1.719E-07	3.412E-07	2200
5 108.0	846	3.033E-07	8.494E-07	2200
7 110.0	530	1.902E-07	5.326E-07	2200
5 112.0	1122	4.023E-07	1.127E-06	2200
6 114.0	846	3.033E-07	8.494E-07	2200
7 116.0	353	1.266E-07	3.544E-07	2200
8 118.0	1378	4.943E-07	1.304E-06	2200
0 120.0	925	3.16E-07	9.286E-07	2200
4 122.0	787	2.821E-07	7.900E-07	2200
7 124.0	570	2.044E-07	5.722E-07	2200
5 126.0	510	1.831E-07	5.124E-07	2200
5 128.0	885	3.175E-07	8.890E-07	2200
7 130.0	445	1.596E-07	4.468E-07	2200
7 132.0	826	2.963E-07	8.296E-07	2200
0 134.0	7019	2.516E-06	7.044E-06	2200
6 136.0	7588	2.720E-06	7.616E-06	2200
9 138.0	1359	4.872E-07	1.364E-06	2200
6 140.0	2431	8.714E-07	2.440E-06	2200
7 142.0	589	2.114E-07	5.920E-07	2200
4 144.0	251	9.021E-08	2.526E-07	2200
5 146.0	73	2.623E-08	7.344E-08	2200
5 148.0	45	1.647E-08	4.610E-08	2200
5 150.0	26	9.394E-09	2.630E-08	2200
4 152.0	6	2.211E-09	6.191E-09	2200
9 154.0	3	1.111E-09	3.111E-09	2200
156.0	1	6.398E-10	1.791E-09	2200

CROSSWIND INTEGRATED= 8.968E-04 2.511E-03  
SEC/SQ.M 1/M

TEST U80 SEPTEMBER 30, 1968 0039 TU 0109 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 3200M ARC SAMPLER HT 1.5M U = 2.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS	
0	48.0	2	7.289E-10	1.604E-09	3200
6	50.0	0	2.915E-10	6.414E-10	3200
6	52.0	39	1.370E-08	3.015E-08	3200
1	54.0	0	0.	0.	3200
5	56.0	30	1.079E-08	2.373E-08	3200
5	58.0	3	1.312E-09	2.886E-09	3200
5	60.0	43	1.516E-08	3.335E-08	3200
P	62.0	0	0.	0.	3200
4	64.0	39	1.385E-08	3.047E-08	3200
4	66.0	28	1.006E-08	2.213E-08	3200
7	68.0	6	2.187E-09	4.811E-09	3200
5	70.0	23	8.163E-09	1.796E-08	3200
	72.7	111	3.879E-08	8.533E-08	3168
	73.7	205	7.161E-08	1.575E-07	3170
	74.7	232	8.106E-08	1.783E-07	3172
	75.7	301	1.049E-07	2.308E-07	3173
	76.8	306	1.069E-07	2.352E-07	3175
	77.8	246	8.603E-08	1.893E-07	3177
H	78.8	790	2.755E-07	6.061E-07	3179
H	79.8	943	3.287E-07	7.231E-07	3180
H	80.8	2224	7.753E-07	1.706E-06	3182
	81.8	1527	5.321E-07	1.171E-06	3184
	82.8	1144	3.988E-07	8.774E-07	3185
	83.8	1762	6.141E-07	1.351E-06	3187
	84.8	3065	1.060E-06	2.350E-06	3189
	85.8	1883	6.564E-07	1.444E-06	3191
	86.8	1375	4.794E-07	1.055E-06	3192
	87.8	1489	6.584E-07	1.448E-06	3194
	88.8	1953	6.808E-07	1.498E-06	3196
	89.8	2581	8.996E-07	1.979E-06	3198
	90.8	2137	7.449E-07	1.639E-06	3199
	91.8	1377	4.799E-07	1.056E-06	3201
	92.6	1261	4.396E-07	9.671E-07	3203
	93.8	2333	8.130E-07	1.789E-06	3205
	94.8	1084	3.779E-07	8.314E-07	3206
	95.8	1030	3.590E-07	7.899E-07	3208
	96.8	1070	3.730E-07	8.205E-07	3210
	97.8	913	3.183E-07	7.002E-07	3212
	98.8	896	3.123E-07	6.870E-07	3213
	99.8	543	1.895E-07	4.168E-07	3215
	100.8	636	2.218E-07	4.879E-07	3217
	101.8	558	1.944E-07	4.278E-07	3218
	102.8	311	1.084E-07	2.385E-07	3220
	103.8	479	1.671E-07	3.676E-07	3222
	104.8	562	1.959E-07	4.310E-07	3224
	105.8	345	1.203E-07	2.647E-07	3225
	106.8	218	7.608E-08	1.674E-07	3227
	107.8	553	1.929E-07	4.245E-07	3229
E	108.8	583	2.034E-07	4.474E-07	3230
	109.7	231	8.056E-08	1.772E-07	3232
	110.7	358	1.248E-07	2.746E-07	3233
	111.7	265	9.249E-08	2.035E-07	3235
	112.7	269	9.399E-08	2.068E-07	3237
	113.7	119	4.177E-08	9.190E-08	3238
	114.6	82	2.884E-08	6.345E-08	3240
	115.6	101	3.531E-08	7.767E-08	3241
	116.6	19	6.962E-09	1.532E-08	3243
	117.6	38	1.343E-08	2.954E-08	3245
	118.6	74	2.586E-08	5.689E-08	3246
	119.5	67	2.337E-08	5.142E-08	3248
	120.5	62	2.188E-08	4.814E-08	3249
	121.5	49	1.740E-08	3.829E-08	3251
	122.4	22	7.956E-09	1.750E-08	3252
	123.4	14	4.973E-09	1.094E-08	3253
	124.4	2	9.946E-10	2.188E-09	3255

CROSSWIND INTEGRATED = 8.120E-04 SEC/SQ.M 1.786E-03 1/M

TEST U80 SEPTEMBER 30, 1968 0039 TU 0109 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 3200M ARC SAMPLER HT 1.5M U = 2.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS	
7	48.0	11	4.153E-09	1.163E-08	3200
6	50.0	13	4.426E-09	1.351E-08	3200
6	52.0	15	5.724E-09	1.603E-08	3200
F	54.0	19	6.959E-09	1.948E-08	3200
5	56.0	22	8.081E-09	2.263E-08	3200
5	58.0	11	4.265E-09	1.194E-08	3200
5	60.0	6	2.745E-09	6.285E-09	3200
F	62.0	12	4.602E-09	1.288E-08	3200
4	64.0	24	8.755E-09	2.451E-08	3200
4	66.0	26	9.428E-09	2.640E-08	3200
7	68.0	9	3.479E-09	9.742E-09	3200
5	70.0	24	8.755E-09	2.451E-08	3200
	72.7	30	1.103E-08	3.088E-08	3168
	73.7	35	1.256E-08	3.516E-08	3170
	74.7	39	1.409E-08	3.945E-08	3172
	75.7	15	5.667E-09	1.547E-08	3173
	76.8	52	1.868E-08	5.252E-08	3175
	77.8	45	1.639E-08	4.588E-08	3177
	78.8	62	2.251E-08	6.304E-08	3179
	79.8	33	1.218E-08	3.409E-08	3180
Z	80.8	28	1.026E-08	2.873E-08	3182
	81.8	8	2.910E-09	8.148E-09	3184
	82.8	51	1.830E-08	5.124E-08	3185
	83.8	42	1.524E-08	4.267E-08	3187
	84.8	76	2.749E-08	7.697E-08	3189
	85.8	64	2.328E-08	6.518E-08	3191
	86.8	23	8.347E-09	2.337E-08	3192
	87.8	61	2.213E-08	6.196E-08	3194
	88.8	172	6.195E-08	1.735E-07	3196
	89.8	115	4.127E-08	1.156E-07	3198
	90.8	204	7.344E-08	2.056E-07	3199
	91.8	263	9.449E-08	2.646E-07	3201
	92.8	402	1.443E-07	4.040E-07	3203
	93.8	765	2.744E-07	7.684E-07	3205
	94.8	872	3.127E-07	8.757E-07	3206
	95.8	1028	3.666E-07	1.032E-06	3208
	96.8	1746	6.259E-07	1.753E-06	3210
	97.8	1454	5.214E-07	1.460E-06	3212
	98.8	1890	6.742E-07	1.888E-06	3213
	99.8	1813	6.510E-07	1.820E-06	3215
	100.8	1477	5.294E-07	1.482E-06	3217
	101.8	1880	6.742E-07	1.888E-06	3218
	102.8	759	2.721E-07	7.620E-07	3220
	103.8	983	3.526E-07	9.671E-07	3222
	104.8	1387	4.973E-07	1.392E-06	3224
	105.8	1163	4.162E-07	1.167E-06	3225
	106.8	1320	4.732E-07	1.325E-06	3227
	107.8	938	3.365E-07	9.421E-07	3229
	108.8	1611	5.777E-07	1.618E-06	3230
	109.7	983	3.526E-07	9.671E-07	3232
	110.7	2015	7.224E-07	2.023E-06	3233
	111.7	1409	5.053E-07	1.415E-06	3235
Z	112.7	2352	8.430E-07	2.360E-06	3237
	113.7	1252	4.490E-07	1.257E-06	3238
	114.6	1028	3.686E-07	1.032E-06	3240
	115.6	1297	4.651E-07	1.302E-06	3241
	116.6	647	2.319E-07	6.495E-07	3243
	117.6	1028	3.686E-07	1.032E-06	3245
	118.6	669	2.400E-07	6.720E-07	3246
	119.5	669	2.400E-07	6.720E-07	3248
	120.5	274	9.832E-08	2.753E-07	3249
	121.5	72	2.596E-08	7.269E-08	3251
	122.4	349	1.251E-07	3.503E-07	3252
	123.4	594	2.132E-07	5.969E-07	3253
	124.4	637	2.285E-07	6.398E-07	3255
	125.4	317	1.136E-07	3.182E-07	3256
	126.3	274	9.832E-08	2.753E-07	3258
	127.3	285	1.022E-07	2.860E-07	3259
	128.3	680	2.438E-07	6.827E-07	3261
	129.3	648	2.323E-07	6.505E-07	3262
	130.3	712	2.553E-07	7.148E-07	3263

131.2	691	2.480E-07	6.945E-07	3264
132.2	755	2.706E-07	7.577E-07	3266
133.2	968	3.472E-07	9.721E-07	3267
134.2	755	2.706E-07	7.577E-07	3268
135.2	455	1.634E-07	4.576E-07	3270
136.2	808	2.898E-07	8.113E-07	3271
137.1	722	2.591E-07	7.256E-07	3272
138.1	722	2.591E-07	7.256E-07	3273
139.1	808	2.898E-07	8.113E-07	3274
140.1	2560	9.177E-07	2.570E-06	3276
141.1	1214	4.353E-07	1.219E-06	3277
142.0	1150	4.123E-07	1.154E-06	3278
143.0	1150	4.123E-07	1.154E-06	3279
H 144.0	1374	4.927E-07	1.380E-06	3280
145.0	819	2.936E-07	8.221E-07	3281
146.0	413	1.481E-07	4.147E-07	3282
H 146.9	99	3.553E-08	9.949E-08	3283
147.9	11	3.944E-09	1.104E-08	3284
148.9	0	3.829E-11	1.072E-10	3285

CROSSWIND INTEGRATED= 1.143E-03 3.200E-03  
SEC/SQ.M 1/M



SAMPLING 400M TO 12800M. NO TOWER SAMPLING. ALL ARCS EMBRACE ESSENTIALLY ENTIRE CROSSWIND EXTENT OF TRACER. HIGH DUST LEVEL ON FILTERS EXPOSED AT 5000M, 7000M AND 12800M. (DUST DEGRADES CONFIDENCE IN TRACER ASSAY -- ESPECIALLY ZNS.) LARGE WIND DIRECTION VARIANCE FOR RELATIVELY HIGH WIND SPEED.

TEST U01 OCTOBER 1, 1968 0111 TO 0141 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
400M ARC SAMPLER HT 1.5M U= 5.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
B 62.0	93	2.976E-08	1.696E-07	400
Z 66.0	554	1.763E-07	1.005E-06	400
Z 70.0	814	2.590E-07	1.477E-06	400
Z 74.0	1210	3.851E-07	2.195E-06	400
78.0	3099	9.863E-07	5.622E-06	400
82.0	4328	1.377E-06	7.849E-06	400
86.0	2190	6.971E-07	3.973E-06	400
90.0	1840	5.855E-07	3.337E-06	400
94.0	4743	1.509E-06	8.602E-06	400
98.0	11514	3.663E-06	2.080E-05	400
102.0	22500	7.159E-06	4.081E-05	400
106.0	26504	8.433E-06	4.807E-05	400
E 110.0	27687	8.809E-06	5.021E-05	400
F 114.0	29888	9.509E-06	5.420E-05	400
118.0	29007	9.229E-06	5.261E-05	400
122.0	19888	6.324E-06	3.607E-05	400
126.0	17388	5.532E-06	3.153E-05	400
130.0	12589	4.006E-06	2.283E-05	400
134.0	5490	1.747E-06	9.957E-06	400
138.0	669	2.131E-07	1.215E-06	400
142.0	264	8.401E-08	4.789E-07	400
146.0	0	0.	0.	400
CROSSWIND INTEGRATED=		1.975E-03 SEC/SQ.M	1.126E-02 1/M	

TEST U01 OCTOBER 1, 1968 0111 TO 0141 PST  
FLUORINE RELEASE FROM ELEVATION OF 56M  
400M ARC SAMPLER HT 1.5M U= 7.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
78.0	0	2.054E-10	1.430E-09	400
82.0	1	4.323E-10	3.026E-09	400
86.0	9	3.243E-09	2.270E-08	400
90.0	76	2.551E-08	1.786E-07	400
94.0	189	6.312E-08	4.419E-07	400
98.0	1701	5.670E-07	3.969E-06	400
102.0	1088	3.627E-07	2.539E-06	400
106.0	4424	1.475E-06	1.032E-05	400
110.0	10806	3.602E-06	2.521E-05	400
114.0	5457	1.819E-06	1.273E-05	400
118.0	4802	1.601E-06	1.120E-05	400
122.0	1496	4.909E-07	3.493E-06	400
126.0	373	1.244E-07	8.704E-07	400
130.0	78	9.555E-09	6.688E-08	400
134.0	373	1.244E-07	8.709E-07	400
138.0	6112	2.037E-06	1.426E-05	400
142.0	236	7.883E-08	5.518E-07	400
146.0	0	2.270E-10	1.589E-09	400
150.0	3	1.297E-09	9.079E-09	400
154.0	5	1.946E-09	1.362E-08	400
CROSSWIND INTEGRATED=		3.462E-04 SEC/SQ.M	2.423E-03 1/M	

TEST U01 OCTOBER 1, 1968 0111 TO 0141 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
800M ARC SAMPLER HT 1.5M U= 5.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
70.0	0	0.	0.	800
73.0	19	6.126E-09	3.492E-08	800
76.0	72	2.319E-08	1.322E-07	800
79.0	1151	3.663E-07	2.088E-06	800
82.0	416	1.326E-07	7.557E-07	800
85.0	844	2.687E-07	1.531E-06	800
88.0	1882	5.990E-07	3.415E-06	800
91.0	1467	4.669E-07	2.661E-06	800
94.0	1453	4.625E-07	2.630E-06	800
97.0	1686	5.365E-07	3.058E-06	800
97.1	1766	5.622E-07	3.204E-06	806
99.1	1928	6.137E-07	3.498E-06	809
101.1	2274	7.238E-07	4.126E-06	813
103.0	3692	1.175E-06	6.696E-06	816
105.0	8352	2.657E-06	1.515E-05	820
106.9	14304	4.551E-06	2.594E-05	823
108.8	17145	5.455E-06	3.110E-05	826
E 110.7	21220	6.752E-06	3.849E-05	829
E 112.6	22553	7.176E-06	4.090E-05	833
114.5	31409	9.994E-06	5.696E-05	836
116.4	44164	1.405E-05	8.009E-05	839
118.3	53340	1.697E-05	9.674E-05	842
120.2	24817	7.896E-06	4.501E-05	845
122.1	21743	6.918E-06	3.943E-05	848
124.0	21456	6.827E-06	3.891E-05	851
125.8	15898	5.058E-06	2.883E-05	854
127.7	9493	3.020E-06	1.722E-05	857
129.5	11285	3.591E-06	2.047E-05	859
131.4	2580	8.210E-07	4.680E-06	862
133.2	253	8.081E-08	4.606E-07	865
135.0	0	0.	0.	867
CROSSWIND INTEGRATED=		3.012E-03 SEC/SQ.M	1.717E-02 1/M	

TEST U01 OCTOBER 1, 1968 0111 TO 0141 PST  
FLUORINE RELEASE FROM ELEVATION OF 56M  
800M ARC SAMPLER HT 1.5M U= 7.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
88.0	0	0.	0.	800
91.0	43	1.447E-08	1.013E-07	800
94.0	1	6.017E-10	4.212E-09	800
97.0	79	2.636E-08	1.845E-07	800
97.1	40	1.361E-08	9.527E-08	806
99.1	564	1.837E-07	1.316E-06	809
101.1	1427	4.758E-07	3.330E-06	813
103.0	3228	1.076E-06	7.534E-06	816
105.0	4281	1.427E-06	9.991E-06	820
106.9	6989	2.330E-06	1.631E-05	823
108.8	14887	4.962E-06	3.474E-05	826
110.7	10600	3.533E-06	2.473E-05	829
112.6	17294	5.765E-06	4.055E-05	833
114.5	19550	6.517E-06	4.562E-05	836
116.4	9697	3.232E-06	2.263E-05	839
118.3	11502	3.834E-06	2.684E-05	842
120.2	7892	2.631E-06	1.842E-05	845
122.1	2251	7.504E-07	5.253E-06	848
124.0	1619	5.398E-07	3.778E-06	851
125.8	3981	1.327E-06	9.289E-06	854
127.7	1032	3.442E-07	2.409E-06	857
129.5	1950	6.501E-07	4.551E-06	859
131.4	1176	3.922E-07	2.745E-06	862
133.2	402	1.343E-07	9.402E-07	865
135.0	7	2.308E-09	1.671E-08	867
136.9	3	1.313E-09	9.193E-09	870
138.7	5	1.671E-09	1.170E-08	872
140.6	0	0.	0.	874
142.4	0	0.	0.	876
CROSSWIND INTEGRATED=		1.112E-03 SEC/SQ.M	7.782E-03 1/M	

TEST U81 OCTOBER 1, 1968 0111 TO 0141 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 1200M ARC SAMPLER HT 1.5M U= 5.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
80.0	0	0.	0.	1200
82.0	22	7.078E-09	4.034E-08	1200
84.0	52	1.660E-08	9.460E-08	1200
86.0	113	3.612E-08	2.059E-07	1200
88.0	232	7.395E-08	4.215E-07	1200
90.0	351	1.118E-07	6.371E-07	1200
92.0	222	7.078E-08	4.034E-07	1200
94.0	335	1.067E-07	6.079E-07	1200
96.0	882	2.807E-07	1.600E-06	1200
98.0	398	1.267E-07	7.220E-07	1200
100.0	663	2.111E-07	1.203E-06	1200
102.0	1338	4.259E-07	2.428E-06	1200
104.0	1227	3.905E-07	2.226E-06	1200
106.0	2589	8.240E-07	4.697E-06	1200
108.0	3006	9.565E-07	5.452E-06	1200
110.0	4055	1.290E-06	7.355E-06	1200
112.0	5983	1.904E-06	1.085E-05	1200
114.0	11536	3.670E-06	2.092E-05	1200
116.0	22243	7.077E-06	4.034E-05	1200
118.0	20673	6.578E-06	3.749E-05	1200
120.0	10789	3.433E-06	1.957E-05	1200
122.0	9073	2.887E-06	1.645E-05	1200
124.0	7538	2.398E-06	1.367E-05	1200
126.0	3540	1.126E-06	6.420E-06	1200
128.0	470	1.499E-07	8.542E-07	1200
130.0	19	6.102E-09	3.478E-08	1200
132.0	1	4.881E-10	2.782E-09	1200
134.0	4	1.464E-09	8.347E-09	1200
136.0	0	0.	0.	1200

CROSSWIND INTEGRATED= 1.431E-03 SEC/SQ.M 8.156E-03 1/M

TEST U81 OCTOBER 1, 1968 0111 TO 0141 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 1200M ARC SAMPLER HT 1.5M U= 7.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
94.0	0	0.	0.	1200
96.0	6	2.170E-09	1.519E-08	1200
98.0	13	4.421E-09	3.099E-08	1200
100.0	63	2.110E-08	1.477E-07	1200
102.0	112	3.738E-08	2.616E-07	1200
104.0	529	1.766E-07	1.256E-06	1200
106.0	1479	4.931E-07	3.452E-06	1200
108.0	1137	3.792E-07	2.654E-06	1200
110.0	4682	1.551E-06	1.093E-05	1200
112.0	6961	2.320E-06	1.624E-05	1200
114.0	10759	3.586E-06	2.510E-05	1200
116.0	6836	2.278E-06	1.595E-05	1200
118.0	17784	4.262E-06	2.983E-05	1200
120.0	6574	2.191E-06	1.534E-05	1200
122.0	2125	7.044E-07	4.959E-06	1200
124.0	1365	4.552E-07	3.136E-06	1200
126.0	2049	6.840E-07	4.781E-06	1200
128.0	2049	6.830E-07	4.781E-06	1200
130.0	909	3.932E-07	2.123E-06	1200
132.0	2	9.666E-10	6.752E-09	1200
134.0	1	4.421E-10	3.095E-09	1200
136.0	3	1.145E-09	8.018E-09	1200

CROSSWIND INTEGRATED= 8.440E-04 SEC/SQ.M 5.908E-03 1/M

TEST U81 OCTOBER 1, 1968 0111 TO 0141 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 1600M ARC SAMPLER HT 1.5M U= 5.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
84.0	0	0.	0.	1600
86.0	13	4.149E-09	2.365E-08	1600
88.0	6	1.952E-09	1.113E-08	1600
90.0	45	1.440E-08	8.208E-08	1600
92.0	52	1.684E-08	9.599E-08	1600
93.6	54	1.746E-08	9.953E-08	1603
94.0	98	3.124E-08	1.781E-07	1600
94.6	120	3.842E-08	2.190E-07	1604
95.6	76	2.445E-08	1.393E-07	1606
96.6	134	4.278E-08	2.439E-07	1608
97.6	107	3.405E-08	1.941E-07	1610
98.6	183	5.850E-08	3.334E-07	1611
99.6	296	9.430E-08	5.375E-07	1613
101.6	905	2.881E-07	1.642E-06	1617
102.6	815	2.593E-07	1.478E-06	1618
103.6	624	1.973E-07	1.125E-06	1620
104.5	1553	4.942E-07	2.817E-06	1622
105.5	1100	3.501E-07	1.996E-06	1623
106.5	2209	7.029E-07	4.006E-06	1625
107.5	2739	8.714E-07	4.967E-06	1627
108.5	3234	1.030E-06	5.873E-06	1628
109.5	3737	1.189E-06	6.778E-06	1630
110.4	4239	1.349E-06	7.689E-06	1632
110.6	510	1.624E-07	9.257E-07	1632
111.4	4890	1.556E-06	8.868E-06	1633
112.4	5943	1.891E-06	1.078E-05	1635
113.4	9365	2.980E-06	1.699E-05	1637
114.4	12425	3.953E-06	2.253E-05	1638
115.3	16588	5.278E-06	3.008E-05	1640
116.3	19327	6.149E-06	3.505E-05	1641
117.3	18940	6.026E-06	3.435E-05	1643
118.2	14426	4.590E-06	2.616E-05	1644
119.2	11635	3.702E-06	2.110E-05	1646
120.2	10639	3.385E-06	1.929E-05	1647
121.2	11522	3.666E-06	2.090E-05	1649

TEST U81 OCTOBER 1, 1968 0111 TO 0141 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 1600M ARC SAMPLER HT 1.5M U= 7.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
99.6	0	0.	0.	1600
100.6	0	0.	0.	1615
101.6	8	2.795E-09	1.957E-08	1617
102.6	3	1.220E-09	8.543E-09	1618
103.6	73	2.437E-08	1.706E-07	1620
104.5	15	5.073E-09	3.555E-08	1622
105.5	19	6.446E-09	4.547E-08	1623
106.5	92	3.067E-08	2.147E-07	1625
107.5	58	1.960E-07	1.372E-06	1627
108.5	800	2.665E-07	1.868E-06	1628
109.5	1769	5.897E-07	4.126E-06	1630
110.4	1485	4.952E-07	3.466E-06	1632
111.4	473	1.579E-07	1.105E-06	1633
112.4	4461	1.457E-06	1.041E-05	1635
113.4	4610	1.537E-06	1.076E-05	1637
114.4	22815	7.605E-06	5.324E-05	1638
115.3	18846	6.282E-06	4.398E-05	1640
116.3	13886	4.629E-06	3.240E-05	1641
117.3	9967	3.323E-06	2.326E-05	1643
118.2	19838	6.613E-06	4.629E-05	1644
119.2	12398	4.133E-06	2.893E-05	1646
120.2	5265	1.735E-06	1.215E-05	1647
121.2	7438	2.479E-06	1.736E-05	1649

122.1	8965	2.852E-06	1.626E-05	1650
123.1	5985	1.904E-06	1.085E-05	1652
124.1	2944	9.368E-07	5.340E-06	1653
125.0	1297	4.130E-07	2.354E-06	1655
126.0	282	8.993E-08	5.126E-07	1656
126.9	263	8.382E-08	4.778E-07	1658
127.8	0	0.	0.	1659

CROSSWIND INTEGRATED= 1.564E-03 8.913E-03  
SEC/SQ.M 1/M

122.1	5503	1.035E-06	1.284E-05	1650
123.1	2477	8.259E-07	5.781E-06	1652
124.1	4015	1.338E-06	9.365E-06	1653
125.0	1733	5.779E-07	4.045E-06	1655
126.0	706	2.354E-07	1.648E-06	1656
126.9	1131	3.771E-07	2.640E-06	1650
127.8	682	2.275E-07	1.593E-06	1659
128.8	5	1.220E-09	8.543E-09	1660

CROSSWIND INTEGRATED= 1.302E-03 9.111E-03  
SEC/SQ.M 1/M

TEST U81 OCTOBER 1, 1968 0111 TO 0141 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
2200M ARC SAMPLER HT 1.5M U= 5.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
92.0	0	2.662E-10	1.517E-09	2200
8 94.0	0	0.	0.	2200
x 96.0	0	0.	0.	2200
98.0	5	1.597E-09	9.105E-09	2200
4 100.0	7	2.529E-09	1.442E-08	2200
102.0	14	4.659E-09	2.656E-08	2200
5 104.0	19	6.256E-09	3.566E-08	2200
5 106.0	43	1.371E-08	7.815E-08	2200
108.0	249	7.947E-08	4.530E-07	2200
4 110.0	380	1.210E-07	6.847E-07	2200
112.0	404	1.289E-07	7.345E-07	2200
114.0	739	2.357E-07	1.341E-06	2200
116.0	667	2.123E-07	1.210E-06	2200
118.0	1366	4.347E-07	2.478E-06	2200
E 120.0	417	1.328E-07	7.572E-07	2200
122.0	289	9.211E-08	5.250E-07	2200
E 124.0	61	1.970E-08	1.123E-07	2200
126.0	7	2.524E-09	1.442E-08	2200
128.0	11	3.584E-09	2.049E-08	2200
130.0	0	0.	0.	2200

CROSSWIND INTEGRATED= 1.145E-04 6.528E-04  
SEC/SQ.M 1/M

TEST U81 OCTOBER 1, 1968 0111 TO 0141 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
3200M ARC SAMPLER HT 1.5M U= 5.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
99.8	0	0.	0.	3200
99.8	0	0.	0.	3215
100.8	4	1.297E-09	7.395E-09	3217
101.8	26	9.082E-09	5.177E-08	3218
102.8	50	1.600E-08	9.121E-08	3220
103.8	13	4.325E-09	2.465E-08	3222
104.8	8	2.595E-09	1.479E-08	3224
105.8	112	3.589E-08	2.046E-07	3225
106.8	262	8.346E-08	4.757E-07	3227
107.8	247	7.871E-08	4.486E-07	3229
108.8	260	8.503E-08	4.753E-07	3230
109.7	712	2.266E-07	1.292E-06	3232
110.7	1363	4.338E-07	2.472E-06	3233
111.7	1716	5.462E-07	3.113E-06	3235
112.7	2564	8.161E-07	4.651E-06	3237
E 113.7	2775	8.844E-07	5.041E-06	3238
F 114.6	3007	9.570E-07	5.455E-06	3240
115.6	3209	1.021E-06	5.820E-06	3241
116.6	3649	1.161E-06	6.619E-06	3243
E 117.6	3302	1.051E-06	5.990E-06	3245
E 118.6	3092	9.838E-07	5.608E-06	3246
119.5	3016	9.596E-07	5.470E-06	3248
120.5	1526	4.857E-07	2.768E-06	3249
121.5	974	3.101E-07	1.767E-06	3251
122.4	396	1.263E-07	7.190E-07	3252
123.4	142	4.541E-08	2.588E-07	3253
124.4	59	1.903E-08	1.085E-07	3255
125.4	39	1.254E-08	7.149E-08	3256
126.3	0	0.	0.	3258
127.3	0	0.	0.	3259

CROSSWIND INTEGRATED= 5.730E-04 3.266E-03  
SEC/SQ.M 1/M

TEST U81 OCTOBER 1, 1968 0111 TO 0141 PST  
FLUOROCESCEIN RELEASE FROM ELEVATION OF 56M  
2200M ARC SAMPLER HT 1.5M U= 7.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
4 100.0	0	2.505E-10	1.754E-09	2200
102.0	0	1.253E-10	8.768E-10	2200
Z 104.0	0	1.566E-10	1.096E-09	2200
5 106.0	47	1.588E-08	1.111E-07	2200
108.0	31	1.640E-08	7.277E-08	2200
4 110.0	248	8.273E-08	5.791E-07	2200
112.0	787	2.625E-07	1.837E-06	2200
114.0	846	2.822E-07	1.975E-06	2200
116.0	4457	1.486E-06	1.040E-05	2200
4 118.0	3943	1.328E-06	9.295E-06	2200
9 120.0	807	2.691E-07	1.883E-06	2200
4 122.0	1971	6.570E-07	4.599E-06	2200
E 124.0	787	2.625E-07	1.837E-06	2200
126.0	245	8.190E-08	5.733E-07	2200
128.0	13	4.447E-09	3.112E-08	2200
Z 130.0	5	1.941E-09	1.359E-08	2200
132.0	3	1.190E-09	8.330E-09	2200
134.0	1	5.637E-10	3.946E-09	2200
3 136.0	0	1.253E-10	8.768E-10	2200

CROSSWIND INTEGRATED= 3.645E-04 2.552E-03  
SEC/SQ.M 1/M

TEST U81 OCTOBER 1, 1968 0111 TO 0141 PST  
FLUOROCESCEIN RELEASE FROM ELEVATION OF 56M  
3200M ARC SAMPLER HT 1.5M U= 7.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
103.8	0	0.	0.	3200
104.8	0	0.	0.	3224
105.8	9	3.098E-09	2.166E-08	3225
106.8	87	2.906E-08	2.034E-07	3227
107.8	13	4.467E-09	3.141E-08	3229
108.8	293	9.778E-08	6.844E-07	3230
109.7	314	1.949E-07	7.345E-07	3232
110.7	510	1.701E-07	1.190E-06	3233
111.7	689	2.299E-07	1.609E-06	3235
112.7	958	3.196E-07	2.237E-06	3237
113.7	1676	5.589E-07	3.912E-06	3238
114.6	3493	1.165E-06	8.152E-06	3240
115.6	3493	1.165E-06	8.152E-06	3241
116.6	6051	2.017E-06	1.412E-05	3243
117.6	3830	1.277E-06	8.937E-06	3245
118.6	2080	6.935E-07	4.854E-06	3246
119.5	2753	9.178E-07	6.425E-06	3248
120.5	2753	9.178E-07	6.425E-06	3249
121.5	2080	6.935E-07	4.854E-06	3251
122.4	2349	7.832E-07	5.483E-06	3252
123.4	1609	5.365E-07	3.755E-06	3253
124.4	1532	5.108E-07	3.576E-06	3255
125.4	1083	3.613E-07	2.529E-06	3256
126.3	261	8.710E-08	6.097E-07	3258
127.3	199	6.644E-08	4.651E-07	3259
128.3	192	6.431E-08	4.502E-07	3261
129.3	1	6.409E-10	4.487E-09	3262
130.3	3	1.202E-09	8.973E-09	3263
131.2	5	1.816E-09	1.271E-08	3264

CROSSWIND INTEGRATED= 7.082E-04 4.958E-03  
SEC/SQ.M 1/M

TEST U81 OCTOBER 1, 1968 0111 TU 0141 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
5000M ARC SAMPLER HT 1.5M U= 5.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
4 106.0	0	0.	0.	4810
4 108.0	6	1.997E-09	1.138E-08	4870
4 110.0	25	8.120E-09	4.628E-08	4920
4 112.0	77	2.476E-08	1.411E-07	4990
4 114.0	204	6.496E-08	3.703E-07	5080
4 116.0	167	5.324E-08	3.035E-07	5020
4 118.0	188	5.990E-08	3.414E-07	5100
4 120.0	38	1.225E-08	6.980E-08	5130
P 122.0	15	5.058E-09	2.883E-08	4830
5 124.0	0	2.662E-10	1.517E-09	4660
5 126.0	0	0.	0.	4770
7 128.0	0	0.	0.	4900
130.0	0	0.	0.	4970

CROSSWIND INTEGRATED= 4.065E-05 SEC/SQ.M 2.317E-04 1/M

TEST U81 OCTOBER 1, 1968 0111 TU 0141 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 56M  
5000M ARC SAMPLER HT 1.5M U= 7.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
4 104.0	2	8.768E-10	6.138E-09	4770
4 106.0	1	6.263E-10	4.384E-09	4810
4 108.0	15	5.261E-09	3.683E-08	4870
4 110.0	112	3.762E-08	2.633E-07	4920
4 112.0	588	1.963E-07	1.374E-06	4990
4 114.0	805	2.886E-07	1.880E-06	5080
4 116.0	1200	4.001E-07	2.801E-06	5020
4 118.0	424	1.415E-07	9.963E-07	5100
4 120.0	404	1.349E-07	9.443E-07	5130
E 122.0	431	1.437E-07	1.006E-06	4830
5 124.0	494	1.650E-07	1.155E-06	4660
5 126.0	159	5.328E-08	3.729E-07	4770
7 128.0	2	7.829E-10	5.480E-09	4900

CROSSWIND INTEGRATED= 2.689E-04 SEC/SQ.M 1.883E-03 1/M

TEST U81 OCTOBER 1, 1968 0111 TU 0141 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
7000M ARC SAMPLER HT 1.5M U= 5.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
6 100.0	0	0.	0.	6560
5 102.0	1	5.324E-10	3.035E-09	6610
6 104.0	6	1.997E-09	1.138E-08	6650
8 106.0	66	2.103E-08	1.199E-07	6720
6 108.0	166	5.294E-08	3.020E-07	6800
8 110.0	228	7.268E-08	4.143E-07	7000
6 112.0	431	1.372E-07	7.823E-07	7300
7 114.0	636	2.025E-07	1.154E-06	7210
6 116.0	670	2.134E-07	1.216E-06	7220
6 118.0	391	1.246E-07	7.102E-07	7190
5 120.0	227	7.241E-08	4.128E-07	7150
7 122.0	117	3.740E-08	2.132E-07	7120
8 124.0	8	2.795E-09	1.593E-08	7100
7 126.0	14	4.526E-09	2.580E-08	7100
8 128.0	0	0.	0.	7100

CROSSWIND INTEGRATED= 2.360E-04 SEC/SQ.M 1.345E-03 1/M

TEST U81 OCTOBER 1, 1968 0111 TU 0141 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 56M  
7000M ARC SAMPLER HT 1.5M U= 7.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
5 102.0	0	0.	0.	6610
6 104.0	11	3.904E-09	2.733E-08	6650
8 106.0	150	5.029E-08	3.520E-07	6720
6 108.0	207	6.914E-08	4.840E-07	6800
8 110.0	746	2.489E-07	1.742E-06	7000
6 112.0	1082	3.607E-07	2.525E-06	7300
7 114.0	1141	3.804E-07	2.663E-06	7210
6 116.0	1259	4.199E-07	2.939E-06	7220
6 118.0	1509	5.032E-07	3.522E-06	7190
5 120.0	726	2.423E-07	1.696E-06	7150
7 122.0	687	2.292E-07	1.604E-06	7120
8 124.0	142	4.766E-08	3.336E-07	7100
7 126.0	286	9.545E-08	6.681E-07	7100
E 128.0	20	6.827E-09	4.779E-08	7100
7 130.0	1	5.323E-10	3.726E-09	7130
P 132.0	4	1.399E-09	9.791E-09	7150
5 134.0	0	0.	0.	7200

CROSSWIND INTEGRATED= 6.647E-04 SEC/SQ.M 4.653E-03 1/M

TEST U81 OCTOBER 1, 1968 0111 TU 0141 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
12800M ARC SAMPLER HT 1.5M U= 5.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
99.0	0	0.	0.	12800
4 100.0	1	3.993E-10	2.276E-09	12800
4 101.0	0	0.	0.	12800
4 102.0	12	4.126E-09	2.352E-08	12800
4 103.0	4	1.331E-09	7.587E-09	12800
4 104.0	12	3.993E-09	2.276E-08	12800
7 105.0	25	7.987E-09	4.552E-08	12800
6 106.0	8	2.795E-09	1.593E-08	12800
4 107.0	58	1.850E-08	1.055E-07	12800
E 108.0	66	2.130E-08	1.214E-07	12800
E 109.0	80	2.556E-08	1.457E-07	12800
5 110.0	86	2.742E-08	1.563E-07	12800
E 111.0	87	2.769E-08	1.576E-07	12800
E 112.0	86	2.755E-08	1.571E-07	12800
4 113.0	86	2.742E-08	1.563E-07	12800
E 114.0	85	2.715E-08	1.548E-07	12800
E 115.0	84	2.676E-08	1.525E-07	12800
E 116.0	82	2.622E-08	1.495E-07	12800
7 117.0	81	2.582E-08	1.472E-07	12800
E 118.0	77	2.463E-08	1.404E-07	12800
5 119.0	73	2.329E-08	1.328E-07	12800
5 120.0	0	1.331E-10	7.587E-10	12800
7 121.0	0	0.	0.	12800

CROSSWIND INTEGRATED= 7.821E-05 SEC/SQ.M 4.458E-04 1/M

TEST U81 OCTOBER 1, 1968 0111 TU 0141 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 56M  
12800M ARC SAMPLER HT 1.5M U= 7.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
4 99.0	0	3.131E-11	2.192E-10	12800
4 100.0	0	6.263E-11	4.384E-10	12800
4 101.0	0	2.870E-09	2.003E-08	12800
4 102.0	7	2.453E-09	1.717E-08	12800
4 103.0	38	1.300E-08	9.097E-08	12800
4 104.0	49	1.644E-08	1.151E-07	12800
7 105.0	81	2.709E-08	1.896E-07	12800
E 106.0	128	4.274E-08	2.992E-07	12800
4 107.0	172	5.736E-08	4.015E-07	12800
5 108.0	171	4.066E-08	2.846E-07	12800
4 109.0	168	5.631E-08	3.942E-07	12800
5 110.0	334	1.116E-07	7.614E-07	12800
6 111.0	253	8.450E-08	5.915E-07	12800
5 112.0	247	8.241E-08	5.709E-07	12800
4 113.0	262	8.763E-08	6.134E-07	12800
0 114.0	325	1.085E-07	7.595E-07	12800
5 115.0	256	8.554E-08	5.988E-07	12800
8 116.0	391	1.304E-07	9.130E-07	12800
7 117.0	550	1.837E-07	1.286E-06	12800
9 118.0	190	6.362E-08	4.453E-07	12800
5 119.0	334	1.116E-07	7.814E-07	12800
5 120.0	168	5.631E-08	3.942E-07	12800
7 121.0	47	1.581E-08	1.107E-07	12800
5 122.0	10	3.601E-09	2.521E-08	12800
8 123.0	2	7.829E-10	5.480E-09	12800

5	124.0	1	3.445E-10	2.411E-09	12800
7	125.0	2	7.515E-10	5.261E-09	12800
7	126.0	0	0.	0.	12800
8	127.0	2	8.142E-10	5.699E-09	12800
5	128.0	0	1.879E-10	1.315E-09	12800
7	129.0	0	0.	0.	12800
7	130.0	60	2.020E-08	1.414E-07	12800
8	131.0	2	8.455E-10	5.918E-09	12800
8	132.0	2	9.081E-10	6.357E-09	12800
9	133.0	4	1.409E-09	9.864E-09	12800
7	134.0	1	4.071E-10	2.850E-09	12800
0	135.0	1	5.010E-10	3.507E-09	12800
8	136.0	3	1.305E-09	9.133E-09	12800
7	137.0	2	7.202E-10	5.042E-09	12800

CRUISSWIND INTEGRATED= 3.158E-04 2.210E-03  
SEC/SQ.M 1/M

SAMPLING 400M TO 12800M. NO TOWER SAMPLING. ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER. NO FLUORESCENCE DETECTED AT 400M ARC. HIGH DUST LEVEL UN FILTERS ON 5000, 7000 AND 12800M ARCS. (DUST DEGRADES CONFIDENCE IN TRACER ASSAY -- PARTICULARLY ZNS.) LARGE DIRECTION SHEAR. PLUME CENTERLINE SHIFTS LOCATION STARTING AT 3200M.

TEST U02 OCTOBER 2, 1968 0111 TO 0141 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
400M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
94.0	2	9.820E-10	4.616E-09	400
98.0	59	2.013E-08	9.462E-08	400
102.0	333	1.134E-07	5.331E-07	400
106.0	1631	5.548E-07	2.608E-06	400
110.0	2658	9.040E-07	4.249E-06	400
114.0	3722	1.266E-06	5.949E-06	400
118.0	8625	2.933E-06	1.378E-05	400
122.0	2223	7.562E-07	3.554E-06	400
126.0	0	0.	0.	400

CROSSWIND INTEGRATED= 1.829E-04 SEC/SQ.M 8.594E-04 1/M

TEST U02 OCTOBER 2, 1968 0111 TO 0141 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
800M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
97.0	0	0.	0.	800
97.1	100	3.409E-08	1.602E-07	806
99.1	542	1.844E-07	8.667E-07	809
101.1	1458	4.959E-07	2.331E-06	813
103.0	1449	4.928E-07	2.316E-06	816
105.0	2214	7.531E-07	3.540E-06	820
106.9	4534	1.542E-06	7.247E-06	823
108.8	7847	2.668E-06	1.254E-05	826
E 110.7	15713	5.343E-06	2.511E-05	829
112.6	22281	7.576E-06	3.561E-05	833
114.5	35884	1.220E-05	5.735E-05	836
116.4	31327	1.065E-05	5.006E-05	839
118.3	40114	1.364E-05	6.471E-05	842
120.2	20945	7.122E-06	3.347E-05	845
122.1	11352	3.860E-06	1.814E-05	848
124.0	5409	1.839E-06	8.645E-06	851
125.8	91	3.099E-08	1.457E-07	854
127.7	0	0.	0.	857

CROSSWIND INTEGRATED= 1.900E-03 SEC/SQ.M 8.932E-03 1/M

TEST U02 OCTOBER 2, 1968 0111 TO 0141 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
1200M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
88.0	33	1.123E-08	5.277E-08	1200
90.0	50	1.725E-08	8.109E-08	1200
92.0	46	1.588E-08	7.466E-08	1200
94.0	105	3.588E-08	1.686E-07	1200
96.0	219	7.449E-08	3.501E-07	1200
98.0	413	1.408E-07	6.610E-07	1200
100.0	659	2.237E-07	1.052E-06	1200
102.0	1339	4.554E-07	2.141E-06	1200
104.0	1935	6.581E-07	3.093E-06	1200
106.0	5283	1.777E-06	8.444E-06	1200
108.0	7186	2.444E-06	1.149E-05	1200
110.0	15396	5.235E-06	2.461E-05	1200
E 112.0	12144	4.129E-06	1.941E-05	1200
114.0	27956	9.506E-06	4.468E-05	1200
E 116.0	25247	8.585E-06	4.035E-05	1200
118.0	21708	7.361E-06	3.469E-05	1200
H 120.0	7604	2.586E-06	1.215E-05	1200
122.0	3605	1.226E-06	5.763E-06	1200
S 124.0	314	1.071E-07	5.033E-07	1200
126.0	57	1.972E-08	9.268E-08	1200
128.0	0	0.	0.	1200

CROSSWIND INTEGRATED= 1.870E-03 SEC/SQ.M 8.790E-03 1/M

TEST U02 OCTOBER 2, 1968 0111 TO 0141 PST  
FLUORESCENCE RELEASE FROM ELEVATION OF 56M  
400M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
N 124.0	0	0.	0.	400
CROSSWIND INTEGRATED=	0.	0.	1/M	

TEST U02 OCTOBER 2, 1968 0111 TO 0141 PST  
FLUORESCENCE RELEASE FROM ELEVATION OF 56M  
800M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
112.6	65	2.276E-08	1.047E-07	833
114.5	33	1.157E-08	5.320E-08	836
116.4	25	8.954E-09	4.119E-08	839
118.3	769	2.671E-07	1.229E-06	842
120.2	12	4.728E-09	1.945E-08	845
122.1	8795	3.054E-06	1.405E-05	848
124.0	3455	1.700E-06	5.519E-06	851
125.8	3681	1.278E-06	5.880E-06	854
127.7	22	7.835E-09	3.604E-08	857

CROSSWIND INTEGRATED= 1.631E-04 SEC/SQ.M 7.502E-04 1/M

TEST U02 OCTOBER 2, 1968 0111 TO 0141 PST  
FLUORESCENCE RELEASE FROM ELEVATION OF 56M  
1200M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
5 112.0	4	1.444E-09	6.644E-09	1200
114.0	1	4.187E-10	1.926E-09	1200
9 116.0	49	1.721E-08	7.915E-08	1200
118.0	1024	3.557E-07	1.630E-06	1200
8 120.0	3417	1.187E-06	5.458E-06	1200
122.0	2738	9.510E-07	4.375E-06	1200
5 124.0	7305	2.537E-06	1.167E-05	1200
126.0	6392	2.220E-06	1.021E-05	1200
128.0	1708	5.931E-07	2.728E-06	1200
130.0	0	2.386E-10	1.096E-09	1200
132.0	758	2.674E-07	1.212E-06	1200
134.0	1	3.559E-10	1.637E-09	1200

CROSSWIND INTEGRATED= 3.404E-04 SEC/SQ.M 1.566E-03 1/M

TEST U02 OCTOBER 2, 1968 0111 TO 0141 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
1600M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 26M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
DEGREES GM-SEC/CM.M SEC/CM.M 1/SQ.M METERS  
X10E+6

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
90.0	0	0.	0.	1600
92.0	31	1.068E-08	5.020E-08	1600
93.6	36	1.226E-08	5.764E-08	1603
94.0	136	4.656E-08	2.188E-07	1600
94.6	102	3.475E-08	1.633E-07	1604
95.6	258	8.789E-08	4.131E-07	1606
96.6	249	8.482E-08	3.967E-07	1608
97.6	354	1.206E-07	5.668E-07	1610
98.6	598	2.034E-07	9.558E-07	1611
99.6	901	3.066E-07	1.441E-06	1613
100.6	1157	3.934E-07	1.849E-06	1615
101.6	1860	6.326E-07	2.973E-06	1617
102.6	2692	9.157E-07	4.304E-06	1618
103.6	3324	1.130E-06	5.312E-06	1620
104.5	4006	1.362E-06	6.403E-06	1622
105.5	5211	1.772E-06	8.329E-06	1623
106.5	7576	2.576E-06	1.211E-05	1625
107.5	9040	3.074E-06	1.445E-05	1627
108.5	13347	4.534E-06	2.131E-05	1628
109.5	13332	4.533E-06	2.131E-05	1630
110.4	17233	5.860E-06	2.754E-05	1632
111.4	20305	6.904E-06	3.243E-05	1633
112.4	19499	6.636E-06	3.116E-05	1635
113.4	24038	8.173E-06	3.842E-05	1637
114.4	21618	7.351E-06	3.455E-05	1638
115.3	21681	7.372E-06	3.465E-05	1640
116.3	19722	6.706E-06	3.152E-05	1641
117.3	24110	8.158E-06	3.853E-05	1643
118.2	13209	4.491E-06	2.111E-05	1644
119.2	15066	5.123E-06	2.408E-05	1646
120.2	16016	5.446E-06	2.560E-05	1647
121.2	13347	4.533E-06	2.131E-05	1649
122.1	9314	3.167E-06	1.400E-05	1650
123.1	580	1.972E-07	9.276E-07	1652
124.1	578	1.708E-07	6.052E-07	1653
125.0	691	2.350E-07	1.105E-06	1655
126.0	580	1.972E-07	9.276E-07	1656
126.9	0	0.	0.	1658

(CROSSWIND INTEGRATED)= 2.860E-04 SEC/SQ.M 1.344E-02 1/M

TEST U02 OCTOBER 2, 1968 0111 TO 0141 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
2200M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 26M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
DEGREES GM-SEC/CM.M SEC/CM.M 1/SQ.M METERS  
X10E+6

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
90.0	0	0.	0.	2200
94.0	0	0.	0.	2200
100.0	179	6.088E-08	2.862E-07	2200
102.0	259	8.420E-08	4.145E-07	2200
104.0	610	2.075E-07	9.755E-07	2200
E 106.0	769	2.617E-07	1.230E-06	2200
F 108.0	1008	3.430E-07	1.612E-06	2200
7 110.0	1430	4.865E-07	2.287E-06	2200
E 112.0	2469	8.396E-07	3.946E-06	2200
114.0	3861	1.313E-06	6.170E-06	2200
S 116.0	4064	1.357E-06	6.495E-06	2200
G 118.0	1425	4.847E-07	2.273E-06	2200
120.0	349	1.189E-07	5.585E-07	2200
E 122.0	251	8.535E-08	4.012E-07	2200
E 124.0	202	6.899E-08	3.243E-07	2200
126.0	176	6.003E-08	2.821E-07	2200
128.0	104	3.727E-08	1.752E-07	2200
130.0	0	0.	0.	2200

(CROSSWIND INTEGRATED)= 4.483E-04 SEC/SQ.M 2.107E-03 1/M

TEST U02 OCTOBER 2, 1968 0111 TO 0141 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 56M  
1600M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 56M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
DEGREES GM-SEC/CM.M SEC/CM.M 1/SQ.M METERS  
X10E+6

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
113.4	0	1.476E-10	6.791E-10	1637
114.4	36	1.255E-08	5.772E-08	1638
115.3	279	9.719E-08	4.471E-07	1640
116.3	964	3.350E-07	1.541E-06	1641
117.3	86	2.994E-08	1.377E-07	1643
118.2	1271	4.417E-07	2.032E-06	1644
119.2	4609	1.601E-06	7.363E-06	1646
120.2	3865	1.347E-06	6.174E-06	1647
121.2	10909	3.788E-06	1.742E-05	1649
122.1	11405	3.910E-06	1.822E-05	1650
123.1	20333	7.060E-06	3.248E-05	1652
124.1	13389	4.649E-06	2.139E-05	1653
125.0	2923	1.015E-06	4.669E-06	1655
126.0	4907	1.704E-06	7.838E-06	1656
126.9	2278	7.910E-07	3.639E-06	1658
127.8	2427	6.427E-07	3.076E-06	1659
128.8	3369	1.170E-06	5.382E-06	1660
129.7	165	2.448E-07	1.120E-06	1662
130.6	2476	8.599E-07	3.950E-06	1663
131.5	1012	3.514E-07	1.617E-06	1664
132.5	2334	8.137E-07	3.729E-06	1665
133.5	1	5.741E-10	2.641E-09	1667

(CROSSWIND INTEGRATED)= 8.656E-04 SEC/SQ.M 3.982E-03 1/M

TEST U02 OCTOBER 2, 1968 0111 TO 0141 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 56M  
2200M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 56M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
DEGREES GM-SEC/CM.M SEC/CM.M 1/SQ.M METERS  
X10E+6

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
114.0	4	1.664E-09	7.652E-09	2200
S 116.0	149	5.206E-08	2.395E-07	2200
G 118.0	1063	3.694E-07	1.699E-06	2200
0 120.0	2366	8.215E-07	3.779E-06	2200
F 122.0	4536	1.575E-06	7.245E-06	2200
E 124.0	5456	1.895E-06	8.716E-06	2200
126.0	4647	1.614E-06	7.424E-06	2200
128.0	1991	6.914E-07	3.180E-06	2200
S 130.0	1708	5.932E-07	2.729E-06	2200
E 132.0	853	2.964E-07	1.363E-06	2200
E 134.0	286	9.958E-08	4.580E-07	2200
136.0	70	2.455E-08	1.129E-07	2200
3 138.0	0	0.	0.	2200

(CROSSWIND INTEGRATED)= 6.149E-04 SEC/SQ.M 2.838E-03 1/M

TEST U82 OCTOBER 2, 1968 0111 TU 0141 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
5200M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 26M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
DEGREES GM-SEC/CM SEC/CM 1/SQ.M METERS  
X10E+6

95.8	0	0.	0.	3200
96.8	4	1.456E-09	6.842E-09	3210
97.8	5	1.941E-09	9.123E-09	3212
98.8	29	1.019E-08	4.790E-08	3213
99.8	47	1.601E-08	7.527E-08	3215
100.8	81	2.766E-08	1.300E-07	3217
101.8	88	3.009E-08	1.414E-07	3218
102.8	182	6.211E-08	2.919E-07	3220
103.8	353	1.203E-07	5.656E-07	3222
104.8	418	1.422E-07	6.683E-07	3224
105.8	971	3.305E-07	1.553E-06	3225
106.8	1277	4.343E-07	2.041E-06	3227
107.8	880	2.994E-07	1.407E-06	3229
108.8	2510	8.536E-07	4.012E-06	3230
109.7	1909	6.493E-07	3.052E-06	3232
109.7	2631	8.948E-07	4.206E-06	3233
110.7	4445	1.512E-06	7.105E-06	3235
111.7	3488	1.186E-06	5.574E-06	3237
112.7	8527	2.849E-06	1.363E-05	3238
113.7	2812	9.565E-07	4.495E-06	3240
114.6	4023	1.368E-06	6.430E-06	3241
115.6	1210	4.115E-07	1.934E-06	3243
116.6	1846	5.600E-07	2.632E-06	3245
117.6	913	3.106E-07	1.460E-06	3246
118.6	10037	3.413E-06	1.604E-05	3248
119.5	7539	2.564E-06	1.205E-05	3249
120.5	5095	1.792E-06	8.142E-06	3251
121.5	5782	1.966E-06	9.242E-06	3252
122.4	5805	1.974E-06	9.278E-06	3253
123.4	4713	1.603E-06	7.533E-06	3255
124.4	4150	1.411E-06	6.632E-06	3256
125.4	3802	1.293E-06	6.076E-06	3258
126.3	1213	4.125E-07	1.939E-06	3259
127.3	466	1.587E-07	7.458E-07	3261
128.3	98	3.348E-08	1.574E-07	3262
129.3	152	5.192E-08	2.440E-07	3263
130.3	0	0.	0.	3264
131.2	2	9.705E-10	4.562E-09	3266
132.2				

CROSSWIND INTEGRATED= 1.638E-03 SEC/SQ.M  
7.697E-03 1/M

TEST U82 OCTOBER 2, 1968 0111 TU 0141 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
5000M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 26M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
DEGREES GM-SEC/CM SEC/CM 1/SQ.M METERS  
X10E+6

102.0	0	0.	0.	4710
104.0	6	2.276E-09	1.070E-08	4770
106.0	16	5.690E-09	2.674E-08	4810
108.0	52	1.778E-08	8.357E-08	4870
110.0	220	7.511E-08	3.530E-07	4920
112.0	220	7.447E-08	3.523E-07	4990
114.0	955	3.244E-07	1.527E-06	5080
116.0	2268	7.714E-07	3.626E-06	5020
118.0	1082	3.602E-07	1.730E-06	5100
E 120.0	1217	4.138E-07	1.945E-06	5130
122.0	1376	4.680E-07	2.200E-06	4830
124.0	1581	5.377E-07	2.527E-06	4660
126.0	2226	7.572E-07	3.559E-06	4770
E 128.0	566	1.928E-07	9.059E-07	4900
8 130.0	389	1.326E-07	6.231E-07	4970
0 132.0	135	4.623E-08	2.173E-07	4980
7 134.0	31	1.067E-08	5.014E-08	4990
136.0	0	0.	0.	5000

CROSSWIND INTEGRATED= 7.211E-04 SEC/SQ.M  
3.389E-03 1/M

TEST U82 OCTOBER 2, 1968 0111 TU 0141 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
3200M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 56M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
DEGREES GM-SEC/CM SEC/CM 1/SQ.M METERS  
X10E+6

108.8	0	3.338E-11	1.536E-10	3230
109.7	34	1.192E-08	5.484E-08	3232
110.7	38	1.340E-08	6.166E-08	3233
111.7	67	2.342E-08	1.077E-07	3235
112.7	41	1.452E-08	6.678E-08	3237
113.7	81	2.824E-08	1.299E-07	3238
114.6	645	2.256E-07	1.038E-06	3240
115.6	468	1.625E-07	7.476E-07	3241
3 116.6	884	3.072E-07	1.413E-06	3243
3 117.6	371	1.291E-07	5.940E-07	3245
3 118.6	1097	3.810E-07	1.753E-06	3246
119.5	1366	4.744E-07	2.182E-06	3248
120.5	3834	1.331E-06	6.124E-06	3249
121.5	2757	9.574E-07	4.404E-06	3251
122.4	3362	1.168E-06	5.371E-06	3252
123.4	5830	2.024E-06	9.313E-06	3253
124.4	4708	1.635E-06	7.521E-06	3255
125.4	5830	2.024E-06	9.313E-06	3256
126.3	4237	1.471E-06	6.769E-06	3258
127.3	2954	1.027E-06	4.726E-06	3259
128.3	2891	1.004E-06	4.619E-06	3261
129.3	3295	1.144E-06	5.264E-06	3262
130.3	3226	1.121E-06	5.156E-06	3263
131.2	2824	9.807E-07	4.511E-06	3264
132.2	2353	8.172E-07	3.754E-06	3266
133.2	917	3.187E-07	1.466E-06	3267
134.2	1411	4.900E-07	2.254E-06	3268
135.2	872	3.031E-07	1.394E-06	3270
136.2	715	2.466E-07	1.143E-06	3271
137.1	478	1.667E-07	7.646E-07	3272
138.1	0	2.007E-10	9.213E-10	3273
139.1	0	2.745E-10	1.263E-09	3274
140.1	87	3.047E-08	1.401E-07	3276
141.1	0	5.564E-11	2.559E-10	3277

CROSSWIND INTEGRATED= 1.117E-03 SEC/SQ.M  
5.118E-03 1/M

TEST U82 OCTOBER 2, 1968 0111 TU 0141 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
5000M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 56M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
DEGREES GM-SEC/CM SEC/CM 1/SQ.M METERS  
X10E+6

108.0	0	0.	0.	4870
110.0	22	7.957E-09	3.660E-08	4920
112.0	67	2.340E-08	1.076E-07	4990
114.0	69	2.427E-08	1.116E-07	5080
116.0	155	5.384E-08	2.477E-07	5020
118.0	192	6.689E-08	3.077E-07	5100
E 120.0	13	4.695E-09	2.160E-08	5130
122.0	669	2.324E-07	1.069E-06	4830
124.0	452	1.570E-07	7.223E-07	4660
126.0	787	2.735E-07	1.258E-06	4770
9 128.0	1004	3.488E-07	1.605E-06	4900
8 130.0	708	2.461E-07	1.132E-06	4970
0 132.0	550	1.913E-07	8.799E-07	4980
7 134.0	590	2.050E-07	9.429E-07	4990
0 136.0	965	3.351E-07	1.542E-06	5000
7 138.0	258	8.972E-08	4.127E-07	5020
0 140.0	10	3.608E-09	1.660E-08	5060
0 142.0	47	1.644E-08	7.561E-08	5090
0 144.0	21	7.304E-09	3.360E-08	5130

CROSSWIND INTEGRATED= 3.926E-04 SEC/SQ.M  
1.806E-03 1/M



TEST U82 OCTOBER 2, 1968 0111 TO 0141 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 7000M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 26M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
 DEGREES GM-SEC/CM SEC/CM 1/SQ.M METERS  
 X10E+6

102.0	0	0.	0.	6610
104.0	4	1.423E-09	6.686E-09	6650
106.0	1	4.268E-10	2.006E-09	6720
109.0	0	0.	0.	6800
110.0	17	5.975E-09	2.808E-08	7000
7 112.0	7	2.703E-09	1.270E-08	7300
6 114.0	281	9.588E-08	4.506E-07	7210
8 116.0	299	1.019E-07	4.787E-07	7220
5 118.0	862	2.933E-07	1.379E-06	7190
6 120.0	1248	4.245E-07	1.995E-06	7150
4 122.0	1603	5.453E-07	2.563E-06	7120
E 124.0	1766	6.007E-07	2.823E-06	7100
E 126.0	1943	6.608E-07	3.106E-06	7100
E 128.0	2446	8.318E-07	3.909E-06	7100
5 130.0	3162	1.075E-06	5.054E-06	7130
E 132.0	3883	1.320E-06	6.206E-06	7150
5 134.0	5008	1.703E-06	8.004E-06	7200
E 136.0	2220	7.551E-07	3.549E-06	7250
E 138.0	556	1.898E-07	8.919E-07	7300
8 140.0	23	7.824E-09	3.677E-08	7350
5 142.0	0	0.	0.	7250
7 144.0	0	2.845E-10	1.337E-09	7110

CROSSWIND INTEGRATED= 2.153E-03 SEC/SQ.M  
 1.012E-02 1/M

TEST U82 OCTOBER 2, 1968 0111 TO 0141 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 12800M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 26M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
 DEGREES GM-SEC/CM SEC/CM 1/SQ.M METERS  
 X10E+6

119.0	0	0.	0.	12800
120.0	2	7.113E-10	3.343E-09	12800
P 121.0	8	2.845E-09	1.337E-08	12800
122.0	30	1.038E-08	4.881E-08	12800
0 123.0	0	0.	0.	12800
8 124.0	5	1.849E-09	8.692E-09	12800
125.0	41	1.408E-08	6.619E-08	12800
E 126.0	140	4.766E-08	2.240E-07	12800
E 127.0	351	1.195E-07	5.616E-07	12800
5 128.0	758	2.574E-07	1.212E-06	12800
5 129.0	1130	3.844E-07	1.807E-06	12800
5 130.0	1341	4.562E-07	2.144E-06	12800
4 131.0	1238	4.212E-07	1.980E-06	12800
1 132.0	1717	5.841E-07	2.745E-06	12800
4 133.0	2668	9.073E-07	4.264E-06	12800
4 134.0	88	3.002E-08	1.411E-07	12800
4 135.0	79	2.717E-08	1.277E-07	12800
8 136.0	28	9.531E-09	4.480E-08	12800
6 137.0	10	3.414E-09	1.605E-08	12800
7 138.0	13	4.694E-09	2.206E-08	12800
139.0	16	5.548E-09	2.603E-08	12800
140.0	0	0.	0.	12800

CROSSWIND INTEGRATED= 7.347E-04 SEC/SQ.M  
 3.453E-03 1/M

TEST U82 OCTOBER 2, 1968 0111 TO 0141 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 7000M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 56M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
 DEGREES GM-SEC/CM SEC/CM 1/SQ.M METERS  
 X10E+6

8 116.0	18	6.437E-09	2.961E-08	7220
5 118.0	42	1.481E-08	6.812E-08	7190
4 120.0	52	1.807E-08	8.313E-08	7150
4 122.0	130	4.514E-08	2.077E-07	7120
9 124.0	167	5.819E-08	2.677E-07	7100
6 126.0	383	1.337E-07	6.128E-07	7100
0 128.0	411	1.430E-07	6.578E-07	7100
5 130.0	866	3.009E-07	1.384E-06	7130
8 132.0	748	2.594E-07	1.195E-06	7150
5 134.0	1774	6.160E-07	2.833E-06	7200
9 136.0	767	2.666E-07	1.226E-06	7250
8 138.0	308	1.071E-07	4.928E-07	7300
8 140.0	261	9.081E-08	4.177E-07	7350
5 142.0	117	4.080E-08	1.877E-07	7250
7 144.0	92	3.210E-08	1.476E-07	7110
4 146.0	47	1.644E-08	7.562E-08	7100
E 148.0	17	6.007E-09	2.761E-08	7000

CROSSWIND INTEGRATED= 5.404E-04 SEC/SQ.M  
 2.486E-03 1/M

TEST U82 OCTOBER 2, 1968 0111 TO 0141 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 12800M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 56M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
 DEGREES GM-SEC/CM SEC/CM 1/SQ.M METERS  
 X10E+6

8 124.0	5	2.066E-09	9.503E-09	12800
7 125.0	12	4.240E-09	1.951E-08	12800
9 126.0	43	1.510E-08	6.947E-08	12800
9 127.0	118	4.113E-08	1.892E-07	12800
5 128.0	261	9.069E-08	4.171E-07	12800
5 129.0	451	1.569E-07	7.217E-07	12800
5 130.0	550	1.911E-07	8.793E-07	12800
4 131.0	649	2.254E-07	1.037E-06	12800
E 132.0	787	2.733E-07	1.257E-06	12800
4 133.0	885	3.076E-07	1.415E-06	12800
E 134.0	853	2.962E-07	1.362E-06	12800
4 135.0	767	2.665E-07	1.226E-06	12800
8 136.0	511	1.774E-07	8.163E-07	12800
6 137.0	418	1.455E-07	6.692E-07	12800
7 138.0	372	1.295E-07	5.957E-07	12800
3 139.0	438	1.523E-07	7.007E-07	12800
3 140.0	392	1.363E-07	6.272E-07	12800
F 141.0	234	8.155E-08	3.751E-07	12800
3 142.0	140	4.867E-08	2.239E-07	12800
3 143.0	108	3.771E-08	1.735E-07	12800
5 144.0	114	3.476E-08	1.829E-07	12800
3 145.0	80	2.617E-08	1.293E-07	12800
3 146.0	36	1.277E-08	5.852E-08	12800
4 147.0	13	4.784E-09	2.201E-08	12800
148.0	70	2.436E-08	1.120E-07	12800
149.0	23	8.155E-09	3.751E-08	12800

CROSSWIND INTEGRATED= 6.472E-04 SEC/SQ.M  
 2.977E-03 1/M

SAMPLING 400M TO 700M. NO TOWER SAMPLING. ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER. CENTERLINES OF FLUORESCIN AND ZINC SULFIDE PLUMES AT SIGNIFICANTLY DIFFERENT DIRECTIONS. THERMALLY VERY STABLE ATMOSPHERE. LARGE DIRECTION SHEAR WITH HEIGHT.

TEST U83 OCTOBER 3, 1968 0112 TO 0142 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
400M ARC SAMPLER HT 1.5M U= 5.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
102.0	0	0.	0.	400
106.0	527	1.798E-07	9.351E-07	400
110.0	7026	2.397E-06	1.247E-05	400
114.0	14767	5.038E-06	2.620E-05	400
118.0	496	1.695E-07	8.813E-07	400
122.0	0	0.	0.	400

CROSSWIND INTEGRATED= 2.174E-04 SEC/SQ.M 1.130E-03 1/M

TEST U83 OCTOBER 3, 1968 0112 TO 0142 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
800M ARC SAMPLER HT 1.5M U= 5.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
99.1	8	2.964E-09	1.544E-08	809
101.1	30	1.039E-08	5.403E-08	813
103.0	474	1.618E-07	8.413E-07	816
105.0	2675	9.128E-07	4.747E-06	820
106.9	5041	1.720E-06	8.945E-06	823
108.8	12393	4.229E-06	2.199E-05	826
110.7	15043	5.137E-06	2.669E-05	829
112.6	16530	5.649E-06	2.933E-05	833
114.5	20028	6.833E-06	3.553E-05	836
116.4	10645	3.632E-06	1.889E-05	839
118.3	1017	3.473E-07	1.806E-06	842
120.2	8	2.988E-09	1.544E-08	845

CROSSWIND INTEGRATED= 7.903E-04 SEC/SQ.M 4.109E-03 1/M

TEST U83 OCTOBER 3, 1968 0112 TO 0142 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
1200M ARC SAMPLER HT 1.5M U= 5.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	0	0.	0.	1200
100.0	59	2.034E-08	1.057E-07	1200
102.0	120	4.122E-08	2.143E-07	1200
104.0	612	2.088E-07	1.086E-06	1200
106.0	4204	1.434E-06	7.459E-06	1200
108.0	10992	3.750E-06	1.950E-05	1200
110.0	18280	6.237E-06	3.243E-05	1200
112.0	19738	6.735E-06	3.502E-05	1200
114.0	18100	6.176E-06	3.211E-05	1200
116.0	4735	1.616E-06	8.401E-06	1200
118.0	780	2.663E-07	1.385E-06	1200
120.0	1	5.496E-10	2.858E-09	1200
122.0	0	0.	0.	1200

CROSSWIND INTEGRATED= 1.109E-03 SEC/SQ.M 5.769E-03 1/M

TEST U83 OCTOBER 3, 1968 0112 TO 0142 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
400M ARC SAMPLER HT 1.5M U= 6.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	0	1.801E-10	1.189E-09	400
102.0	5	1.910E-09	1.260E-08	400
106.0	1	4.323E-10	2.853E-09	400
110.0	86	2.882E-08	1.902E-07	400
114.0	83	2.774E-08	1.831E-07	400
118.0	4	1.477E-09	9.749E-09	400
122.0	0	0.	0.	400

CROSSWIND INTEGRATED= 1.691E-06 SEC/SQ.M 1.116E-05 1/M

TEST U83 OCTOBER 3, 1968 0112 TO 0142 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
800M ARC SAMPLER HT 1.5M U= 6.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
97.1	2	7.163E-10	4.728E-09	806
99.1	0	0.	0.	809
101.1	0	1.433E-10	9.456E-10	813
103.0	2	8.238E-10	5.437E-09	816
105.0	2	8.238E-10	5.437E-09	820
106.9	7	2.388E-09	1.576E-08	823
108.8	4	1.433E-09	9.456E-09	826
110.7	0	2.507E-10	1.655E-09	829
112.6	14	4.776E-09	3.152E-08	833
114.5	5	1.671E-09	1.103E-08	836
116.4	6989	2.330E-06	1.538E-05	839
118.3	0	1.791E-10	1.182E-09	842
120.2	6764	2.255E-06	1.498E-05	845
122.1	1642	5.474E-07	3.613E-06	848
124.0	0	0.	0.	851
125.8	13	4.417E-09	2.916E-08	854
127.7	0	0.	0.	857

CROSSWIND INTEGRATED= 1.439E-04 SEC/SQ.M 9.496E-04 1/M

TEST U83 OCTOBER 3, 1968 0112 TO 0142 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
1200M ARC SAMPLER HT 1.5M U= 6.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
104.0	1	6.631E-10	4.377E-09	1200
106.0	3	1.266E-09	8.356E-09	1200
108.0	4	1.507E-09	9.947E-09	1200
110.0	2	9.043E-10	5.968E-09	1200
112.0	9	3.255E-09	2.149E-08	1200
114.0	1326	4.427E-07	2.919E-06	1200
116.0	2541	8.473E-07	5.092E-06	1200
118.0	1288	4.295E-07	2.835E-06	1200
120.0	1668	5.561E-07	3.671E-06	1200
122.0	1098	3.662E-07	2.417E-06	1200
124.0	15	5.299E-09	3.497E-08	1200
126.0	339	1.130E-07	7.460E-07	1200
128.0	9	3.075E-09	2.029E-08	1200
130.0	64	2.140E-08	1.413E-07	1200
132.0	6	2.291E-09	1.512E-08	1200
134.0	36	1.216E-08	8.024E-08	1200
136.0	51	1.718E-08	1.134E-07	1200
138.0	3	1.326E-09	8.754E-09	1200
140.0	2	8.440E-10	5.570E-09	1200

CROSSWIND INTEGRATED= 1.184E-04 SEC/SQ.M 7.812E-04 1/M

TEST U03 OCTOBER 3, 1968 0112 TO 0142 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 1600M ARC SAMPLER HT 1.5M U= 5.2 M/SEC AT 26M

AZIMUTH EXPOSURE E/W EU/C DISTANCE  
 DEGREES GM-SEC/CM SEC/CM 1/SQ.M METERS  
 X10E+6

99.6	6	2.051E-09	1.066E-08	1613
100.6	30	1.025E-08	5.332E-08	1615
101.6	132	4.512E-08	2.346E-07	1617
102.6	258	8.819E-08	4.586E-07	1618
103.6	760	2.594E-07	1.349E-06	1620
104.5	399	1.364E-07	7.092E-07	1622
105.5	2287	7.803E-07	4.058E-06	1623
106.5	3483	1.188E-06	6.180E-06	1625
107.5	6188	2.111E-06	1.098E-05	1627
108.5	17846	6.089E-06	3.166E-05	1628
109.5	13125	4.478E-06	2.329E-05	1630
110.4	34833	1.188E-05	6.180E-05	1632
111.4	30641	1.045E-05	5.438E-05	1633
112.4	24422	8.333E-06	4.333E-05	1635
113.4	24302	8.292E-06	4.312E-05	1637
114.4	14997	5.117E-06	2.661E-05	1638
115.3	12572	4.289E-06	2.230E-05	1640
116.3	5145	1.756E-06	9.129E-06	1641
117.3	1292	4.409E-07	2.293E-06	1643
118.2	736	2.512E-07	1.306E-06	1644
119.2	553	1.847E-07	9.811E-07	1646
120.2	0	0.	0.	1647

CROSSWIND INTEGRATED= 1.849E-03 9.615E-03  
 SEC/SQ.M 1/M

TEST U03 OCTOBER 3, 1968 0112 TO 0142 PST  
 FLUORESCCEIN RELEASE FROM ELEVATION OF 56M  
 1600M ARC SAMPLER HT 1.5M U= 6.6 M/SEC AT 56M

AZIMUTH EXPOSURE E/W EU/C DISTANCE  
 DEGREES GM-SEC/CM SEC/CM 1/SQ.M METERS  
 X10E+6

112.4	0	0.	0.	1635
113.4	485	1.618E-07	1.068E-06	1637
114.4	5792	1.931E-06	1.274E-05	1638
115.3	4453	1.465E-06	9.796E-06	1640
116.3	6685	2.229E-06	1.471E-05	1641
117.3	286	9.566E-08	6.314E-07	1643
118.2	3036	1.012E-06	6.680E-06	1644
119.2	3178	1.059E-06	6.992E-06	1646
120.2	209	6.958E-08	4.599E-07	1647
121.2	886	2.957E-07	1.951E-06	1649
122.1	9066	3.022E-06	1.995E-05	1650
123.1	2469	8.232E-07	5.433E-06	1652
124.1	957	3.193E-07	2.107E-06	1653
125.0	13	4.488E-09	2.962E-08	1655
126.0	3	1.181E-09	7.795E-09	1656
126.9	6	2.126E-09	1.403E-08	1658
127.8	11	3.774E-09	2.494E-08	1659
128.8	0	0.	0.	1660
129.7	0	0.	0.	1662
130.6	23	7.795E-09	5.145E-08	1663
131.5	0	0.	0.	1664
132.5	9	3.071E-09	2.027E-08	1665
133.5	0	0.	0.	1667

CROSSWIND INTEGRATED= 3.478E-04 2.295E-03  
 SEC/SQ.M 1/M

TEST U03 OCTOBER 3, 1968 0112 TO 0142 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 2200M ARC SAMPLER HT 1.5M U= 5.2 M/SEC AT 26M

AZIMUTH EXPOSURE E/W EU/C DISTANCE  
 DEGREES GM-SEC/CM SEC/CM 1/SQ.M METERS  
 X10E+6

6 100.0	0	2.855E-10	1.484E-09	2200
102.0	46	1.584E-08	8.239E-08	2200
104.0	668	2.792E-07	1.187E-06	2200
E 106.0	1150	3.924E-07	2.040E-06	2200
108.0	1617	5.520E-07	2.870E-06	2200
110.0	3916	1.336E-06	6.948E-06	2200
112.0	3216	1.098E-06	5.707E-06	2200
114.0	1736	5.924E-07	3.080E-06	2200
116.0	267	9.121E-08	4.743E-07	2200
118.0	12	4.139E-09	2.153E-08	2200
120.0	0	0.	0.	2200

CROSSWIND INTEGRATED= 3.310E-04 1.721E-03  
 SEC/SQ.M 1/M

TEST U03 OCTOBER 3, 1968 0112 TO 0142 PST  
 FLUORESCCEIN RELEASE FROM ELEVATION OF 56M  
 2200M ARC SAMPLER HT 1.5M U= 6.6 M/SEC AT 56M

AZIMUTH EXPOSURE E/W EU/C DISTANCE  
 DEGREES GM-SEC/CM SEC/CM 1/SQ.M METERS  
 X10E+6

104.0	0	4.175E-11	2.750E-10	2200
106.0	0	1.983E-10	1.309E-09	2200
108.0	1	4.071E-10	2.687E-09	2200
110.0	1	3.445E-10	2.275E-09	2200
112.0	6	2.161E-09	1.426E-08	2200
114.0	906	3.020E-07	1.995E-06	2200
116.0	1419	4.730E-07	3.122E-06	2200
118.0	2845	9.484E-07	6.259E-06	2200
120.0	3319	1.106E-06	7.303E-06	2200
122.0	1320	4.401E-07	2.905E-06	2200
124.0	51	1.729E-08	1.141E-07	2200
126.0	51	1.729E-08	1.141E-07	2200
128.0	1	4.384E-10	2.893E-09	2200
130.0	7	2.662E-09	1.757E-08	2200
132.0	0	0.	0.	2200

CROSSWIND INTEGRATED= 2.543E-04 1.678E-03  
 SEC/SQ.M 1/M

TEST U83 OCTOBER 3, 1968 0112 TO 0142 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 3200M ARC SAMPLER HT. 1.5M U= 5.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
100.8	0	0.	0.	3217
101.8	29	1.023E-08	5.317E-08	3218
102.8	38	1.315E-08	6.836E-08	3220
103.8	274	9.349E-08	4.861E-07	3222
104.8	526	1.797E-07	9.343E-07	3224
105.8	453	1.548E-07	8.052E-07	3225
106.8	870	2.970E-07	1.545E-06	3227
107.8	1143	3.900E-07	2.028E-06	3229
W 108.8	9612	3.279E-06	1.705E-05	3230
W 109.7	10818	3.691E-06	1.919E-05	3232
W 110.7	9697	3.309E-06	1.721E-05	3233
W 111.7	3769	1.266E-06	6.687E-06	3235
112.7	4322	1.475E-06	7.669E-06	3237
113.7	5112	1.744E-06	9.070E-06	3238
114.6	5755	1.964E-06	1.021E-05	3240
115.6	5270	1.798E-06	9.351E-06	3241
116.6	518	1.768E-07	9.191E-07	3243
4 117.6	25	8.765E-09	4.558E-08	3245
4 118.6	2	9.739E-10	5.064E-09	3246

CROSSWIND INTEGRATED= 1.092E-03 SEC/SQ.M  
 5.676E-03 1/M

TEST U83 OCTOBER 3, 1968 0112 TO 0142 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 5000M ARC SAMPLER HT 1.5M U= 5.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	0	0.	0.	4660
100.0	6	2.141E-09	1.113E-08	4690
102.0	2	7.137E-10	3.711E-09	4710
104.0	18	6.281E-09	3.266E-08	4770
106.0	161	5.510E-08	2.865E-07	4810
108.0	165	5.638E-08	2.932E-07	4870
110.0	1458	4.974E-07	2.587E-06	4920
112.0	1783	6.085E-07	3.164E-06	4990
114.0	1440	4.915E-07	2.556E-06	5080
116.0	1210	4.131E-07	2.148E-06	5020
118.0	230	7.879E-08	4.097E-07	5100
E 120.0	120	4.097E-08	2.130E-07	5130
122.0	0	0.	0.	4830

CROSSWIND INTEGRATED= 3.927E-04 SEC/SQ.M  
 2.042E-03 1/M

TEST U83 OCTOBER 3, 1968 0112 TO 0142 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 3200M ARC SAMPLER HT 1.5M U= 6.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
104.8	0	5.341E-11	3.525E-10	3224
105.8	1	3.561E-10	2.350E-09	3225
106.8	1	6.409E-10	4.230E-09	3227
107.8	2	9.258E-10	6.110E-09	3229
108.8	2	9.614E-10	6.345E-09	3230
109.7	0	0.	0.	3232
110.7	216	7.211E-06	4.759E-07	3233
111.7	58	1.941E-08	1.281E-07	3235
112.7	84	2.831E-08	1.868E-07	3237
113.7	404	1.348E-07	8.895E-07	3238
114.6	468	1.561E-07	1.031E-06	3240
115.6	1474	4.930E-07	3.254E-06	3241
116.6	805	2.687E-07	1.773E-06	3243
4 117.6	281	9.368E-08	6.183E-07	3245
4 118.6	805	2.647E-07	1.773E-06	3246
4 119.5	1456	4.855E-07	3.204E-06	3248
120.5	2084	6.949E-07	4.586E-06	3249
121.5	2959	9.865E-07	6.511E-06	3251
122.4	4236	1.413E-06	9.324E-06	3252
123.4	963	3.210E-07	2.119E-06	3253
124.4	429	1.430E-07	9.440E-07	3255
125.4	435	1.453E-07	9.583E-07	3256
126.3	0	2.030E-10	1.343E-09	3258
127.3	0	1.496E-10	9.870E-10	3259
128.3	0	0.	0.	3261

CROSSWIND INTEGRATED= 3.145E-04 SEC/SQ.M  
 2.076E-03 1/M

TEST U83 OCTOBER 3, 1968 0112 TO 0142 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 5000M ARC SAMPLER HT 1.5M U= 6.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
108.0	0	0.	0.	4870
110.0	0	1.148E-10	7.578E-10	4920
112.0	41	1.388E-08	9.163E-08	4990
114.0	182	6.085E-08	4.016E-07	5080
116.0	314	1.047E-07	6.910E-07	5020
118.0	1438	4.795E-07	3.165E-06	5100
E 120.0	2300	7.667E-07	5.060E-06	5130
122.0	3509	1.170E-06	7.720E-06	4830
124.0	360	1.200E-07	7.923E-07	4660
126.0	69	2.315E-08	1.523E-07	4770
0 128.0	45	1.526E-08	1.007E-07	4900
0 130.0	1	3.862E-10	2.549E-09	4970
0 132.0	1	4.175E-10	2.756E-09	4980
9 134.0	0	1.983E-10	1.309E-09	4990

CROSSWIND INTEGRATED= 4.776E-04 SEC/SQ.M  
 3.152E-03 1/M

TEST U83      OCTOBER 3, 1968      0112 TO 0142 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 7000M ARC      SAMPLER HT 1.5M      U= 5.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
102.0	0	0.	0.	6610
4 104.0	1	5.710E-10	2.969E-09	6650
4 106.0	15	5.139E-09	2.672E-08	6720
5 108.0	17	6.138E-09	3.192E-08	6800
7 110.0	399	1.362E-07	7.081E-07	7000
E 112.0	1980	6.756E-07	3.513E-06	7300
4 114.0	3629	1.238E-06	6.440E-06	7210
5 116.0	5265	1.797E-06	9.342E-06	7220
5 118.0	4643	1.584E-06	8.238E-06	7190
5 120.0	1092	3.727E-07	1.938E-06	7150
6 122.0	20	6.851E-09	3.563E-08	7120
124.0	0	0.	0.	7100

CROSSWIND INTEGRATED= 1.465E-03      7.618E-03  
 SEC/SQ.M      1/M

TEST U83      OCTOBER 3, 1968      0112 TO 0142 PST  
 FLUORESCCEIN RELEASE FROM ELEVATION OF 56M  
 7000M ARC      SAMPLER HT 1.5M      U= 6.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
4 106.0	0	1.983E-10	1.309E-09	6720
5 108.0	0	9.394E-11	6.200E-10	6800
7 110.0	0	2.296E-10	1.516E-09	7000
8 112.0	2	7.307E-10	4.822E-09	7300
4 114.0	21	7.307E-09	4.822E-08	7210
5 116.0	146	4.874E-08	3.217E-07	7220
5 118.0	590	1.967E-07	1.298E-06	7190
5 120.0	2760	9.201E-07	6.072E-06	7150
6 122.0	4837	1.612E-06	1.064E-05	7120
9 124.0	366	1.222E-07	8.063E-07	7100
0 126.0	17	5.991E-09	3.954E-08	7100
9 128.0	34	1.163E-08	7.675E-08	7100
3 130.0	25	8.497E-09	5.608E-08	7130
8 132.0	0	0.	0.	7150
7 134.0	1	3.549E-10	2.342E-09	7200

CROSSWIND INTEGRATED= 7.310E-04      4.825E-03  
 SEC/SQ.M      1/M

SAMPLING 400M TO 12800M; NO TOWER SAMPLING. ONLY ZNS TRACER WAS DISPERSED. NO TRACER OBSERVED ON 400M OR 600M ARCS. WITH THE EXCEPTION OF THE 12800M ARC. ALL ARCS EXPOSED TO TRACER EMBRACED THE ENTIRE CROSSWIND DISTRIBUTION.

TEST U84 AUGUST 27, 1969 0140 TO 0210 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
400M ARC SAMPLER HT 1.5M U= 7.1 M/SEC AT111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
N 79.0	0	0.	0.	400
CROSSWIND INTEGRATED=		0.	0.	
		SEC/SQ.M	1/M	

TEST U84 AUGUST 27, 1969 0140 TO 0210 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
800M ARC SAMPLER HT 1.5M U= 7.1 M/SEC AT111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
N 77.0	0	0.	0.	771
CROSSWIND INTEGRATED=		0.	0.	
		SEC/SQ.M	1/M	

TEST U84 AUGUST 27, 1969 0140 TO 0210 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
1600M ARC SAMPLER HT 1.5M U= 7.1 M/SEC AT111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
110.4	0	0.	0.	1632
112.4	15	4.245E-09	3.014E-08	1635
113.4	54	1.528E-08	1.085E-07	1637
114.4	682	1.927E-07	1.368E-06	1638
115.3	1701	4.805E-07	3.412E-06	1640
116.3	571	1.613E-07	1.145E-06	1641
117.3	775	2.190E-07	1.555E-06	1643
118.2	1100	3.107E-07	2.206E-06	1644
119.2	69	1.953E-08	1.396E-07	1646
120.2	0	0.	0.	1647
CROSSWIND INTEGRATED=		3.854E-05	2.736E-04	
		SEC/SQ.M	1/M	

TEST U84 AUGUST 27, 1969 0140 TO 0210 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
3200M ARC SAMPLER HT 1.5M U= 7.1 M/SEC AT111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
101.8	0	0.	0.	3218
102.8	0	0.	0.	3220
103.8	22	6.451E-09	4.580E-08	3222
104.8	12	3.628E-09	2.576E-08	3224
105.6	42	1.209E-08	8.587E-08	3225
106.5	19	5.644E-09	4.007E-08	3227
107.8	85	2.419E-08	1.717E-07	3229
X 108.8	0	0.	0.	3230
X 109.7	62	1.774E-08	1.259E-07	3232
X 110.7	34	9.676E-09	6.870E-08	3233
H 111.7	284	8.023E-08	5.696E-07	3235
H 112.7	733	2.054E-07	1.466E-06	3237
H 113.7	2390	6.753E-07	4.775E-06	3238
H 114.6	1642	4.640E-07	3.275E-06	3240
H 115.6	2155	6.088E-07	4.327E-06	3241
C 116.6	185	5.241E-08	3.721E-07	3243
C 117.6	28	8.063E-09	5.725E-08	3245
C 118.6	55	1.572E-08	1.116E-07	3246
C 119.5	239	6.773E-08	4.809E-07	3248
C 120.5	0	0.	0.	3249
121.5	0	0.	0.	3251
122.4	91	2.500E-08	1.832E-07	3252
123.4	0	0.	0.	3253
CROSSWIND INTEGRATED=		1.255E-04	8.914E-04	
		SEC/SQ.M	1/M	

TEST U84 AUGUST 27, 1969 0140 TO 0210 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
 12800M ARC SAMPLER HT 1.5M U= 7.1 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
109.0	0	0.	0.	12800
110.0	3	1.064E-09	7.552E-09	12800
9 111.0	3	0.	0.	12800
112.0	5	1.416E-09	1.007E-08	12800
9 113.0	0	0.	0.	12800
5 114.0	0	0.	0.	12800
9 115.0	0	0.	0.	12800
116.0	0	0.	0.	12800
117.0	0	0.	0.	12800
6 118.0	0	0.	0.	12800
119.0	0	0.	0.	12800
120.0	2	8.273E-10	5.874E-09	12800
9 121.0	0	0.	0.	12800
123.0	11	3.191E-09	2.266E-08	12800
E 124.0	12	3.545E-09	2.517E-08	12800
7 125.0	110	3.108E-08	2.207E-07	12800
126.0	45	1.276E-08	9.062E-08	12800
127.0	175	4.952E-08	3.516E-07	12800
128.0	581	1.642E-07	1.166E-06	12800
129.0	426	1.204E-07	8.550E-07	12800
130.0	156	4.420E-08	3.138E-07	12800
131.0	2667	7.534E-07	5.349E-06	12800
132.0	5664	1.606E-06	1.140E-05	12800
133.0	1396	3.944E-07	2.800E-06	12800
134.0	576	1.623E-07	1.156E-06	12800
135.0	210	5.945E-08	4.221E-07	12800
136.0	129	3.652E-08	2.593E-07	12800
137.0	299	8.474E-08	6.016E-07	12800
E 138.0	249	7.056E-08	5.039E-07	12800
E 139.0	194	5.507E-08	3.910E-07	12800
7 140.0	168	4.751E-08	3.373E-07	12800
141.0	324	9.159E-08	6.533E-07	12800
6 142.0	125	3.557E-08	2.526E-07	12800
143.0	266	7.528E-08	5.345E-07	12800
E 144.0	216	6.122E-08	4.347E-07	12800
E 145.0	150	4.255E-08	3.021E-07	12800
146.0	122	3.463E-08	2.459E-07	12800
E 147.0	116	3.297E-08	2.341E-07	12800
148.0	127	3.593E-08	2.551E-07	12800
7 149.0	44	1.253E-08	8.874E-08	12800
150.0	239	6.760E-08	4.800E-07	12800
6 151.0	305	8.639E-08	6.134E-07	12800
CROSSWIND INTEGRATED=		9.563E-04	6.789E-03	
		SEC/SQ.M	1/M	

TEST U84      AUGUST 27, 1969      0140 TO 0210 PST  
 ZINC SULFIDE RELEASE FROM ELFVATION DF. 111M  
 5000M ARC    SAMPLER HT 1.5M    U= 7.1 M/SEC AT111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	L/D SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
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W 104.0	0	0.	0.	4770
W 106.0	15	4.491E-09	3.189E-08	4810
108.0	28	8.155E-09	5.790E-08	4970
C 110.0	144	4.089E-08	2.903E-07	4920
E 112.0	260	7.363E-08	5.228E-07	4990
C 114.0	355	1.003E-07	7.124E-07	5080
116.0	47	1.335E-08	9.482E-08	5020
118.0	120	3.392E-08	2.408E-07	5100
120.0	67	1.903E-08	1.351E-07	5130
E 122.0	89	2.517E-08	1.787E-07	4830
124.0	133	3.770E-08	2.677E-07	4660
126.0	46	1.312E-08	9.314E-08	4770
128.0	0	0.	0.	4700

CROSSWIND INTEGRATED= 6.413E-05    4.553E-04  
 SEC/SQ.M                            1/M

TEST U84      AUGUST 27, 1969      0140 TO 0210 PST  
 ZINC SULFIDE RELEASE FROM ELFVATION DF. 111M  
 7000M ARC    SAMPLER HT 1.5M    U= 7.1 M/SEC AT111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	L/D SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
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S 98.0	0	0.	0.	6520
100.0	10	2.955E-09	2.098E-08	6560
E 102.0	9	2.600E-09	1.846E-08	6610
104.0	8	2.364E-09	1.678E-08	6650
106.0	0	0.	0.	6720
108.0	9	2.600E-09	1.846E-08	6800
110.0	1	4.727E-10	3.356E-09	7000
E 112.0	10	2.836E-09	2.014E-08	7300
114.0	17	5.082E-09	3.608E-08	7210
116.0	98	2.789E-08	1.980E-07	7220
118.0	40	1.135E-08	8.055E-08	7190
120.0	509	1.439E-07	1.022E-06	7150
P 122.0	58	1.655E-08	1.175E-07	7120
P 124.0	12	3.427E-09	2.433E-08	7100
126.0	0	0.	0.	7100
O 128.0	21	6.027E-09	4.279E-08	7100
6 130.0	0	0.	0.	7130
P 132.0	0	2.364E-10	1.678E-09	7150
134.0	4	1.182E-09	8.391E-09	7200
O 136.0	0	0.	0.	7250

CROSSWIND INTEGRATED= 5.717E-05    4.059E-04  
 SEC/SQ.M                            1/M



SAMPLING 400M TO 1200M; NO TOWER SAMPLING.  
 ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER DISTRIBUTIONS. NO ZNS TRACER OBSERVED ON 400M ARC.  
 SPORADIC FLUORESCENCE DISPERSAL DURING FIRST 10 MIN OF TEST; OK DURING LAST 20 MIN.

TEST U85 AUGUST 28, 1969 0154 TU 0224 PST  
 FLUORESCENCE RELEASE FROM ELEVATION OF 56M  
 400M ARC SAMPLER HT 1.5M U= 8.2 M/SEC AT 56M

TEST U85 AUGUST 28, 1969 0154 TU 0224 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
 400M ARC SAMPLER HT 1.5M U= 9.7 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>3</sup> X10E+6	E/Q SEC/CM <sup>3</sup>	EU/Q 1/SQ.M	DISTANCE METERS
N 78.0	0	0.	U.	400
CROSSWIND INTEGRATED= 0. SEC/SQ.M 1/M				

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>3</sup> X10E+6	E/Q SEC/CM <sup>3</sup>	EU/Q 1/SQ.M	DISTANCE METERS
86.0	0	0.	U.	400
90.0	0	0.	U.	400
94.0	16	4.396E-09	7.705E-08	400
98.0	77	4.391E-08	3.601E-07	400
102.0	2654	1.508E-06	1.237E-05	400
106.0	509	2.893E-07	2.372E-06	400
110.0	1042	5.923E-07	4.857E-06	400
114.0	815	4.634E-07	3.800E-06	400
118.0	225	1.280E-07	1.050E-06	400
122.0	29	1.689E-08	1.385E-07	400
126.0	0	0.	0.	400
130.0	0	0.	0.	400
CROSSWIND INTEGRATED= 8.520E-05 SEC/SQ.M 1/M				

TEST U85 AUGUST 28, 1969 0154 TU 0224 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
 800M ARC SAMPLER HT 1.5M U= 9.7 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>3</sup> X10E+6	E/Q SEC/CM <sup>3</sup>	EU/Q 1/SQ.M	DISTANCE METERS
X 99.1	0	0.	U.	809
X 101.1	106	2.995E-08	2.906E-07	813
X 103.0	67	1.897E-08	1.840E-07	816
X 105.0	265	7.488E-08	7.264E-07	820
X 106.9	236	6.690E-08	6.489E-07	823
108.8	84	2.396E-08	2.324E-07	826
110.7	233	6.590E-08	6.392E-07	829
112.6	151	4.293E-08	4.165E-07	833
114.5	35	9.985E-09	9.695E-08	836
116.4	28	7.988E-09	7.748E-08	839
118.3	14	3.994E-09	3.874E-08	842
120.2	0	0.	U.	845
CROSSWIND INTEGRATED= 9.536E-06 SEC/SQ.M 1/M				

TEST U85 AUGUST 28, 1969 0154 TU 0224 PST  
 FLUORESCENCE RELEASE FROM ELEVATION OF 56M  
 800M ARC SAMPLER HT 1.5M U= 8.2 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>3</sup> X10E+6	E/Q SEC/CM <sup>3</sup>	EU/Q 1/SQ.M	DISTANCE METERS
B 97.1	15	8.710E-09	7.142E-08	806
99.1	243	1.383E-07	1.134E-06	809
101.1	458	2.604E-07	2.136E-06	813
103.0	608	3.459E-07	2.837E-06	816
105.0	576	3.276E-07	2.686E-06	820
106.9	36	2.051E-08	1.682E-07	823
108.8	4885	2.776E-06	2.276E-05	826
110.7	4358	2.477E-06	2.031E-05	829
112.6	4283	2.434E-06	1.996E-05	833
114.5	2553	1.451E-06	1.190E-05	836
116.4	963	5.474E-07	4.489E-06	839
118.3	426	2.421E-07	1.985E-06	842
120.2	24	1.380E-08	1.131E-07	845
122.1	107	6.101E-08	5.003E-07	848
124.0	0	0.	0.	851
CROSSWIND INTEGRATED= 3.063E-04 SEC/SQ.M 1/M				

TEST U05 AUGUST 28, 1969 0154 TO 0224 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
 1600M ARC SAMPLER HT 1.5M U= 9.7 M/SEC AT111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/O SEC/CM	EU/O 1/SQ.M	DISTANCE METERS
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96.6	0	0.	0.	1508
97.6	0	0.	0.	1510
98.6	136	3.854E-06	3.739E-07	1611
99.6	414	1.171E-07	1.136E-06	1613
100.6	2341	6.613E-07	6.415E-06	1615
101.6	1591	4.497E-07	4.362E-06	1517
102.6	1099	3.106E-07	3.013E-06	1618
103.6	1672	4.724E-07	4.582E-06	1620
104.5	1605	4.535E-07	4.399E-06	1522
105.5	1642	4.646E-07	4.501E-06	1623
106.5	3670	1.037E-06	1.006E-05	1625
107.5	1937	5.472E-07	5.308E-06	1527
108.5	1912	5.404E-07	5.242E-06	1628
109.5	1731	4.893E-07	4.743E-06	1630
110.4	765	2.162E-07	2.097E-06	1532
111.4	1145	3.235E-07	3.138E-06	1633
112.4	1094	3.091E-07	2.998E-06	1635
113.4	671	1.897E-07	1.840E-06	1537
114.4	1169	3.303E-07	3.204E-06	1638
115.3	349	2.683E-07	2.603E-06	1640
116.3	767	2.169E-07	2.104E-06	1541
117.3	1241	3.507E-07	3.402E-06	1643
118.2	48	1.360E-06	1.320E-07	1644
119.2	0	0.	0.	1546

CROSSWIND INTEGRATED= 2.177E-04 SEC/SQ.M  
 2.112E-03 1/M

TEST U05 AUGUST 28, 1969 0154 TO 0224 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 1600M ARC SAMPLER HT 1.5M U= 8.2 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/O SEC/CM	EU/O 1/SQ.M	DISTANCE METERS
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94.6	14	8.455E-09	6.933E-08	1604
95.6	315	1.792E-07	1.469E-06	1606
96.6	149	8.522E-08	6.988E-07	1608
97.6	1649	9.374E-07	7.687E-06	1610
98.6	1930	1.097E-06	8.997E-06	1611
99.6	5353	3.042E-06	2.494E-05	1613
100.6	2526	1.435E-06	1.177E-05	1615
101.6	6246	3.549E-06	2.910E-05	1617
102.6	8478	4.817E-06	3.950E-05	1618
103.6	7734	4.395E-06	3.604E-05	1620
104.5	5800	3.295E-06	2.702E-05	1622
105.5	4758	2.704E-06	2.217E-05	1623
106.5	7883	4.479E-06	3.673E-05	1625
107.5	5056	2.873E-06	2.356E-05	1627
108.5	4907	2.768E-06	2.246E-05	1628
109.5	6544	3.718E-06	3.049E-05	1630
110.4	3716	2.112E-06	1.732E-05	1632
111.4	7139	4.056E-06	3.326E-05	1633
112.4	2476	1.407E-06	1.154E-05	1635
113.4	2526	1.435E-06	1.177E-05	1637
114.4	2923	1.661E-06	1.362E-05	1638
115.3	2675	1.520E-06	1.246E-05	1640
116.3	1286	7.308E-07	5.992E-06	1641
117.3	386	2.194E-07	1.799E-06	1643
118.2	286	1.631E-07	1.337E-06	1644
119.2	138	7.851E-08	6.438E-07	1546
120.2	69	3.959E-08	3.247E-07	1647
121.2	0	0.	0.	1649

CROSSWIND INTEGRATED= 1.474E-03 SEC/SQ.M  
 1.209E-02 1/M

TEST U05 AUGUST 28, 1969 0154 TO 0224 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
 3200M ARC SAMPLER HT 1.5M U= 9.7 M/SEC AT111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/O SEC/CM	EU/O 1/SQ.M	DISTANCE METERS
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97.8	0	0.	0.	3212
98.8	33	9.599E-09	9.311E-08	3213
99.8	58	1.651E-08	1.602E-07	3215
100.8	330	9.330E-08	9.050E-07	3217
101.8	887	2.507E-07	2.432E-06	3218
102.8	1367	3.920E-07	3.803E-06	3220
103.8	1315	3.717E-07	3.605E-06	3222
104.8	1279	3.613E-07	3.505E-06	3224
105.8	2079	5.733E-07	5.561E-06	3225
106.8	2866	8.098E-07	7.855E-06	3227
107.8	2264	5.377E-07	5.205E-06	3229
Z 108.8	2048	5.786E-07	5.613E-06	3230
Z 109.7	2290	6.470E-07	6.270E-06	3232
Z 110.7	1995	5.637E-07	5.467E-06	3233
111.7	2223	6.292E-07	6.093E-06	3235
112.7	1868	5.279E-07	5.121E-06	3237
113.7	1588	4.489E-07	4.354E-06	3238
114.6	970	2.761E-07	2.659E-06	3240
115.6	150	4.262E-08	4.134E-07	3241
116.6	58	1.651E-08	1.602E-07	3243
117.6	2	7.679E-10	7.449E-09	3245
118.6	0	0.	0.	3246

CROSSWIND INTEGRATED= 4.029E-04 SEC/SQ.M  
 3.909E-03 1/M

TEST U05 AUGUST 28, 1969 0154 TO 0224 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 3200M ARC SAMPLER HT 1.5M U= 8.2 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/O SEC/CM	EU/O 1/SQ.M	DISTANCE METERS
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Z 96.8	5	3.217E-09	2.658E-08	3210
Z 97.8	0	0.	0.	3212
Z 98.8	45	2.588E-08	2.115E-07	3213
99.8	193	1.107E-07	9.033E-07	3215
100.8	1052	5.981E-07	4.905E-06	3217
101.8	1815	1.032E-06	8.458E-06	3218
102.8	2690	1.529E-06	1.253E-05	3220
103.8	2959	1.682E-06	1.379E-05	3222
104.8	3296	1.873E-06	1.536E-05	3224
105.8	2151	1.223E-06	1.003E-05	3225
106.8	2353	1.337E-06	1.097E-05	3227
107.8	2824	1.605E-06	1.316E-05	3229
Z 108.8	2824	1.605E-06	1.316E-05	3230
Z 109.7	2892	1.643E-06	1.348E-05	3232
Z 110.7	2959	1.682E-06	1.379E-05	3233
111.7	2555	1.452E-06	1.191E-05	3235
112.7	2488	1.414E-06	1.159E-05	3237
113.7	1501	8.531E-07	6.995E-06	3238
114.6	581	3.305E-07	2.710E-06	3240
115.6	213	1.211E-07	9.929E-07	3241
116.6	57	3.247E-08	2.663E-07	3243
117.6	0	3.642E-11	2.986E-10	3245
118.6	0	0.	0.	3246

CROSSWIND INTEGRATED= 1.123E-03 SEC/SQ.M  
 9.207E-03 1/M

TEST U85 AUGUST 28, 1969 0154 TO 0224 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
5000M ARC SAMPLER HT 1.5M U= 9.7 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
100.0	0	0.	0.	4690
102.0	0	2.364E-10	2.293E-09	4710
104.0	115	3.250E-08	3.153E-07	4770
W 106.0	1536	4.341E-07	4.211E-06	4810
E 108.0	2091	5.907E-07	5.730E-06	4870
110.0	1424	4.025E-07	3.905E-06	4920
112.0	527	1.491E-07	1.447E-06	4990
114.0	434	1.228E-07	1.191E-06	5080
116.0	261	7.375E-08	7.153E-07	5020
118.0	7	2.009E-09	1.949E-08	5100
120.0	0	0.	0.	5130

CROSSWIND INTEGRATED= 3.089E-04 SEC/SQ.M  
2.996E-03 1/M

TEST U85 AUGUST 28, 1969 0154 TO 0224 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
7000M ARC SAMPLER HT 1.5M U= 9.7 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
102.0	0	0.	0.	6510
U 104.0	0	2.364E-10	2.293E-09	6650
106.0	98	2.784E-08	2.705E-07	6720
108.0	106	3.073E-08	2.981E-07	6800
E 110.0	82	2.340E-08	2.270E-07	7000
112.0	57	1.619E-08	1.571E-07	7300
E 114.0	50	1.418E-08	1.376E-07	7210
E 116.0	43	1.217E-08	1.161E-07	7220
118.0	36	1.028E-08	9.973E-08	7190
120.0	0	0.	0.	7150
122.0	20	5.673E-09	5.503E-08	7120
U 124.0	0	2.364E-10	2.293E-09	7100
5 126.0	0	0.	0.	7100
128.0	0	0.	0.	7100

CROSSWIND INTEGRATED= 3.442E-05 SEC/SQ.M  
3.339E-04 1/M

TEST U85 AUGUST 28, 1969 0154 TO 0224 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
12800M ARC SAMPLER HT 1.5M U= 9.7 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
109.0	0	0.	0.	12900
110.0	19	5.555E-09	5.398E-08	12900
111.0	101	2.672E-08	2.786E-07	12800
112.0	220	6.216E-08	6.030E-07	12900
113.0	130	3.675E-08	3.565E-07	12800
7 114.0	112	3.179E-08	3.094E-07	12900
115.0	149	4.184E-08	4.058E-07	12900
116.0	252	7.138E-08	6.924E-07	12800
117.0	155	4.385E-08	4.253E-07	12800
W 118.0	111	3.155E-08	3.061E-07	12900
119.0	4	1.162E-09	1.146E-08	12800
120.0	2	8.273E-10	8.029E-09	12900
121.0	0	0.	0.	12900

CROSSWIND INTEGRATED= 7.944E-05 SEC/SQ.M  
7.706E-04 1/M

TEST U85 AUGUST 28, 1969 0154 TO 0224 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
5000M ARC SAMPLER HT 1.5M U= 8.2 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
96.0	0	0.	0.	4620
98.0	0	2.847E-10	2.334E-09	4660
100.0	2	1.228E-09	1.007E-08	4690
102.0	44	2.525E-08	2.070E-07	4710
104.0	168	9.586E-08	7.861E-07	4770
W 106.0	2103	1.195E-06	9.800E-06	4810
E 108.0	3313	1.883E-06	1.544E-05	4870
110.0	2300	1.307E-06	1.072E-05	4920
112.0	1478	8.401E-07	6.889E-06	4990
114.0	1360	7.729E-07	6.338E-06	5080
116.0	301	1.713E-07	1.405E-06	5020
118.0	27	1.548E-08	1.269E-07	5100
120.0	2	1.174E-09	9.629E-09	5130
122.0	0	7.117E-11	5.836E-10	4830

CROSSWIND INTEGRATED= 1.062E-03 SEC/SQ.M  
8.872E-03 1/M

TEST U85 AUGUST 28, 1969 0154 TO 0224 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
7000M ARC SAMPLER HT 1.5M U= 8.2 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
100.0	1	9.074E-10	7.441E-09	6560
102.0	0	0.	0.	6610
F 104.0	5	3.203E-09	2.626E-08	6650
106.0	255	1.452E-07	1.191E-06	6720
108.0	413	2.349E-07	1.926E-06	6800
E 110.0	590	3.357E-07	2.753E-06	7000
4 112.0	367	2.067E-07	1.711E-06	7300
E 114.0	301	1.713E-07	1.405E-06	7210
E 116.0	110	6.298E-08	5.165E-07	7220
118.0	60	3.421E-08	2.806E-07	7190
120.0	1	6.939E-10	5.690E-09	7150
122.0	1	6.761E-10	5.544E-09	7120
E 124.0	0	1.008E-10	8.754E-10	7100
5 126.0	2	1.601E-09	1.313E-08	7100
128.0	0	1.779E-10	1.459E-09	7100
130.0	0	1.423E-10	1.167E-09	7130

CROSSWIND INTEGRATED= 2.944E-04 SEC/SQ.M  
2.414E-03 1/M

TEST U85 AUGUST 28, 1969 0154 TO 0224 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
12800M ARC SAMPLER HT 1.5M U= 8.2 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
107.0	0	1.779E-11	1.459E-10	12800
7 108.0	8	4.804E-09	3.939E-08	12800
109.0	7	4.270E-09	3.502E-08	12800
110.0	39	2.242E-08	1.838E-07	12800
111.0	114	6.708E-08	5.500E-07	12800
112.0	492	2.797E-07	2.293E-06	12800
113.0	275	1.564E-07	1.282E-06	12800
7 114.0	518	2.946E-07	2.416E-06	12800
4 115.0	380	2.162E-07	1.773E-06	12800
116.0	367	2.087E-07	1.711E-06	12800
117.0	143	8.129E-08	6.666E-07	12800
W 118.0	86	4.928E-08	4.041E-07	12800
4 119.0	7	4.448E-09	3.647E-08	12800
120.0	3	2.135E-09	1.751E-08	12800
4 121.0	0	2.669E-10	2.188E-09	12800
122.0	0	2.847E-10	2.334E-09	12800
123.0	0	1.068E-10	8.754E-10	12800

CROSSWIND INTEGRATED= 3.110E-04 SEC/SQ.M  
2.550E-03 1/M

SAMPLING 400M TO 1200M: NO TOWER SAMPLING. POSSIBLE CONTAMINATION OF ZNS ON NORTH END OF 700M ARC.  
 ARCS GENERALLY ENBRACE CROSSWIND EXTENT OF TRACER. NO ZNS OBSERVED ON 400M OR 800M ARCS.  
 POSSIBLE FLUORESCIN CONTAMINATION ON 400 AND 800M ARCS.

TEST U86 AUGUST 29, 1969 0056 TO 0126 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
 400M ARC SAMPLER HT 1.5M U= 6.2 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	E/Q SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
N 78.0	0 0.	0.	0.	400
CROSSWIND INTEGRATED= 0. SEC/SQ.M 1/M				

TEST U86 AUGUST 29, 1969 0056 TO 0126 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 400M ARC SAMPLER HT 1.5M U= 4.9 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	E/Q SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
62.0	0 0.	0.	0.	400
66.0	29 1.395E-08	6.838E-08	0.	400
70.0	0 0.	0.	0.	400
74.0	2 1.218E-09	5.968E-09	0.	400
78.0	0 0.	0.	0.	400
1 82.0	6 3.197E-09	1.566E-08	0.	400
86.0	72 3.425E-08	1.676E-07	0.	400
90.0	0 0.	0.	0.	400
94.0	5157 2.421E-06	1.186E-05	0.	400
98.0	4476 2.102E-06	1.030E-05	0.	400
102.0	0 0.	0.	0.	400
106.0	0 0.	0.	0.	400
110.0	124 5.861E-08	2.872E-07	0.	400
4 114.0	166 7.840E-08	3.842E-07	0.	400
118.0	349 1.642E-07	8.044E-07	0.	400
122.0	36 1.700E-08	8.330E-08	0.	400
Z 126.0	17 8.373E-09	4.103E-08	0.	400
Z 130.0	0 0.	0.	0.	400
Z 134.0	0 0.	0.	0.	400
CROSSWIND INTEGRATED= 1.369E-04 SEC/SQ.M 1/M				

TEST U86 AUGUST 29, 1969 0056 TO 0126 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
 800M ARC SAMPLER HT 1.5M U= 6.2 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	E/Q SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
N 77.0	0 0.	0.	0.	771
CROSSWIND INTEGRATED= 0. SEC/SQ.M 1/M				

TEST U86 AUGUST 29, 1969 0056 TO 0126 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 800M ARC SAMPLER HT 1.5M U= 4.9 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	E/Q SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
85.2	0 0.	0.	0.	785
95.2	0 0.	0.	0.	802
97.1	8560 4.019E-06	1.969E-05	0.	806
99.1	5981 2.808E-06	1.376E-05	0.	809
101.1	5551 2.606E-06	1.277E-05	0.	813
103.0	673 3.161E-07	1.549E-06	0.	816
105.0	967 4.540E-07	2.225E-06	0.	820
106.9	128 6.054E-08	2.966E-07	0.	823
108.8	0 0.	0.	0.	826
110.7	0 0.	0.	0.	829
112.6	0 0.	0.	0.	833
114.5	383 1.799E-07	8.816E-07	0.	836
116.4	12 5.885E-09	2.884E-08	0.	839
118.3	0 0.	0.	0.	842
120.2	100 4.708E-08	2.307E-07	0.	845
122.1	0 0.	0.	0.	848
124.0	161 7.567E-08	3.708E-07	0.	851
125.8	0 0.	0.	0.	854
127.7	0 0.	0.	0.	857
129.5	0 0.	0.	0.	859
131.4	39 1.850E-08	9.064E-08	0.	862
133.2	0 0.	0.	0.	865
CROSSWIND INTEGRATED= 2.938E-04 SEC/SQ.M 1/M				

TEST U86 AUGUST 29, 1969 0056 TO 0126 PST  
 FLUORESCIN RELEASE FROM ELFVATION OF 56M  
 1600M ARC SAMPLER HT 1.5M U= 4.9 M/SEC AT 56M

AZIMUTH EXPOSURE E/O EU/O DISTANCE  
 DEGREES CM-SEC/CM SEC/CM 1/SQ.M METERS  
 X10E+6

AZIMUTH DEGREES	EXPOSURE CM-SEC/CM X10E+6	E/O SEC/CM	EU/O 1/SQ.M	DISTANCE METERS
75.5	0	0.	0.	1572
F 76.5	0	2.210E-10	1.087E-09	1573
E 77.5	1	7.763E-10	3.804E-09	1575
P 78.5	82	3.861E-08	1.902E-07	1577
79.5	49	2.329E-08	1.141E-07	1578
80.5	1	6.654E-10	3.260E-09	1580
81.5	283	1.331E-07	6.521E-07	1582
C 82.6	325	1.530E-07	7.499E-07	1584
83.6	389	1.830E-07	8.966E-07	1585
84.6	673	3.161E-07	1.549E-06	1587
85.6	507	2.344E-07	1.163E-06	1589
86.6	767	3.604E-07	1.766E-06	1590
87.6	862	4.048E-07	1.983E-06	1592
88.6	2940	1.381E-06	6.765E-06	1594
89.6	1899	8.916E-07	4.369E-06	1596
90.6	3684	1.730E-06	8.477E-06	1597
91.6	4280	2.009E-06	9.846E-06	1599
92.6	4726	2.219E-06	1.087E-05	1601
93.6	5619	2.636E-06	1.293E-05	1603
94.6	7405	3.477E-06	1.704E-05	1604
95.6	7702	3.616E-06	1.772E-05	1606
96.6	8744	4.105E-06	2.012E-05	1608
97.6	8000	3.756E-06	1.840E-05	1610
98.6	11869	5.572E-06	2.731E-05	1611
99.6	9190	4.315E-06	2.114E-05	1613
100.6	5321	2.498E-06	1.224E-05	1615
101.6	1799	8.450E-07	4.141E-06	1617
102.6	6363	2.988E-06	1.464E-05	1618
103.6	3139	1.474E-06	7.222E-06	1620
104.5	1155	5.423E-07	2.657E-06	1622
105.5	455	2.139E-07	1.046E-06	1623
106.5	1065	5.004E-07	2.452E-06	1625
Z 107.5	44	2.074E-08	1.296E-07	1527
108.5	0	0.	0.	1628
109.5	12	5.926E-09	3.674E-08	1630
110.4	28	1.333E-08	8.267E-08	1632
111.4	0	0.	0.	1633
Z 112.4	0	0.	0.	1635
113.4	6	2.963E-09	1.837E-08	1637
114.4	69	3.260E-08	2.021E-07	1638
115.3	0	0.	0.	1640
116.3	123	5.789E-08	2.836E-07	1640
117.3	167	7.885E-08	3.863E-07	1641
118.3	197	9.282E-08	4.548E-07	1643
R 122.1	413	1.941E-07	9.507E-07	1650

CROSSWIND INTEGRATED= 1.397E-03 6.845E-03  
 SEC/SQ.M 1/M

TEST U86 AUGUST 29, 1969 0056 TO 0125 PST  
 ZINC SULFIDE RELEASE FROM ELFVATION OF 111M  
 1600M ARC SAMPLER HT 1.5M U= 6.2 M/SEC AT 111M

AZIMUTH EXPOSURE E/O EU/O DISTANCE  
 DEGREES CM-SEC/CM SEC/CM 1/SQ.M METERS  
 X10E+6

AZIMUTH DEGREES	EXPOSURE CM-SEC/CM X10E+6	E/O SEC/CM	EU/O 1/SQ.M	DISTANCE METERS
104.5	0	0.	0.	1522
105.5	72	3.404E-08	2.113E-07	1623
106.5	66	3.111E-08	1.929E-07	1625
Z 107.5	44	2.074E-08	1.296E-07	1527
108.5	0	0.	0.	1628
109.5	12	5.926E-09	3.674E-08	1630
110.4	28	1.333E-08	8.267E-08	1632
111.4	0	0.	0.	1633
Z 112.4	0	0.	0.	1635
113.4	6	2.963E-09	1.837E-08	1637
114.4	69	3.260E-08	2.021E-07	1638
115.3	0	0.	0.	1640
CROSSWIND INTEGRATED=	3.928E-06	2.435E-05		
	SEC/SQ.M	1/M		

TEST U86 AUGUST 29, 1969 0056 TU 0126 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 3200M ARC SAMPLER HT 1.5M U= 4.9 M/SEC AT 56M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
 DEGREES GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS  
 X10E+6

81.8	23	1.103E-08	5.406E-08	3184
82.8	22	1.053E-08	5.161E-08	3185
83.8	41	1.956E-08	9.584E-08	3167
84.8	131	6.169E-08	3.023E-07	3189
85.8	51	2.407E-08	1.180E-07	3191
86.8	163	7.673E-08	3.760E-07	3192
87.8	118	5.567E-08	2.728E-07	3194
88.8	224	1.053E-07	5.161E-07	3196
89.8	635	2.984E-07	1.462E-06	3198
90.8	528	2.482E-07	1.216E-06	3199
91.8	870	4.087E-07	2.003E-06	3201
92.8	806	3.786E-07	1.855E-06	3203
93.8	1285	6.033E-07	2.956E-06	3205
94.8	1576	7.402E-07	3.627E-06	3206
95.8	2272	1.067E-06	5.227E-06	3208
96.8	3012	1.414E-06	6.930E-06	3210
97.8	3348	1.572E-06	7.704E-06	3212
98.8	5031	2.362E-06	1.157E-05	3213
99.8	5300	2.489E-06	1.219E-05	3215
100.8	4425	2.078E-06	1.018E-05	3217
101.8	6265	2.941E-06	1.441E-05	3218
102.8	4470	2.099E-06	1.028E-05	3220
103.8	4358	2.046E-06	1.003E-05	3222
104.8	3550	1.667E-06	8.168E-06	3224
105.8	3214	1.509E-06	7.394E-06	3225
106.8	1666	7.824E-07	3.834E-06	3227
107.8	2070	9.719E-07	4.762E-06	3229
108.8	2743	1.288E-06	6.311E-06	3230
109.7	1935	9.087E-07	4.453E-06	3232
110.7	1150	5.401E-07	2.647E-06	3233
111.7	924	4.338E-07	2.126E-06	3235
112.7	8	4.012E-09	1.966E-08	3237
113.7	0	0.	0.	3238
114.6	0	0.	0.	3240

CROSSWIND INTEGRATED= 1.635E-03 8.009E-03  
 SEC/SQ.M 1/M

TEST U86 AUGUST 29, 1969 0056 TU 0126 PST  
 71NC SULFIDE RELEASE FROM ELEVATION OF 111M  
 3200M ARC SAMPLER HT 1.5M U= 6.2 M/SEC AT 111M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
 DEGREES GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS  
 X10E+6

99.8	0	0.	0.	3215
100.8	0	0.	0.	3217
101.8	12	6.030E-09	3.739E-08	3218
102.8	57	2.680E-08	1.662E-07	3220
103.8	46	2.276E-08	1.412E-07	3222
104.8	32	1.541E-08	9.555E-08	3224
105.8	58	2.747E-08	1.703E-07	3225
106.8	42	3.966E-08	2.409E-07	3227
107.8	309	1.454E-07	9.015E-07	3229
108.8	325	1.524E-07	9.672E-07	3230
109.7	62	2.948E-08	1.828E-07	3232
110.7	361	1.679E-07	1.051E-06	3233
111.7	1144	5.374E-07	3.332E-06	3235
112.7	45	2.144E-08	1.362E-07	3237
113.7	412	1.936E-07	1.201E-06	3238
114.6	0	0.	0.	3240

CROSSWIND INTEGRATED= 7.720E-05 4.766E-04  
 SEC/SQ.M 1/M

TEST U86 AUGUST 29, 1969 0056 TU 0126 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 5000M ARC SAMPLER HT 1.5M U= 4.9 M/SEC AT 56M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
 DEGREES GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS  
 X10E+6

88.0	10	4.704E-09	2.305E-08	4610
90.0	24	1.147E-08	5.619E-08	4610
92.0	95	4.484E-08	2.197E-07	4620
94.0	248	1.169E-07	5.727E-07	4620
C 96.0	666	3.127E-07	1.532E-06	4620
98.0	666	3.127E-07	1.532E-06	4660
M 100.0	1968	9.240E-07	4.528E-06	4690
F 102.0	1902	8.931E-07	4.376E-06	4710
104.0	1494	7.017E-07	3.438E-06	4770
106.0	2362	1.109E-06	5.435E-06	4810
108.0	725	3.405E-07	1.668E-06	4870
110.0	685	3.220E-07	1.578E-06	4920
112.0	46	2.205E-08	1.081E-07	4990
114.0	0	1.323E-10	6.483E-10	5080
116.0	0	0.	0.	5020
118.0	3	1.764E-09	8.645E-09	5100
120.0	0	0.	0.	5130

CROSSWIND INTEGRATED= 8.485E-04 4.158E-03  
 SEC/SQ.M 1/M

TEST U86 AUGUST 29, 1969 0056 TU 0126 PST  
 71NC SULFIDE RELEASE FROM ELEVATION OF 111M  
 5000M ARC SAMPLER HT 1.5M U= 6.2 M/SEC AT 111M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
 DEGREES GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS  
 X10E+6

92.0	0	0.	0.	4620
94.0	0	5.923E-10	2.436E-09	4620
C 96.0	0	3.928E-10	2.446E-09	4620
98.0	1	5.893E-10	3.653E-09	4660
M 100.0	33	1.591E-08	9.864E-08	4690
F 102.0	33	1.552E-08	9.621E-08	4710
104.0	17	6.254E-09	5.115E-08	4770
106.0	46	2.259E-08	1.400E-07	4810
108.0	115	5.401E-08	3.349E-07	4870
110.0	52	2.475E-08	1.536E-07	4920
112.0	20	9.428E-09	5.845E-08	4990
114.0	45	1.975E-08	1.161E-07	5080
116.0	0	0.	0.	5020
118.0	0	0.	0.	5100
120.0	0	0.	0.	5130
122.0	0	0.	0.	4830

CROSSWIND INTEGRATED= 2.907E-05 1.798E-04  
 SEC/SQ.M 1/M

TEST U86 AUGUST 29, 1969 0056 TO 0125 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
7000M ARC SAMPLER HT 1.5M U= 6.2 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
76.0	6	3.143E-09	1.931E-08	6280
78.0	0	0.	0.	6300
80.0	17	0.250E-09	5.115E-08	6400
82.0	0	0.	0.	6490
84.0	1	7.857E-10	4.871E-09	6500
86.0	23	1.100E-08	6.820E-08	6500
88.0	0	0.	0.	6460
90.0	0	0.	0.	6500
92.0	5	2.750E-09	1.705E-08	6490
94.0	0	0.	0.	6500
96.0	5	2.750E-09	1.705E-08	6510
98.0	15	7.071E-09	4.384E-08	6520
100.0	61	2.969E-08	1.779E-07	6560
102.0	12	6.089E-09	3.775E-08	6510
104.0	201	9.448E-08	5.858E-07	6650
106.0	23	1.120E-08	6.941E-08	6720
108.0	460	2.163E-07	1.341E-06	6900
110.0	182	8.583E-08	5.322E-07	7000
112.0	106	5.009E-08	3.105E-07	7300
P 114.0	23	1.100E-08	6.820E-08	7210
116.0	2	1.375E-09	8.525E-09	7220
118.0	0	0.	0.	7190
120.0	0	0.	0.	7150
122.0	0	3.924E-10	2.436E-09	7120
X 124.0	0	0.	0.	7100
126.0	0	0.	0.	7100

CROSSWIND INTEGRATED= 1.294E-04 SEC/SQ.M 7.990E-04 1/M

TEST U86 AUGUST 29, 1969 0056 TO 0126 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
12800M ARC SAMPLER HT 1.5M U= 6.2 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
97.0	0	0.	0.	12900
7 98.0	1	7.957E-10	4.871E-09	12800
99.0	2	1.179E-09	7.337E-09	12800
5 100.0	7	3.732E-09	2.314E-08	12800
101.0	7	3.732E-09	2.314E-08	12800
9 102.0	0	0.	0.	12800
103.0	18	8.839E-09	5.480E-08	12800
104.0	10	5.107E-09	3.166E-08	12800
4 105.0	6	3.143E-09	1.931E-08	12900
106.0	9	4.515E-09	2.801E-08	12800
7 107.0	10	4.910E-09	3.044E-08	12800
5 108.0	12	6.089E-09	3.775E-08	12800
8 109.0	30	1.414E-08	8.768E-08	12800
110.0	173	8.151E-08	5.054E-07	12800
7 111.0	78	3.673E-08	2.277E-07	12900
112.0	149	7.032E-08	4.360E-07	12800
P 113.0	956	4.492E-07	2.785E-06	12800
0 114.0	4	2.161E-09	1.340E-08	12900
0 115.0	0	0.	0.	12800
2 116.0	0	3.928E-10	2.436E-09	12900
117.0	2	1.179E-09	7.337E-09	12900
0 118.0	0	0.	0.	12800

CROSSWIND INTEGRATED= 1.559E-04 SEC/SQ.M 9.663E-04 1/M

TEST U86 AUGUST 29, 1969 0056 TO 0126 PST  
FLUORESCHEIN RELEASE FROM ELEVATION OF 56M  
7000M ARC SAMPLER HT 1.5M U= 4.9 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
88.0	0	0.	0.	6480
90.0	24	1.147E-08	5.619E-08	6500
92.0	79	3.749E-08	1.837E-07	6490
94.0	161	7.571E-08	3.710E-07	6500
96.0	587	2.757E-07	1.351E-06	6510
98.0	435	2.046E-07	1.003E-06	6520
100.0	1080	5.072E-07	2.485E-06	6560
102.0	1178	5.535E-07	2.712E-06	6610
104.0	1376	6.461E-07	3.166E-06	6650
106.0	685	3.220E-07	1.578E-06	6720
108.0	1001	4.702E-07	2.304E-06	6800
110.0	0	0.	0.	7000
112.0	92	4.337E-08	2.125E-07	7300
P 114.0	0	0.	0.	7210
116.0	0	0.	0.	7220

CROSSWIND INTEGRATED= 7.295E-04 SEC/SQ.M 3.575E-03 1/M

TEST U86 AUGUST 29, 1969 0056 TO 0126 PST  
FLUORESCHEIN RELEASE FROM ELEVATION OF 56M  
12800M ARC SAMPLER HT 1.5M U= 4.9 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
91.0	9	4.557E-09	2.231E-08	12800
5 92.0	21	1.014E-08	4.971E-08	12800
5 93.0	27	1.279E-08	6.267E-08	12800
6 94.0	27	1.279E-08	6.267E-08	12800
P 95.0	32	1.544E-08	7.564E-08	12600
4 96.0	24	1.147E-08	5.619E-08	12900
97.0	31	1.500E-08	7.348E-08	12800
7 98.0	40	1.896E-08	9.293E-08	12800
99.0	47	2.249E-08	1.102E-07	12800
4 100.0	82	3.896E-08	1.909E-07	12800
101.0	92	4.337E-08	2.125E-07	12800
9 102.0	108	5.072E-08	2.485E-07	12800
103.0	155	7.277E-08	3.566E-07	12800
104.0	255	1.198E-07	5.871E-07	12800
P 105.0	214	1.007E-07	4.935E-07	12800
4 106.0	455	2.139E-07	1.048E-06	12800
7 107.0	521	2.448E-07	1.199E-06	12800
5 108.0	474	2.227E-07	1.091E-06	12900
6 109.0	872	4.094E-07	2.036E-06	12800
110.0	809	3.800E-07	1.862E-06	12800
7 111.0	142	6.689E-08	3.278E-07	12800
112.0	305	1.433E-07	7.024E-07	12800
P 113.0	145	6.836E-08	3.350E-07	12800
9 114.0	34	1.632E-08	7.996E-08	12800
0 115.0	33	1.588E-08	7.780E-08	12800
116.0	15	7.057E-09	3.458E-08	12800
117.0	1	5.734E-10	2.809E-09	12600
0 118.0	0	0.	0.	12800
119.0	2	9.703E-10	4.754E-09	12800
120.0	0	0.	0.	12900
121.0	0	0.	0.	12800
122.0	0	0.	0.	12800
123.0	0	4.410E-10	2.161E-09	12800
8 124.0	13	6.175E-09	3.026E-08	12800
8 125.0	40	1.896E-08	9.293E-08	12800
7 126.0	11	5.587E-09	2.737E-08	12800
127.0	0	0.	0.	12800
128.0	0	0.	0.	12800
129.0	0	0.	0.	12800

CROSSWIND INTEGRATED= 5.298E-04 SEC/SQ.M 2.596E-03 1/M

SAMPLING 400M TO 1200M PLUS ONE TOWER ON 3200M-ARC. TRACER DISTRIBUTION IS ERRATIC ON ALL ARCS, PARTIALLY DUE TO HEAVY DUST LOADS IN FILTERS, BUT PERHAPS ALSO DUE TO CONTAMINATION. 26 MIN OF ZNS DISPERSAL; NO FLUORESCIN DISPLAYED. STRONG WIND SPEED AND DIRECTION SHEAR ABOVE 50M ELEVATION.

TEST UB7 SEPTEMBER 8, 1969 0151 TO 0217 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
400M ARC SAMPLER HT 1.5M U= 6.1 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM	1/4 SEC/CM	1/50.4 M	DISTANCE METERS
				X10E+6
66.0	0	0.	0.	400
70.0	20	5.097E-09	3.126E-08	400
74.0	0	0.	0.	400
78.0	21	5.456E-09	3.328E-08	400
82.0	10	2.546E-09	1.553E-08	400
Z 86.0	0	0.	0.	400
90.0	175	3.165E-06	1.930E-07	400
94.0	2	7.275E-10	4.438E-09	400
98.0	0	0.	0.	400

CROSSWIND INTEGRATED= 1.270E-06 7.745E-06  
SEC/SEC 1/M

TEST UB7 SEPTEMBER 8, 1969 0151 TO 0217 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
800M ARC SAMPLER HT 1.5M U= 6.1 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM	1/4 SEC/CM	1/50.4 M	DISTANCE METERS
				X10E+6
R 77.0	145	3.673E-05	2.241E-07	771
79.0	355	8.994E-08	5.462E-07	774
81.1	355	9.954E-08	5.462E-07	778
83.1	123	3.559E-08	1.891E-07	781
85.2	82	2.066E-08	1.260E-07	785
87.2	423	1.068E-07	6.512E-07	788
89.2	86	2.191E-08	1.330E-07	792
91.2	154	3.903E-08	2.391E-07	795
93.2	77	1.952E-08	1.190E-07	799
Z 95.1	50	1.263E-08	7.703E-08	802
97.1	273	7.003E-08	4.272E-07	806
99.1	209	5.231E-08	3.221E-07	809
101.1	82	2.066E-08	1.260E-07	813
103.0	18	4.592E-09	2.801E-08	816
Z 105.0	36	2.101E-08	1.330E-07	820
106.9	0	0.	0.	823
108.8	50	1.263E-08	7.703E-08	826
110.7	0	0.	0.	829

CROSSWIND INTEGRATED= 1.402E-05 1.099E-04  
SEC/SEC 1/M



TEST U87 SEPTEMBER 8, 1969 0151 TO 0217 PST  
 ZINC SULFIDE RELEASE FROM ELFVATION OF 111M  
 1600M ARC SAMPLER HT 1.5M U= 6.1 M/SEC AT111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. X10E+6	E/O SFC/CM.	EU/O 1/SQ.M	DISTANCE METERS
B 73.4	102	2.574E-08	1.570E-07	1568
74.4	105	2.650E-08	1.616E-07	1570
75.5	99	2.448E-08	1.524E-07	1572
76.5	66	1.666E-08	1.016E-07	1573
77.5	159	4.012E-08	2.448E-07	1575
78.5	10	4.542E-09	2.771E-08	1577
79.5	48	1.211E-08	7.389E-08	1578
80.5	27	6.814E-09	4.156E-08	1580
81.5	168	4.240E-08	2.546E-07	1582
82.6	51	1.287E-08	7.851E-08	1584
83.6	0	0.	0.	1585
84.6	48	1.211E-08	7.389E-08	1587
85.6	123	3.104E-08	1.893E-07	1589
86.6	6	1.514E-09	9.236E-09	1590
87.6	162	4.088E-08	2.494E-07	1592
88.6	0	0.	0.	1594
89.6	0	0.	0.	1596
90.6	312	7.873E-08	4.803E-07	1597
91.6	0	0.	0.	1599
92.6	15	3.785E-09	2.304E-08	1601
93.6	300	7.571E-08	4.618E-07	1603
94.6	222	5.602E-08	3.417E-07	1604
S 95.6	0	0.	0.	1606
96.6	192	4.845E-08	2.956E-07	1608
97.6	0	0.	0.	1610

CROSSWIND INTEGRATED= 1.572E-05 SEC/SQ.M  
 9.587E-05 1/M

TEST U87 SEPTEMBER 8, 1969 0151 TO 0217 PST  
 ZINC SULFIDE RELEASE FROM ELFVATION OF 111M  
 3200M ARC SAMPLER HT 1.5M U= 6.1 M/SEC AT111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM. X10E+6	E/O SFC/CM.	EU/O 1/SQ.M	DISTANCE METERS
B 72.7	186	4.709E-08	2.873E-07	3168
73.7	172	3.042E-08	1.896E-07	3170
74.7	131	3.307E-08	2.017E-07	3172
75.7	199	5.033E-08	3.070E-07	3173
76.8	162	4.098E-08	2.506E-07	3175
77.8	74	1.859E-08	1.140E-07	3177
78.8	149	3.775E-08	2.333E-07	3179
79.8	202	5.105E-08	3.114E-07	3180
80.8	95	2.409E-08	1.469E-07	3182
81.8	97	2.445E-08	1.491E-07	3184
82.8	275	6.938E-08	4.232E-07	3185
83.8	91	2.301E-08	1.403E-07	3187
84.8	115	2.912E-08	1.776E-07	3189
85.8	72	1.833E-08	1.118E-07	3191
86.8	58	1.474E-08	8.991E-08	3192
87.8	201	5.069E-08	3.072E-07	3194
88.8	37	9.347E-09	5.702E-08	3196
89.8	77	1.941E-08	1.184E-07	3198
90.8	117	2.948E-08	1.796E-07	3199
91.8	191	4.817E-08	2.938E-07	3201
92.8	0	0.	0.	3203
93.8	8	2.157E-09	1.316E-08	3205
94.8	186	4.709E-08	2.873E-07	3206
95.8	0	0.	0.	3208
96.8	94	2.373E-08	1.447E-07	3210
S 97.8	0	0.	0.	3212
98.8	77	1.941E-08	1.184E-07	3213
S 99.8	17	4.314E-09	2.631E-08	3215
100.8	24	6.111E-09	3.728E-08	3217
101.8	144	3.631E-08	2.215E-07	3219
102.8	0	0.	0.	3220
103.8	0	0.	0.	3222
104.8	0	0.	0.	3224
105.8	0	0.	0.	3225
106.8	329	8.304E-08	5.066E-07	3227
107.8	151	3.811E-08	2.324E-07	3229
108.8	2	7.190E-10	4.306E-09	3230
109.7	0	0.	0.	3232

CROSSWIND INTEGRATED= 5.215E-05 SEC/SQ.M  
 3.181E-04 1/M

TEST 087 SEPTEMBER 8, 1969 0151 TO 0217 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
 5000M ARC SAMPLER HT 1.5M U= 6.1 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	L/U SEC/CU.M	L/U 1/SQ.M	DISTANCE METERS
Z 82.0	7	1.792E-09	1.073E-04	4630
84.0	30	7.794E-09	4.757E-04	4620
86.0	19	4.846E-09	2.557E-04	4610
88.0	4	1.159E-09	7.071E-05	4510
90.0	6	1.686E-09	1.029E-04	4610
6 92.0	0	0.	0.	4620
94.0	0	2.108E-10	1.266E-09	4520
96.0	18	4.742E-09	2.893E-04	4620
98.0	80	2.023E-08	1.234E-07	4660
M 100.0	100	2.724E-08	1.665E-07	4590
102.0	5	1.370E-09	8.357E-05	4710
104.0	0	0.	0.	4770
106.0	0	2.108E-10	1.266E-09	4810
108.0	0	0.	0.	4870
9 110.0	9	2.424E-09	1.479E-04	4920
P 112.0	58	1.465E-08	6.935E-04	4990
H 114.0	0	0.	0.	5080
C 116.0	33	8.431E-09	5.143E-04	5020
118.0	0	0.	0.	5100
120.0	0	0.	0.	5130

CROSSWIND INTEGRATED= 1.605E-05 9.790E-05  
 SEC/SQ.M 1/M

TEST 087 SEPTEMBER 8, 1969 0151 TO 0217 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
 7000M ARC SAMPLER HT 1.5M U= 6.1 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	L/U SEC/CU.M	L/U 1/SQ.M	DISTANCE METERS
X 76.0	0	0.	0.	5280
0 78.0	0	0.	0.	6300
7 80.0	83	2.168E-08	1.286E-07	6400
82.0	0	0.	0.	6490
9 84.0	34	8.747E-09	5.336E-04	6500
5 86.0	45	1.149E-08	7.007E-04	6500
0 88.0	0	0.	0.	6480
0 90.0	51	1.286E-08	7.943E-04	6500
0 92.0	0	0.	0.	6490
0 94.0	55	1.391E-08	8.485E-04	6500
5 96.0	102	2.522E-08	1.591E-07	6510
4 98.0	303	7.640E-08	4.661E-07	6500
6 100.0	283	7.144E-08	4.352E-07	6560
5 102.0	310	7.530E-08	4.776E-07	6610
4 104.0	123	3.114E-08	1.953E-07	6550
C 106.0	12	2.267E-09	1.493E-04	6720
0 108.0	18	2.522E-09	1.543E-04	6300
3 110.0	72	1.323E-08	1.112E-07	7000
3 112.0	517	1.303E-07	7.945E-07	7300
0 114.0	185	4.679E-08	2.854E-07	7210
2 116.0	106	2.677E-08	1.603E-07	7220
9 118.0	64	1.623E-08	9.900E-04	7190
3 120.0	158	3.994E-08	2.436E-07	7150
H 122.0	45	1.149E-08	7.007E-04	7120
0 124.0	0	0.	0.	7100
C 126.0	0	0.	0.	7100
9 128.0	62	1.578E-08	9.578E-04	7100
4 130.0	135	3.404E-08	2.076E-07	7130
5 132.0	94	2.392E-08	1.459E-07	7150
9 134.0	29	7.377E-09	4.500E-04	7200
0 136.0	0	0.	0.	7250
9 138.0	42	1.075E-08	6.557E-04	7300
0 140.0	23	5.736E-09	3.536E-04	7350
6 142.0	50	1.265E-08	7.714E-04	7250
B 144.0	28	7.051E-09	4.307E-04	7110
C 146.0	0	0.	0.	7100

CROSSWIND INTEGRATED= 1.541E-04 1.123E-03  
 SEC/SQ.M 1/M

TEST U87 SEPTEMBER 8, 1969 0151 TO 0217 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
 12800M ARC SAMPLER HIT 1.5M U= 6.1 M/SEC AT111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/O SEC/CM	EU/O 1/50.M	DISTANCE METERS
5 93.0	0	0.	0.	12900
9 92.0	0	0.	0.	12800
3 93.0	0	0.	0.	12800
C 94.0	0	0.	0.	12800
4 95.0	0	0.	0.	12800
6 98.0	0	0.	0.	12800
2 100.0	0	0.	0.	12800
2 101.0	0	0.	0.	12800
0 105.0	0	0.	0.	12900
110.0	0	0.	0.	12800
9 115.0	0	0.	0.	12800
119.0	0	0.	0.	12800
3 120.0	2	6.325E-10	3.657E-09	12300
6 121.0	1	4.715E-10	2.571E-09	12800
C 122.0	12	3.161E-09	1.926E-08	12800
3 123.0	7	1.497E-09	1.157E-08	12800
A 124.0	17	4.321E-09	2.636E-08	12900
0 125.0	19	4.953E-09	3.021E-08	12800
7 126.0	28	7.061E-09	4.307E-08	12800
8 127.0	40	1.012E-08	6.171E-08	12800
7 128.0	34	8.641E-09	5.271E-08	12800
B 129.0	31	8.009E-09	4.836E-08	12900
8 130.0	70	1.770E-08	1.080E-07	12900
9 131.0	17	4.321E-09	2.636E-08	12800
6 132.0	29	7.377E-09	4.500E-08	12800
P 133.0	103	2.604E-08	1.588E-07	12900
C 134.0	15	3.899E-09	2.376E-08	12300
9 135.0	32	8.114E-09	4.950E-08	12900
9 136.0	64	1.612E-08	9.835E-08	12900
6 137.0	101	2.550E-08	1.556E-07	12900
0 139.0	7	1.497E-09	1.157E-08	12800
7 139.0	47	1.201E-08	7.328E-08	12800
9 140.0	61	1.539E-08	9.385E-08	12800
14 141.0	189	4.734E-08	2.918E-07	12900
6 142.0	125	3.151E-08	1.922E-07	12800
0 143.0	16	4.110E-09	2.507E-08	12800
7 144.0	115	2.909E-08	1.774E-07	12800
8 145.0	32	8.220E-09	5.014E-08	12900
6 146.0	66	1.606E-08	1.029E-07	12800
5 147.0	67	1.647E-08	1.035E-07	12800
4 148.0	77	1.950E-08	1.189E-07	12800
9 149.0	41	1.043E-08	6.364E-08	12800
4 150.0	12	3.267E-09	1.993E-08	12900
7 151.0	17	4.426E-09	2.700E-08	12900

CROSSWIND INTEGRATED = 8.405E-05 SEC/50.M  
 5.176E-04 1/M

TOWER DATA FOLLOW....

TEST U87 SEPTEMBER 8, 1969 0151 TO 0217 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
 3200M ARC U= 6.1 M/SEC AT111M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/O SEC/CM	EU/O 1/50.M	DISTANCE METERS
115.6	.2	0	0.	0.	3200
115.6	.4	0	0.	0.	3200
115.6	.8	0	0.	0.	3200
115.6	1.5	54	1.366E-08	8.333E-08	3200
115.6	3.1	0	0.	0.	3200
115.6	6.2	0	0.	0.	3200
115.6	9.3	0	0.	0.	3200
115.6	12.4	0	0.	0.	3200
115.6	15.5	0	0.	0.	3200
115.6	18.6	2	6.847E-10	4.177E-09	3200
115.6	21.7	0	0.	0.	3200
115.6	24.8	0	0.	0.	3200
115.6	31.0	96	2.431E-08	1.483E-07	3200
115.6	37.2	237	5.992E-08	3.655E-07	3200
115.6	43.4	504	1.270E-07	7.748E-07	3200
115.6	49.6	354	8.936E-08	5.451E-07	3200
115.6	55.8	2173	5.474E-07	3.339E-06	3200
115.6	62.0	2624	6.611E-07	4.033E-06	3200

SAMPLING 400M TO 12800M; TOWER SAMPLING AT 3200M, 115.6 DEG. NO ZNS TRACER OBSERVED CLOSER THAN 3200M ARC. AND DUST AND SAMPLER FAILURE CAUSED PROBLEMS WHERE TRACER WAS FOUND. FOR FLUORESCHEIN, TRACER ON 0049, OFF 0055, ON AGAIN 0132, AND FINALLY OFF 0142. THIS TEST WAS MARGINALLY SUCCESSFUL, ESPECIALLY FOR FLUORESCHEIN.

TEST U88 SEPTEMBER 10, 1969 0132 TO 0202 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
400M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/W SFC/CU.M	EU/W 1/SQ.M	DISTANCE METERS
N 78.0	0 0.	0.		400
CROSSWIND INTEGRATED= 0. SEC/SQ.M 1/M				

TEST U88 SEPTEMBER 10, 1969 0497 TO 1427 PST  
FLUORESCHEIN RELEASE FROM ELEVATION OF 56M  
400M ARC SAMPLER HT 1.5M U= 7.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/W SEC/CU.M	EU/W 1/SQ.M	DISTANCE METERS
B 62.0	3	9.223E-09	7.010E-08	400
66.0	14	3.978E-08	3.023E-07	400
70.0	7	2.075E-08	1.577E-07	400
74.0	8	2.248E-08	1.709E-07	400
78.0	10	2.767E-08	2.103E-07	400
82.0	16	4.323E-08	3.286E-07	400
86.0	14	3.978E-08	3.023E-07	400
90.0	5	1.499E-08	1.139E-07	400
94.0	23	6.226E-08	4.732E-07	400
98.0	11	3.113E-08	2.366E-07	400
102.0	5	1.384E-08	1.051E-07	400
106.0	7	2.075E-08	1.577E-07	400
110.0	12	3.372E-08	2.563E-07	400
9 114.0	8	2.335E-08	1.774E-07	400
118.0	3	8.935E-09	6.791E-08	400
122.0	5	1.470E-08	1.117E-07	400
4 126.0	11	3.113E-08	2.366E-07	400
6 130.0	6	1.643E-08	1.249E-07	400
0 134.0	3	8.070E-09	6.134E-08	400
138.0	5	1.412E-08	1.073E-07	400
142.0	12	3.459E-08	2.629E-07	400
146.0	7	2.075E-08	1.577E-07	400
4 150.0	6	1.729E-08	1.314E-07	400
8 154.0	5	1.470E-08	1.117E-07	400
CROSSWIND INTEGRATED= 1.630E-05 SEC/SQ.M 1/M				

TEST U88 SEPTEMBER 10, 1969 0132 TO 0202 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
400M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/W SFC/CU.M	EU/W 1/SQ.M	DISTANCE METERS
N 77.0	0 0.	0.		771
CROSSWIND INTEGRATED= 0. SEC/SQ.M 1/M				

TEST U88 SEPTEMBER 10, 1969 0497 TO 1427 PST  
FLUORESCHEIN RELEASE FROM ELEVATION OF 56M  
400M ARC SAMPLER HT 1.5M U= 7.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/W SEC/CU.M	EU/W 1/SQ.M	DISTANCE METERS
B 131.4	0	0.	0.	862
133.2	8	2.292E-08	1.742E-07	865
134.9	0	0.	0.	867
136.9	0	1.910E-09	1.452E-08	870
138.7	3	9.551E-09	7.259E-08	872
140.6	4	1.146E-08	8.711E-08	874
142.4	5	1.337E-08	1.016E-07	876
144.2	4	1.146E-08	8.711E-08	878
146.0	2	5.731E-09	4.355E-08	880
147.8	0	0.	0.	882
149.6	2	6.686E-09	5.081E-08	884
B 151.4	2	6.686E-09	5.081E-08	886
CROSSWIND INTEGRATED= 2.467E-06 SEC/SQ.M 1/M				

TEST URB SEPTEMBER 10, 1969 0132 TO 0202 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
 1600M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SFC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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N 73.4	0 0.	0.		1568
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CROSSWIND INTEGRATED= 0. SFC/SQ.M 1/M

TEST URB SEPTEMBER 10, 1969 0497 TO 1427 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 1600M ARC SAMPLER HT 1.5M U= 7.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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R 103.6	4	1.071E-08	8.138E-08	1620
104.5	1	3.149E-09	2.394E-08	1622
105.5	0	1.890E-09	1.436E-08	1623
106.5	8	2.142E-08	1.628E-07	1625
107.5	40	1.083E-07	8.234E-07	1627
108.5	349	9.322E-07	7.085E-06	1628
109.5	413	1.102E-06	8.377E-06	1630
110.4	441	1.178E-06	8.952E-06	1632
111.4	1814	4.838E-06	3.677E-05	1633
112.4	3750	1.000E-05	7.602E-05	1635
113.4	1081	2.885E-06	2.173E-05	1637
114.4	2475	6.601E-06	5.017E-05	1638
115.3	1530	4.082E-06	3.102E-05	1640
116.3	1743	4.649E-06	3.533E-05	1641
117.3	392	1.046E-06	7.947E-06	1643
118.2	845	2.255E-06	1.714E-05	1644
119.2	3467	9.247E-06	7.028E-05	1646
120.2	918	2.444E-06	1.857E-05	1647
121.2	774	2.066E-06	1.570E-05	1649
122.1	2333	6.223E-06	4.730E-05	1650
123.1	703	1.877E-06	1.427E-05	1652
124.1	0	2.142E-09	1.628E-08	1653
125.0	1	3.149E-09	2.394E-08	1655
126.0	0	0.	0.	1656
126.9	0	0.	0.	1658

CROSSWIND INTEGRATED= 1.728E-03 SEC/SQ.M 1.313E-02 1/M

TEST URB SEPTEMBER 10, 1969 0497 TO 1427 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 3200M ARC SAMPLER HT 1.5M U= 7.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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102.8	1	3.418E-09	2.598E-08	3220
103.8	21	5.728E-08	4.352E-07	3222
104.8	112	2.991E-07	2.273E-06	3224
105.8	440	1.176E-06	8.937E-06	3225
106.8	983	2.624E-06	1.994E-05	3227
107.8	548	1.463E-06	1.112E-05	3229
108.8	1119	2.982E-06	2.267E-05	3230
109.7	1881	5.016E-06	3.812E-05	3232
110.7	1881	5.016E-06	3.812E-05	3233
111.7	1948	5.196E-06	3.949E-05	3235
112.7	1948	5.196E-06	3.949E-05	3237
113.7	714	1.906E-06	1.448E-05	3238
114.6	961	2.564E-06	1.948E-05	3240
115.6	263	7.036E-07	5.347E-06	3241
P 116.6	5	1.453E-08	1.104E-07	3243
F 117.6	28	7.691E-08	5.845E-07	3245
F 118.6	4	1.111E-08	8.443E-08	3246
F 119.5	520	1.387E-06	1.044E-05	3248
P 120.5	153	4.102E-07	3.118E-06	3249
P 121.5	3	8.261E-09	6.278E-08	3251
W 122.4	3	9.970E-09	7.577E-08	3252
W 123.4	0	8.546E-10	6.495E-09	3253
K 124.4	0	5.697E-10	4.330E-09	3255
125.4	0	1.994E-09	1.515E-08	3256
B 126.3	5	1.453E-08	1.104E-07	3258

CROSSWIND INTEGRATED= 2.001E-03 SEC/SQ.M 1.521E-02 1/M

TEST URB SEPTEMBER 10, 1969 0132 TO 0212 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
 3200M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SFC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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115.6	0	0.	0.	3241
P 116.6	1	4.587E-10	2.937E-09	3243
P 117.6	82	2.662E-06	1.703E-07	3245
F 118.6	0	0.	0.	3246
P 119.5	206	6.654E-06	4.259E-07	3248
P 120.5	0	0.	0.	3249
P 121.5	0	0.	0.	3251
W 122.4	162	5.231E-06	3.346E-07	3252
W 123.4	0	0.	0.	3253

CROSSWIND INTEGRATED= 7.939E-06 SFC/SQ.M 5.040E-05 1/M

TEST U88 SEPTEMBER 10, 1969 0132 TO 0202 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
5000M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
118.0	0	0.	0.	5100
120.0	125	4.022E-08	2.574E-07	5130
122.0	26	8.610E-09	5.510E-08	4830
124.0	0	0.	0.	4660
4 126.0	46	1.493E-08	9.557E-08	4770
7 128.0	0	0.	0.	4900
W 130.0	0	0.	0.	4970

CROSSWIND INTEGRATED= 1.114E-05 SEC/SQ.M 7.130E-05 1/M

TEST U88 SEPTEMBER 10, 1969 0497 TO 1427 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 56M  
5000M ARC SAMPLER HT 1.5M U= 7.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
96.0	0	7.515E-10	5.712E-09	4620
98.0	0	1.002E-09	7.616E-09	4660
100.0	0	0.	0.	4690
102.0	1	2.756E-09	2.094E-08	4710
104.0	19	5.261E-08	3.998E-07	4770
106.0	221	5.912E-07	4.493E-06	4810
108.0	333	8.893E-07	6.759E-06	4870
110.0	905	2.415E-06	1.835E-05	4920
112.0	550	1.468E-06	1.116E-05	4990
6 114.0	94	2.528E-07	1.921E-06	5080
116.0	136	3.632E-07	2.761E-06	5020
118.0	267	7.140E-07	5.426E-06	5100
120.0	511	1.363E-06	1.036E-05	5130
122.0	412	1.100E-06	8.358E-06	4830
124.0	104	2.789E-07	2.120E-06	4660
4 126.0	1	3.507E-09	2.665E-08	4770
7 128.0	1	5.261E-09	3.998E-08	4900
W 130.0	0	2.505E-09	1.904E-08	4970
132.0	2	5.767E-09	4.377E-08	4980
134.0	1	4.507E-09	3.427E-08	4990
6 136.0	0	2.505E-09	1.904E-08	5000

CROSSWIND INTEGRATED= 1.645E-03 SEC/SQ.M 1.250E-02 1/M

TEST U88 SEPTEMBER 10, 1969 0132 TO 0202 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
7000M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
P 110.0	0	0.	0.	7000
6 112.0	0	0.	0.	7300
5 114.0	0	0.	0.	7210
116.0	9	2.960E-09	1.894E-08	7220
9 118.0	7	2.556E-09	1.636E-08	7190
4 120.0	156	5.031E-08	3.220E-07	7150
122.0	7	2.556E-09	1.636E-08	7120
X 124.0	20	6.726E-09	4.305E-08	7100
9 126.0	0	0.	0.	7100
9 128.0	0	0.	0.	7100
4 130.0	0	0.	0.	7130

CROSSWIND INTEGRATED= 1.625E-05 SEC/SQ.M 1.040E-04 1/M

TEST U88 SEPTEMBER 10, 1969 0497 TO 1427 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 56M  
7000M ARC SAMPLER HT 1.5M U= 7.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
96.0	1	4.259E-09	3.237E-08	6510
98.0	1	5.261E-09	3.998E-08	6520
100.0	4	1.294E-08	9.837E-08	6560
102.0	7	1.879E-08	1.426E-07	6610
104.0	7	1.962E-08	1.491E-07	6650
106.0	11	2.964E-08	2.253E-07	6720
108.0	130	3.476E-07	2.637E-06	6800
110.0	183	4.689E-07	3.716E-06	7000
6 112.0	217	5.808E-07	4.414E-06	7300
114.0	294	7.854E-07	5.969E-06	7210
116.0	281	7.503E-07	5.702E-06	7220
9 118.0	24	6.639E-08	5.045E-07	7190
4 120.0	53	1.435E-07	1.091E-06	7150
122.0	274	7.328E-07	5.569E-06	7120
1 124.0	0	1.253E-09	9.520E-09	7100
9 126.0	1	3.507E-09	2.665E-08	7100
9 128.0	3	9.770E-09	7.425E-08	7100
4 130.0	0	0.	0.	7130

CROSSWIND INTEGRATED= 9.957E-04 SEC/SQ.M 7.568E-03 1/M

TEST U88 SEPTEMBER 10, 1969 0497 TO 1427 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 56M  
12800M ARC SAMPLER HT 1.5M U= 7.6 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
91.0	0	0.	0.	12800
92.0	3	2.434E-09	6.410E-08	12800
94.0	6	1.670E-08	1.269E-07	12800
4 96.0	15	4.092E-08	3.110E-07	12800
5 98.0	1	4.927E-09	3.744E-08	12800
9 96.0	6	1.837E-08	1.396E-07	12800
6 97.0	5	1.503E-08	1.142E-07	12800
9 98.0	7	2.004E-08	1.523E-07	12800
7 99.0	5	1.503E-08	1.142E-07	12800
1 100.0	1	5.177E-09	3.935E-08	12800

TEST 000 SEPTEMBER 10, 1969 0132 TO 0202 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
 1200M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
0 115.0	0 0.	0.	0.	12000
7 116.0	0 2.690E-10	1.722E-09	12000	
4 117.0	5 1.614E-09	1.033E-08	12500	
6 118.0	3 1.211E-09	7.749E-09	12000	
9 119.0	0 2.690E-10	1.722E-09	12000	
5 120.0	21 6.461E-09	4.391E-08	12000	
6 121.0	36 1.184E-08	7.576E-08	12000	
C 122.0	112 3.605E-08	2.307E-07	12000	
4 123.0	40 1.305E-08	8.351E-08	12000	
8 124.0	22 7.264E-09	4.649E-08	12000	
0 125.0	14 4.574E-09	2.927E-08	12000	
9 126.0	0 0.	0.	12000	

CROSSWIND INTEGRATED= 1.854E-05 SEC/SQ.M  
 1.197E-04 1/M

6 101.0	6 1.670E-08	1.269E-07	12000
0 102.0	1 5.177E-09	3.935E-08	12000
8 103.0	5 1.587E-08	1.206E-07	12000
C 104.0	1 4.426E-09	3.364E-08	12000
C 105.0	1 4.676E-09	3.554E-08	12000
0 106.0	5 1.570E-08	1.193E-07	12000
C 107.0	7 2.088E-08	1.567E-07	12000
9 108.0	8 2.338E-08	1.777E-07	12000
9 109.0	5 1.420E-08	1.079E-07	12000
4 110.0	7 1.921E-08	1.460E-07	12000
0 111.0	9 2.422E-08	1.840E-07	12000
9 112.0	4 1.319E-08	1.003E-07	12000
7 113.0	12 3.340E-08	2.539E-07	12000
9 114.0	40 1.069E-07	8.123E-07	12000
0 115.0	85 2.280E-07	1.733E-06	12000
7 116.0	138 3.699E-07	2.811E-06	12000
4 117.0	170 4.534E-07	3.446E-06	12000
6 118.0	91 2.447E-07	1.859E-06	12000
9 119.0	28 7.607E-08	5.639E-07	12000
5 120.0	94 2.530E-07	1.923E-06	12000
6 121.0	146 3.950E-07	3.002E-06	12000
C 122.0	232 6.204E-07	4.715E-06	12000
4 123.0	113 3.031E-07	2.304E-06	12000
8 124.0	42 1.144E-07	8.695E-07	12000
0 125.0	2 5.929E-09	4.506E-08	12000
9 126.0	3 8.935E-09	6.791E-08	12000
5 127.0	0 2.171E-09	1.650E-08	12000
5 128.0	3 9.436E-09	7.171E-08	12000
8 129.0	1 3.425E-09	2.943E-08	12000
7 130.0	2 5.729E-09	4.506E-08	12000
0 131.0	2 7.933E-09	6.029E-08	12000
3 132.0	2 5.678E-09	4.316E-08	12000
6 133.0	5 1.369E-08	1.041E-07	12000
0 134.0	0 1.420E-09	1.079E-08	12000
7 135.0	0 2.422E-09	1.840E-08	12000
0 136.0	1 2.923E-09	2.221E-08	12000
7 137.0	0 0.	0.	12000
0 138.0	0 1.670E-10	1.269E-09	12000
9 139.0	1 3.674E-09	2.792E-08	12000
1 140.0	1 4.175E-09	3.173E-08	12000

CROSSWIND INTEGRATED= 8.042E-04 SEC/SQ.M  
 6.112E-03 1/M

TOWER DATA FOLLOW....

TEST 000 SEPTEMBER 10, 1969 0132 TO 0202 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
 3200M ARC U= 6.4 M/SEC AT 111M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
6 115.6	.2	0 0.	0.	0.	3200
6 115.6	.4	0 0.	0.	0.	3200
6 115.6	.8	0 0.	0.	0.	3200
6 115.6	1.6	0 0.	0.	0.	3200
4 115.6	3.1	0 0.	0.	0.	3200
115.6	6.2	0 0.	0.	0.	3200
115.6	9.3	15 5.006E-09	3.204E-08	3200	
115.6	12.4	0 0.	0.	0.	3200
115.6	15.5	27 6.792E-09	5.627E-08	3200	
115.6	18.6	0 0.	0.	0.	3200
W 115.6	21.7	0 0.	0.	0.	3200
W 115.6	24.8	0 0.	0.	0.	3200
W 115.6	31.0	0 0.	0.	0.	3200
W 115.6	37.2	11 3.792E-09	2.427E-08	3200	
115.6	43.4	9 2.999E-09	1.919E-08	3200	
115.6	49.6	0 0.	0.	0.	3200
115.6	55.8	0 0.	0.	0.	3200
115.6	62.0	0 0.	0.	0.	3200

TOWER DATA FOLLOW....

TEST 000 SEPTEMBER 10, 1969 0449 TO 1427 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 3200M ARC U= 7.6 M/SEC AT 56M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
6 115.6	.2	253 6.751E-07	5.131E-06	3200	
6 115.6	.4	124 3.333E-07	2.533E-06	3200	
6 115.6	.8	456 1.216E-06	9.244E-06	3200	
6 115.6	1.5	263 7.036E-07	5.347E-06	3200	
6 115.6	1.6	616 1.644E-06	1.249E-05	3200	
4 115.6	3.1	624 1.666E-06	1.266E-05	3200	
115.6	6.2	1140 3.042E-06	2.312E-05	3200	
115.6	9.3	1163 3.102E-06	2.358E-05	3200	
115.6	12.4	1320 3.521E-06	2.676E-05	3200	
115.6	15.5	1634 4.358E-06	3.312E-05	3200	
115.6	18.6	1544 4.119E-06	3.131E-05	3200	
W 115.6	21.7	1320 3.521E-06	2.676E-05	3200	
W 115.6	24.8	2621 6.990E-06	5.313E-05	3200	
W 115.6	31.0	1454 3.880E-06	2.949E-05	3200	
W 115.6	37.2	2688 7.170E-06	5.449E-05	3200	
115.6	43.4	2352 6.273E-06	4.767E-05	3200	
115.6	49.6	616 1.644E-06	1.249E-05	3200	
115.6	55.8	201 5.384E-07	4.092E-06	3200	
115.6	62.0	12 3.418E-08	2.598E-07	3200	

SAMPLING 400M TO 1200M. SAMPLING AT ONLY ONE TOWER. BUT NO TRACER THEREIN. NO ZNS ON 400M OR 800M ARCS. ZINC SULFIDE TRACER ENHANCED BY CROSSWIND EXTENT OF ARCS. FLUORESCCEIN CROSSWIND DISTRIBUTIONS SEEM TO EXTEND OFF EDGES OF ARCS FREQUENTLY. BUT CONTAMINATION IS POSSIBILITY. NEITHER TRACER OBSERVED AT 1200M ARC.

TEST U89 SEPTEMBER 11, 1969 0110 TO 0140 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
400M ARC SAMPLER HT 1.5M U= 3.6 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SFC/CM	EU/Q 1/SQ.M	DISTANCE METERS
N 78.0	0	0.	0.	400
CROSSWIND INTEGRATED= 0. SEC/SQ.M 1/M				

TEST U89 SEPTEMBER 11, 1969 0118 TO 0148 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 56M  
400M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
Z 62.0	907	6.827E-07	2.048E-06	400
66.0	4	3.332E-09	9.996E-09	400
70.0	0	0.	0.	400
74.0	0	0.	0.	400
78.0	0	0.	0.	400
82.0	4	3.332E-09	9.996E-09	400
86.0	0	0.	0.	400
90.0	0	0.	0.	400
94.0	0	0.	0.	400
98.0	3530	2.654E-06	7.963E-06	400
102.0	1059	7.964E-07	2.389E-06	400
106.0	0	0.	0.	400
110.0	4	3.332E-09	9.996E-09	400
9 114.0	4	3.088E-09	9.265E-09	400
118.0	0	0.	0.	400
122.0	0	6.501E-10	1.950E-09	400
126.0	2	1.625E-09	4.876E-09	400
5 130.0	0	0.	0.	400
M 134.0	0	0.	0.	400
138.0	0	0.	0.	400
142.0	0	0.	0.	400
146.0	0	0.	0.	400
150.0	0	0.	0.	400
154.0	4	3.332E-09	9.996E-09	400
CROSSWIND INTEGRATED= 1.159E-04 SEC/SQ.M 1/M				

TEST U89 SEPTEMBER 11, 1969 0110 TO 0140 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
800M ARC SAMPLER HT 1.5M U= 3.6 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SFC/CM	EU/Q 1/SQ.M	DISTANCE METERS
N 77.0	0	0.	0.	771
CROSSWIND INTEGRATED= 0. SEC/SQ.M 1/M				

TEST U89 SEPTEMBER 11, 1969 0118 TO 0148 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 56M  
800M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
91.2	0	0.	0.	795
93.2	540	4.064E-07	1.219E-06	799
95.2	712	5.356E-07	1.607E-06	802
97.1	0	0.	0.	806
99.1	6751	5.076E-06	1.523E-05	809
101.1	3291	2.475E-06	7.424E-06	813
103.0	816	6.140E-07	1.842E-06	816
105.0	0	0.	0.	820
106.9	712	5.356E-07	1.607E-06	823
108.8	1163	8.750E-07	2.625E-06	826
110.7	0	0.	0.	829
112.6	0	0.	0.	833
CROSSWIND INTEGRATED= 2.934E-04 SEC/SQ.M 1/M				

TEST U89 SEPTEMBER 11, 1969 0110 TO 0140 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
1600M ARC SAMPLER HT 1.5M U= 3.6 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
91.6	0	0.	0.	1599
92.6	15	4.221E-09	1.920E-08	1601
93.6	0	0.	0.	1603
94.6	156	4.390E-08	1.580E-07	1604
95.6	324	9.118E-08	3.262E-07	1606
96.6	760	2.136E-07	7.689E-07	1608
97.6	1373	3.954E-07	1.387E-06	1610
98.6	670	1.463E-07	6.773E-07	1611
99.6	0	0.	0.	1613
CROSSWIND INTEGRATED= 2.609E-05 SEC/SQ.M 1/M				

TEST U89 SEPTEMBER 11, 1969 0118 TO 0148 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 56M  
1600M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
88.6	0	0.	0.	1594
89.6	747	5.621E-07	1.686E-06	1596
90.6	381	2.868E-07	8.605E-07	1597
91.6	466	3.508E-07	1.052E-06	1599
92.6	76	5.772E-08	1.732E-07	1601
93.6	0	0.	0.	1603
94.6	168	1.270E-07	3.810E-07	1604
95.6	395	2.975E-07	8.924E-07	1606
96.6	2273	1.709E-06	5.120E-06	1608
97.6	2868	2.157E-06	6.471E-06	1610
98.6	3860	2.903E-06	8.709E-06	1611
99.6	2868	2.157E-06	6.471E-06	1613
100.6	4158	3.127E-06	9.380E-06	1615
101.6	1621	1.219E-06	3.658E-06	1617
102.6	388	2.922E-07	8.765E-07	1618



103.0 0 0. 0. 1020  
 104.5 0 0. 0. 1622  
 CROSSWIND INTEGRATED= 4.287E-04 1.286E-03  
 SEC/SQ.M 1/M

TEST U89 SEPTEMBER 11, 1969 0118 TO 0148 PST  
 FLUORESCENCE RELEASE FROM ELEVATION OF 56M  
 3200M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 56M

AZIMUTH EXPOSURE E/O EU/O DISTANCE  
 DEGREES GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS  
 X10E+6

B	72.7	127	9.598E-08	2.879E-07	3168
E	73.7	159	1.201E-07	3.602E-07	3170
E	74.7	246	1.851E-07	5.554E-07	3172
	75.7	295	2.221E-07	6.662E-07	3173
3	76.8	102	7.670E-08	2.301E-07	3175
	77.8	0	3.213E-10	9.638E-10	3177
E	78.8	1	1.446E-09	4.337E-09	3179
E	79.8	5	4.177E-09	1.253E-08	3180
E	80.8	2	2.008E-09	6.024E-09	3182
	81.8	327	2.462E-07	7.385E-07	3184
	82.8	231	1.739E-07	5.217E-07	3185
	83.8	0	0.	0.	3187
	84.8	150	1.128E-07	3.385E-07	3189
	85.8	210	1.566E-07	4.759E-07	3191
	86.8	57	4.297E-08	1.289E-07	3192
	87.8	185	1.394E-07	4.181E-07	3194
	88.8	605	4.550E-07	1.365E-06	3196
	89.8	444	3.345E-07	1.004E-06	3198
	90.8	498	3.747E-07	1.124E-06	3199
	91.8	1214	9.128E-07	2.738E-06	3201
5	92.8	460	3.463E-07	1.039E-06	3203
	93.8	1050	7.899E-07	2.370E-06	3205
	94.8	2082	1.566E-06	4.697E-06	3206
	95.8	3226	2.426E-06	7.278E-06	3208
	96.8	3024	2.274E-06	6.823E-06	3210
	97.8	1073	8.068E-07	2.420E-06	3212
	98.8	1095	8.237E-07	2.471E-06	3213
	99.8	669	5.032E-07	1.510E-06	3215
	100.8	509	3.827E-07	1.148E-06	3217
	101.8	25	1.887E-08	5.662E-08	3218
	102.8	0	7.229E-10	2.169E-09	3220
	103.8	2	1.767E-09	5.301E-09	3222
	104.8	1	1.365E-09	4.096E-09	3224
	105.8	5	4.177E-09	1.253E-08	3225
	106.8	0	0.	0.	3227

CROSSWIND INTEGRATED= 7.617E-04 2.285E-03  
 SEC/SQ.M 1/M

TEST U89 SEPTEMBER 11, 1969 0118 TO 0148 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
 3200M ARC SAMPLER HT 1.5M U= 3.6 M/SEC AT 111M

AZIMUTH EXPOSURE E/O EU/O DISTANCE  
 DEGREES GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS  
 X10E+6

	91.8	0	0.	0.	3201
5	92.8	11	3.207E-09	1.155E-08	3203
	93.8	396	1.114E-07	4.012E-07	3205
	94.8	1124	3.159E-07	1.137E-06	3206
	95.8	1579	4.438E-07	1.598E-06	3208
	96.8	1243	3.492E-07	1.257E-06	3210
E	97.8	869	2.441E-07	8.789E-07	3212
	98.8	1544	4.338E-07	1.562E-06	3213
	99.8	329	9.261E-08	3.334E-07	3215
2	100.8	355	9.982E-08	3.594E-07	3217
	101.8	75	2.125E-08	7.649E-08	3218
	102.8	0	0.	0.	3220

CROSSWIND INTEGRATED= 1.165E-04 4.266E-04  
 SEC/SQ.M 1/M

TEST U89 SEPTEMBER 11, 1969 0118 TO 0148 PST  
 FLUORESCENCE RELEASE FROM ELEVATION OF 56M  
 5000M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 56M

AZIMUTH EXPOSURE E/O EU/O DISTANCE  
 DEGREES GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS  
 X10E+6

E	82.0	42	3.190E-08	9.571E-08	4630
	84.0	33	2.555E-08	7.664E-08	4620
5	86.0	139	1.047E-07	3.140E-07	4610
4	88.0	52	3.967E-08	1.190E-07	4610
U	90.0	90	6.793E-08	2.038E-07	4610
	92.0	175	1.322E-07	3.966E-07	4620
	94.0	215	1.619E-07	4.856E-07	4620
4	96.0	327	2.459E-07	7.378E-07	4620
6	98.0	208	1.569E-07	4.708E-07	4660
5	100.0	373	2.805E-07	8.416E-07	4690
	102.0	50	3.826E-08	1.148E-07	4710
4	104.0	0	5.415E-10	1.625E-09	4770
5	106.0	1	1.460E-09	4.379E-09	4810
	108.0	1	8.947E-10	2.684E-09	4870
6	110.0	0	4.709E-10	1.413E-09	4920
	112.0	8	6.710E-09	2.013E-08	4990
	114.0	1	1.460E-09	4.379E-09	5080
	116.0	0	0.	0.	5020
H	118.0	2	1.530E-09	4.591E-09	5100
4	120.0	4	3.179E-09	9.536E-09	5130

CROSSWIND INTEGRATED= 2.111E-04 6.333E-04  
 SEC/SQ.M 1/M

TEST U89 SEPTEMBER 11, 1969 0118 TO 0148 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
 5000M ARC SAMPLER HT 1.5M U= 3.6 M/SEC AT 111M

AZIMUTH EXPOSURE E/O EU/O DISTANCE  
 DEGREES GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS  
 X10E+6

	82.0	1	3.526E-10	1.269E-09	4630
	84.0	2	7.051E-10	2.538E-09	4620
	86.0	0	0.	0.	4610
	88.0	0	0.	0.	4610
1	90.0	0	0.	0.	4610
	92.0	0	0.	0.	4620
	94.0	6	1.763E-09	6.346E-09	4620
	96.0	0	0.	0.	4620
6	98.0	13	3.678E-09	1.396E-08	4660
5	100.0	209	5.876E-08	2.115E-07	4690
	102.0	0	0.	0.	4710

CROSSWIND INTEGRATED= 1.071E-05 3.854E-05  
 SEC/SQ.M 1/M

TEST U89 SEPTEMBER 11, 1969 0118 TU 0148 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
 7000M ARC SAMPLER HT 1.5M U= 3.6 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
C 82.0	0	0.	0.	6490
9 84.0	8	2.350E-09	8.461E-09	6500
5 86.0	93	2.621E-08	9.434E-08	6500
E 88.0	142	4.007E-08	1.443E-07	6480
S 90.0	181	5.089E-08	1.832E-07	6500
3 92.0	0	0.	0.	6490
E 94.0	101	2.844E-08	1.024E-07	6500
E 96.0	285	8.027E-08	2.890E-07	6510
S 98.0	538	1.511E-07	5.441E-07	6520
6 100.0	538	1.512E-07	5.445E-07	6560
4 102.0	383	1.076E-07	3.875E-07	6610
4 104.0	3	9.402E-10	3.385E-09	6650
4 106.0	0	0.	0.	6720

CROSSWIND INTEGRATED= 1.459E-04 SEC/SQ.M 5.251E-04 1/M

TEST U89 SEPTEMBER 11, 1969 0118 TU 0148 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
 12800M ARC SAMPLER HT 1.5M U= 3.6 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
N 91.0	0	0.	0.	12800

CROSSWIND INTEGRATED= 0. SEC/SQ.M 0. 1/M

TOWER DATA FOLLOW....

TEST U89 SEPTEMBER 11, 1969 0118 TU 0148 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
 3200M ARC U= 3.6 M/SEC AT 111M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
N 115.6	.2	0	0.	0.	3200

TEST U89 SEPTEMBER 11, 1969 0118 TU 0148 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 7000M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
C 82.0	0	0.	0.	6490
9 84.0	56	4.262E-08	1.278E-07	6500
5 86.0	192	1.448E-07	4.344E-07	6500
E 88.0	15	1.177E-08	3.532E-08	6480
S 90.0	571	4.297E-07	1.289E-06	6500
3 92.0	8	4.709E-09	1.413E-08	6490
9 94.0	195	1.472E-07	4.415E-07	6500
E 96.0	287	2.164E-07	6.491E-07	6510
S 98.0	419	3.153E-07	9.458E-07	6520
6 100.0	320	2.411E-07	7.233E-07	6560
4 102.0	201	1.519E-07	4.556E-07	6610
4 104.0	1	1.366E-09	4.097E-09	6650
4 106.0	0	3.767E-10	1.130E-09	6720
E 108.0	0	5.100E-10	1.554E-09	6800
S 110.0	1	8.005E-10	2.402E-09	7000
4 112.0	0	5.886E-10	1.766E-09	7300
114.0	0	0.	0.	7210

CROSSWIND INTEGRATED= 3.842E-04 SEC/SQ.M 1.168E-03 1/M

TEST U89 SEPTEMBER 11, 1969 0118 TU 0148 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 12800M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
N 95.0	0	0.	0.	12800

CROSSWIND INTEGRATED= 0. SEC/SQ.M 0. 1/M

TOWER DATA FOLLOW....

TEST U89 SEPTEMBER 11, 1969 0118 TU 0148 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 3200M ARC U= 3.0 M/SEC AT 56M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
N 115.6	.2	0	0.	0.	3200

GROUND LEVEL SAMPLING 400M TO 12400M; SAMPLING ON ONE TOWER AT 3200M. NO ZNS OBSERVED UN 400M, 800M OR 12800M ARCS. ZNS PLUME LIKELY OFF NORTH EDGE OF 7000M AND 12400M ARCS. FLUORESCIN DISPERSAL FOR ONLY 4 MIN. THUS, SIGNIFICANCE OF FLUORESCIN MEASUREMENTS IS MINIMAL.

TEST U90 SEPTEMBER 12, 1969 0223 TO 0253 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
400M ARC SAMPLER HT 1.5M U= 4.1 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
N 78.0	0 0.	0.	0.	400
CROSSWIND INTEGRATED= 0.		SEC/SQ.M	1/M	

TEST U90 SEPTEMBER 12, 1969 0223 TO 0227 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
400M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
B 86.0	7	5.986E-08	2.574E-07	400
90.0	11	8.481E-08	3.647E-07	400
94.0	0	7.483E-09	3.218E-08	400
98.0	15	1.172E-07	5.041E-07	400
102.0	2	2.162E-08	9.295E-08	400
106.0	3	2.993E-08	1.287E-07	400
110.0	3	2.411E-08	1.037E-07	400
9 114.0	14	1.122E-07	4.826E-07	400
118.0	7	5.986E-08	2.574E-07	400
B 122.0	5	3.991E-08	1.716E-07	400
CROSSWIND INTEGRATED=		1.556E-05 SEC/SQ.M	6.689E-05 1/M	

TEST U90 SEPTEMBER 12, 1969 0223 TO 0253 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
800M ARC SAMPLER HT 1.5M U= 4.1 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
N 77.0	0 0.	0.	0.	771
CROSSWIND INTEGRATED= 0.		SEC/SQ.M	1/M	

TEST U90 SEPTEMBER 12, 1969 0223 TO 0227 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
800M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
97.1	5	3.857E-08	1.659E-07	806
99.1	0	0.	0.	809
101.1	0	0.	0.	813
103.0	2	2.204E-08	9.478E-08	816
L 105.0	8	6.612E-08	2.843E-07	820
106.9	27	2.149E-07	9.241E-07	823
108.8	0	0.	0.	826
110.7	0	5.510E-09	2.369E-08	829
E 112.6	7	5.510E-08	2.369E-07	833
114.5	22	1.736E-07	7.464E-07	836
116.4	4	3.306E-08	1.422E-07	839
118.3	0	0.	0.	842
120.2	5	3.857E-08	1.659E-07	845
122.1	13	1.075E-07	4.620E-07	848
B 124.0	1	1.107E-08	4.739E-08	851
CROSSWIND INTEGRATED=		2.123E-05 SEC/SQ.M	9.127E-05 1/M	

TEST U90 SEPTEMBER 12, 1969 0223 TO 0253 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
1600M ARC SAMPLER HT 1.5M U= 4.1 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
97.6	0	0.	0.	1510
99.6	3	8.123E-10	3.330E-09	1611
99.6	18	4.874E-09	1.998E-08	1613
100.6	0	0.	0.	1515
101.6	0	0.	0.	1617
102.6	210	5.686E-08	2.331E-07	1618
103.6	0	0.	0.	1529
104.5	748	2.023E-07	8.293E-07	1622
105.5	78	2.112E-08	8.659E-08	1623
106.5	456	1.235E-07	5.062E-07	1625
107.5	222	6.011E-08	2.469E-07	1627
108.5	474	1.283E-07	5.266E-07	1528
109.5	315	8.529E-08	3.497E-07	1630
110.4	916	2.474E-07	1.016E-06	1632
111.4	556	1.503E-07	6.161E-07	1533
112.4	237	6.417E-08	2.631E-07	1635
113.4	0	0.	0.	1637
CROSSWIND INTEGRATED=		3.178E-05 SEC/SQ.M	1.303E-04 1/M	

TEST U90 SEPTEMBER 12, 1969 0223 TO 0227 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
1600M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
B 98.6	9	7.086E-08	3.047E-07	1611
99.6	13	1.036E-07	4.453E-07	1613
100.6	4	3.089E-08	1.328E-07	1615
101.6	0	7.268E-09	3.125E-08	1617
102.6	18	1.417E-07	6.094E-07	1618
103.6	7	5.996E-08	2.578E-07	1620
104.5	5	4.542E-08	1.953E-07	1622
105.5	3	2.725E-08	1.172E-07	1623
106.5	5	3.497E-08	1.719E-07	1625
107.5	4	3.452E-08	1.464E-07	1627
108.5	0	0.	0.	1628
109.5	0	0.	0.	1630
110.4	1	1.454E-08	6.250E-08	1632
111.4	1	9.085E-09	3.906E-08	1633
112.4	0	1.817E-09	7.813E-09	1635
113.4	0	7.268E-09	3.125E-08	1637
114.4	96	7.450E-07	3.203E-06	1638
115.3	2047	1.575E-05	6.774E-05	1640
116.3	446	3.434E-06	1.477E-05	1641
117.3	125	9.630E-07	4.141E-06	1643
118.2	14	1.145E-07	4.922E-07	1644
119.2	0	0.	0.	1646
CROSSWIND INTEGRATED=		5.929E-04 SEC/SQ.M	2.550E-03 1/M	

TEST U90 SEPTEMBER 12, 1969 0223 TO 0253 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
3200M ARC SAMPLER HT 1.5M U= 4.1 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
89.8	0	0.	0.	3198
90.8	0	0.	0.	3199
91.8	81	2.199E-08	9.014E-08	3201
92.8	221	5.479E-08	2.451E-07	3203
93.8	42	1.157E-08	4.744E-08	3205
94.8	179	3.510E-08	1.439E-07	3206
95.8	0	0.	0.	3208
H 96.8	209	5.670E-08	2.325E-07	3210
H 97.8	256	6.943E-08	2.847E-07	3212
H 98.8	138	3.742E-08	1.534E-07	3213
99.8	124	3.355E-08	1.376E-07	3215
100.8	346	9.373E-08	3.843E-07	3217
E 101.8	368	9.952E-08	4.080E-07	3218
102.8	406	1.099E-07	4.507E-07	3220
103.8	498	1.345E-07	5.519E-07	3222
104.8	402	1.088E-07	4.460E-07	3224
105.8	1805	4.879E-07	2.001E-06	3225
106.8	1391	3.761E-07	1.542E-06	3227
107.8	1608	4.347E-07	1.782E-06	3229
3 108.8	204	5.516E-08	2.262E-07	3230
109.7	2022	5.466E-07	2.241E-06	3232
110.7	2675	7.232E-07	2.909E-06	3233
111.7	2564	6.931E-07	2.842E-06	3235
112.7	1073	2.901E-07	1.189E-06	3237
113.7	154	4.166E-08	1.708E-07	3238
114.6	214	5.786E-08	2.372E-07	3240
2 115.6	134	3.626E-08	1.447E-07	3241
116.6	15	4.243E-09	1.740E-08	3243
117.6	0	0.	0.	3245

CROSSWIND INTEGRATED= 2.583E-04 SEC/SQ.M 1.059E-03 1/M

TEST U90 SEPTEMBER 12, 1969 0223 TO 0253 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
5000M ARC SAMPLER HT 1.5M U= 4.1 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
B 82.0	36	1.029E-08	4.219E-08	4630
84.0	92	2.488E-08	1.020E-07	4620
86.0	70	1.911E-08	7.835E-08	4510
88.0	120	3.245E-08	1.331E-07	4610
90.0	103	2.733E-08	1.145E-07	4510
3 92.0	79	2.137E-08	8.762E-08	4520
3 94.0	458	1.239E-07	5.081E-07	4620
3 96.0	33	9.046E-09	3.707E-08	4620
2 98.0	23	6.219E-09	2.550E-08	4550
C 100.0	759	2.052E-07	8.414E-07	4690
6 102.0	597	1.615E-07	6.620E-07	4710
4 104.0	43	1.176E-08	4.821E-08	4770
4 106.0	143	3.878E-08	1.590E-07	4410
4 108.0	34	9.272E-09	3.802E-08	4670
E 110.0	28	7.689E-09	3.152E-08	4920
6 112.0	170	4.613E-08	1.891E-07	4990
P 114.0	12	3.279E-09	1.344E-08	5080
4 116.0	0	0.	0.	5020

CROSSWIND INTEGRATED= 1.245E-04 SEC/SQ.M 5.104E-04 1/M

TEST U90 SEPTEMBER 12, 1969 0223 TO 0227 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 56M  
3200M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
B 89.8	7	5.834E-08	2.509E-07	3198
90.8	3	2.629E-08	1.131E-07	3199
91.8	9	7.067E-08	3.039E-07	3201
92.8	5	4.355E-08	1.873E-07	3203
93.8	4	3.616E-08	1.555E-07	3205
94.8	6	5.095E-08	2.191E-07	3206
95.8	6	4.848E-08	2.085E-07	3208
H 96.8	1	1.315E-08	5.673E-08	3210
H 97.8	13	1.027E-07	4.417E-07	3212
H 98.8	2	2.219E-08	9.540E-08	3213
99.8	5	4.602E-08	1.979E-07	3215
100.8	5	3.862E-08	1.661E-07	3217
101.8	4	3.123E-08	1.343E-07	3218
102.8	20	1.561E-07	6.713E-07	3220
103.8	5	4.602E-08	1.979E-07	3222
104.8	5	3.862E-08	1.661E-07	3224
105.8	7	5.588E-08	2.403E-07	3225
106.8	8	6.574E-08	2.827E-07	3227
107.8	7	5.588E-08	2.403E-07	3229
3 108.8	8	6.327E-08	2.721E-07	3230
109.7	7	6.081E-08	2.615E-07	3232
110.7	8	6.820E-08	2.933E-07	3233
111.7	19	1.496E-07	6.431E-07	3235
112.7	2	1.890E-08	8.127E-08	3237
113.7	53	4.109E-07	1.767E-06	3238
114.6	45	3.533E-07	1.519E-06	3240
115.6	111	8.546E-07	3.675E-06	3241
C 116.6	0	0.	0.	3243
C 117.6	77	5.999E-07	2.579E-06	3245
C 118.6	184	1.422E-06	6.113E-06	3246
L 119.5	0	0.	0.	3248

CROSSWIND INTEGRATED= 2.763E-04 SEC/SQ.M 1.188E-03 1/M

TEST U90 SEPTEMBER 12, 1969 0223 TO 0227 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 56M  
5000M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
B 82.0	7	5.781E-08	2.486E-07	4630
84.0	9	7.226E-08	3.107E-07	4620
86.0	7	6.022E-08	2.589E-07	4610
88.0	10	8.190E-08	3.522E-07	4610
90.0	20	1.542E-07	6.629E-07	4610
92.0	6	4.842E-08	2.082E-07	4620
94.0	14	1.084E-07	4.661E-07	4620
96.0	5	4.336E-08	1.864E-07	4620
98.0	7	5.781E-08	2.486E-07	4660
100.0	16	1.301E-07	5.593E-07	4690
6 102.0	7	5.540E-08	2.382E-07	4710
4 104.0	3	2.891E-08	1.243E-07	4770
4 106.0	20	1.590E-07	6.836E-07	4810
4 108.0	21	1.638E-07	7.043E-07	4870
9 110.0	52	4.047E-07	1.740E-06	4920
6 112.0	99	7.636E-07	3.283E-06	4990
P 114.0	111	8.599E-07	3.698E-06	5080
4 116.0	80	6.191E-07	2.662E-06	5020
4 118.0	121	9.322E-07	4.008E-06	5100
4 120.0	41	3.180E-07	1.367E-06	5130
4 122.0	5	4.336E-08	1.864E-07	4830
E 124.0	2	2.168E-08	9.322E-08	4660
4 126.0	2	2.168E-08	9.322E-08	4770
6 128.0	5	4.577E-08	1.968E-07	4900
6 130.0	9	6.985E-08	3.004E-07	4970

CROSSWIND INTEGRATED= 9.207E-04 SEC/SQ.M 3.959E-03 1/M

TEST U90 SEPTEMBER 12, 1969 0223 TO 0253 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
700M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
6 76.0	16	4.523E-09	1.854E-08	6280
1 78.0	0	0.	0.	6300
1 80.0	0	0.	0.	6400
5 82.0	17	4.636E-09	1.901E-08	6490
0 84.0	0	0.	0.	6500
6 86.0	0	0.	0.	6500
6 88.0	0	0.	0.	6480
0 90.0	3	1.018E-09	4.172E-09	6500
92.0	4	1.131E-09	4.636E-09	6490
94.0	0	2.261E-10	9.272E-10	6510
6 96.0	0	2.261E-10	9.272E-10	6510
0 98.0	0	0.	0.	6520
9 100.0	1	3.392E-10	1.391E-09	6560
6 102.0	83	2.261E-08	9.272E-08	6610
5 104.0	0	0.	0.	6550
7 106.0	1	4.523E-10	1.854E-09	6720
0 108.0	0	0.	0.	6800

CROSSWIND INTEGRATED= 8.033E-06 SEC/50.M  
3.294E-05 1/M

TEST U90 SEPTEMBER 12, 1969 0223 TO 0253 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
1280M ARC SAMPLER HT 1.5M U= 4.1 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
1 91.0	0	0.	0.	12800

CROSSWIND INTEGRATED= 0. SEC/50.M  
0. 1/M

TOWER DATA FOLLOW...

TEST U90 SEPTEMBER 12, 1969 0223 TO 0253 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
3200M ARC U= 4.1 M/SEC AT 111M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
115.6	.2	57	1.427E-08	5.851E-08	3200
115.6	.4	62	1.697E-08	6.958E-08	3200
115.6	.8	166	5.053E-08	2.072E-07	3200
2 115.6	1.5	134	3.670E-08	1.467E-07	3200
115.6	1.6	88	2.391E-08	9.805E-08	3200
115.6	3.1	106	2.865E-08	1.175E-07	3200
115.6	6.2	165	4.442E-08	1.838E-07	3200
115.6	9.3	590	1.447E-07	6.096E-07	3200
115.6	12.4	556	1.505E-07	6.172E-07	3200
115.6	15.5	1670	4.514E-07	1.851E-06	3200
115.6	18.6	1607	4.344E-07	1.761E-06	3200
115.6	21.7	432	2.250E-07	9.227E-07	3200
115.6	24.8	862	2.332E-07	9.501E-07	3200
115.6	31.0	1276	3.451E-07	1.415E-06	3200
115.6	37.2	1270	3.435E-07	1.408E-06	3200
2 115.6	43.4	5903	1.596E-06	6.542E-06	3200
2 115.6	49.6	8167	2.207E-06	9.050E-06	3200
2 115.6	55.8	5478	1.481E-06	6.070E-06	3200
2 115.6	62.0	4813	1.301E-06	5.334E-06	3200

TEST U90 SEPTEMBER 12, 1969 0223 TO 0227 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
700M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
6 76.0	3	2.674E-08	1.150E-07	6280
1 78.0	1	1.445E-08	6.215E-08	6300
1 80.0	2	1.734E-08	7.456E-08	6400
5 82.0	3	2.674E-08	1.150E-07	6490
0 84.0	2	2.096E-08	9.011E-08	6500
6 86.0	8	6.263E-08	2.693E-07	6500
6 88.0	0	7.226E-09	3.107E-08	6480
0 90.0	3	2.312E-08	9.943E-08	6500
92.0	5	4.095E-08	1.761E-07	6490
94.0	1	7.949E-09	3.416E-08	6500
6 96.0	4	3.469E-08	1.492E-07	6510
0 98.0	1	1.518E-08	6.525E-08	6520
9 100.0	4	3.107E-08	1.336E-07	6560
6 102.0	3	2.529E-08	1.088E-07	6610
5 104.0	5	3.902E-08	1.678E-07	6650
7 106.0	3	2.661E-08	1.119E-07	6720
0 108.0	2	1.867E-08	7.768E-08	6800
8 110.0	4	3.396E-08	1.460E-07	7000

CROSSWIND INTEGRATED= 1.077E-04 SEC/50.M  
4.631E-04 1/M

TEST U90 SEPTEMBER 12, 1969 0223 TO 0227 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
1280M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
6 91.0	11	8.672E-08	3.729E-07	12800
5 92.0	3	2.866E-08	1.233E-07	12800
0 94.0	12	9.394E-08	4.040E-07	12800
1 94.0	16	1.301E-07	5.593E-07	12800
7 95.0	10	7.74E-08	3.314E-07	12800
0 96.0	6	4.818E-08	2.072E-07	12800
1 97.0	4	3.131E-08	1.347E-07	12800
0 98.0	1	1.132E-08	4.868E-08	12800

CROSSWIND INTEGRATED= 1.133E-04 SEC/50.M  
4.873E-04 1/M

TOWER DATA FOLLOW...

TEST U90 SEPTEMBER 12, 1969 0223 TO 0227 PST  
FLUORESCIN RELEASE FROM ELEVATION OF 56M  
3200M ARC U= 4.3 M/SEC AT 56M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
115.6	.2	251	1.934E-06	8.318E-06	3200
115.6	.4	11	8.792E-08	3.781E-07	3200
115.6	.8	69	5.366E-07	2.307E-06	3200
115.6	1.5	111	8.546E-07	3.675E-06	3200
115.6	1.6	164	1.417E-06	6.092E-06	3200
115.6	3.1	211	1.674E-06	6.982E-06	3200
115.6	6.2	556	4.241E-06	1.841E-05	3200
115.6	9.3	480	3.694E-06	1.589E-05	3200
115.6	12.4	493	3.798E-06	1.633E-05	3200
115.6	15.5	623	4.799E-06	2.063E-05	3200
115.6	18.6	803	6.179E-06	2.657E-05	3200
115.6	21.7	1251	9.630E-06	4.141E-05	3200
115.6	24.8	1065	7.732E-06	3.325E-05	3200
115.6	31.0	325	2.564E-06	1.077E-05	3200
115.6	37.2	223	1.717E-06	7.385E-06	3200
2 115.6	43.4	33	2.547E-07	1.095E-06	3200
2 115.6	49.6	0	0.	0.	3200
2 115.6	55.8	0	0.	0.	3200
0 115.6	62.0	0	4.930E-09	2.120E-08	3200

CROSSWIND SAMPLING 400M TO 1200M. DNL TOWER SAMPLING ONLY AT 3200M, 115.6 DEG.  
 NO ZINC SULFIDE OBSERVED ON 400M ARC. HEAVY DUST ON 1200M LEAVES UNCERTAINTIES IN ASSAY OF ZINC SULFIDE.  
 LIGHT WIND DIRECTION SWLAK (BACKING) ABOVE 30M ELEVATION.

TEST U91 SEPTEMBER 24, 1969 0144 TO 0214 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
 400M ARC SAMPLER HT 1.5M U= 4.1 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SFC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
A 78.0	0	0.	0.	400
CROSSWIND INTEGRATED= 0. SFC/SQ.M 1/M				

TEST U91 SEPTEMBER 24, 1969 0144 TO 0214 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 400M ARC SAMPLER HT 1.5M U= 3.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
106.0	0	0.	0.	400
110.0	A	5.765E-09	2.191E-08	400
114.0	144	1.201E-07	4.563E-07	400
118.0	77	6.422E-08	2.440E-07	400
122.0	33	2.819E-08	1.071E-07	400
126.0	173	1.444E-07	5.487E-07	400
130.0	241	2.011E-07	7.643E-07	400
134.0	754	6.290E-07	2.390E-06	400
138.0	19	1.603E-08	6.092E-08	400
142.0	7	6.035E-09	2.293E-08	400
146.0	0	3.333E-10	1.266E-09	400
150.0	0	0.	0.	400
B 154.0	1	1.261E-09	4.792E-09	400
CROSSWIND INTEGRATED= 3.397E-05 SEC/SQ.M 1/M				

TEST U91 SEPTEMBER 24, 1969 0144 TO 0214 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
 400M ARC SAMPLER HT 1.5M U= 4.1 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SFC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
110.7	0	0.	0.	829
112.6	50	1.362E-08	5.585E-08	833
114.5	423	1.152E-07	4.722E-07	836
116.4	319	8.669E-08	3.554E-07	839
118.3	966	2.625E-07	1.076E-06	842
120.2	733	1.994E-07	8.175E-07	845
122.1	815	2.217E-07	9.089E-07	848
124.0	970	2.638E-07	1.032E-06	851
125.8	1262	3.430E-07	1.406E-06	854
127.7	2903	7.989E-07	3.234E-06	857
129.5	3354	9.115E-07	3.737E-06	859
131.4	2611	7.096E-07	2.909E-06	862
133.2	701	1.907E-07	7.819E-07	865
135.0	1112	3.022E-07	1.239E-06	867
136.8	1184	3.220E-07	1.320E-06	869
138.7	888	2.615E-07	9.901E-07	872
140.6	173	4.736E-08	1.929E-07	874
142.4	1139	3.096E-07	1.269E-06	876
144.2	1677	4.557E-07	1.869E-06	878
146.0	979	2.526E-07	1.036E-06	880
147.8	683	1.458E-07	7.616E-07	882
149.6	2192	5.457E-07	2.442E-06	884
151.4	200	5.449E-08	2.234E-07	886
153.2	0	0.	0.	888
CROSSWIND INTEGRATED= 1.907E-04 SEC/SQ.M 7.820E-04 1/M				

TEST U91 SEPTEMBER 24, 1969 0144 TO 0214 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 400M ARC SAMPLER HT 1.5M U= 3.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
110.7	0	0.	0.	829
112.6	0	2.985E-11	1.134E-10	833
114.5	190	1.591E-07	6.045E-07	836
116.4	412	3.441E-07	1.308E-06	839
118.3	996	8.307E-07	3.156E-06	842
120.2	563	4.695E-07	1.734E-06	845
122.1	423	3.531E-07	1.342E-06	848
124.0	552	4.605E-07	1.750E-06	851
125.8	996	8.307E-07	3.156E-06	854
127.7	1462	1.219E-06	4.631E-06	857
129.5	1175	9.799E-07	3.724E-06	859
131.4	1462	1.219E-06	4.631E-06	862
133.2	1392	1.161E-06	4.411E-06	865
135.0	2024	1.687E-06	6.412E-06	867
136.8	2701	2.251E-06	8.555E-06	870
138.7	2024	1.687E-06	6.412E-06	872
140.6	3679	3.066E-06	1.165E-05	874
142.4	3152	2.627E-06	9.984E-06	876
144.2	1748	1.457E-06	5.538E-06	878
146.0	2071	1.726E-06	6.539E-06	880
147.8	703	5.859E-07	2.226E-06	882
149.6	380	3.173E-07	1.206E-06	884
151.4	455	3.800E-07	1.444E-06	886
153.2	423	3.531E-07	1.342E-06	888
155.0	31	2.627E-06	9.981E-06	889
156.8	10	6.656E-09	3.289E-08	890
158.6	44	3.701E-08	1.406E-07	892
160.4	16	1.552E-08	5.898E-08	893
162.2	0	3.880E-10	1.474E-09	894
CROSSWIND INTEGRATED= 6.760E-04 SEC/SQ.M 2.569E-03 1/M				

TEST U91 SEPTEMBER 24, 1969 0144 TO 0214 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
 1600M ARC SAMPLER HT 1.5M U= 4.1 M/SEC AT 111M

AZIMUTH EXPOSURE E/O EU/O DISTANCE  
 DEGREES GM-SEC/CM SEC/CM 1/SQ.M METERS  
 X10E+6

101.6	0	0.	0.	1617
102.6	6	1.633E-09	6.697E-09	1518
103.6	0	0.	0.	1620
104.5	0	0.	0.	1622
105.5	19	4.900E-09	2.009E-08	1623
106.5	111	3.027E-08	1.239E-07	1625
107.5	102	2.777E-08	1.139E-07	1527
108.5	60	1.633E-08	6.697E-08	1628
109.5	24	6.534E-09	2.679E-08	1630
110.4	42	1.143E-08	4.688E-08	1632
111.4	69	1.878E-08	7.732E-08	1533
112.4	228	1.6207E-08	2.545E-07	1635
113.4	282	7.677E-08	3.148E-07	1537
114.4	486	1.323E-07	5.425E-07	1638
115.3	598	1.625E-07	6.664E-07	1540
116.3	1166	3.169E-07	1.294E-06	1641
117.3	1304	3.545E-07	1.453E-06	1543
118.2	1511	4.108E-07	1.684E-06	1644
119.2	1830	4.974E-07	2.039E-06	1546
120.2	2197	5.970E-07	2.448E-06	1647
121.2	4012	1.090E-06	4.470E-06	1549
122.1	3949	1.773E-06	4.400E-06	1650
123.1	2067	5.619E-07	2.304E-06	1552
124.1	3257	1.241E-06	3.630E-06	1653
125.0	4661	1.267E-06	5.194E-06	1655
126.0	4436	1.205E-06	4.942E-06	1556
126.9	1577	4.238E-07	1.758E-06	1658
127.8	2269	6.164E-07	2.523E-06	1659
128.8	4246	1.154E-06	4.731E-06	1560
129.7	5602	1.522E-06	6.242E-06	1662
130.6	7558	2.054E-06	8.422E-06	1563
131.5	4565	1.241E-06	5.086E-06	1664
132.5	2994	7.955E-07	3.225E-06	1665
133.5	4598	1.250E-06	5.123E-06	1557
134.4	5740	1.560E-06	6.396E-06	1668
135.4	3143	8.543E-07	3.503E-06	1569
136.4	3077	8.363E-07	3.429E-06	1670
137.3	2750	7.473E-07	3.064E-06	1572
138.3	2437	6.624E-07	2.716E-06	1673
139.3	2620	7.122E-07	2.920E-06	1574
140.2	2786	7.571E-07	3.104E-06	1675
141.2	1571	4.271E-07	1.751E-06	1576
142.2	2001	5.439E-07	2.230E-06	1577
143.1	2404	6.534E-07	2.679E-06	1678
144.1	859	2.336E-07	9.577E-07	1679
145.1	904	2.458E-07	1.003E-06	1580
146.0	910	2.475E-07	1.015E-06	1681
146.9	631	1.715E-07	7.032E-07	1682
147.9	730	1.985E-07	8.137E-07	1583
148.8	763	2.074E-07	8.505E-07	1684
149.7	700	1.903E-07	7.802E-07	1685
150.7	285	7.759E-08	3.131E-07	1586
151.6	252	6.860E-08	2.813E-07	1687
152.6	159	4.329E-08	1.775E-07	1688
153.5	180	4.900E-08	2.009E-07	1688
154.5	261	7.105E-08	2.913E-07	1689
155.4	733	1.993E-07	8.170E-07	1590

CROSSWIND INTEGRATED= 7.625E-04 3.126E-03  
 SEC/SQ.M 1/M

TEST U91 SEPTEMBER 24, 1969 0144 TO 0214 PST  
 FLUORESCENCE RELEASE FROM ELEVATION OF 56M  
 1600M ARC SAMPLER HT 1.5M U= 3.8 M/SEC AT 56M

AZIMUTH EXPOSURE E/O EU/O DISTANCE  
 DEGREES GM-SEC/CM SEC/CM 1/SQ.M METERS  
 X10E+6

111.4	0	0.	0.	1633
112.4	0	0.	0.	1635
113.4	3	3.149E-09	1.197E-08	1637
114.4	72	6.004E-08	2.281E-07	1638
115.3	50	4.193E-08	1.593E-07	1640
116.3	69	5.807E-08	2.207E-07	1641
117.3	90	7.578E-08	2.890E-07	1643
118.2	138	1.152E-07	4.376E-07	1644
119.2	201	1.693E-07	6.395E-07	1646
120.2	563	4.695E-07	1.734E-06	1647
121.2	799	6.663E-07	2.532E-06	1649
122.1	1130	9.419E-07	3.577E-06	1650
123.1	1366	1.139E-06	4.327E-06	1652
124.1	1342	1.119E-06	4.252E-06	1653
125.0	1484	1.237E-06	4.701E-06	1655
126.0	1697	1.414E-06	5.374E-06	1656
126.9	1579	1.316E-06	5.000E-06	1658
127.8	2334	1.946E-06	7.394E-06	1659
128.8	2689	2.241E-06	8.516E-06	1660
129.7	2334	1.946E-06	7.394E-06	1662
130.6	2760	2.300E-06	8.740E-06	1663
131.5	3185	2.654E-06	1.009E-05	1664
132.5	2476	2.064E-06	7.843E-06	1665
133.5	2526	2.105E-06	8.000E-06	1667
134.4	2774	2.312E-06	8.785E-06	1668
135.4	3022	2.519E-06	9.571E-06	1669
136.4	3270	2.725E-06	1.036E-05	1670
137.3	3022	2.519E-06	9.571E-06	1672
138.3	3071	2.560E-06	9.728E-06	1673
139.3	2724	2.271E-06	8.628E-06	1674
140.2	2675	2.229E-06	8.471E-06	1675
141.2	2575	2.147E-06	8.157E-06	1676
142.2	2476	2.064E-06	7.843E-06	1677
143.1	2923	2.436E-06	9.256E-06	1678
144.1	2476	2.064E-06	7.843E-06	1679
145.1	2278	1.899E-06	7.214E-06	1680
146.0	2327	1.940E-06	7.371E-06	1681
146.9	2030	1.692E-06	6.429E-06	1682
147.9	2079	1.733E-06	6.586E-06	1683
148.8	1980	1.650E-06	6.272E-06	1684
149.7	1434	1.196E-06	4.544E-06	1685
150.7	1862	1.552E-06	5.898E-06	1686
151.6	1862	1.552E-06	5.898E-06	1687
152.6	1413	1.178E-06	4.477E-06	1688
153.5	1366	1.139E-06	4.327E-06	1688
154.5	634	5.285E-07	2.008E-06	1689
155.4	386	3.218E-07	1.223E-06	1690
157.0	185	1.545E-07	5.872E-07	1691
158.0	102	8.562E-08	3.254E-07	1692
159.0	48	4.035E-08	1.533E-07	1692
160.0	20	1.673E-08	6.358E-08	1693
161.0	7	6.496E-09	2.468E-08	1694
162.0	2	1.968E-09	7.480E-09	1694
163.0	0	7.874E-10	2.992E-09	1695
164.0	0	0.	0.	1695

CROSSWIND INTEGRATED= 1.856E-03 7.054E-03  
 SEC/SQ.M 1/M

TEST U91 SEPTEMBER 24, 1969 0144 TU 0214 PST  
 71NC SULFIDE RELEASE FROM ELEVATION OF 111M  
 3200M ARC SAMPLER HT 1.5M W= 4.1 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	EAO SEC/CU.M	EJ/Q 1/SQ.M	DISTANCE METERS
100.8	0	0.	0.	3217
101.8	55	1.517E-06	6.201E-08	3218
102.8	5	1.551E-09	6.350E-09	3220
103.8	141	3.839E-08	1.574E-07	3222
104.8	49	1.757E-08	5.569E-08	3224
105.8	184	5.003E-08	2.051E-07	3225
106.8	211	5.749E-08	2.353E-07	3227
107.8	419	1.147E-07	4.675E-07	3229
108.8	316	8.610E-08	3.530E-07	3230
109.7	660	1.796E-07	7.362E-07	3232
2 110.7	432	1.175E-07	4.818E-07	3233
111.7	331	8.997E-08	3.639E-07	3235
112.7	603	1.640E-07	6.726E-07	3237
113.7	924	2.513E-07	1.030E-06	3238
114.6	1360	3.696E-07	1.515E-06	3240
E 115.6	1291	3.483E-07	1.428E-06	3241
116.6	2367	6.434E-07	2.638E-06	3243
117.6	2349	5.384E-07	2.617E-06	3245
118.6	3192	8.676E-07	3.557E-06	3246
119.5	3361	9.133E-07	3.745E-06	3248
120.5	3459	9.401E-07	3.854E-06	3249
121.5	2450	6.659E-07	2.733E-06	3251
122.4	3860	1.047E-06	4.501E-06	3252
123.4	3243	8.815E-07	3.614E-06	3253
124.4	2401	7.613E-07	3.121E-06	3255
125.4	2694	7.327E-07	3.002E-06	3256
F 126.3	2414	6.567E-07	2.690E-06	3258
127.3	2140	5.926E-07	2.450E-06	3259
128.3	1933	5.255E-07	2.155E-06	3261
129.3	1575	4.287E-07	1.755E-06	3262
E 130.3	1400	3.805E-07	1.560E-06	3263
131.2	1235	3.359E-07	1.377E-06	3264
132.2	1093	2.971E-07	1.218E-06	3266
133.2	1342	3.649E-07	1.496E-06	3267
134.2	1277	3.471E-07	1.423E-06	3266
135.2	627	1.706E-07	6.996E-07	3270
136.2	747	2.037E-07	8.332E-07	3271
137.1	717	1.951E-07	7.998E-07	3272
138.1	569	1.547E-07	6.344E-07	3273
139.1	401	1.990E-07	4.468E-07	3274
140.1	510	1.388E-07	5.692E-07	3276
141.1	646	1.757E-07	7.205E-07	3277
142.0	375	1.020E-07	4.182E-07	3278
143.0	295	8.028E-08	3.291E-07	3279
4 144.0	274	6.037E-08	2.496E-07	3280
145.0	355	9.657E-08	3.959E-07	3281
146.0	165	4.499E-08	1.844E-07	3282
146.9	138	3.762E-08	1.542E-07	3283
147.9	243	6.757E-08	2.733E-07	3284
148.9	242	6.593E-08	2.703E-07	3285
149.9	105	2.870E-08	1.177E-07	3286
150.9	169	4.615E-08	1.892E-07	3287
151.8	265	7.213E-08	2.958E-07	3287
152.8	149	4.072E-08	1.670E-07	3288
B 153.8	206	5.623E-08	2.306E-07	3289

CROSSWIND INTEGRATED= 8.402E-04  
 SEC/SQ.M 3.609E-03  
 1/M

TEST U91 SEPTEMBER 24, 1969 0144 TU 0214 PST  
 FLUOROSCEIN RELEASE FROM ELEVATION OF 50M  
 3200M ARC SAMPLER HT 1.5M W= 3.8 M/SEC AT 50M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	L/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
101.8	1	1.607E-09	6.089E-09	3218
102.8	1	9.792E-10	3.721E-09	3220
103.8	1	9.792E-10	3.721E-09	3222
104.8	1	1.513E-09	5.751E-09	3224
105.8	0	5.074E-10	1.928E-09	3225
106.8	1	9.792E-10	3.721E-09	3227
107.8	2	1.809E-09	7.104E-09	3229
108.8	3	2.582E-09	9.810E-09	3230
109.7	2	2.493E-09	9.472E-09	3232
110.7	7	5.875E-09	2.233E-08	3233
111.7	4	3.561E-09	1.353E-08	3235
112.7	7	6.142E-09	2.334E-08	3237
113.7	59	4.941E-08	1.877E-07	3238
114.6	107	8.946E-08	3.400E-07	3240
5 115.6	197	1.642E-07	6.241E-07	3241
116.6	206	2.390E-07	9.003E-07	3243
117.6	329	2.746E-07	1.044E-06	3245
118.6	308	2.568E-07	9.759E-07	3246
119.5	511	4.260E-07	1.617E-06	3248
120.5	788	6.574E-07	2.490E-06	3249
121.5	783	6.530E-07	2.481E-06	3251
122.4	940	7.838E-07	2.978E-06	3252
123.4	1007	8.399E-07	3.192E-06	3253
124.4	1209	1.008E-06	3.831E-06	3255
125.4	1321	1.102E-06	4.186E-06	3256
E 126.3	1254	1.046E-06	3.973E-06	3258
127.3	1187	9.894E-07	3.760E-06	3259
128.3	1232	1.027E-06	3.902E-06	3261
129.3	1052	8.773E-07	3.334E-06	3262
5 130.3	626	5.221E-07	1.984E-06	3263
131.2	1030	8.566E-07	3.263E-06	3264
132.2	985	8.212E-07	3.121E-06	3266
133.2	1052	8.773E-07	3.334E-06	3267
134.2	1187	9.894E-07	3.760E-06	3268
135.2	985	8.212E-07	3.121E-06	3270
136.2	1187	9.894E-07	3.760E-06	3271
137.1	1097	9.147E-07	3.476E-06	3272
138.1	1097	9.147E-07	3.476E-06	3273
139.1	1344	1.120E-06	4.257E-06	3274
140.1	1366	1.139E-06	4.320E-06	3276
141.1	1120	9.334E-07	3.547E-06	3277
142.0	1120	9.334E-07	3.547E-06	3278
143.0	963	8.025E-07	3.050E-06	3279
4 144.0	1075	8.490E-07	3.405E-06	3280
145.0	918	7.651E-07	2.907E-06	3281
146.0	738	6.156E-07	2.339E-06	3282
146.9	511	4.260E-07	1.617E-06	3283
147.9	500	4.171E-07	1.585E-06	3284
148.9	297	2.479E-07	9.421E-07	3285
149.9	235	1.963E-07	7.459E-07	3286
150.9	225	1.883E-07	7.154E-07	3287
151.8	213	1.776E-07	6.749E-07	3287
152.8	213	1.776E-07	6.749E-07	3288
H 153.8	174	1.455E-07	5.531E-07	3289

CROSSWIND INTEGRATED= 1.531E-03  
 SEC/SQ.M 5.818E-03  
 1/M



TEST U91 SEPTEMBER 24, 1969 0144 TU 0214 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
 5000M ARC SAMPLER HT 1.5M U= 4.1 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
4 100.0	0	0.	0.	4690
Z 102.0	0	0.	0.	4710
C 104.0	0	0.	0.	4770
9 106.0	10	2.956E-09	1.212E-08	4910
E 108.0	64	1.751E-08	7.178E-08	4870
5 110.0	99	2.706E-08	1.109E-07	4920
112.0	521	1.418E-07	5.812E-07	4990
114.0	166	4.525E-08	1.855E-07	5080
116.0	607	1.651E-07	6.769E-07	5020
5 118.0	498	1.354E-07	5.551E-07	5100
E 120.0	622	1.693E-07	6.940E-07	5130
6 122.0	711	1.934E-07	7.929E-07	4830
E 124.0	300	8.163E-08	3.347E-07	4660
E 126.0	194	5.285E-08	2.157E-07	4770
E 128.0	160	4.366E-08	1.790E-07	4900
9 130.0	145	3.945E-08	1.617E-07	4970
4 132.0	202	5.491E-08	2.251E-07	4980
7 134.0	121	3.308E-08	1.350E-07	4990
E 136.0	91	2.490E-08	1.071E-07	5000
5 138.0	88	2.379E-08	9.835E-08	5020
E 140.0	41	1.137E-08	4.661E-08	5060
E 142.0	36	1.600E-08	6.102E-08	5090
E 144.0	29	7.958E-09	3.263E-08	5130
6 146.0	22	6.139E-09	2.517E-08	>190
E 148.0	26	7.162E-09	2.937E-08	5240
R 150.0	27	7.390E-09	3.030E-08	5300

CROSSWIND INTEGRATED= 2.200E-04 SEC/SQ.M  
 9.267E-04 1/M

TEST U91 SEPTEMBER 24, 1969 0144 TU 0214 PST  
 FLUORESCCEIN RELEASE FROM ELEVATION OF 56M  
 5000M ARC SAMPLER HT 1.5M U= 3.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
9 106.0	0	1.253E-10	4.760E-10	4810
E 108.0	0	4.593E-10	1.745E-09	4870
5 110.0	1	1.660E-09	6.307E-09	4920
112.0	14	1.207E-08	4.587E-08	4990
114.0	37	3.086E-08	1.173E-07	5080
116.0	140	1.170E-07	4.445E-07	5020
5 118.0	367	3.064E-07	1.164E-06	5100
9 120.0	630	5.256E-07	1.997E-06	5130
6 122.0	828	6.900E-07	2.622E-06	4830
9 124.0	426	3.557E-07	1.352E-06	4660
7 126.0	887	7.393E-07	2.810E-06	4770
128.0	1143	9.531E-07	3.622E-06	4900
9 130.0	709	5.914E-07	2.247E-06	4970
4 132.0	1242	1.035E-06	3.934E-06	4980
7 134.0	1104	9.202E-07	3.497E-06	4990
0 136.0	985	8.215E-07	3.122E-06	5000
5 138.0	867	7.229E-07	2.747E-06	5020
9 140.0	828	6.900E-07	2.622E-06	5060
9 142.0	650	5.421E-07	2.060E-06	5090
E 144.0	282	2.352E-07	8.937E-07	5130
6 146.0	152	1.274E-07	4.842E-07	5190
E 148.0	149	1.248E-07	4.743E-07	5240
R 150.0	162	1.352E-07	5.139E-07	5300

CROSSWIND INTEGRATED= 1.681E-03 SEC/SQ.M  
 6.389E-03 1/M

TEST U91 SEPTEMBER 24, 1969 0144 TU 0214 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
 7000M ARC SAMPLER HT 1.5M U= 4.1 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
7 100.0	0	0.	0.	6560
6 102.0	0	2.274E-10	9.342E-10	6610
9 104.0	9	2.615E-09	1.072E-08	5550
7 106.0	114	3.115E-08	1.277E-07	6720
E 108.0	138	3.752E-08	1.538E-07	6800
9 110.0	129	3.513E-08	1.440E-07	7000
8 112.0	197	5.377E-08	2.205E-07	7060
0 114.0	110	3.013E-08	1.235E-07	7210
0 116.0	323	4.799E-08	3.608E-07	7220
7 118.0	663	1.803E-07	7.393E-07	7190
E 120.0	971	2.639E-07	1.082E-06	7150
122.0	1273	3.461E-07	1.419E-06	7120
E 124.0	345	2.299E-07	9.425E-07	7160
E 126.0	410	1.115E-07	4.573E-07	7100
E 128.0	253	6.889E-08	2.825E-07	7100
E 130.0	174	4.741E-08	1.944E-07	7130
7 132.0	107	2.933E-08	1.205E-07	7150
E 134.0	95	2.592E-08	1.053E-07	7200
E 136.0	86	2.342E-08	9.602E-08	7250
7 138.0	71	1.933E-08	7.924E-08	7300
0 140.0	17	4.889E-09	2.004E-08	7350
5 142.0	10	2.842E-09	1.165E-08	7250
0 144.0	0	2.274E-10	9.322E-10	7110
7 146.0	15	4.099E-09	1.678E-08	7100

CROSSWIND INTEGRATED= 4.073E-04 SEC/SQ.M  
 1.670E-03 1/M

TEST U91 SEPTEMBER 24, 1969 0144 TU 0214 PST  
 FLUORESCCEIN RELEASE FROM ELEVATION OF 56M  
 7000M ARC SAMPLER HT 1.5M U= 3.8 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
7 100.0	0	3.288E-10	1.249E-09	6560
6 102.0	0	4.854E-10	1.844E-09	6610
9 104.0	0	4.593E-10	1.745E-09	6650
7 106.0	0	3.810E-10	1.448E-09	6720
E 108.0	1	9.290E-10	3.530E-09	6800
9 110.0	10	8.940E-09	3.397E-08	7000
8 112.0	9	7.896E-09	3.001E-08	7300
0 114.0	19	1.549E-08	6.075E-08	7210
0 116.0	48	4.025E-08	1.530E-07	7220
7 118.0	228	1.900E-07	7.222E-07	7190
5 120.0	156	1.300E-07	4.941E-07	7150
2 122.0	675	5.632E-07	2.140E-06	7120
1 124.0	1051	8.763E-07	3.330E-06	7100
E 126.0	854	7.119E-07	2.705E-06	7100
0 128.0	453	3.777E-07	1.435E-06	7100
E 130.0	236	1.968E-07	7.479E-07	7130
7 132.0	135	1.130E-07	4.293E-07	7150
E 134.0	255	2.133E-07	8.104E-07	7200
E 136.0	492	4.105E-07	1.560E-06	7250
7 138.0	611	5.092E-07	1.935E-06	7300
0 140.0	223	1.859E-07	7.063E-07	7350
5 142.0	67	5.591E-08	2.125E-07	7250
0 144.0	5	4.556E-09	1.731E-08	7110
B 146.0	41	3.477E-08	1.321E-07	7100

CROSSWIND INTEGRATED= 1.162E-03 SEC/SQ.M  
 4.417E-03 1/M

TEST U91 SEPTEMBER 24, 1969 0144 TO 0214 PST  
 1200H ARC SAMPLER HT 1.5M U= 4.1 M/SEC AT 111M  
 INC. SULFIDE RELEASE FROM ELEVATION OF 111M

TEST U91 SEPTEMBER 24, 1969 0144 TO 0214 PST  
 1200H ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 56M  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M

AZIMUTH EXPOSURE E/W L/U/D DISTANCE  
 DEGREES GM-SEC/CU.M SEC/CU.M 1/56.M METERS  
 X10E+6

AZIMUTH EXPOSURE E/W L/U/D DISTANCE  
 DEGREES GM-SEC/CU.M SEC/CU.M 1/56.M METERS  
 X10E+6

91.0	0	0.	0.	12800
92.0	6	1.705E-09	6.992E-09	12800
93.0	5	1.478E-09	6.060E-09	12800
94.0	5	1.364E-09	5.593E-09	12800
95.0	2	7.958E-10	3.263E-09	12800
96.0	2	6.821E-10	2.797E-09	12800
97.0	20	5.457E-09	2.237E-08	12800
98.0	0	2.274E-10	9.322E-10	12800
99.0	0	0.	0.	12800
100.0	6	1.705E-09	6.992E-09	12800
101.0	23	6.440E-09	2.657E-08	12800
102.0	8	2.327E-09	9.788E-09	12800
103.0	0	0.	0.	12800
104.0	21	5.798E-09	2.377E-08	12800
105.0	2	7.958E-10	3.263E-09	12800
106.0	5	1.592E-09	6.526E-09	12800
107.0	32	8.754E-09	3.584E-08	12800
108.0	89	7.422E-08	9.926E-08	12800
109.0	41	1.126E-08	4.615E-08	12800
110.0	112	3.970E-05	1.259E-07	12800
111.0	44	1.216E-08	4.987E-08	12800
112.0	84	2.308E-08	9.462E-08	12800
113.0	56	1.535E-08	6.293E-08	12800
114.0	13	3.752E-09	1.533E-08	12800
115.0	26	7.162E-09	2.937E-08	12800
116.0	28	7.844E-09	3.216E-08	12800
117.0	24	6.594E-09	2.703E-08	12800
118.0	56	1.546E-08	6.339E-08	12800
119.0	66	1.808E-08	7.411E-08	12800
120.0	98	2.683E-08	1.100E-07	12800
121.0	108	2.944E-08	1.207E-07	12800
122.0	104	2.831E-08	1.161E-07	12800
123.0	74	2.012E-08	8.250E-08	12800
124.0	37	1.012E-08	4.146E-08	12800
125.0	10	2.956E-09	1.212E-08	12800
126.0	16	4.434E-09	1.819E-08	12800
127.0	3	9.095E-10	3.725E-08	12800
128.0	16	4.547E-09	1.864E-08	12800
129.0	0	0.	0.	12800
130.0	9	2.501E-09	1.025E-08	12800
131.0	17	4.889E-09	2.004E-08	12800
132.0	23	6.253E-09	2.564E-08	12800
133.0	0	0.	0.	12800
134.0	21	5.912E-09	2.424E-08	12800
135.0	0	0.	0.	12800
136.0	0	0.	0.	12800
137.0	7	2.046E-09	8.390E-09	12800
138.0	0	0.	0.	12800
139.0	0	0.	0.	12800
140.0	0	0.	0.	12800
141.0	0	0.	0.	12800
142.0	12	3.411E-09	1.398E-08	12800
143.0	14	3.979E-09	1.531E-08	12800
144.0	2	5.664E-10	2.311E-09	12800
145.0	2	6.623E-10	2.797E-09	12800
146.0	2	6.821E-10	2.797E-09	12800
147.0	6	1.819E-09	7.450E-09	12800
148.0	27	7.503E-09	3.076E-08	12800
149.0	0	2.274E-10	9.322E-10	12800
150.0	0	2.274E-10	9.322E-10	12800
151.0	0	0.	0.	12800

91.0	0	0.	0.	12800
92.0	4	3.392E-09	1.289E-08	12800
93.0	4	4.019E-09	1.527E-08	12800
94.0	5	4.723E-09	1.795E-08	12800
95.0	3	3.914E-09	1.259E-08	12800
96.0	9	8.090E-09	3.074E-08	12800
97.0	18	1.514E-08	5.751E-08	12800
98.0	6	5.271E-09	2.003E-08	12800
99.0	10	8.072E-09	3.372E-08	12800
100.0	12	1.044E-08	3.966E-08	12800
101.0	11	9.394E-09	3.570E-08	12800
102.0	20	1.696E-08	6.446E-08	12800
103.0	33	2.766E-08	1.051E-07	12800
104.0	40	3.392E-08	1.289E-07	12800
105.0	11	9.655E-09	3.669E-08	12800
106.0	64	5.350E-08	2.033E-07	12800
107.0	99	8.298E-08	3.153E-07	12800
108.0	134	1.117E-07	4.244E-07	12800
109.0	159	1.326E-07	5.037E-07	12800
110.0	149	1.247E-07	4.740E-07	12800
111.0	130	1.091E-07	4.145E-07	12800
112.0	108	9.301E-08	3.451E-07	12800
113.0	171	1.482E-07	5.632E-07	12800
114.0	195	1.613E-07	6.128E-07	12800
115.0	162	1.352E-07	5.137E-07	12800
116.0	137	1.143E-07	4.343E-07	12800
117.0	115	9.603E-08	3.649E-07	12800
118.0	199	1.665E-07	6.327E-07	12800
119.0	218	1.821E-07	6.922E-07	12800
120.0	177	1.482E-07	5.632E-07	12800
121.0	196	1.639E-07	6.227E-07	12800
122.0	224	1.874E-07	7.120E-07	12800
123.0	127	1.065E-07	4.046E-07	12800
124.0	137	1.143E-07	4.343E-07	12800
125.0	108	9.081E-08	3.451E-07	12800
126.0	99	8.298E-08	3.153E-07	12800
127.0	63	5.271E-08	2.003E-07	12800
128.0	80	6.733E-08	2.558E-07	12800
129.0	74	6.211E-08	2.360E-07	12800
130.0	72	6.054E-08	2.301E-07	12800
131.0	90	7.515E-08	2.856E-07	12800
132.0	82	6.994E-08	2.658E-07	12800
133.0	49	4.097E-08	1.557E-07	12800
134.0	69	5.819E-08	2.211E-07	12800
135.0	44	3.706E-08	1.408E-07	12800
136.0	0	0.	0.	12800
137.0	47	3.940E-08	1.497E-07	12800
138.0	21	1.774E-08	6.743E-08	12800
139.0	0	4.958E-10	1.884E-09	12800
140.0	0	0.	0.	12800
141.0	45	3.784E-08	1.438E-07	12800
142.0	52	4.410E-08	1.676E-07	12800
143.0	56	4.723E-08	1.795E-07	12800
144.0	27	2.296E-08	8.726E-08	12800
145.0	28	2.375E-08	9.024E-08	12800
146.0	20	1.696E-08	6.446E-08	12800
147.0	15	1.253E-08	4.760E-08	12800
148.0	11	9.916E-09	3.768E-08	12800
149.0	10	8.350E-09	3.173E-08	12800
150.0	6	5.271E-09	2.003E-08	12800
151.0	3	3.314E-09	1.259E-08	12800
153.0	0	7.046E-10	2.677E-09	12800
155.0	0	0.	0.	12800

CROSSWIND INTEGRATED= 3.562E-05 3.510E-04  
 SEC/SQ.M 1/M

CROSSWIND INTEGRATED= 8.000E-04 3.040E-03  
 SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST U91 SEPTEMBER 24, 1969 0144 TO 0214 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
 3200M ARC U = 4.1 M/SEC AT 111M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/Q SEC/CM <sup>3</sup>	EU/Q 1/SQ.M	DISTANCE METERS	
1	115.6	.2	1313	3.568E-07	1.463E-06	3200
2	115.6	.4	1332	3.672E-07	1.485E-06	3200
3	115.6	.8	852	2.315E-07	9.493E-07	3200
E	115.6	1.5	1281	3.443E-07	1.428E-06	3200
4	115.6	1.6	1131	3.075E-07	1.261E-06	3200
4	115.6	3.1	1144	3.110E-07	1.275E-06	3200
115.6	6.2	1985	5.396E-07	2.212E-06	3200	
115.6	9.3	1916	5.208E-07	2.135E-06	3200	
115.6	12.4	2968	8.067E-07	3.337E-06	3200	
115.6	15.5	2248	6.109E-07	2.505E-06	3200	
115.6	18.6	2975	8.044E-07	3.315E-06	3200	
115.6	21.7	3898	1.059E-06	4.344E-06	3200	
115.6	24.8	3458	9.399E-07	3.854E-06	3200	
115.6	31.0	3750	1.019E-06	4.179E-06	3200	
115.6	37.2	4038	1.098E-06	4.500E-06	3200	
115.6	43.4	4923	1.338E-06	5.486E-06	3200	
115.6	49.6	6160	1.674E-06	6.863E-06	3200	
115.6	55.8	4581	1.245E-06	5.104E-06	3200	
115.6	62.0	3273	8.896E-07	3.647E-06	3200	

TOWER DATA FOLLOW....

TEST U91 SEPTEMBER 24, 1969 0144 TO 0214 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 3200M ARC U = 3.8 M/SEC AT 56M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/Q SEC/CM <sup>3</sup>	EU/Q 1/SQ.M	DISTANCE METERS	
115.6	.2	139	1.162E-07	4.414E-07	3200	
115.6	.4	35	2.982E-08	1.133E-07	3200	
115.6	.8	200	1.669E-07	6.343E-07	3200	
5	115.6	1.5	197	1.642E-07	6.241E-07	3200
4	115.6	1.6	187	1.562E-07	5.937E-07	3200
4	115.6	3.1	158	1.322E-07	5.023E-07	3200
115.6	6.2	161	1.349E-07	5.125E-07	3200	
115.6	9.3	113	9.481E-08	3.603E-07	3200	
115.6	12.4	251	2.096E-07	7.966E-07	3200	
115.6	15.5	225	1.883E-07	7.154E-07	3200	
115.6	18.6	165	1.375E-07	5.226E-07	3200	
115.6	21.7	254	2.123E-07	8.068E-07	3200	
115.6	24.8	372	3.102E-07	1.179E-06	3200	
115.6	31.0	447	3.725E-07	1.416E-06	3200	
115.6	37.2	560	4.171E-07	1.585E-06	3200	
115.6	43.4	900	4.171E-07	1.585E-06	3200	
115.6	49.6	553	4.616E-07	1.754E-06	3200	
115.6	55.8	553	4.616E-07	1.754E-06	3200	
b	115.6	62.0	489	4.082E-07	1.551E-06	3200

GROUND LEVEL SAMPLING 400M TO 1200M; WITH POSSIBLE EXCEPTION OF FLUORESCCEIN AT 1200M. ALL ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACKER. TRACKER DISTRIBUTIONS EXTEND ABOVE TOP OF THE SINGLE SAMPLING TOWER.  
NO ZINC SULFIDE OBSERVED ON 400M, 800M OR 1600M ARCS

TEST U92 SEPTEMBER 26, 1969 0048 TO 0110 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
400M ARC SAMPLER HT 1.5M U= 5.4 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
N 46.0	0	0.	0.	400
CROSSWIND INTEGRATED= 0. SEC/SQ.M 1/M				

TEST U92 SEPTEMBER 26, 1969 0048 TO 0110 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 56M  
400M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
90.0	0	0.	0.	400
94.0	0	1.334E-10	6.272E-10	400
98.0	10	6.338E-09	2.979E-08	400
102.0	17	1.074E-08	5.049E-08	400
106.0	40	2.495E-08	1.173E-07	400
110.0	9	5.738E-09	2.697E-08	400
6 114.0	0	0.	0.	400
118.0	0	0.	0.	400

CROSSWIND INTEGRATED= 1.334E-06 SEC/SQ.M 1/M

TEST U92 SEPTEMBER 26, 1969 0048 TO 0110 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
800M ARC SAMPLER HT 1.5M U= 5.4 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
N 77.0	0	0.	0.	771
CROSSWIND INTEGRATED= 0. SEC/SQ.M 1/M				

TEST U92 SEPTEMBER 26, 1969 0048 TO 0110 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 56M  
800M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
106.9	0	0.	0.	823
108.8	12	7.606E-09	3.575E-08	826
110.7	11	7.384E-09	3.471E-08	829
112.6	0	0.	0.	833
114.5	1	1.134E-09	5.611E-09	836
116.4	0	0.	0.	839
118.3	0	0.	0.	842

CROSSWIND INTEGRATED= 4.444E-07 SEC/SQ.M 1/M

TEST U92 SEPTEMBER 26, 1969 0048 TO 0110 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
1600M ARC SAMPLER HT 1.5M U= 5.4 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
N 73.4	0	0.	0.	1508
CROSSWIND INTEGRATED= 0. SEC/SQ.M 1/M				

TEST U92 SEPTEMBER 26, 1969 0048 TO 0110 PST  
FLUORESCCEIN RELEASE FROM ELEVATION OF 56M  
1600M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
E 89.0	0	3.645E-10	1.713E-09	1595
E 90.0	1	1.094E-09	5.140E-09	1596
E 91.0	3	2.260E-09	1.062E-08	1598
E 92.0	6	4.010E-09	1.885E-08	1600
E 93.0	11	7.072E-09	3.324E-08	1602
B 93.6	17	1.072E-08	5.037E-08	1603
94.6	35	2.155E-08	1.018E-07	1604
95.6	25	1.553E-08	7.294E-08	1606
96.6	70	4.323E-08	2.032E-07	1608
97.6	42	2.603E-08	1.223E-07	1610
98.6	55	3.448E-08	1.621E-07	1611
99.6	98	6.073E-08	2.854E-07	1613
100.6	143	8.843E-08	4.156E-07	1615
101.6	129	7.968E-08	3.745E-07	1617
102.6	216	1.336E-07	6.281E-07	1618
103.6	188	1.161E-07	5.458E-07	1620
104.5	202	1.249E-07	5.870E-07	1622
105.5	162	1.001E-07	4.735E-07	1623
106.5	169	1.045E-07	4.913E-07	1625
107.5	155	9.572E-08	4.499E-07	1627
108.5	143	8.843E-08	4.156E-07	1628
109.5	155	9.572E-08	4.499E-07	1630
110.4	10	6.780E-09	3.187E-08	1632
111.4	67	4.177E-08	1.963E-07	1633
112.4	18	1.115E-08	5.242E-08	1635
113.4	7	4.593E-09	2.159E-08	1637
114.4	0	4.374E-10	2.056E-09	1638
115.3	0	0.	0.	1640

CROSSWIND INTEGRATED= 3.672E-05 SEC/SQ.M 1/M

TEST U92 SEPTEMBER 26, 1969 0048 TO 0118 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 564  
 3200M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/U SEC/CU.M	U/U 1/50.M	DISTANCE METERS
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87.8	1	9.561E-10	4.494E-09	3194
88.8	0	2.572E-10	1.209E-09	3196
89.8	4	2.473E-09	1.162E-08	3198
90.8	3	2.143E-09	1.007E-08	3199
91.8	8	5.242E-09	2.454E-08	3201
92.8	3	2.143E-09	1.007E-08	3203
93.8	12	7.616E-09	3.540E-08	3205
94.8	22	1.414E-08	6.644E-08	3206
95.8	28	1.757E-08	8.259E-08	3206
96.8	41	2.549E-08	1.198E-07	3210
97.8	62	3.967E-08	1.818E-07	3212
98.8	85	5.252E-08	2.454E-07	3213
99.8	117	7.230E-08	3.398E-07	3215
100.8	203	1.257E-07	5.909E-07	3217
101.8	152	9.406E-08	4.421E-07	3219
102.8	393	2.431E-07	1.143E-06	3220
103.8	404	2.437E-07	1.174E-06	3222
104.8	351	2.167E-07	1.019E-06	3224
105.8	735	4.541E-07	2.134E-06	3225
106.8	917	5.662E-07	2.661E-06	3227
107.8	714	4.409E-07	2.072E-06	3229
108.8	895	5.530E-07	2.599E-06	3230
109.7	1165	7.132E-07	3.300E-06	3232
110.7	1277	7.884E-07	3.706E-06	3233
111.7	1165	7.192E-07	3.380E-06	3235
112.7	447	2.761E-07	1.297E-06	3237
113.7	75	4.659E-08	2.190E-07	3238
114.6	5	3.528E-09	1.658E-08	3240
115.6	1	6.528E-10	3.068E-09	3241
116.6	0	1.187E-10	5.579E-11	3243
117.6	1	6.264E-10	2.944E-09	3245
118.6	0	2.769E-10	1.302E-09	3246

CROSSWIND INTEGRATED= 3.197E-04 SEC/50.M  
 1.503E-03 1/M

TEST U92 SEPTEMBER 26, 1969 0048 TO 0118 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
 3200M ARC SAMPLER HT 1.5M U= 5.4 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/U SEC/CU.M	U/U 1/50.M	DISTANCE METERS
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111.7	0	0.	0.	3235
112.7	24	6.777E-09	3.660E-08	3237
113.7	0	0.	0.	3238
114.6	458	1.280E-07	6.910E-07	3240
115.6	328	9.169E-08	4.951E-07	3241
116.6	341	9.526E-08	5.145E-07	3243
117.6	335	9.368E-08	5.059E-07	3245
118.6	0	0.	0.	3246
W 119.5	780	2.161E-07	1.178E-06	3248
W 120.5	148	4.145E-08	2.239E-07	3249
W 121.5	0	0.	0.	3251
122.4	14	3.987E-09	2.153E-08	3252
123.4	2	7.973E-10	4.305E-09	3253
124.4	8	2.392E-09	1.292E-08	3255
125.4	14	3.987E-09	2.153E-08	3256
126.3	0	0.	0.	3258
127.3	0	0.	0.	3259
128.3	2	7.973E-10	4.305E-09	3261
129.3	11	3.189E-09	1.722E-08	3262
130.3	31	8.770E-09	4.730E-08	3263
131.2	12	3.589E-09	1.937E-08	3264
132.2	0	0.	0.	3266

CROSSWIND INTEGRATED= 3.874E-04 SEC/50.M  
 2.092E-04 1/M

TEST U92 SEPTEMBER 26, 1969 0048 TO 0118 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 5000M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/U SEC/CU.M	U/U 1/50.M	DISTANCE METERS
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90.0	0	0.	0.	4610
92.0	1	1.121E-09	5.259E-09	4620
94.0	7	4.678E-09	2.199E-08	4620
96.0	14	8.350E-09	3.926E-08	4620
98.0	10	6.611E-09	3.107E-08	4660
100.0	102	5.305E-08	2.954E-07	4690
102.0	360	2.225E-07	1.046E-06	4710
E 104.0	1064	6.569E-07	3.087E-06	4770
106.0	2037	1.258E-06	5.911E-06	4810
108.0	1379	8.517E-07	4.003E-06	4970
110.0	1940	1.136E-06	5.349E-06	4920
112.0	176	1.009E-07	5.117E-07	4990
114.0	138	8.573E-08	4.029E-07	5080
116.0	21	1.307E-08	6.161E-08	5020
118.0	5	3.499E-09	1.644E-08	5100
120.0	0	0.	0.	5130
122.0	0	1.353E-10	6.360E-11	4930

CROSSWIND INTEGRATED= 7.478E-04 SEC/50.M  
 3.514E-03 1/M

TEST U92 SEPTEMBER 26, 1969 0043 TO 0118 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
 5000M ARC SAMPLER HT 1.5M U= 5.4 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/U SEC/CU.M	U/U 1/50.M	DISTANCE METERS
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102.0	0	0.	0.	4710
I 104.0	0	0.	0.	4770
106.0	0	2.337E-10	1.262E-09	4810
108.0	0	0.	0.	4870
110.0	1	4.678E-09	2.199E-08	4920
112.0	46	1.297E-08	7.005E-08	4990
114.0	138	3.680E-08	2.095E-07	5080
116.0	98	2.746E-08	1.443E-07	5020
118.0	164	4.549E-08	2.480E-07	5100
120.0	235	5.579E-08	3.553E-07	5130
122.0	420	1.174E-07	6.342E-07	4930
T 124.0	0	0.	0.	4660
126.0	0	2.337E-10	1.262E-09	4770
C 128.0	0	0.	0.	4900
130.0	4	1.169E-09	6.311E-09	4970
132.0	0	0.	0.	4980

CROSSWIND INTEGRATED= 5.407E-05 SEC/50.M  
 2.920E-04 1/M

TEST U92 SEPTEMBER 26, 1969 0048 TU 0118 PST  
 FLUORESCIN RELEASE FROM ELFVATION OF 56M  
 7000M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
86.0	0	0.	0.	6500
88.0	0	0.	0.	6480
90.0	1	7.152E-10	3.361E-09	6500
E 92.0	0	2.706E-10	1.272E-09	6490
94.0	0	1.160E-10	5.451E-10	6500
96.0	2	1.624E-09	7.631E-09	6510
E 98.0	30	1.892E-08	6.894E-08	6520
100.0	102	6.338E-08	2.979E-07	6560
102.0	155	9.580E-08	4.503E-07	6610
104.0	131	8.119E-08	3.816E-07	6650
4 106.0	282	1.741E-07	8.185E-07	6720
108.0	788	4.867E-07	2.288E-06	6800
110.0	1459	9.007E-07	4.234E-06	7000
112.0	1104	6.815E-07	3.203E-06	7300
114.0	499	3.081E-07	1.448E-06	7210
116.0	525	3.243E-07	1.524E-06	7220
118.0	96	5.952E-08	2.797E-07	7190
120.0	5	3.189E-09	1.499E-08	7150
122.0	0	0.	0.	7120
124.0	0	0.	0.	7100

CROSSWIND INTEGRATED= 7.855E-04 SEC/SQ.M 3.692E-03 1/M

TEST U92 SEPTEMBER 26, 1969 0048 TU 0119 PST  
 ZINC SULFIDE RELEASE FROM ELFVATION OF 111M  
 7000M ARC SAMPLER HT 1.5M U= 5.4 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
2 108.0	0	0.	0.	6800
1 110.0	2	5.843E-10	3.155E-09	7000
112.0	0	0.	0.	7300
3 114.0	140	3.927E-08	2.120E-07	7210
116.0	337	9.431E-08	5.093E-07	7220
119.0	850	2.375E-07	1.282E-06	7190
120.0	838	2.342E-07	1.265E-06	7150
122.0	459	1.283E-07	6.929E-07	7120
124.0	4	1.235E-09	6.942E-09	7100
0 126.0	0	0.	0.	7100

CROSSWIND INTEGRATED= 1.841E-04 SEC/SQ.M 9.939E-04 1/M

TEST U92 SEPTEMBER 26, 1969 0048 TU 0118 PST  
 FLUORESCIN RELEASE FROM ELFVATION OF 56M  
 12800M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 56M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
H 91.0	18	1.144E-08	5.378E-08	12900
4 92.0	17	1.086E-08	5.106E-08	12800
E 93.0	16	9.897E-09	4.652E-08	12800
4 94.0	13	8.544E-09	4.016E-08	12800
4 95.0	16	1.048E-08	4.924E-08	12900
4 96.0	33	2.072E-08	9.739E-08	12800
97.0	38	2.362E-08	1.110E-07	12800
7 98.0	44	2.768E-08	1.301E-07	12800
99.0	105	6.499E-08	3.054E-07	12800
6 100.0	105	5.499E-08	3.054E-07	12800
101.0	89	5.532E-08	2.600E-07	12800
4 102.0	111	6.885E-08	3.236E-07	12800
103.0	67	4.180E-08	1.955E-07	12800
104.0	24	1.840E-08	8.649E-08	12800
E 105.0	48	3.019E-08	1.419E-07	12800
106.0	86	5.339E-08	2.509E-07	12900
107.0	33	2.072E-08	9.739E-08	12900
108.0	32	2.014E-08	9.467E-08	12800
7 109.0	34	2.130E-08	1.001E-07	12800
110.0	55	3.406E-08	1.601E-07	12800
5 111.0	34	2.130E-08	1.001E-07	12800
112.0	25	1.550E-08	7.286E-08	12800
5 113.0	33	2.072E-08	9.739E-08	12800
114.0	8	5.451E-09	2.502E-08	12800
9 115.0	12	7.984E-09	3.743E-08	12800
116.0	10	6.224E-09	2.925E-08	12800
117.0	7	1.353E-09	6.360E-09	12800
118.0	5	3.615E-09	1.699E-08	12800
6 119.0	6	1.905E-09	1.035E-08	12800
120.0	7	4.678E-09	2.199E-08	12800
E 121.0	6	4.291E-09	2.017E-08	12800
122.0	6	4.137E-09	1.944E-08	12800
123.0	8	5.258E-09	2.471E-08	12800
H 124.0	3	1.491E-09	9.358E-09	12800
4 125.0	6	3.905E-09	1.835E-08	12800
8 126.0	2	1.759E-09	8.257E-09	12800
8 127.0	6	4.098E-09	1.926E-08	12900
9 128.0	7	4.871E-09	2.269E-08	12800
8 129.0	2	1.827E-09	7.177E-09	12800
7 130.0	3	2.165E-09	1.018E-08	12800
131.0	0	0.	0.	12800

CROSSWIND INTEGRATED= 1.657E-04 SEC/SQ.M 7.790E-04 1/M

TEST U92 SEPTEMBER 26, 1969 0046 TU 0119 PST  
 ZINC SULFIDE RELEASE FROM ELFVATION OF 111M  
 12800M ARC SAMPLER HT 1.5M U= 5.4 M/SEC AT 111M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
3 106.0	0	0.	0.	12800
107.0	1	3.506E-10	1.893E-09	12800
108.0	27	7.595E-09	4.102E-08	12800
7 109.0	15	4.324E-09	2.355E-08	12900
3 110.0	5	1.519E-09	6.204E-09	12800
5 111.0	23	6.661E-09	3.597E-08	12800
112.0	23	6.427E-09	3.471E-08	12900
5 113.0	27	7.596E-09	4.102E-08	12800
3 114.0	30	8.648E-09	4.670E-08	12900
E 115.0	25	7.012E-09	3.786E-08	12900
2 116.0	22	6.311E-09	3.408E-08	12800
3 117.0	6	1.870E-09	1.010E-08	12800
2 118.0	10	2.922E-09	1.578E-08	12800
6 119.0	6	1.870E-09	1.010E-08	12800
1 120.0	1	3.506E-10	1.893E-09	12900
1 121.0	0	0.	0.	12800
122.0	0	1.169E-10	6.311E-10	12800
123.0	0	0.	0.	12800
8 124.0	5	1.519E-09	6.204E-09	12800
9 125.0	0	0.	0.	12900

CROSSWIND INTEGRATED= 1.454E-05 SEC/SQ.M 7.853E-05 1/M

TOWER DATA FOLLOW....

TEST U92 SEPTEMBER 26, 1969 0048 TO 0118 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
 3200M ARC U= 5.4 M/SEC AT 111M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/D SEC/CM <sup>2</sup>	EU/W 1/SQ.M	DISTANCE METERS	
R	115.6	.2	108	3.090E-08	1.636E-07	3200
	115.6	.4	431	1.204E-07	6.501E-07	3200
R	115.6	.8	25	7.176E-09	3.875E-08	3200
	115.6	1.5	328	9.169E-08	4.951E-07	3200
	115.6	1.6	382	1.068E-07	5.769E-07	3200
	115.6	3.1	479	1.339E-07	7.233E-07	3200
	115.6	6.2	471	1.317E-07	7.114E-07	3200
	115.6	9.3	1289	3.603E-07	1.946E-06	3200
	115.6	12.4	587	1.642E-07	8.865E-07	3200
	115.6	15.5	262	7.371E-08	3.953E-07	3200
	115.6	18.6	312	8.734E-08	4.716E-07	3200
R	115.6	21.7	70	1.957E-08	1.057E-07	3200
	115.6	24.8	631	1.765E-07	9.531E-07	3200
	115.6	31.0	454	1.269E-07	6.853E-07	3200
	115.6	37.2	308	8.617E-08	4.653E-07	3200
	115.6	43.4	484	1.353E-07	7.306E-07	3200
	115.6	49.6	414	1.157E-07	6.250E-07	3200
	115.6	55.8	867	2.492E-07	1.308E-06	3200
B	115.6	62.0	1269	3.547E-07	1.916E-06	3200

TOWER DATA FOLLOW....

TEST U92 SEPTEMBER 26, 1969 0048 TO 0118 PST  
 FLUORESCENT RELEASE FROM ELEVATION OF 56M  
 3200M ARC U= 4.7 M/SEC AT 56M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/D SEC/CM <sup>2</sup>	EU/D 1/SQ.M	DISTANCE METERS	
	115.6	.2	0	0.	3200	
	115.6	.4	4	2.605E-09	1.224E-08	3200
	115.6	.8	1	1.022E-09	4.804E-09	3200
	115.6	1.5	1	6.578E-10	3.068E-09	3200
	115.6	1.6	9	5.638E-09	2.650E-08	3200
Z	115.6	3.1	6	4.055E-09	1.936E-08	3200
	115.6	6.2	104	6.439E-08	3.026E-07	3200
	115.6	9.3	308	1.905E-07	8.946E-07	3200
	115.6	12.4	895	5.530E-07	2.599E-06	3200
	115.6	15.5	1681	1.038E-06	4.877E-06	3200
	115.6	18.6	2555	1.578E-06	7.415E-06	3200
	115.6	21.7	4036	2.492E-06	1.171E-05	3200
	115.6	24.8	5937	3.662E-06	1.721E-05	3200
	115.6	31.0	7766	4.794E-06	2.253E-05	3200
	115.6	37.2	12298	7.591E-06	3.568E-05	3200
	115.6	43.4	11650	7.132E-06	3.380E-05	3200
	115.6	49.6	10679	6.592E-06	3.098E-05	3200
	115.6	55.8	10679	6.592E-06	3.098E-05	3200
B	115.6	62.0	10356	6.393E-06	3.005E-05	3200

GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. ALL ARCS ENRACE CROSSWIND EXTENT OF TRACER DISTRIBUTIONS. ALTHOUGH TRACERS TRUNCATED AT TOPS OF TOWERS, EXTRAPOLATION IS DISTINCT POSSIBILITY ON THIS TEST. RELATIVELY SMALL AMOUNT OF RHODAMINE DISPERSED LEAVES CONSIDERABLE UNCERTAINTIES IN INDIVIDUAL EXPOSURE VALUES.

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
200M ARC SAMPLER HT 1.5M U= 5.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/U SEC/CU.M	E/U 1/SQ.M	DISTANCE METERS
92.0	0	0.	0.	200
94.0	65	6.530E-08	3.787E-D7	200
96.0	370	3.700E-07	2.146E-06	200
98.0	977	9.776E-07	5.670E-06	200
100.0	1091	1.092E-06	6.333E-06	200
102.0	2073	2.073E-06	1.202E-05	200
104.0	4216	4.216E-06	2.445E-05	200
106.0	3677	3.677E-06	2.133E-05	200
108.0	4469	4.469E-06	2.592E-05	200
110.0	5903	5.904E-06	3.424E-05	200
112.0	7063	7.064E-06	4.097E-05	200
114.0	6552	6.552E-06	3.800E-05	200
116.0	3067	3.067E-06	1.779E-05	200
118.0	3322	3.323E-06	1.927E-05	200
120.0	1208	1.208E-06	7.011E-06	200
122.0	1736	1.737E-06	1.007E-05	200
124.0	1160	1.161E-06	6.733E-06	200
126.0	520	5.205E-07	3.019E-06	200
128.0	301	3.011E-07	1.746E-06	200
130.0	1093	1.094E-06	6.343E-06	200
132.0	400	4.004E-07	2.325E-06	200
134.0	106	1.061E-07	6.154E-07	200
136.0	72	7.255E-08	4.204E-07	200
138.0	51	5.164E-08	2.998E-07	200
140.0	33	3.355E-08	1.946E-07	200

CROSSWIND INTEGRATED= 3.458E-04 SEC/SQ.M  
2.006E-03 1/M

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
400M ARC SAMPLER HT 1.5M U= 5.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/U SEC/CU.M	E/U 1/SQ.M	DISTANCE METERS
82.0	0	0.	0.	400
86.0	1	1.108E-09	6.428E-09	400
90.0	1	1.478E-09	8.571E-09	400
94.0	56	5.690E-08	3.300E-07	400
98.0	278	2.787E-07	1.614E-06	400
102.0	803	8.036E-07	4.661E-06	400
106.0	1150	1.150E-06	6.671E-06	400
110.0	1013	1.013E-06	5.878E-06	400
114.0	2317	2.318E-06	1.344E-05	400
118.0	1717	1.718E-06	9.962E-06	400
122.0	1017	1.017E-06	5.899E-06	400
126.0	808	8.084E-07	4.689E-06	400
130.0	97	9.791E-08	5.678E-07	400
134.0	19	1.921E-08	1.114E-07	400
138.0	8	8.867E-09	5.143E-08	400
142.0	8	8.497E-09	4.929E-08	400
146.0	5	5.172E-09	3.000E-08	400
150.0	0	0.	0.	400

CROSSWIND INTEGRATED= 2.549E-04 SEC/SQ.M  
1.507E-03 1/M

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST  
RHODAMINE B RELEASE FROM ELEVATION OF 26M  
200M ARC SAMPLER HT 1.5M U= 5.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/U SEC/CU.M	E/U 1/SQ.M	DISTANCE METERS
86.0	7	7.474E-08	4.337E-07	200
88.0	5	5.697E-08	3.304E-07	200
90.0	5	5.697E-08	3.304E-07	200
92.0	0	0.	0.	200
94.0	0	0.	0.	200
96.0	18	1.816E-07	1.053E-06	200
98.0	27	2.777E-07	1.611E-06	200
100.0	39	3.953E-07	2.292E-06	200
102.0	72	7.300E-07	4.234E-06	200
104.0	144	1.444E-06	8.364E-06	200
106.0	518	5.181E-06	3.005E-05	200
108.0	176	1.763E-06	1.022E-05	200
110.0	272	2.724E-06	1.580E-05	200
112.0	251	2.511E-06	1.456E-05	200
114.0	240	2.404E-06	1.394E-05	200
116.0	186	1.864E-06	1.084E-05	200
118.0	112	1.122E-06	6.506E-06	200
120.0	39	3.953E-07	2.292E-06	200
122.0	62	6.231E-07	3.614E-06	200
124.0	39	3.946E-07	2.230E-06	200
126.0	41	4.166E-07	2.416E-06	200
128.0	14	1.496E-07	8.674E-07	200
130.0	12	1.211E-07	7.022E-07	200
132.0	8	8.490E-08	5.163E-07	200
134.0	0	0.	0.	200

CROSSWIND INTEGRATED= 1.604E-04 SEC/SQ.M  
9.300E-04 1/M

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST  
RHODAMINE B RELEASE FROM ELEVATION OF 26M  
400M ARC SAMPLER HT 1.5M U= 5.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/U SEC/CU.M	E/U 1/SQ.M	DISTANCE METERS
3 90.0	1	1.143E-08	6.632E-08	400
5 94.0	5	5.301E-08	3.075E-07	400
4 98.0	95	9.511E-07	5.510E-06	400
102.0	258	2.584E-06	1.498E-05	400
106.0	320	3.207E-06	1.860E-05	400
110.0	195	1.959E-06	1.136E-05	400
114.0	362	3.622E-06	2.101E-05	400
118.0	393	3.934E-06	2.282E-05	400
122.0	320	3.207E-06	1.860E-05	400
126.0	54	5.457E-07	3.165E-06	400
4 130.0	19	1.923E-07	1.115E-06	400
4 134.0	5	5.925E-08	3.436E-07	400

CROSSWIND INTEGRATED= 5.676E-04 SEC/SQ.M  
3.292E-03 1/M



TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST  
 ZINC SULFIDE RELEASE FROM ELFVATION OF 26M  
 BOOM ARC SAMPLER HT 1.5M U= 5.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
93.2	0	0.	0.	799
95.1	25	2.544E-08	1.476E-07	802
97.1	32	3.244E-08	1.883E-07	806
99.1	98	9.825E-08	5.699E-07	809
101.1	196	1.965E-07	1.140E-06	813
103.0	812	8.123E-07	4.712E-06	816
105.0	693	6.930E-07	4.020E-06	820
106.9	1070	1.070E-06	6.207E-06	823
108.8	1250	1.251E-06	7.256E-06	826
110.7	793	7.930E-07	4.600E-06	829
112.6	1035	1.035E-06	6.004E-06	833
114.5	1464	1.465E-06	8.497E-06	836
116.4	1374	1.375E-06	7.975E-06	839
118.3	1603	1.604E-06	9.301E-06	842
120.2	1322	1.322E-06	7.668E-06	845
122.1	1421	1.421E-06	8.243E-06	848
124.0	761	7.614E-07	4.416E-06	851
125.8	435	4.351E-07	2.524E-06	854
127.7	142	1.421E-07	8.243E-07	857
129.5	62	6.228E-08	3.612E-07	859
131.4	14	1.491E-08	8.650E-08	862
133.2	0	0.	0.	865
135.0	15	1.579E-08	9.158E-08	867
136.8	1	1.754E-09	1.018E-08	869
138.7	6	6.141E-09	3.562E-08	872
140.6	1	1.754E-09	1.018E-08	874
142.4	0	0.	0.	876

CROSSWIND INTEGRATED= 4.059E-04 SEC/SQ.M 2.354E-03 1/M

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST  
 ZINC SULFIDE RELEASE FROM ELFVATION OF 26M  
 1200M ARC SAMPLER HT 1.5M U= 5.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
5 94.0	0	8.635E-10	5.008E-09	1200
96.0	19	1.921E-08	1.114E-07	1200
98.0	23	2.353E-08	1.365E-07	1200
5 100.0	34	3.476E-08	2.016E-07	1200
102.0	72	7.297E-08	4.232E-07	1200
104.0	311	3.115E-07	1.807E-06	1200
106.0	237	2.370E-07	1.375E-06	1200
108.0	646	6.468E-07	3.751E-06	1200
110.0	536	5.362E-07	3.110E-06	1200
112.0	725	7.260E-07	4.211E-06	1200
114.0	565	5.652E-07	3.278E-06	1200
116.0	815	8.156E-07	4.750E-06	1200
4 118.0	411	4.119E-07	2.389E-06	1200
120.0	497	4.972E-07	2.884E-06	1200
122.0	259	2.597E-07	1.506E-06	1200
124.0	301	3.014E-07	1.748E-06	1200
4 126.0	104	1.045E-07	6.060E-07	1200
128.0	136	1.362E-07	7.901E-07	1200
130.0	25	2.526E-08	1.455E-07	1200
132.0	3	3.022E-09	1.753E-08	1200
4 134.0	0	4.318E-10	2.504E-09	1200
136.0	0	0.	0.	1200

CROSSWIND INTEGRATED= 2.400E-04 SEC/SQ.M 1.392E-03 1/M

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST  
 RHODAMINE B RELEASE FROM ELFVATION OF 26M  
 BOOM ARC SAMPLER HT 1.5M U= 5.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
95.1	3	3.789E-08	2.198E-07	802
97.1	2	2.067E-08	1.199E-07	806
99.1	6	6.200E-08	3.596E-07	809
101.1	17	1.757E-07	1.019E-06	813
Z 103.0	87	8.783E-07	5.094E-06	816
105.0	80	8.094E-07	4.695E-06	820
106.9	94	9.472E-07	5.494E-06	823
108.8	108	1.085E-06	6.293E-06	826
110.7	9	9.300E-08	5.394E-07	829
112.6	84	8.439E-07	4.875E-06	833
114.5	115	1.154E-06	6.693E-06	836
116.4	91	9.128E-07	5.294E-06	839
118.3	80	8.094E-07	4.695E-06	842
120.2	63	6.372E-07	3.696E-06	845
122.1	77	7.750E-07	4.495E-06	848
124.0	39	3.961E-07	2.297E-06	851
125.8	24	2.480E-07	1.438E-06	854
127.7	13	1.343E-07	7.791E-07	857
129.5	3	3.100E-08	1.798E-07	859
131.4	0	0.	0.	862
133.2	0	0.	0.	865
135.0	0	0.	0.	867

CROSSWIND INTEGRATED= 2.786E-04 SEC/SQ.M 1.616E-03 1/M

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST  
 RHODAMINE B RELEASE FROM ELFVATION OF 26M  
 1200M ARC SAMPLER HT 1.5M U= 5.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
96.0	0	0.	0.	1200
4 98.0	6	6.047E-08	3.531E-07	1200
5 100.0	9	9.566E-08	5.548E-07	1200
102.0	17	1.710E-07	9.920E-07	1200
104.0	18	1.884E-07	1.093E-06	1200
106.0	47	4.783E-07	2.774E-06	1200
108.0	33	3.392E-07	1.967E-06	1200
110.0	39	3.913E-07	2.270E-06	1200
112.0	40	4.087E-07	2.371E-06	1200
114.0	49	4.957E-07	2.875E-06	1200
116.0	33	3.392E-07	1.967E-06	1200
4 118.0	56	5.653E-07	3.279E-06	1200
120.0	60	6.000E-07	3.480E-06	1200
122.0	40	4.087E-07	2.371E-06	1200
124.0	16	1.652E-07	9.583E-07	1200
4 126.0	18	1.884E-07	1.093E-06	1200
128.0	5	5.740E-08	3.329E-07	1200
130.0	4	4.870E-08	2.825E-07	1200
132.0	0	0.	0.	1200

CROSSWIND INTEGRATED= 2.095E-04 SEC/SQ.M 1.215E-03 1/M

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
1600M ARC SAMPLER HT 1.5M U= 5.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
97.6	6	6.089E-09	3.532E-08	1610
98.6	2	2.706E-09	1.570E-08	1611
99.6	37	3.789E-08	2.198E-07	1613
100.6	53	5.345E-08	3.100E-07	1615
101.6	79	7.984E-08	4.631E-07	1617
102.6	100	1.008E-07	5.847E-07	1618
103.6	89	8.931E-08	5.180E-07	1620
104.5	144	1.448E-07	8.398E-07	1622
105.5	129	1.249E-07	7.535E-07	1623
106.5	221	2.212E-07	1.283E-06	1625
107.5	98	9.878E-08	5.729E-07	1627
108.5	231	2.314E-07	1.342E-06	1628
109.5	410	4.107E-07	2.382E-06	1630
110.4	205	2.050E-07	1.189E-06	1632
111.4	148	1.489E-07	8.633E-07	1633
112.4	334	3.349E-07	1.943E-06	1635
113.4	250	2.503E-07	1.452E-06	1637
114.4	230	2.307E-07	1.338E-06	1638
115.3	221	2.212E-07	1.283E-06	1640
116.3	401	4.019E-07	2.331E-06	1641
117.3	338	3.340E-07	1.966E-06	1643
118.2	252	2.524E-07	1.464E-06	1644
119.2	326	3.261E-07	1.892E-06	1646
120.2	284	2.842E-07	1.646E-06	1647
121.2	125	1.258E-07	7.299E-07	1649
122.1	196	1.969E-07	1.142E-06	1650
123.1	105	1.056E-07	6.122E-07	1652
124.1	272	2.727E-07	1.581E-06	1653
125.0	135	1.360E-07	7.888E-07	1655
126.0	106	1.069E-07	6.200E-07	1656
126.9	71	7.104E-08	4.121E-07	1658
127.8	37	3.709E-08	2.198E-07	1659
128.8	24	2.436E-08	1.413E-07	1660
129.7	49	4.939E-08	2.865E-07	1662
130.6	9	9.472E-09	5.494E-08	1663
131.5	0	0.	0.	1664

CROSSWIND INTEGRATED= 1.597E-04 SEC/SG.M  
9.263E-04 1/M

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
2200M ARC SAMPLER HT 1.5M U= 5.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.0	3	3.651E-09	2.118E-08	2200
100.0	6	6.938E-09	4.024E-08	2200
102.0	5	5.117E-09	2.965E-08	2200
104.0	22	2.264E-08	1.313E-07	2200
106.0	35	3.542E-08	2.054E-07	2200
108.0	37	3.797E-08	2.202E-07	2200
110.0	135	1.358E-07	7.876E-07	2200
112.0	75	7.556E-08	4.384E-07	2200
114.0	62	6.244E-08	3.621E-07	2200
116.0	117	1.176E-07	6.819E-07	2200
5 118.0	52	5.221E-08	3.028E-07	2200
120.0	81	8.106E-08	4.701E-07	2200
122.0	41	4.199E-08	2.435E-07	2200
124.0	89	8.982E-08	5.210E-07	2200
126.0	59	5.988E-08	3.473E-07	2200
128.0	42	4.236E-08	2.457E-07	2200
130.0	0	0.	0.	2200
132.0	0	0.	0.	2200

CROSSWIND INTEGRATED= 6.690E-05 SEC/SG.M  
3.680E-04 1/M

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST  
MIDDAMINE B RELEASE FROM ELEVATION OF 26M  
1600M ARC SAMPLER HT 1.5M U= 5.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
98.6	10	1.022E-07	5.929E-07	1611
99.6	12	1.295E-07	7.510E-07	1613
100.6	17	1.772E-07	1.028E-06	1615
101.6	0	0.	0.	1617
102.6	13	1.363E-07	7.985E-07	1618
103.6	1	1.817E-08	1.054E-07	1620
104.5	10	1.022E-07	5.929E-07	1622
105.5	12	1.227E-07	7.114E-07	1623
106.5	14	1.431E-07	8.300E-07	1625
107.5	18	1.840E-07	1.067E-06	1627
108.5	15	1.567E-07	9.091E-07	1628
109.5	10	1.022E-07	5.929E-07	1630
110.4	15	1.567E-07	9.091E-07	1632
111.4	12	1.295E-07	7.510E-07	1633
112.4	17	1.772E-07	1.028E-06	1635
113.4	16	1.636E-07	9.486E-07	1637
114.4	19	1.908E-07	1.107E-06	1638
115.3	20	2.044E-07	1.186E-06	1640
116.3	8	8.178E-08	4.743E-07	1641
117.3	12	1.227E-07	7.114E-07	1643
118.2	15	1.567E-07	9.091E-07	1644
119.2	16	1.636E-07	9.486E-07	1646
120.2	17	1.704E-07	9.881E-07	1647
121.2	22	2.249E-07	1.304E-06	1649
122.1	35	3.521E-07	2.042E-06	1650
123.1	16	1.636E-07	9.486E-07	1652
124.1	13	1.363E-07	7.905E-07	1653
125.0	1	1.817E-08	1.054E-07	1655
126.0	11	1.158E-07	6.719E-07	1656
126.9	6	6.815E-08	3.953E-07	1658
127.8	8	8.859E-08	5.133E-07	1659
128.8	8	8.178E-08	4.743E-07	1660
129.7	6	6.133E-08	3.557E-07	1662
130.6	6	6.133E-08	3.557E-07	1663

CROSSWIND INTEGRATED= 1.241E-04 SEC/SG.M  
7.198E-04 1/M

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST  
MIDDAMINE B RELEASE FROM ELEVATION OF 26M  
2200M ARC SAMPLER HT 1.5M U= 5.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
104.0	8	8.629E-08	5.005E-07	2200
106.0	11	1.181E-07	6.852E-07	2200
108.0	13	1.367E-07	8.044E-07	2200
110.0	12	1.286E-07	7.449E-07	2200
112.0	14	1.490E-07	8.640E-07	2200
114.0	11	1.181E-07	6.852E-07	2200
116.0	20	2.003E-07	1.162E-06	2200
5 118.0	27	2.722E-07	1.579E-06	2200
120.0	16	1.695E-07	9.831E-07	2200
122.0	14	1.490E-07	8.640E-07	2200
4 124.0	12	1.286E-07	7.448E-07	2200
126.0	5	5.547E-08	3.217E-07	2200
128.0	5	5.239E-08	3.039E-07	2200
130.0	0	0.	0.	2200

CROSSWIND INTEGRATED= 1.356E-04 SEC/SG.M  
7.866E-04 1/M

TEST V1 OCTOBER 26, 1972 0930 TU 1000 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 3200M ARC SAMPLER HT 1.5M U= 5.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
97.8	1	1.826E-09	1.059E-08	3212
98.8	3	3.286E-09	1.906E-08	3213
99.8	22	2.227E-08	1.292E-07	3215
100.8	17	1.716E-08	9.953E-08	3217
101.8	10	1.059E-08	6.142E-08	3218
102.8	18	1.826E-08	1.059E-07	3220
103.8	33	3.323E-08	1.927E-07	3222
104.8	22	2.264E-08	1.313E-07	3224
105.8	57	5.733E-08	3.325E-07	3225
106.8	75	7.558E-08	4.384E-07	3227
107.8	78	7.814E-08	4.532E-07	3229
108.8	118	1.183E-07	6.062E-07	3230
109.7	129	1.296E-07	7.518E-07	3232
110.7	109	1.092E-07	6.332E-07	3233
111.7	94	9.493E-08	5.506E-07	3235
112.7	102	1.022E-07	5.930E-07	3237
113.7	143	1.435E-07	8.323E-07	3238
114.6	120	1.201E-07	6.967E-07	3240
115.6	104	1.041E-07	6.036E-07	3241
116.6	88	8.836E-08	5.125E-07	3243
117.6	123	1.238E-07	7.179E-07	3245
118.6	112	1.121E-07	6.502E-07	3246
119.5	58	5.806E-08	3.367E-07	3248
120.5	104	1.048E-07	6.078E-07	3249
121.5	63	6.353E-08	3.685E-07	3251
122.4	59	5.915E-08	3.431E-07	3252
123.4	98	9.859E-08	5.718E-07	3253
124.4	23	2.373E-08	1.377E-07	3255
125.4	86	8.690E-08	5.040E-07	3256
126.3	70	2.008E-08	1.165E-07	3258
127.3	7	7.668E-09	4.447E-08	3259
128.3	0	0.	0.	3261

CROSSWIND INTEGRATED= 1.167E-04 SEC/SQ.M 6.766E-04 1/M

TOWER DATA FOLLOW....

TEST V1 OCTOBER 26, 1972 0930 TU 1000 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 200M ARC U= 5.8 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM.M X10E+6	F/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
102.0	.4	2311	2.311E-06	1.340E-05	200
102.0	.8	2131	2.132E-06	1.236E-05	200
102.0	1.5	2073	2.073E-06	1.202E-05	200
102.0	2.5	2167	2.167E-06	1.257E-05	200
102.0	4.0	2119	2.119E-06	1.229E-05	200
102.0	5.5	2561	2.561E-06	1.485E-05	200
102.0	7.0	2601	2.602E-06	1.509E-05	200
102.0	8.5	3650	3.650E-06	2.117E-05	200
102.0	10.0	6857	6.857E-06	3.977E-05	200
102.0	13.0	6137	6.137E-06	3.560E-05	200
102.0	16.0	7789	7.788E-06	4.517E-05	200
102.0	19.0	11732	1.173E-05	6.805E-05	200
102.0	22.0	13178	1.318E-05	7.643E-05	200
102.0	25.0	12106	1.211E-05	7.022E-05	200
102.0	28.0	8014	8.014E-06	4.648E-05	200
102.0	31.0	7262	7.262E-06	4.212E-05	200
102.0	32.8	6920	6.921E-06	4.014E-05	200

TEST V1 OCTOBER 26, 1972 0930 TU 1000 PST  
 RHODAMINE B RELEASE FROM ELEVATION OF 26M  
 3200M ARC SAMPLER HT 1.5M U= 5.8 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
98.8	0	0.	0.	3213
99.8	1	1.335E-08	7.746E-08	3215
100.8	0	0.	0.	3217
101.8	0	0.	0.	3218
102.8	0	0.	0.	3220
103.8	0	0.	0.	3222
104.8	0	4.109E-09	2.383E-08	3224
105.8	1	1.438E-08	8.342E-08	3225
106.8	1	1.027E-08	5.958E-08	3227
107.8	1	1.233E-08	7.150E-08	3229
108.8	1	1.849E-08	1.072E-07	3230
109.7	1	1.746E-08	1.013E-07	3232
110.7	2	2.774E-08	1.609E-07	3233
111.7	6	6.164E-08	3.575E-07	3235
112.7	2	2.465E-08	1.430E-07	3237
113.7	2	2.465E-08	1.430E-07	3238
114.6	3	3.390E-08	1.966E-07	3240
115.6	2	2.465E-08	1.430E-07	3241
116.6	2	2.774E-08	1.609E-07	3243
117.6	1	1.849E-08	1.072E-07	3245
118.6	2	2.774E-08	1.609E-07	3246
119.5	5	5.547E-08	3.217E-07	3248
120.5	2	2.774E-08	1.609E-07	3249
121.5	2	2.157E-08	1.251E-07	3251
122.4	5	5.239E-08	3.039E-07	3252
123.4	1	1.027E-08	5.958E-08	3253
124.4	5	5.239E-08	3.039E-07	3255
125.4	2	2.157E-08	1.251E-07	3256
126.3	4	4.006E-08	2.324E-07	3258
127.3	1	1.644E-08	9.533E-08	3259
128.3	3	3.698E-08	2.145E-07	3261
129.3	2	2.465E-08	1.430E-07	3262
130.3	2	2.157E-08	1.251E-07	3263

CROSSWIND INTEGRATED= 4.119E-05 SEC/SQ.M 2.389E-04 1/M

TOWER DATA FOLLOW....

TEST V1 OCTOBER 26, 1972 0930 TU 1000 PST  
 RHODAMINE B RELEASE FROM ELEVATION OF 26M  
 200M ARC U= 5.8 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM.M X10E+6	F/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
102.0	.4	90	9.080E-07	5.266E-06	200
102.0	.8	72	7.300E-07	4.234E-06	200
102.0	1.5	72	7.300E-07	4.234E-06	200
102.0	2.5	62	6.231E-07	3.614E-06	200
102.0	4.0	80	8.012E-07	4.647E-06	200
102.0	5.5	97	9.792E-07	5.679E-06	200
102.0	7.0	112	1.122E-06	6.506E-06	200
102.0	8.5	186	1.869E-06	1.084E-05	200
102.0	10.0	272	2.724E-06	1.580E-05	200
102.0	13.0	283	2.831E-06	1.642E-05	200
102.0	16.0	614	6.142E-06	3.563E-05	200
102.0	19.0	0	0.	0.	200
102.0	22.0	0	0.	0.	200
102.0	25.0	635	6.356E-06	3.687E-05	200
102.0	28.0	528	5.288E-06	3.067E-05	200
102.0	31.0	493	4.932E-06	2.860E-05	200
102.0	32.8	421	4.220E-06	2.447E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/D SEC/CM	EU/D 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/D SEC/CM	EU/D 1/SQ.M	DISTANCE METERS		
0	110.0	.4	3443	3.443E-06	1.997E-05	200	0	110.0	.4	218	2.190E-06	1.270E-05	200
0	110.0	.8	2543	2.544E-06	1.475E-05	200	0	110.0	.8	144	1.442E-06	8.364E-06	200
110.0	1.5	5903	5.904E-06	3.424E-05	200	110.0	1.5	272	2.724E-06	1.580E-05	200		
110.0	2.5	3598	3.599E-06	2.087E-05	200	110.0	2.5	133	1.335E-06	7.745E-06	200		
110.0	4.0	6024	6.025E-06	3.494E-05	200	110.0	4.0	197	1.976E-06	1.146E-05	200		
110.0	5.5	4325	4.325E-06	2.509E-05	200	110.0	5.5	165	1.656E-06	9.604E-06	200		
110.0	7.0	7191	7.192E-06	4.171E-05	200	110.0	7.0	283	2.831E-06	1.642E-05	200		
110.0	8.5	9309	9.309E-06	5.399E-05	200	110.0	8.5	347	3.472E-06	2.014E-05	200		
110.0	10.0	13762	1.376E-05	7.982E-05	200	110.0	10.0	486	4.861E-06	2.819E-05	200		
110.0	13.0	15469	1.547E-05	8.972E-05	200	110.0	13.0	599	6.000E-06	3.480E-05	200		
110.0	16.0	14186	1.419E-05	8.228E-05	200	110.0	16.0	635	6.356E-06	3.687E-05	200		
110.0	19.0	8514	8.515E-06	4.939E-05	200	110.0	19.0	315	3.151E-06	1.828E-05	200		
110.0	22.0	18824	1.882E-05	1.092E-04	200	110.0	22.0	778	7.780E-06	4.513E-05	200		
110.0	25.0	17952	1.795E-05	1.041E-04	200	110.0	25.0	706	7.068E-06	4.103E-05	200		
110.0	28.0	13435	1.344E-05	7.793E-05	200	110.0	28.0	635	6.356E-06	3.687E-05	200		
110.0	31.0	14731	1.473E-05	8.544E-05	200	110.0	31.0	671	6.712E-06	3.893E-05	200		
110.0	32.8	13473	1.347E-05	7.814E-05	200	110.0	32.8	635	6.356E-06	3.687E-05	200		

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/D SEC/CM	EU/D 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/D SEC/CM	EU/D 1/SQ.M	DISTANCE METERS
118.0	.4	3220	3.221E-06	1.868E-05	200	118.0	.4	97	9.792E-07	5.679E-06	200
118.0	.8	4861	4.862E-06	2.820E-05	200	118.0	.8	115	1.157E-06	6.712E-06	200
118.0	1.5	3322	3.323E-06	1.927E-05	200	118.0	1.5	117	1.172E-06	6.506E-06	200
118.0	2.5	4140	4.140E-06	2.401E-05	200	118.0	2.5	140	1.407E-06	8.158E-06	200
S 118.0	4.0	4559	4.559E-06	2.644E-05	200	S 118.0	4.0	108	1.086E-06	6.299E-06	200
118.0	5.5	6664	6.664E-06	3.865E-05	200	118.0	5.5	165	1.656E-06	9.604E-06	200
118.0	7.0	11008	1.101E-05	6.385E-05	200	118.0	7.0	325	3.258E-06	1.890E-05	200
118.0	8.5	11481	1.148E-05	6.659E-05	200	118.0	8.5	368	3.685E-06	2.138E-05	200
118.0	10.0	17395	1.740E-05	1.009E-04	200	118.0	10.0	635	6.356E-06	3.687E-05	200
118.0	13.0	23295	2.330E-05	1.351E-04	200	118.0	13.0	778	7.780E-06	4.513E-05	200
118.0	16.0	20408	2.041E-05	1.184E-04	200	Z 118.0	16.0	1027	1.027E-05	5.958E-05	200
E 118.0	19.0	18615	1.862E-05	1.080E-04	200	L 118.0	19.0	0	0.	0.	200
118.0	22.0	16852	1.685E-05	9.774E-05	200	118.0	22.0	671	6.712E-06	3.893E-05	200
118.0	25.0	17964	1.796E-05	1.042E-04	200	118.0	25.0	635	6.356E-06	3.687E-05	200
118.0	28.0	15706	1.571E-05	9.110E-05	200	118.0	28.0	635	6.356E-06	3.687E-05	200
118.0	31.0	9999	9.999E-06	5.799E-05	200	118.0	31.0	421	4.210E-06	2.447E-05	200
118.0	32.8	8626	8.626E-06	5.003E-05	200	118.0	32.8	350	3.507E-06	2.034E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/D SEC/CM	EU/D 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/D SEC/CM	EU/D 1/SQ.M	DISTANCE METERS		
0	126.0	.4	774	7.743E-07	4.491E-06	200	0	126.0	.4	0	0.	200	
0	126.0	.8	320	3.208E-07	1.860E-06	200	0	126.0	.8	12	1.282E-07	7.435E-07	200
126.0	1.5	520	5.205E-07	3.019E-06	200	126.0	1.5	41	4.166E-07	2.416E-06	200		
126.0	2.5	1091	1.091E-06	6.328E-06	200	126.0	2.5	30	3.096E-07	1.797E-06	200		
126.0	4.0	1593	1.594E-06	9.244E-06	200	126.0	4.0	36	3.632E-07	2.107E-06	200		
126.0	5.5	1321	1.321E-06	7.662E-06	200	126.0	5.5	44	4.451E-07	2.582E-06	200		
126.0	7.0	2684	2.685E-06	1.557E-05	200	126.0	7.0	55	5.519E-07	3.201E-06	200		
126.0	8.5	3335	3.335E-06	1.934E-05	200	126.0	8.5	65	6.588E-07	3.821E-06	200		
126.0	10.0	3706	3.707E-06	2.150E-05	200	126.0	10.0	105	1.050E-06	6.093E-06	200		
S 126.0	13.0	2988	2.989E-06	1.733E-05	200	S 126.0	13.0	112	1.122E-06	6.506E-06	200		
126.0	16.0	5897	5.897E-06	3.415E-05	200	126.0	16.0	144	1.442E-06	8.364E-06	200		
126.0	19.0	4892	4.892E-06	2.837E-05	200	126.0	19.0	176	1.763E-06	1.022E-05	200		
126.0	22.0	4444	4.444E-06	2.578E-05	200	126.0	22.0	154	1.549E-06	8.984E-06	200		
126.0	25.0	4376	4.376E-06	2.538E-05	200	126.0	25.0	176	1.763E-06	1.022E-05	200		
126.0	28.0	4921	4.921E-06	2.854E-05	200	126.0	28.0	186	1.869E-06	1.084E-05	200		
126.0	31.0	4763	4.763E-06	2.763E-05	200	126.0	31.0	251	2.510E-06	1.456E-05	200		
126.0	32.8	3569	3.569E-06	2.070E-05	200	126.0	32.8	154	1.549E-06	8.984E-06	200		

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/D SEC/CM	EU/D 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/D SEC/CM	EU/D 1/SQ.M	DISTANCE METERS
134.0	.4	258	2.585E-07	1.500E-06	200	134.0	.4	0	0.	0.	200
134.0	.8	61	6.126E-08	3.553E-07	200	134.0	.8	0	0.	0.	200
134.0	1.5	106	1.061E-07	6.154E-07	200	134.0	1.5	0	0.	0.	200
134.0	2.5	43	4.376E-08	2.536E-07	200	134.0	2.5	0	0.	0.	200
134.0	4.0	107	1.080E-07	6.263E-07	200	134.0	4.0	0	0.	0.	200
134.0	5.5	55	5.549E-08	3.219E-07	200	134.0	5.5	0	0.	0.	200
134.0	7.0	85	8.522E-08	4.943E-07	200	134.0	7.0	0	0.	0.	200
134.0	8.5	205	2.050E-07	1.189E-06	200	134.0	8.5	0	0.	0.	200
134.0	10.0	89	8.999E-08	5.219E-07	200	134.0	10.0	0	0.	0.	200
134.0	13.0	156	1.569E-07	9.103E-07	200	L 134.0	13.0	0	0.	0.	200
134.0	16.0	323	3.237E-07	1.877E-06	200	134.0	16.0	0	7.122E-09	4.131E-08	200
134.0	19.0	541	5.414E-07	3.140E-06	200	134.0	19.0	0	0.	0.	200
134.0	22.0	654	6.542E-07	3.794E-06	200	134.0	22.0	0	0.	0.	200
134.0	25.0	541	5.415E-07	3.141E-06	200	134.0	25.0	0	0.	0.	200
134.0	28.0	850	8.506E-07	4.933E-06	200	134.0	28.0	0	0.	0.	200
134.0	31.0	981	9.810E-07	5.694E-06	200	134.0	31.0	3	3.205E-08	1.859E-07	200
134.0	32.8	558	5.581E-07	3.237E-06	200	134.0	32.8	0	3.561E-09	2.065E-08	200

TOWER DATA FOLLOW....

TEST V1 OCTOBER 26, 1972 0930 TU 1000 PST  
ZINC SULFIDE RELEASE FROM ELFVIATION OF 26M  
80GM ARC U= 5.8 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/D SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
105.0	.3	1997	1.997E-06	1.158E-05	820
105.0	.5	1435	1.436E-06	8.327E-06	820
105.0	1.1	1603	1.603E-06	9.300E-06	820
105.0	1.5	693	6.930E-07	4.020E-06	820
105.0	2.1	1935	1.936E-06	1.123E-05	820
105.0	4.2	1305	1.305E-06	7.572E-06	820
105.0	6.3	1270	1.270E-06	7.387E-06	820
105.0	8.4	1336	1.337E-06	7.753E-06	820
105.0	10.5	1238	1.239E-06	7.185E-06	820
105.0	12.6	974	9.746E-07	5.653E-06	820
105.0	14.7	1031	1.032E-06	5.983E-06	820
105.0	16.8	996	9.960E-07	5.777E-06	820
105.0	18.8	1094	1.094E-06	6.345E-06	820
105.0	25.2	827	8.271E-07	4.797E-06	820
105.0	29.4	890	8.907E-07	5.166E-06	820
105.0	33.6	807	8.077E-07	4.684E-06	820
105.0	37.8	725	7.251E-07	4.206E-06	820
105.0	42.0	496	4.965E-07	2.880E-06	820

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/D SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
112.6	.3	1935	1.935E-06	1.122E-05	833
112.6	.5	1607	1.608E-06	9.325E-06	833
112.6	1.1	1549	1.550E-06	8.989E-06	833
112.6	1.5	1035	1.035E-06	6.004E-06	833
112.6	2.1	1227	1.227E-06	7.117E-06	833
112.6	4.2	1621	1.621E-06	9.404E-06	833
112.6	6.3	1191	1.191E-06	6.910E-06	833
112.6	8.4	1360	1.360E-06	7.889E-06	833
112.6	10.5	1661	1.661E-06	9.635E-06	833
112.6	12.6	1423	1.424E-06	8.256E-06	833
E 112.6	14.7	1431	1.432E-06	8.304E-06	833
112.6	16.8	1478	1.478E-06	8.575E-06	833
E 112.6	21.0	1361	1.362E-06	7.897E-06	833
112.6	25.2	1291	1.292E-06	7.493E-06	833
112.6	29.4	1128	1.129E-06	6.548E-06	833
112.6	33.6	1402	1.403E-06	8.136E-06	833
112.6	37.8	1219	1.219E-06	7.073E-06	833
112.6	42.0	1203	1.203E-06	6.978E-06	833

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/D SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
120.2	.3	1699	1.700E-06	9.857E-06	845
120.2	.5	1308	1.308E-06	7.587E-06	845
120.2	1.1	1544	1.545E-06	8.960E-06	845
120.2	1.5	1322	1.322E-06	7.668E-06	845
120.2	2.1	1054	1.054E-06	6.116E-06	845
120.2	4.2	1089	1.089E-06	6.318E-06	845
120.2	6.3	1194	1.194E-06	6.927E-06	845
120.2	8.4	1192	1.192E-06	6.915E-06	845
120.2	10.5	1219	1.220E-06	7.075E-06	845
120.2	12.6	1118	1.118E-06	6.486E-06	845
S 120.2	14.7	766	7.663E-07	4.444E-06	845
120.2	16.8	1396	1.396E-06	7.098E-06	845
120.2	21.0	1282	1.282E-06	7.437E-06	845
120.2	25.2	1367	1.368E-06	7.932E-06	845
120.2	29.4	849	8.494E-07	4.926E-06	845
120.2	33.6	1304	1.304E-06	7.565E-06	845
120.2	37.8	1356	1.356E-06	7.866E-06	845
120.2	42.0	1225	1.225E-06	7.106E-06	845

TOWER DATA FOLLOW....

TEST V1 OCTOBER 26, 1972 0930 TU 1000 PST  
PHOSPHAMINE B RELEASE FROM ELFVIATION OF 26M  
80GM ARC U= 5.8 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/D SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
105.0	.3	67	6.372E-07	3.696E-06	820
105.0	.5	43	4.306E-07	2.497E-06	820
105.0	1.1	53	5.339E-07	3.097E-06	820
105.0	1.5	80	8.094E-07	4.695E-06	820
105.0	2.1	56	5.683E-07	3.296E-06	820
105.0	4.2	53	5.339E-07	3.097E-06	820
105.0	6.3	53	5.339E-07	3.097E-06	820
105.0	8.4	56	5.683E-07	3.296E-06	820
105.0	10.5	46	4.650E-07	2.697E-06	820
105.0	12.6	46	4.650E-07	2.697E-06	820
105.0	14.7	43	4.306E-07	2.497E-06	820
105.0	16.8	22	2.239E-07	1.299E-06	820
105.0	21.0	29	2.976E-07	1.698E-06	820
105.0	25.2	22	2.239E-07	1.299E-06	820
105.0	29.4	18	1.894E-07	1.099E-06	820
105.0	33.6	22	2.239E-07	1.299E-06	820
105.0	37.8	22	2.239E-07	1.299E-06	820
105.0	42.0	25	2.583E-07	1.498E-06	820

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/D SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
112.6	.3	67	6.717E-07	3.896E-06	833
112.6	.5	63	6.372E-07	3.696E-06	833
112.6	1.1	53	5.339E-07	3.097E-06	833
112.6	1.5	84	8.439E-07	4.895E-06	833
112.6	2.1	60	6.075E-07	3.496E-06	833
112.6	4.2	74	7.406E-07	4.295E-06	833
112.6	6.3	67	6.717E-07	3.896E-06	833
112.6	8.4	70	7.061E-07	4.095E-06	833
112.6	10.5	74	7.406E-07	4.295E-06	833
112.6	12.6	67	6.717E-07	3.896E-06	833
T 112.6	14.7	6	U.	0.	833
112.6	16.8	74	7.406E-07	4.295E-06	833
T 112.6	21.0	6	6.544E-08	3.796E-07	833
112.6	25.2	70	7.061E-07	4.095E-06	833
112.6	29.4	60	6.075E-07	3.496E-06	833
112.6	33.6	60	6.075E-07	3.496E-06	833
112.6	37.8	49	4.944E-07	2.897E-06	833
112.6	42.0	46	4.650E-07	2.697E-06	833

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/D SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
120.2	.3	46	4.650E-07	2.697E-06	845
120.2	.5	49	4.994E-07	2.897E-06	845
120.2	1.1	53	5.339E-07	3.097E-06	845
120.2	1.5	63	6.372E-07	3.696E-06	845
120.2	2.1	55	5.339E-07	3.097E-06	845
120.2	4.2	53	5.339E-07	3.097E-06	845
120.2	6.3	46	4.650E-07	2.697E-06	845
120.2	8.4	53	5.339E-07	3.097E-06	845
120.2	10.5	53	5.339E-07	3.097E-06	845
120.2	12.6	53	5.339E-07	3.097E-06	845
S 120.2	14.7	18	1.894E-07	1.099E-06	845
120.2	16.8	56	5.683E-07	3.296E-06	845
120.2	21.0	56	5.683E-07	3.296E-06	845
120.2	25.2	56	5.683E-07	3.296E-06	845
120.2	29.4	36	3.617E-07	2.098E-06	845
120.2	33.6	53	5.339E-07	3.097E-06	845
120.2	37.8	56	5.683E-07	3.296E-06	845
120.2	42.0	56	5.683E-07	3.296E-06	845

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
127.7	.3	269	2.693E-07	1.562E-06	857	127.7	.3	4	4.133E-08	2.397E-07	857
127.7	.5	257	2.576E-07	1.494E-06	857	127.7	.5	3	3.789E-08	2.198E-07	857
127.7	1.1	332	3.322E-07	1.927E-06	857	127.7	1.1	3	3.789E-08	2.198E-07	857
127.7	1.5	142	1.421E-07	8.243E-07	857	127.7	1.5	13	1.343E-07	7.791E-07	857
127.7	2.1	168	1.687E-07	9.782E-07	857	127.7	2.1	4	4.822E-08	2.797E-07	857
127.7	4.2	216	2.167E-07	1.257E-06	857	127.7	4.2	3	3.789E-08	2.198E-07	857
127.7	6.3	233	2.335E-07	1.354E-06	857	127.7	6.3	5	5.856E-08	3.396E-07	857
127.7	8.4	258	2.588E-07	1.501E-06	857	127.7	8.4	5	5.856E-08	3.396E-07	857
127.7	10.5	240	2.405E-07	1.395E-06	857	127.7	10.5	5	5.856E-08	3.396E-07	857
127.7	12.6	197	1.975E-07	1.146E-06	857	127.7	12.6	5	5.511E-08	3.196E-07	857
127.7	14.7	225	2.255E-07	1.308E-06	857	127.7	14.7	6	6.200E-08	3.596E-07	857
127.7	16.8	365	3.651E-07	2.118E-06	857	127.7	16.8	7	7.922E-08	4.595E-07	857
127.7	21.0	220	2.205E-07	1.279E-06	857	127.7	21.0	9	9.300E-08	5.394E-07	857
127.7	25.2	266	2.670E-07	1.548E-06	857	127.7	25.2	10	1.033E-07	5.993E-07	857
127.7	29.4	341	3.410E-07	1.978E-06	857	127.7	29.4	11	1.137E-07	6.593E-07	857
127.7	33.6	315	3.158E-07	1.831E-06	857	127.7	33.6	11	1.137E-07	6.593E-07	857
127.7	37.8	328	3.282E-07	1.904E-06	857	127.7	37.8	10	1.033E-07	5.993E-07	857
127.7	42.0	200	2.008E-07	1.164E-06	857	127.7	42.0	10	1.033E-07	5.993E-07	857

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
135.0	.3	33	3.367E-08	1.953E-07	867	N 135.0	.3	0	0.	0.	867
135.0	.5	25	2.576E-08	1.494E-07	867						
135.0	1.1	0	0.	0.	867						
135.0	1.5	15	1.579E-08	9.150E-08	867						

TOWER DATA FOLLOW....

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
1600M ARC U = 5.8 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
101.6	.2	109	1.092E-07	6.336E-07	1617
101.6	.4	142	1.429E-07	8.291E-07	1617
101.6	.8	98	9.885E-08	5.733E-07	1617
101.6	1.5	79	7.984E-08	4.631E-07	1617
C 101.6	1.6	73	7.351E-08	4.264E-07	1617
C 101.6	3.1	97	9.780E-08	5.672E-07	1617
C 101.6	6.2	72	7.266E-08	4.215E-07	1617
C 101.6	9.3	83	8.327E-08	4.829E-07	1617
C 101.6	12.4	59	5.995E-08	3.477E-07	1617
C 101.6	15.5	73	7.324E-08	4.248E-07	1617
C 101.6	18.6	83	8.378E-08	4.859E-07	1617
C 101.6	21.7	132	1.327E-07	7.699E-07	1617
H 101.6	24.8	57	5.749E-08	3.335E-07	1617
H 101.6	31.0	164	1.649E-07	9.561E-07	1617
H 101.6	37.2	89	8.992E-08	5.215E-07	1617
H 101.6	43.4	72	7.256E-08	4.208E-07	1617
H 101.6	49.6	132	1.327E-07	7.698E-07	1617
H 101.6	55.8	103	1.032E-07	5.987E-07	1617
H 101.6	62.0	77	7.762E-08	4.502E-07	1617

TOWER DATA FOLLOW....

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST  
RHODAMINE B RELEASE FROM ELEVATION OF 26M  
1600M ARC U = 5.0 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
101.6	.2	0	0.	0.	1617

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
109.5	.2	421	4.219E-07	2.447E-06	1630
109.5	.4	352	3.527E-07	2.046E-06	1630
109.5	.8	462	4.626E-07	2.683E-06	1630
109.5	1.5	410	4.107E-07	2.382E-06	1630
109.5	1.6	282	2.821E-07	1.636E-06	1630
109.5	3.1	222	2.229E-07	1.293E-06	1630
109.5	6.2	360	3.609E-07	2.093E-06	1630
109.5	9.3	374	3.745E-07	2.172E-06	1630
109.5	12.4	303	3.038E-07	1.762E-06	1630
109.5	15.5	358	3.587E-07	2.080E-06	1630
109.5	18.6	373	3.736E-07	2.167E-06	1630
109.5	21.7	406	4.067E-07	2.359E-06	1630
109.5	24.8	328	3.285E-07	1.905E-06	1630
109.5	31.0	332	3.321E-07	1.926E-06	1630
109.5	37.2	327	3.273E-07	1.898E-06	1630
109.5	43.4	349	3.493E-07	2.026E-06	1630
109.5	49.6	293	2.930E-07	1.699E-06	1630
109.5	55.8	369	3.698E-07	2.145E-06	1630
109.5	62.0	310	3.101E-07	1.796E-06	1630

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
109.5	.2	3	3.634E-08	2.108E-07	1630
109.5	.4	2	2.044E-08	1.186E-07	1630
109.5	.8	5	5.225E-08	3.030E-07	1630
109.5	1.5	10	1.022E-07	5.929E-07	1630
109.5	1.6	8	8.178E-08	4.743E-07	1630
109.5	3.1	8	8.178E-08	4.743E-07	1630
109.5	6.2	8	8.859E-08	5.138E-07	1630
109.5	9.3	7	7.446E-08	4.348E-07	1630
109.5	12.4	7	7.446E-08	4.348E-07	1630
109.5	15.5	12	1.295E-07	7.510E-07	1630
109.5	18.6	7	7.446E-08	4.348E-07	1630
109.5	21.7	7	7.446E-08	4.348E-07	1630
109.5	24.8	8	8.859E-08	5.138E-07	1630
109.5	31.0	9	9.541E-08	5.533E-07	1630
109.5	37.2	8	8.178E-08	4.743E-07	1630
109.5	43.4	5	5.452E-08	3.162E-07	1630
109.5	49.6	4	4.089E-08	2.372E-07	1630
109.5	55.8	9	9.541E-08	5.533E-07	1630
109.5	62.0	9	9.541E-08	5.533E-07	1630

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/D SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/D SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
117.3	.2	296	2.966E-07	1.720E-06	1643	117.3	.2	8	8.859E-08	5.138E-07	1643
117.3	.4	463	4.635E-07	2.608E-06	1643	117.3	.4	6	6.133E-08	3.557E-07	1643
117.3	.8	281	2.819E-07	1.635E-06	1643	117.3	.8	6	6.133E-08	3.557E-07	1643
117.3	1.5	338	3.390E-07	1.966E-06	1643	117.3	1.5	17	1.277E-07	7.114E-07	1643
117.3	1.6	398	3.980E-07	2.309E-06	1643	117.3	1.6	4	4.770E-08	2.767E-07	1643
117.3	3.1	359	3.595E-07	2.085E-06	1643	117.3	3.1	7	7.496E-08	4.348E-07	1643
117.3	6.2	372	3.727E-07	2.161E-06	1643	117.3	6.2	8	8.174E-08	4.743E-07	1643
117.3	12.4	408	4.080E-07	2.371E-06	1643	117.3	9.3	8	8.859E-08	5.138E-07	1643
117.3	15.5	426	4.262E-07	2.472E-06	1643	117.3	12.4	6	6.815E-08	3.953E-07	1643
117.3	18.6	320	3.200E-07	1.856E-06	1643	117.3	15.5	19	1.908E-07	1.107E-06	1643
117.3	21.7	497	4.980E-07	2.888E-06	1643	117.3	18.6	9	9.541E-08	5.533E-07	1643
117.3	24.8	376	3.767E-07	2.185E-06	1643	117.3	21.7	7	7.496E-08	4.348E-07	1643
117.3	31.0	411	4.115E-07	2.387E-06	1643	117.3	24.8	10	1.072E-07	5.929E-07	1643
117.3	37.2	377	3.779E-07	2.192E-06	1643	117.3	31.0	10	1.072E-07	5.929E-07	1643
117.3	43.4	319	3.200E-07	1.856E-06	1643	117.3	37.2	11	1.158E-07	6.719E-07	1643
117.3	49.6	221	2.212E-07	1.283E-06	1643	117.3	43.4	9	9.541E-08	5.533E-07	1643
117.3	55.8	401	4.017E-07	2.330E-06	1643	117.3	49.6	7	3.407E-08	1.976E-07	1643
117.3	62.0	135	1.351E-07	7.833E-07	1643	117.3	55.8	8	8.859E-08	5.138E-07	1643
						117.3	62.0	0	0.	0.	1643

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/D SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/D SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
S 125.0	.2	116	1.163E-07	6.748E-07	1655	S 125.0	.2	0	0.	0.	1655
125.0	.4	151	1.514E-07	8.781E-07	1655	125.0	.4	0	4.543E-09	2.635E-08	1655
125.0	.8	168	1.684E-07	9.765E-07	1655	125.0	.8	0	0.	0.	1655
125.0	1.5	135	1.360E-07	7.888E-07	1655	U 125.0	1.5	1	1.817E-08	1.054E-07	1655
Z 125.0	1.6	169	1.695E-07	9.834E-07	1655	Z 125.0	1.6	0	2.272E-09	1.318E-08	1655
125.0	3.1	177	1.770E-07	1.027E-06	1655	125.0	3.1	0	0.	0.	1655
125.0	6.2	151	1.512E-07	8.771E-07	1655	125.0	6.2	0	2.272E-09	1.318E-08	1655
125.0	9.3	164	1.642E-07	9.522E-07	1655	125.0	9.3	0	0.	0.	1655
Z 125.0	12.4	136	1.361E-07	7.895E-07	1655	S 125.0	12.4	0	0.	0.	1655
125.0	15.5	127	1.275E-07	7.395E-07	1655	125.0	15.5	0	4.543E-09	2.635E-08	1655
125.0	18.6	136	1.369E-07	7.940E-07	1655	125.0	18.6	0	2.272E-09	1.318E-08	1655
S 125.0	21.7	98	9.892E-08	5.737E-07	1655	S 125.0	21.7	0	0.	0.	1655
125.0	24.8	164	1.644E-07	9.538E-07	1655	125.0	24.8	0	4.543E-09	2.635E-08	1655
125.0	31.0	164	1.644E-07	9.538E-07	1655	125.0	31.0	0	6.815E-08	3.952E-07	1655
125.0	37.2	119	1.199E-07	6.954E-07	1655	125.0	37.2	0	9.086E-09	5.270E-08	1655
S 125.0	43.4	119	1.197E-07	6.945E-07	1655	S 125.0	43.4	0	0.	0.	1655
125.0	49.6	140	1.405E-07	8.148E-07	1655	125.0	49.6	0	9.086E-09	5.270E-08	1655
S 125.0	55.8	149	1.498E-07	8.689E-07	1655	S 125.0	55.8	0	0.	0.	1655
S 125.0	62.0	93	9.392E-08	5.447E-07	1655	S 125.0	62.0	0	0.	0.	1655

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/D SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/D SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
N 132.5	.2	0	0.	0.	1665	N 132.5	.2	0	0.	0.	1665

TOWER DATA FOLLOW....

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 3200M ARC U= 5.8 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/D SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
99.8	.2	33	3.374E-08	1.957E-07	3215
99.8	.4	17	1.767E-08	1.025E-07	3215
99.8	.8	16	1.683E-08	9.762E-08	3215
99.8	1.5	22	2.277E-08	1.292E-07	3215
99.8	1.6	14	1.461E-08	8.471E-08	3215
99.8	3.1	12	1.237E-08	7.177E-08	3215
99.8	6.2	19	1.978E-08	1.147E-07	3215
L 99.8	9.3	0	0.	0.	3215
99.8	12.4	21	2.162E-08	1.254E-07	3215
99.8	15.5	19	1.906E-08	1.105E-07	3215
99.8	18.6	20	2.049E-08	1.188E-07	3215
99.8	21.7	26	2.630E-08	1.525E-07	3215
99.8	24.8	14	1.495E-08	8.671E-08	3215
99.8	31.0	26	2.614E-08	1.516E-07	3215
99.8	37.2	12	1.213E-08	7.033E-08	3215
99.8	43.4	28	2.818E-08	1.634E-07	3215
99.8	49.6	9	9.442E-09	5.476E-08	3215
99.8	55.8	16	1.679E-08	9.736E-08	3215
99.8	62.0	26	2.623E-08	1.521E-07	3215

TOWER DATA FOLLOW....

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST  
 RHODAMINE B RELEASE FROM ELEVATION OF 26M  
 3200M ARC U= 5.8 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/D SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
N 99.8	.2	0	0.	0.	3215

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/D SEC/CM	EU/W 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/D SEC/CM	EU/W 1/SQ.M	DISTANCE METERS
107.8	.2	71	7.149E-08	4.147E-07	3229	107.8	.2	1	1.849E-08	1.072E-07	3229
107.8	.4	81	8.194E-08	4.752E-07	3229	107.8	.4	1	1.644E-08	9.533E-08	3229
107.8	.8	84	8.442E-08	4.425E-07	3229	107.8	.8	1	1.746E-08	1.013E-07	3229
107.8	1.5	78	7.814E-08	4.932E-07	3229	107.8	1.5	1	1.233E-08	7.150E-08	3229
107.8	1.6	59	5.988E-08	3.473E-07	3229	107.8	1.6	1	1.746E-08	1.013E-07	3229
107.8	3.1	73	7.327E-08	4.250E-07	3229	107.8	3.1	1	1.438E-08	8.542E-08	3229
107.8	6.2	77	7.761E-08	4.501E-07	3229	107.8	6.2	1	1.438E-08	8.542E-08	3229
107.8	9.3	48	4.858E-08	2.818E-07	3229	107.8	9.3	2	2.260E-08	1.311E-07	3229
107.8	12.4	85	8.592E-08	4.983E-07	3229	107.8	12.4	1	1.644E-08	9.533E-08	3229
107.8	15.5	62	6.201E-08	3.596E-07	3229	107.8	15.5	0	5.136E-09	2.979E-08	3229
Z 107.8	18.6	85	8.531E-08	4.948E-07	3229	Z 107.8	18.6	1	1.952E-08	1.132E-07	3229
107.8	21.7	74	7.447E-08	4.319E-07	3229	107.8	21.7	1	1.849E-08	1.072E-07	3229
L 107.8	24.8	0	0.	0.	3229	L 107.8	24.8	0	0.	0.	3229
S 107.8	31.0	67	6.737E-08	3.907E-07	3229	S 107.8	31.0	1	1.027E-08	5.958E-08	3229
107.8	37.2	119	1.199E-07	6.955E-07	3229	107.8	37.2	2	2.157E-08	1.251E-07	3229
107.8	43.4	105	1.053E-07	6.166E-07	3229	107.8	43.4	2	2.055E-08	1.192E-07	3229
107.8	49.6	95	9.573E-08	5.552E-07	3229	107.8	49.6	2	2.055E-08	1.192E-07	3229
107.8	55.8	34	3.488E-08	2.023E-07	3229	107.8	55.8	2	2.363E-08	1.370E-07	3229
107.8	62.0	48	4.826E-08	2.799E-07	3229	107.8	62.0	0	0.	0.	3229

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/D SEC/CM	EU/W 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/D SEC/CM	EU/W 1/SQ.M	DISTANCE METERS
W 115.6	.2	66	6.676E-08	5.032E-07	3241	W 115.6	.2	2	2.774E-08	1.604E-07	3241
M 115.6	.4	94	9.479E-08	5.498E-07	3241	M 115.6	.4	3	3.390E-08	1.966E-07	3241
W 115.6	.8	101	1.018E-07	5.902E-07	3241	W 115.6	.8	3	3.082E-08	1.787E-07	3241
115.6	1.5	104	1.041E-07	6.036E-07	3241	115.6	1.5	2	2.465E-08	1.430E-07	3241
115.6	1.6	97	9.749E-08	5.654E-07	3241	115.6	1.6	3	3.698E-08	2.145E-07	3241
115.6	3.1	129	1.296E-07	7.517E-07	3241	115.6	3.1	4	4.006E-08	2.324E-07	3241
115.6	6.2	102	1.029E-07	5.966E-07	3241	115.6	6.2	3	3.082E-08	1.787E-07	3241
115.6	9.3	105	1.058E-07	6.134E-07	3241	115.6	9.3	4	4.006E-08	2.324E-07	3241
115.6	12.4	59	5.997E-08	3.478E-07	3241	115.6	12.4	1	1.233E-08	7.150E-08	3241
115.6	15.5	113	1.132E-07	6.566E-07	3241	115.6	15.5	4	4.006E-08	2.324E-07	3241
115.6	18.6	113	1.131E-07	6.559E-07	3241	115.6	18.6	2	2.157E-08	1.251E-07	3241
115.6	21.7	124	1.246E-07	7.226E-07	3241	115.6	21.7	3	3.390E-08	1.966E-07	3241
115.6	24.8	121	1.213E-07	7.033E-07	3241	115.6	24.8	0	9.240E-09	5.362E-08	3241
115.6	31.0	108	1.089E-07	6.314E-07	3241	115.6	31.0	3	3.082E-08	1.787E-07	3241
115.6	37.2	115	1.159E-07	6.726E-07	3241	115.6	37.2	2	2.157E-08	1.251E-07	3241
115.6	43.4	148	1.481E-07	8.588E-07	3241	115.6	43.4	4	4.931E-08	2.860E-07	3241
S 115.6	49.6	79	7.999E-08	4.640E-07	3241	S 115.6	49.6	1	1.849E-08	1.072E-07	3241
S 115.6	55.8	60	6.006E-08	3.484E-07	3241	S 115.6	55.8	0	6.164E-09	3.575E-08	3241
115.6	62.0	39	3.960E-08	2.297E-07	3241	115.6	62.0	0	6.164E-09	3.575E-08	3241

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/D SEC/CM	EU/W 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/D SEC/CM	EU/W 1/SQ.M	DISTANCE METERS
123.4	.2	82	8.274E-08	4.799E-07	3253	123.4	.2	2	2.157E-08	1.251E-07	3253
123.4	.4	75	7.551E-08	4.380E-07	3253	123.4	.4	1	1.849E-08	1.072E-07	3253
123.4	.8	56	5.623E-08	3.261E-07	3253	123.4	.8	1	1.541E-08	8.937E-08	3253
123.4	1.5	98	9.859E-08	5.718E-07	3253	123.4	1.5	1	1.072E-08	5.958E-08	3253
123.4	1.6	55	5.550E-08	3.219E-07	3253	123.4	1.6	1	1.849E-08	1.072E-07	3253
123.4	3.1	1	1.954E-09	1.133E-08	3253	123.4	3.1	0	0.	0.	3253
123.4	6.2	78	7.882E-08	4.572E-07	3253	123.4	6.2	0	0.	0.	3253
S 123.4	9.3	50	5.095E-08	2.955E-07	3253	S 123.4	9.3	0	0.	0.	3253
123.4	12.4	87	8.794E-08	5.100E-07	3253	123.4	12.4	0	0.	0.	3253
123.4	15.5	55	5.547E-08	3.217E-07	3253	123.4	15.5	0	0.	0.	3253
123.4	18.6	77	7.717E-08	4.476E-07	3253	123.4	18.6	0	0.	0.	3253
123.4	21.7	74	7.447E-08	4.319E-07	3253	123.4	21.7	0	0.	0.	3253
123.4	24.8	71	7.170E-08	4.159E-07	3253	123.4	24.8	0	0.	0.	3253
S 123.4	31.0	33	3.314E-08	1.922E-07	3253	S 123.4	31.0	0	0.	0.	3253
123.4	37.2	50	5.066E-08	2.938E-07	3253	123.4	37.2	0	0.	0.	3253
S 123.4	43.4	56	5.609E-08	3.253E-07	3253	S 123.4	43.4	0	0.	0.	3253
S 123.4	49.6	33	3.305E-08	1.917E-07	3253	S 123.4	49.6	0	0.	0.	3253
S 123.4	55.8	47	4.800E-08	2.784E-07	3253	S 123.4	55.8	0	0.	0.	3253
S 123.4	62.0	61	6.163E-08	3.575E-07	3253	S 123.4	62.0	0	0.	0.	3253

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/D SEC/CM	EU/W 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/D SEC/CM	EU/W 1/SQ.M	DISTANCE METERS
N 131.2	.2	0	0.	0.	3264	N 131.2	.2	0	0.	0.	3264



GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. FOLLOWING SOME EXTRAPOLATION AT SOUTH EDGE. ALL ARCS EMBRACE THE CROSSWIND EXTENT OF TRACER DISTRIBUTIONS. 13 OF 20 TOWERS "HIT" BY TRACERS; ALL VERTICAL DISTRIBUTIONS TRUNCATED AT TOP. ALTHO NO RAIN DURING TRACER RELEASE. PRIOR RAIN LEFT FILTERS WET; EFFECT, IF ANY, UNKNOWN.

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
200M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	E/U/Q 1/SQ.M	DISTANCE METERS
F 106.0	0	0.	0.	200
108.0	138	7.233E-08	3.182E-07	200
110.0	1621	8.489E-07	3.735E-06	200
112.0	3897	2.040E-06	8.978E-06	200
114.0	8999	4.712E-06	2.073E-05	200
116.0	12048	6.308E-06	2.776E-05	200
118.0	9137	4.784E-06	2.105E-05	200
120.0	10289	5.387E-06	2.370E-05	200
122.0	16570	8.676E-06	3.817E-05	200
124.0	10120	5.299E-06	2.331E-05	200
126.0	13389	7.010E-06	3.085E-05	200
128.0	10180	5.333E-06	2.345E-05	200
130.0	22281	1.167E-05	5.133E-05	200
132.0	24365	1.276E-05	5.613E-05	200
134.0	15725	8.233E-06	3.623E-05	200
136.0	15163	7.939E-06	3.493E-05	200
138.0	11164	5.845E-06	2.572E-05	200
140.0	15288	8.004E-06	3.522E-05	200
142.0	19867	1.040E-05	4.577E-05	200
144.0	42153	2.207E-05	9.711E-05	200
146.0	18798	9.947E-06	4.377E-05	200
148.0	19247	1.058E-05	4.434E-05	200
150.0	10259	5.371E-06	2.353E-05	200
152.0	5547	2.904E-06	1.278E-05	200
154.0	8601	4.503E-06	1.982E-05	200
156.0	1400	7.334E-07	3.227E-06	200
158.0	1476	7.732E-07	3.402E-06	200
B 160.0	1595	6.354E-07	3.676E-06	200
E 162.0	533	2.797E-07	1.229E-06	200
E 164.0	51	2.691E-08	1.184E-07	200
E 166.0	0	0.	0.	200

CROSSWIND INTEGRATED= 1.207E-03 SEC/SQ.M 5.309E-03 1/M

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST  
RHODAMINE B RELEASE FROM ELEVATION OF 26M  
200M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	E/U/Q 1/SQ.M	DISTANCE METERS
106.0	2	2.297E-08	1.011E-07	200
108.0	6	6.351E-08	2.795E-07	200
110.0	47	4.730E-07	2.081E-06	200
112.0	127	1.270E-06	5.589E-06	200
114.0	235	2.351E-06	1.035E-05	200
116.0	312	3.122E-06	1.374E-05	200
118.0	320	3.203E-06	1.407E-05	200
120.0	178	1.784E-06	7.847E-06	200
122.0	563	5.635E-06	2.479E-05	200
124.0	166	1.662E-06	7.314E-06	200
126.0	563	5.635E-06	2.479E-05	200
128.0	356	3.568E-06	1.570E-05	200
130.0	295	2.959E-06	1.302E-05	200
132.0	364	3.649E-06	1.605E-05	200
134.0	340	3.405E-06	1.476E-05	200
136.0	243	2.432E-06	1.070E-05	200
138.0	145	1.459E-06	6.422E-06	200
140.0	190	1.905E-06	8.384E-06	200
142.0	271	2.716E-06	1.195E-05	200
144.0	368	3.689E-06	1.623E-05	200
146.0	263	2.635E-06	1.159E-05	200
148.0	320	3.203E-06	1.407E-05	200
150.0	51	5.135E-07	2.259E-06	200
152.0	6	6.216E-08	2.735E-07	200
154.0	1	1.622E-08	7.135E-08	200
156.0	0	0.	0.	200
158.0	0	0.	0.	200
160.0	0	0.	0.	200

CROSSWIND INTEGRATED= 4.013E-04 SEC/SQ.M 1.766E-03 1/M

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
400M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	E/U/Q 1/SQ.M	DISTANCE METERS
106.0	0	2.026E-10	8.916E-10	400
110.0	99	5.188E-08	2.283E-07	400
114.0	4291	2.247E-06	9.886E-06	400
118.0	16801	8.796E-06	3.870E-05	400
122.0	18911	9.901E-06	4.356E-05	400
126.0	17900	9.372E-06	4.124E-05	400
130.0	27998	1.466E-05	6.450E-05	400
134.0	20761	1.097E-05	4.783E-05	400
138.0	18257	9.559E-06	4.206E-05	400
142.0	33542	1.756E-05	7.727E-05	400
146.0	34125	1.787E-05	7.861E-05	400
150.0	20837	1.091E-05	4.800E-05	400
B 154.0	5867	3.072E-06	1.352E-05	400
E 158.0	3095	1.621E-06	7.131E-06	400
E 162.0	95	5.026E-08	2.211E-07	400
E 166.0	0	0.	0.	400

CROSSWIND INTEGRATED= 3.254E-03 SEC/SQ.M 1.432E-02 1/M

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST  
RHODAMINE B RELEASE FROM ELEVATION OF 26M  
400M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	E/U/Q 1/SQ.M	DISTANCE METERS
106.0	0	0.	0.	400
110.0	3	3.077E-08	1.354E-07	400
114.0	188	1.880E-06	8.279E-06	400
118.0	661	6.615E-06	2.911E-05	400
122.0	862	8.627E-06	3.796E-05	400
126.0	744	7.444E-06	3.275E-05	400
130.0	1134	1.135E-05	4.994E-05	400
134.0	839	8.391E-06	3.692E-05	400
138.0	578	5.787E-06	2.540E-05	400
142.0	898	8.982E-06	3.952E-05	400
146.0	1221	1.222E-05	5.375E-05	400
Z 150.0	708	7.089E-06	3.119E-05	400
B 154.0	160	1.606E-06	7.064E-06	400
L 158.0	3	3.550E-08	1.562E-07	400
F 162.0	0	0.	0.	400

CROSSWIND INTEGRATED= 2.236E-03 SEC/SQ.M 9.836E-03 1/M

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
800M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
E 110.7	0	0.	0.	829
112.6	124	6.508E-09	2.864E-07	833
114.5	688	3.607E-07	1.587E-06	836
116.4	2327	1.219E-06	5.362E-06	839
118.3	3628	1.900E-06	8.360E-06	842
120.2	5457	2.857E-06	1.257E-05	845
122.1	9479	4.963E-06	2.184E-05	848
124.0	11036	5.778E-06	2.542E-05	851
125.8	9222	4.029E-06	2.125E-05	854
127.7	6477	3.391E-06	1.492E-05	857
129.5	5528	2.895E-06	1.274E-05	859
131.4	8193	4.290E-06	1.887E-05	862
133.2	5500	2.880E-06	1.267E-05	865
135.0	5799	3.036E-06	1.336E-05	867
136.8	10460	5.477E-06	2.410E-05	869
E 138.7	11910	6.236E-06	2.744E-05	872
140.6	13859	7.256E-06	3.193E-05	874
142.4	10506	5.501E-06	2.420E-05	876
144.2	19192	1.005E-05	4.421E-05	878
146.0	13907	7.281E-06	3.204E-05	880
147.8	15381	8.053E-06	3.543E-05	882
149.6	11663	6.106E-06	2.687E-05	884
151.4	7390	3.869E-06	1.702E-05	886
153.2	2467	1.292E-06	5.684E-06	887
155.0	1722	9.020E-07	3.969E-06	889
156.8	384	2.012E-07	8.854E-07	890
158.6	429	2.251E-07	9.934E-07	892
160.4	279	1.464E-07	6.443E-07	893
162.2	26	1.410E-08	6.205E-08	894

CROSSWIND INTEGRATED= 2.811E-03 SEC/SQ.M 1.237E-02 1/M

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
1200M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
E 110.0	0	0.	0.	1200
112.0	9	4.860E-09	2.138E-03	1200
114.0	25	1.356E-08	5.968E-08	1200
116.0	524	2.744E-07	1.207E-06	1200
118.0	1368	7.162E-07	3.151E-06	1200
120.0	1934	1.013E-06	4.457E-06	1200
122.0	2906	1.522E-06	6.695E-06	1200
124.0	3192	1.672E-06	7.355E-06	1200
126.0	6196	3.244E-06	1.427E-05	1200
128.0	4356	2.281E-06	1.004E-05	1200
130.0	6165	3.228E-06	1.420E-05	1200
132.0	3120	1.634E-06	7.189E-06	1200
134.0	4063	2.127E-06	9.360E-06	1200
136.0	5615	2.940E-06	1.294E-05	1200
138.0	6583	3.447E-06	1.517E-05	1200
140.0	3501	1.833E-06	8.067E-06	1200
142.0	5639	2.953E-06	1.299E-05	1200
144.0	8012	4.195E-06	1.846E-05	1200
146.0	5701	2.985E-06	1.313E-05	1200
148.0	3920	2.053E-06	9.033E-06	1200
150.0	3775	2.081E-06	9.158E-06	1200
152.0	2152	1.127E-06	4.958E-06	1200
154.0	1232	6.454E-07	2.840E-06	1200
R 156.0	297	1.557E-07	6.853E-07	1200
E 158.0	323	1.693E-07	7.450E-07	1200
E 160.0	64	3.368E-08	1.482E-07	1200
E 162.0	3	2.034E-09	8.952E-09	1200
E 164.0	0	0.	0.	1200

CROSSWIND INTEGRATED= 1.774E-03 SEC/SQ.M 7.805E-03 1/M

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST  
RHODAMINE B RELEASE FROM ELEVATION OF 26M  
800M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
Z 110.7	0	0.	0.	829
112.6	6	6.536E-08	2.876E-07	833
114.5	42	4.248E-07	1.869E-06	836
116.4	140	1.408E-06	6.195E-06	839
118.3	239	2.386E-06	1.050E-05	842
120.2	384	3.850E-06	1.694E-05	845
122.1	676	6.761E-06	2.975E-05	848
124.0	728	7.282E-06	3.204E-05	851
125.8	658	6.587E-06	2.898E-05	854
127.7	641	6.413E-06	2.822E-05	857
129.5	463	4.634E-06	2.039E-05	859
131.4	390	3.902E-06	1.717E-05	862
133.2	536	5.370E-06	2.363E-05	865
135.0	306	3.065E-06	1.349E-05	867
136.8	536	5.370E-06	2.363E-05	869
E 138.7	571	5.718E-06	2.516E-05	872
140.6	589	5.892E-06	2.592E-05	874
142.4	405	4.059E-06	1.786E-05	876
144.2	1006	1.006E-05	4.428E-05	878
146.0	763	7.630E-06	3.357E-05	880
147.8	554	5.544E-06	2.439E-05	882
149.6	416	4.163E-06	1.832E-05	884
151.4	238	2.386E-06	1.050E-05	886
153.2	81	8.131E-07	3.578E-06	887
155.0	64	6.431E-07	2.830E-06	889
156.8	23	2.366E-07	1.041E-06	890
158.6	28	2.889E-07	1.271E-06	892
160.4	3	3.791E-08	1.666E-07	893
162.2	2	2.614E-08	1.150E-07	894

CROSSWIND INTEGRATED= 2.918E-03 SEC/SQ.M 1.284E-02 1/M

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST  
RHODAMINE B RELEASE FROM ELEVATION OF 26M  
1200M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
110.0	0	0.	0.	1200
112.0	1	1.056E-08	4.647E-08	1200
114.0	1	1.232E-08	5.421E-08	1200
116.0	36	3.663E-07	1.612E-06	1200
Z 118.0	67	6.744E-07	2.967E-06	1200
Z 120.0	93	9.331E-07	4.108E-06	1200
122.0	122	1.226E-06	5.393E-06	1200
124.0	213	2.133E-06	9.385E-06	1200
126.0	274	2.747E-06	1.209E-05	1200
128.0	345	3.869E-06	1.702E-05	1200
130.0	342	3.429E-06	1.509E-05	1200
132.0	178	1.782E-06	7.840E-06	1200
134.0	134	1.343E-06	5.908E-06	1200
136.0	260	2.601E-06	1.144E-05	1200
138.0	222	2.221E-06	9.771E-06	1200
140.0	222	2.221E-06	9.771E-06	1200
142.0	224	2.258E-06	9.900E-06	1200
144.0	325	3.253E-06	1.431E-05	1200
146.0	342	3.429E-06	1.509E-05	1200
148.0	369	3.693E-06	1.625E-05	1200
150.0	172	1.723E-06	7.562E-06	1200
152.0	128	1.284E-06	5.651E-06	1200
154.0	53	5.336E-07	2.346E-06	1200
E 156.0	24	2.455E-07	1.080E-06	1200
E 158.0	6	6.601E-08	2.904E-07	1200
E 160.0	1	1.320E-08	5.809E-08	1200
E 162.0	0	0.	0.	1200

CROSSWIND INTEGRATED= 1.762E-03 SEC/SQ.M 7.752E-03 1/M

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 1600M ARC SAMPLER HT 1.5M U=4.4 M/SEC AT 26M

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST  
 DIMETHYLAMINE B RELEASE FROM ELEVATION OF 26M  
 1600M ARC SAMPLER HT 1.5M U=4.4 M/SEC AT 26M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
 DEGREES GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS  
 X10E+6

AZIMUTH EXPOSURE E/Q LU/Q DISTANCE  
 DEGREES GM-SEC/CU.M SEC/CU.M 1/SQ.M METERS  
 X10E+6

114.4	J	1.617E-09	7.116E-09	1638
115.3	37	1.981E-08	6.717E-08	1640
116.3	64	3.356E-08	1.477E-07	1641
117.3	231	1.213E-07	5.337E-07	1643
118.2	172	9.017E-08	3.967E-07	1644
119.2	258	1.355E-07	5.960E-07	1646
120.2	406	2.127E-07	9.358E-07	1647
E 121.2	708	3.712E-07	1.633E-06	1649
E 122.1	1079	5.653E-07	2.487E-06	1650
E 123.1	1388	7.270E-07	3.199E-06	1652
E 124.1	1697	8.897E-07	3.910E-06	1653
E 125.0	1929	1.010E-06	4.444E-06	1655
126.0	2002	1.048E-06	4.613E-06	1656
126.9	1760	9.215E-07	4.055E-06	1658
127.8	2445	1.281E-06	5.634E-06	1659
128.8	1869	9.789E-07	4.307E-06	1660
129.7	2692	1.410E-06	6.202E-06	1662
130.6	3035	1.589E-06	6.994E-06	1663
131.5	2438	1.277E-06	5.613E-06	1664
132.5	2605	1.364E-06	6.063E-06	1665
133.5	1806	9.497E-07	4.161E-06	1667
134.4	2091	1.095E-06	4.818E-06	1668
135.4	2317	1.214E-06	5.343E-06	1669
136.4	2977	1.559E-06	6.858E-06	1670
137.3	2784	1.458E-06	6.414E-06	1672
138.3	3435	1.799E-06	7.915E-06	1673
139.3	3134	1.641E-06	7.221E-06	1674
140.2	2846	1.490E-06	6.558E-06	1675
141.2	2689	1.408E-06	6.195E-06	1676
142.2	2470	1.293E-06	5.691E-06	1677
143.1	3506	1.836E-06	8.079E-06	1678
144.1	3738	1.957E-06	8.612E-06	1679
145.1	3257	1.705E-06	7.504E-06	1680
146.0	3734	1.955E-06	8.604E-06	1681
146.9	3283	1.719E-06	7.565E-06	1682
147.9	3606	1.888E-06	8.308E-06	1683
148.8	3056	1.600E-06	7.042E-06	1684
149.7	2604	1.364E-06	6.001E-06	1685
150.7	2043	1.070E-06	4.707E-06	1686
151.6	1983	1.038E-06	4.569E-06	1687
152.6	1026	5.374E-07	2.364E-06	1688
153.5	635	3.328E-07	1.464E-06	1688
E 154.5	481	2.519E-07	1.108E-06	1689
B 155.4	327	1.714E-07	7.543E-07	1690
L 156.4	222	1.164E-07	5.124E-07	1691
E 157.3	245	1.286E-07	5.657E-07	1691
E 158.3	261	1.367E-07	6.013E-07	1692
E 159.2	230	1.205E-07	5.302E-07	1693
E 160.2	145	7.601E-08	3.345E-07	1693
L 161.1	37	1.941E-08	8.540E-08	1694
E 162.0	6	3.235E-09	1.423E-08	1694
E 163.0	J	0.	0.	1695

113.4	0	0.	0.	1637
114.4	0	8.621E-10	3.793E-09	1638
115.3	0	8.621E-10	3.793E-09	1640
116.3	1	1.724E-08	7.586E-08	1641
117.3	7	7.414E-08	3.126E-07	1643
118.2	4	5.000E-08	2.200E-07	1644
119.2	9	9.397E-08	4.134E-07	1646
120.2	86	6.836E-07	3.888E-06	1647
E 121.2	83	6.388E-07	3.691E-06	1649
E 122.1	83	6.388E-07	3.691E-06	1650
E 123.1	83	6.388E-07	3.691E-06	1652
E 124.1	83	6.388E-07	3.691E-06	1653
E 125.0	83	6.388E-07	3.691E-06	1655
126.0	79	7.940E-07	3.493E-06	1656
126.9	126	1.263E-06	5.557E-06	1658
127.8	106	1.063E-06	4.671E-06	1659
128.8	153	1.539E-06	6.771E-06	1660
129.7	143	1.435E-06	6.316E-06	1662
130.6	126	1.263E-06	5.557E-06	1663
131.5	129	1.297E-06	5.739E-06	1664
132.5	136	1.366E-06	6.012E-06	1665
133.5	101	1.018E-06	4.480E-06	1667
134.4	129	1.297E-06	5.709E-06	1668
135.4	126	1.263E-06	5.557E-06	1669
136.4	153	1.539E-06	6.619E-06	1670
137.3	153	1.539E-06	6.771E-06	1672
138.3	153	1.539E-06	6.771E-06	1673
139.3	160	1.608E-06	7.074E-06	1674
140.2	146	1.470E-06	6.467E-06	1675
141.2	143	1.435E-06	6.316E-06	1676
142.2	184	1.849E-06	8.136E-06	1677
143.1	250	2.504E-06	1.102E-05	1678
144.1	250	2.504E-06	1.102E-05	1679
145.1	181	1.815E-06	7.964E-06	1680
146.0	184	1.849E-06	8.136E-06	1681
146.9	205	2.056E-06	9.047E-06	1682
147.9	195	1.953E-06	8.591E-06	1683
148.8	178	1.780E-06	7.833E-06	1684
149.7	146	1.470E-06	6.467E-06	1685
150.7	100	1.007E-06	4.243E-06	1686
151.6	79	7.940E-07	3.493E-06	1687
152.6	67	6.757E-07	2.851E-06	1688
153.5	40	4.017E-07	1.763E-06	1688
E 154.5	26	2.629E-07	1.157E-06	1689
B 155.4	19	1.974E-07	8.666E-07	1690
L 156.4	11	1.121E-07	4.931E-07	1691
E 157.3	4	5.000E-08	2.200E-07	1691
E 158.3	2	2.759E-08	1.214E-07	1692
E 159.2	0	0.	0.	1693

CROSSWIND INTEGRATED= 1.370E-03 SEC/SQ.M 6.030E-03 1/M

CROSSWIND INTEGRATED= 1.277E-03 SEC/SQ.M 5.618E-03 1/M

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
2200M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	L/U SEC/CM <sup>2</sup>	LU/U 1/SQ.M	DISTANCE METERS
116.0	6	3.204E-09	1.410E-08	2200
118.0	105	5.528E-08	2.432E-07	2200
120.0	212	1.114E-07	4.899E-07	2200
122.0	315	1.650E-07	7.261E-07	2200
124.0	826	4.326E-07	1.903E-06	2200
126.0	1084	5.680E-07	2.499E-06	2200
128.0	2432	1.273E-06	5.603E-06	2200
130.0	1230	6.441E-07	2.834E-06	2200
132.0	1351	7.078E-07	3.114E-06	2200
4 134.0	943	4.939E-07	2.173E-06	2200
136.0	1728	9.048E-07	3.981E-06	2200
138.0	2447	1.282E-06	5.639E-06	2200
140.0	2400	1.257E-06	5.530E-06	2200
142.0	1982	1.038E-06	4.568E-06	2200
144.0	1804	9.449E-07	4.157E-06	2200
146.0	2251	1.179E-06	5.188E-06	2200
148.0	1809	9.475E-07	4.169E-06	2200
150.0	1595	8.353E-07	3.675E-06	2200
152.0	1671	8.754E-07	3.852E-06	2200
154.0	429	2.249E-07	9.896E-07	2200
B 156.0	70	3.705E-08	1.630E-07	2200
E 158.0	79	4.166E-08	1.833E-07	2200
E 160.0	48	2.563E-08	1.128E-07	2200
F 162.0	0	0.	0.	2200

CROSSWIND INTEGRATED= 1.079E-03 SEC/SQ.M 4.746E-03 1/M

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
3200M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	L/U SEC/CM <sup>2</sup>	LU/U 1/SQ.M	DISTANCE METERS
E 120.5	0	0.	0.	3249
121.5	15	8.011E-09	3.525E-08	3251
122.4	62	3.214E-08	1.445E-07	3252
S 123.4	270	1.419E-07	6.239E-07	3253
124.4	518	2.714E-07	1.194E-06	3255
125.4	857	4.488E-07	1.975E-06	3256
126.3	851	4.456E-07	1.961E-06	3258
127.3	1594	8.347E-07	3.673E-06	3259
128.3	1197	6.271E-07	2.759E-06	3261
129.3	1182	6.190E-07	2.724E-06	3262
130.3	1168	6.116E-07	2.691E-06	3263
131.2	968	5.071E-07	2.231E-06	3264
132.2	1050	5.501E-07	2.421E-06	3266
133.2	694	3.635E-07	1.599E-06	3267
134.2	658	3.449E-07	1.517E-06	3268
135.2	412	2.159E-07	9.499E-07	3270
136.2	544	2.850E-07	1.254E-06	3271
137.1	611	3.200E-07	1.408E-06	3272
138.1	623	3.262E-07	1.435E-06	3273
139.1	602	3.156E-07	1.389E-06	3274
140.1	1131	5.924E-07	2.607E-06	3276
141.1	955	5.001E-07	2.200E-06	3277
142.0	1365	7.152E-07	3.147E-06	3278
143.0	1198	6.275E-07	2.761E-06	3279
144.0	1079	5.654E-07	2.488E-06	3280
145.0	1497	7.859E-07	3.449E-06	3281
146.0	1741	9.118E-07	4.012E-06	3282
146.9	1768	9.261E-07	4.075E-06	3283
147.9	2038	1.067E-06	4.695E-06	3284
148.9	2321	1.215E-06	5.347E-06	3285
149.9	1241	6.501E-07	2.860E-06	3286
150.9	727	3.409E-07	1.676E-06	3287
151.8	901	4.720E-07	2.077E-06	3287
152.8	513	2.688E-07	1.183E-06	3288
153.8	425	2.227E-07	9.799E-07	3289
154.8	134	7.030E-08	3.093E-07	3290
155.7	117	6.168E-08	2.714E-07	3290
B 156.7	148	7.771E-08	3.419E-07	3291
E 157.7	152	7.971E-08	3.507E-07	3292
E 158.7	94	4.967E-08	2.195E-07	3292
E 159.6	23	1.242E-08	5.463E-08	3293
E 160.6	3	1.602E-09	7.050E-09	3294
E 161.6	0	0.	0.	3294

CROSSWIND INTEGRATED= 9.821E-04 SEC/SQ.M 4.321E-03 1/M

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST  
METHAMINE B RELEASE FROM ELEVATION OF 26M  
2200M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	L/U SEC/CM <sup>2</sup>	LU/U 1/SQ.M	DISTANCE METERS
114.0	0	0.	0.	2200
116.0	6	7.797E-10	3.431E-09	2200
118.0	5	5.169E-08	2.281E-07	2200
120.0	11	1.158E-07	5.095E-07	2200
122.0	17	1.715E-07	7.546E-07	2200
124.0	39	3.996E-07	1.758E-06	2200
126.0	107	1.070E-06	4.709E-06	2200
128.0	121	1.211E-06	5.326E-06	2200
130.0	53	5.400E-07	2.376E-06	2200
132.0	78	7.895E-07	3.474E-06	2200
134.0	102	1.023E-06	4.503E-06	2200
136.0	100	1.008E-06	4.434E-06	2200
138.0	144	1.444E-06	6.356E-06	2200
140.0	130	1.304E-06	5.738E-06	2200
142.0	175	1.757E-06	7.731E-06	2200
144.0	78	7.895E-07	3.474E-06	2200
146.0	110	1.101E-06	4.846E-06	2200
148.0	91	9.142E-07	4.023E-06	2200
150.0	91	9.142E-07	4.023E-06	2200
152.0	77	7.739E-07	3.405E-06	2200
154.0	26	2.678E-07	1.178E-06	2200
156.0	2	2.339E-08	1.029E-07	2200

CROSSWIND INTEGRATED= 1.203E-03 SEC/SQ.M 5.295E-03 1/M

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST  
METHAMINE B RELEASE FROM ELEVATION OF 26M  
3200M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	L/U SEC/CM <sup>2</sup>	LU/U 1/SQ.M	DISTANCE METERS
120.5	0	1.949E-09	6.577E-09	3249
121.5	1	1.404E-08	6.175E-08	3251
122.4	3	3.041E-08	1.338E-07	3252
S 123.4	13	1.345E-07	5.919E-07	3253
124.4	21	2.172E-07	9.555E-07	3255
125.4	33	3.398E-07	1.491E-06	3256
126.3	29	2.932E-07	1.290E-06	3258
127.3	63	6.335E-07	2.763E-06	3259
128.3	52	5.244E-07	2.307E-06	3261
129.3	63	6.335E-07	2.788E-06	3262
130.3	50	5.000E-07	2.239E-06	3263
131.2	52	5.244E-07	2.307E-06	3264
132.2	52	5.244E-07	2.307E-06	3266
133.2	35	3.591E-07	1.580E-06	3267
134.2	28	2.830E-07	1.245E-06	3268
135.2	23	2.374E-07	1.045E-06	3270
136.2	25	2.526E-07	1.112E-06	3271
137.1	30	3.033E-07	1.355E-06	3272
138.1	30	3.033E-07	1.335E-06	3273
139.1	35	3.540E-07	1.558E-06	3274
140.1	60	6.023E-07	2.650E-06	3276
141.1	64	6.491E-07	2.856E-06	3277
142.0	68	6.803E-07	2.993E-06	3278
143.0	63	6.335E-07	2.788E-06	3279
144.0	61	6.179E-07	2.719E-06	3280
145.0	80	8.051E-07	3.542E-06	3281
146.0	88	8.830E-07	3.885E-06	3282
146.9	88	8.830E-07	3.885E-06	3283
147.9	108	1.056E-06	4.777E-06	3284
148.9	110	1.101E-06	4.846E-06	3285
149.9	52	5.244E-07	2.307E-06	3286
150.9	30	3.033E-07	1.335E-06	3287
151.8	31	3.135E-07	1.379E-06	3287
152.8	21	2.121E-07	9.332E-07	3288
153.8	18	1.817E-07	7.994E-07	3289
154.8	3	3.821E-08	1.681E-07	3290
155.7	5	5.497E-08	2.419E-07	3290
156.7	2	2.534E-08	1.115E-07	3291

CROSSWIND INTEGRATED= 9.009E-04 SEC/SQ.M 3.964E-03 1/M

TOWER DATA FOLLOW....

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 264  
 200M ARC U= 4.4 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
N 102.0	.4	0	0.	0.	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
E 110.0	.4	742	3.885E-07	1.710E-06	200
110.0	.8	1017	5.330E-07	2.345E-06	200
110.0	1.5	1621	8.489E-07	3.735E-06	200
110.0	2.5	2341	1.276E-06	5.394E-06	200
110.0	4.0	1573	8.238E-07	3.625E-06	200
110.0	5.5	1348	7.060E-07	3.106E-06	200
110.0	7.0	2156	1.179E-06	4.968E-06	200
110.0	8.5	2308	1.208E-06	5.317E-06	200
110.0	10.0	2142	1.122E-06	4.935E-06	200
110.0	13.0	1900	9.951E-07	4.379E-06	200
110.0	16.0	2071	1.085E-06	4.772E-06	200
110.0	19.0	256	1.343E-07	5.911E-07	200
110.0	22.0	376	1.971E-07	8.673E-07	200
110.0	25.0	458	2.400E-07	1.056E-06	200
110.0	28.0	168	8.873E-08	3.882E-07	200
110.0	31.0	253	1.376E-07	5.833E-07	200
110.0	32.8	152	7.977E-08	3.510E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
9 118.0	.4	4860	2.545E-06	1.120E-05	200
9 118.0	.8	6573	3.442E-06	1.514E-05	200
118.0	1.5	9137	4.784E-06	2.105E-05	200
118.0	2.5	10601	5.551E-06	2.442E-05	200
118.0	4.0	8080	4.230E-06	1.861E-05	200
118.0	5.5	23712	1.241E-05	5.462E-05	200
118.0	7.0	34942	1.879E-05	8.049E-05	200
118.0	8.5	36509	1.911E-05	8.411E-05	200
118.0	10.0	35314	1.849E-05	8.135E-05	200
118.0	13.0	37790	1.979E-05	8.706E-05	200
118.0	16.0	43237	2.264E-05	9.961E-05	200
118.0	19.0	50094	2.673E-05	1.154E-04	200
118.0	22.0	33880	1.774E-05	7.805E-05	200
118.0	25.0	40520	2.122E-05	9.335E-05	200
118.0	28.0	50752	2.657E-05	1.169E-04	200
118.0	31.0	37294	1.953E-05	8.591E-05	200
118.0	32.8	22185	1.162E-05	5.111E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
0 126.0	.4	2842	1.488E-06	6.548E-06	200
0 126.0	.8	4613	2.415E-06	1.063E-05	200
126.0	1.5	13389	7.010E-06	3.085E-05	200
126.0	2.5	19138	1.002E-05	4.409E-05	200
126.0	4.0	22534	1.180E-05	5.191E-05	200
126.0	5.5	27861	1.459E-05	6.418E-05	200
126.0	7.0	35944	1.882E-05	8.280E-05	200
126.0	8.5	49148	2.573E-05	1.132E-04	200
126.0	10.0	43054	2.254E-05	9.918E-05	200
126.0	13.0	71749	3.757E-05	1.653E-04	200
126.0	16.0	65567	3.433E-05	1.510E-04	200
126.0	19.0	71054	3.720E-05	1.637E-04	200
126.0	22.0	28569	1.496E-05	6.581E-05	200
126.0	25.0	72998	3.822E-05	1.682E-04	200
126.0	28.0	57914	3.032E-05	1.334E-04	200
126.0	31.0	33551	1.757E-05	7.729E-05	200
126.0	32.8	39425	2.064E-05	9.082E-05	200

TOWER DATA FOLLOW....

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST  
 MCDAMINE B RELEASE FROM ELEVATION OF 264  
 200M ARC U= 4.4 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
N 102.0	.4	0	0.	0.	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
110.0	.4	26	2.608E-07	1.146E-06	200
110.0	.8	23	2.392E-07	1.052E-06	200
110.0	1.5	49	4.932E-07	2.170E-06	200
110.0	2.5	68	6.874E-07	3.003E-06	200
110.0	4.0	29	2.932E-07	1.290E-06	200
110.0	5.5	91	9.108E-07	4.008E-06	200
110.0	7.0	82	8.230E-07	3.621E-06	200
110.0	8.5	80	8.054E-07	3.544E-06	200
110.0	10.0	69	7.000E-07	3.080E-06	200
110.0	13.0	57	5.770E-07	2.539E-06	200
110.0	16.0	68	6.824E-07	3.003E-06	200
110.0	19.0	13	1.378E-07	6.065E-07	200
110.0	22.0	16	1.689E-07	7.432E-07	200
110.0	25.0	17	1.743E-07	7.670E-07	200
110.0	28.0	11	1.162E-07	5.114E-07	200
110.0	31.0	17	1.243E-07	5.470E-07	200
110.0	32.8	11	1.149E-07	5.054E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
9 118.0	.4	381	3.818E-06	1.680E-05	200
9 118.0	.8	360	3.601E-06	1.585E-05	200
118.0	1.5	322	3.223E-06	1.418E-05	200
118.0	2.5	403	4.034E-06	1.775E-05	200
118.0	4.0	22	2.240E-07	9.811E-07	200
118.0	5.5	609	6.091E-06	2.660E-05	200
118.0	7.0	698	6.989E-06	3.075E-05	200
118.0	8.5	788	7.888E-06	3.471E-05	200
118.0	10.0	1004	1.004E-05	4.420E-05	200
118.0	13.0	1471	1.472E-05	6.476E-05	200
118.0	16.0	1507	1.506E-05	6.634E-05	200
118.0	19.0	1943	1.944E-05	8.553E-05	200
118.0	22.0	1058	1.058E-05	4.657E-05	200
118.0	25.0	1633	1.636E-05	7.167E-05	200
118.0	28.0	2106	2.106E-05	9.267E-05	200
118.0	31.0	1651	1.651E-05	7.267E-05	200
118.0	32.8	1004	1.004E-05	4.420E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
0 126.0	.4	252	2.520E-06	1.109E-05	200
0 126.0	.8	349	3.493E-06	1.537E-05	200
126.0	1.5	565	5.655E-06	2.488E-05	200
126.0	2.5	462	4.628E-06	2.036E-05	200
126.0	4.0	698	6.989E-06	3.075E-05	200
126.0	5.5	860	8.607E-06	3.787E-05	200
126.0	7.0	3318	3.318E-05	1.460E-04	200
126.0	8.5	4266	4.267E-05	1.877E-04	200
126.0	10.0	3792	3.792E-05	1.669E-04	200
126.0	13.0	6006	6.006E-05	2.643E-04	200
126.0	16.0	6796	6.797E-05	2.991E-04	200
126.0	19.0	7270	7.271E-05	3.199E-04	200
126.0	22.0	1322	1.322E-05	5.818E-05	200
126.0	25.0	7429	7.429E-05	3.264E-04	200
126.0	28.0	5215	5.216E-05	2.295E-04	200
126.0	31.0	5847	5.848E-05	2.573E-04	200
126.0	32.8	4266	4.267E-05	1.877E-04	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/W 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/W 1/SQ.M	DISTANCE METERS
134.0	.4	18638	9.758E-06	4.294E-05	200	134.0	.4	567	5.672E-06	2.496E-05	200
134.0	.8	18627	9.753E-06	4.291E-05	200	134.0	.8	772	7.777E-06	3.400E-05	200
134.0	1.5	15725	8.233E-06	3.623E-05	200	134.0	1.5	342	3.476E-06	1.507E-05	200
134.0	2.5	21505	1.176E-05	4.954E-05	200	134.0	2.5	835	8.359E-06	3.678E-05	200
134.0	4.0	26918	1.409E-05	6.201E-05	200	134.0	4.0	1326	1.326E-05	5.835E-05	200
134.0	5.5	43162	2.260E-05	9.943E-05	200	134.0	5.5	1990	1.990E-05	8.757E-05	200
134.0	7.0	51807	2.712E-05	1.193E-04	200	134.0	7.0	2417	2.417E-05	1.063E-04	200
134.0	8.5	55927	2.928E-05	1.288E-04	200	134.0	8.5	2511	2.512E-05	1.105E-04	200
134.0	10.0	61892	3.240E-05	1.426E-04	200	134.0	10.0	3792	3.793E-05	1.664E-04	200
134.0	13.0	85800	4.496E-05	1.978E-04	200	134.0	13.0	5373	5.374E-05	2.364E-04	200
134.0	16.0	76848	4.023E-05	1.770E-04	200	134.0	16.0	7587	7.587E-05	3.338E-04	200
134.0	19.0	93422	4.891E-05	2.152E-04	200	134.0	19.0	6322	6.322E-05	2.782E-04	200
134.0	22.0	75852	3.971E-05	1.747E-04	200	134.0	22.0	6796	6.797E-05	2.991E-04	200
134.0	25.0	78664	4.119E-05	1.812E-04	200	134.0	25.0	8219	8.220E-05	3.617E-04	200
134.0	28.0	59148	3.097E-05	1.363E-04	200	134.0	28.0	5847	5.848E-05	2.573E-04	200
E 134.0	31.0	45845	2.400E-05	1.056E-04	200	134.0	31.0	345	3.458E-06	1.622E-05	200
134.0	32.8	33850	1.772E-05	7.798E-05	200	P 134.0	32.8	3160	3.160E-05	1.390E-04	200

TOWER DATA FOLLOW....

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST  
ZINC SULFIDE RELEASE FROM ELFVATION OF 26M  
800H ARC U = 4.4 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/W 1/SQ.M	DISTANCE METERS
N 105.0	.3	0	0.	0.	820

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/W 1/SQ.M	DISTANCE METERS
112.6	.3	193	1.015E-07	4.467E-07	833
112.6	.5	147	7.697E-08	3.387E-07	833
112.6	1.1	72	3.779E-08	1.663E-07	833
112.6	1.5	124	6.508E-08	2.864E-07	833
112.6	2.1	31	1.667E-08	7.333E-08	833
112.6	4.2	173	9.080E-08	3.995E-07	833
112.6	6.3	52	2.756E-08	1.213E-07	833
112.6	8.4	76	4.031E-08	1.774E-07	833
112.6	10.5	75	3.975E-08	1.749E-07	833
112.6	12.6	152	7.965E-08	3.505E-07	833
112.6	14.7	94	4.942E-08	2.174E-07	833
112.6	16.8	162	8.506E-08	3.743E-07	833
112.6	21.0	150	7.896E-08	3.474E-07	833
112.6	25.2	99	5.184E-08	2.281E-07	833
112.6	29.4	102	5.348E-08	2.353E-07	833
112.6	33.6	148	7.752E-08	3.411E-07	833
112.6	37.8	91	4.772E-08	2.100E-07	833
112.6	42.0	214	1.124E-07	4.947E-07	833

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/W 1/SQ.M	DISTANCE METERS
120.2	.3	5541	2.901E-06	1.277E-05	845
120.2	.5	5353	2.803E-06	1.233E-05	845
120.2	1.1	6421	3.362E-06	1.479E-05	845
120.2	1.5	5457	2.857E-06	1.257E-05	845
120.2	2.1	5745	3.008E-06	1.324E-05	845
120.2	4.2	5400	2.827E-06	1.244E-05	845
120.2	6.3	5602	2.933E-06	1.291E-05	845
120.2	8.4	5392	2.823E-06	1.242E-05	845
120.2	10.5	5153	2.698E-06	1.187E-05	845
120.2	12.6	5087	2.664E-06	1.172E-05	845
120.2	14.7	4153	2.175E-06	9.569E-06	845
120.2	16.8	5383	2.818E-06	1.240E-05	845
120.2	21.0	4932	2.583E-06	1.136E-05	845
120.2	25.2	5154	2.699E-06	1.188E-05	845
120.2	29.4	3299	1.728E-06	7.601E-06	845
S 120.2	33.6	2151	1.127E-06	4.957E-06	845
120.2	37.8	3740	1.958E-06	8.617E-06	845
120.2	42.0	3745	1.961E-06	8.627E-06	845

TOWER DATA FOLLOW....

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST  
RHODAMINE B RELEASE FROM ELFVATION OF 26M  
800H ARC U = 4.4 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/W 1/SQ.M	DISTANCE METERS
N 105.0	.3	0	0.	0.	820

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/W 1/SQ.M	DISTANCE METERS
112.6	.3	16	1.686E-07	7.420E-07	833
112.6	.5	14	1.451E-07	6.384E-07	833
112.6	1.1	12	1.216E-07	5.349E-07	833
112.6	1.5	6	6.536E-08	2.876E-07	833
112.6	2.1	13	1.333E-07	5.867E-07	833
112.6	4.2	12	1.216E-07	5.349E-07	833
112.6	6.3	8	8.627E-08	3.796E-07	833
112.6	8.4	12	1.216E-07	5.349E-07	833
112.6	10.5	13	1.333E-07	5.867E-07	833
112.6	12.6	22	2.275E-07	1.001E-06	833
112.6	14.7	12	1.216E-07	5.349E-07	833
112.6	16.8	19	1.922E-07	8.455E-07	833
112.6	21.0	26	2.627E-07	1.156E-06	833
112.6	25.2	25	2.510E-07	1.104E-06	833
112.6	29.4	30	3.096E-07	1.363E-06	833
112.6	33.6	23	2.392E-07	1.053E-06	833
112.6	37.8	5	5.098E-08	2.243E-07	833
H 112.6	42.0	27	2.745E-07	1.208E-06	833

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/W 1/SQ.M	DISTANCE METERS
120.2	.3	561	5.617E-06	2.471E-05	845
120.2	.5	596	5.962E-06	2.623E-05	845
120.2	1.1	642	6.422E-06	2.826E-05	845
120.2	1.5	384	3.850E-06	1.694E-05	845
120.2	2.1	619	6.192E-06	2.725E-05	845
120.2	4.2	711	7.112E-06	3.129E-05	845
120.2	6.3	607	6.077E-06	2.674E-05	845
120.2	8.4	665	6.652E-06	2.927E-05	845
120.2	10.5	458	4.582E-06	2.016E-05	845
120.2	12.6	711	7.112E-06	3.129E-05	845
120.2	14.7	699	6.997E-06	3.079E-05	845
120.2	16.8	745	7.458E-06	3.281E-05	845
120.2	21.0	688	6.882E-06	3.028E-05	845
120.2	25.2	619	6.192E-06	2.725E-05	845
120.2	29.4	538	5.387E-06	2.370E-05	845
S 120.2	33.6	262	2.626E-06	1.156E-05	845
120.2	37.8	492	4.927E-06	2.188E-05	845
H 120.2	42.0	487	4.875E-06	2.145E-05	845

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/D SEC/CM	EU/W 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/D SEC/CM	EU/W 1/SQ.M	DISTANCE METERS
127.7	.3	10809	5.660E-06	2.490E-05	857	127.7	.3	961	9.616E-06	4.231E-05	857
127.7	.5	10689	5.597E-06	2.462E-05	857	127.7	.5	1190	1.191E-05	5.240E-05	857
127.7	1.1	9851	5.158E-06	2.269E-05	857	127.7	1.1	869	8.698E-06	3.827E-05	857
127.7	1.5	6477	3.391E-06	1.492E-05	857	127.7	1.5	641	6.413E-06	2.822E-05	857
127.7	2.1	10189	5.335E-06	2.347E-05	857	127.7	2.1	1099	1.099E-05	4.837E-05	857
127.7	4.2	8364	4.379E-06	1.927E-05	857	127.7	4.2	1007	1.007E-05	4.433E-05	857
127.7	6.3	8976	4.700E-06	2.068E-05	857	127.7	6.3	778	7.780E-06	3.423E-05	857
127.7	8.4	8486	4.443E-06	1.955E-05	857	127.7	8.4	1007	1.007E-05	4.433E-05	857
127.7	10.5	7513	3.934E-06	1.731E-05	857	127.7	10.5	1099	1.099E-05	4.837E-05	857
127.7	12.6	7209	3.775E-06	1.661E-05	857	127.7	12.6	1053	1.053E-05	4.635E-05	857
127.7	14.7	6298	3.298E-06	1.451E-05	857	127.7	14.7	961	9.616E-06	4.231E-05	857
127.7	16.8	8649	4.528E-06	1.993E-05	857	127.7	16.8	854	8.545E-06	3.760E-05	857
127.7	21.0	1575	8.251E-07	3.630E-06	857	E 127.7	21.0	920	9.204E-06	4.050E-05	857
127.7	25.2	5939	3.110E-06	1.368E-05	857	127.7	25.2	1007	1.007E-05	4.433E-05	857
127.7	29.4	4343	2.274E-06	1.001E-05	857	127.7	29.4	839	8.392E-06	3.693E-05	857
127.7	33.6	3267	1.711E-06	7.527E-06	857	127.7	33.6	716	7.169E-06	3.154E-05	857
127.7	37.8	838	4.389E-07	1.931E-06	857	E 127.7	37.8	655	6.557E-06	2.885E-05	857
127.7	42.0	2309	1.209E-06	5.320E-06	857	B 127.7	42.0	609	6.098E-06	2.683E-05	857

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/D SEC/CM	EU/W 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/D SEC/CM	EU/W 1/SQ.M	DISTANCE METERS
135.0	.3	11349	5.942E-06	2.615E-05	867	135.0	.3	839	8.392E-06	3.693E-05	867
135.0	.5	2467	1.292E-06	5.685E-06	867	135.0	.5	245	2.451E-06	1.078E-05	867
135.0	1.1	9528	4.989E-06	2.195E-05	867	135.0	1.1	1236	1.237E-05	5.442E-05	867
135.0	1.5	5799	3.036E-06	1.336E-05	867	135.0	1.5	306	3.065E-06	1.349E-05	867
135.0	2.1	10254	5.369E-06	2.362E-05	867	135.0	2.1	961	9.616E-06	4.231E-05	867
135.0	4.2	10206	5.344E-06	2.351E-05	867	135.0	4.2	823	8.239E-06	3.625E-05	867
135.0	6.3	5876	3.077E-06	1.354E-05	867	135.0	6.3	961	9.616E-06	4.231E-05	867
135.0	8.4	9869	5.167E-06	2.274E-05	867	135.0	8.4	961	9.616E-06	4.231E-05	867
135.0	10.5	4831	2.529E-06	1.113E-05	867	135.0	10.5	426	4.263E-06	1.876E-05	867
135.0	12.6	9196	4.815E-06	2.119E-05	867	135.0	12.6	885	8.851E-06	3.894E-05	867
135.0	14.7	7798	4.083E-06	1.796E-05	867	135.0	14.7	946	9.463E-06	4.164E-05	867
135.0	16.8	5237	2.742E-06	1.207E-05	867	135.0	16.8	747	7.475E-06	3.289E-05	867
135.0	21.0	7759	4.063E-06	1.788E-05	867	135.0	21.0	579	5.792E-06	2.549E-05	867
135.0	25.2	7541	3.948E-06	1.737E-05	867	135.0	25.2	747	7.475E-06	3.289E-05	867
135.0	29.4	6115	3.202E-06	1.409E-05	867	135.0	29.4	625	6.251E-06	2.750E-05	867
135.0	33.6	6190	3.241E-06	1.426E-05	867	135.0	33.6	533	5.333E-06	2.347E-05	867
135.0	37.8	5413	2.834E-06	1.247E-05	867	135.0	37.8	594	5.945E-06	2.616E-05	867
135.0	42.0	4162	2.180E-06	9.590E-06	867	R 135.0	42.0	441	4.416E-06	1.943E-05	867

TOWER DATA FOLLOW....

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
1600M ARC U= 4.4 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/D SEC/CM	EU/W 1/SQ.M	DISTANCE METERS
N 101.6	.2	0 0.	0.	0.	1617

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/D SEC/CM	EU/W 1/SQ.M	DISTANCE METERS
N 109.5	.2	0 0.	0.	0.	1630

TOWER DATA FOLLOW....

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST  
RHODAMINE B RELEASE FROM ELEVATION OF 26M  
1600M ARC U= 4.4 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/D SEC/CM	EU/W 1/SQ.M	DISTANCE METERS
N 101.6	.2	0 0.	0.	0.	1617

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/D SEC/CM	EU/W 1/SQ.M	DISTANCE METERS
N 109.5	.2	0 0.	0.	0.	1630

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/O SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
117.3	.2	266	1.395E-07	6.138E-07	1643
117.3	.4	90	4.734E-08	2.083E-07	1643
117.3	.8	117	6.146E-08	2.704E-07	1643
117.3	1.5	156	8.208E-08	3.612E-07	1643
Z 117.3	1.6	0	0.	0.	1643
Z 117.3	3.1	0	0.	0.	1643
Z 117.3	6.2	8	4.251E-09	1.870E-08	1643
Z 117.3	9.3	0	0.	0.	1643
Z 117.3	12.4	68	3.588E-08	1.579E-07	1643
Z 117.3	15.5	40	2.101E-08	9.244E-08	1643
Z 117.3	18.6	8	4.362E-09	1.919E-08	1643
Z 117.3	21.7	43	2.288E-08	1.007E-07	1643
117.3	24.8	173	9.076E-08	3.993E-07	1643
117.3	31.0	113	5.921E-08	2.605E-07	1643
117.3	37.2	277	1.450E-07	6.382E-07	1643
117.3	43.4	262	1.373E-07	6.042E-07	1643
117.3	49.6	126	6.633E-08	2.918E-07	1643
117.3	55.8	421	2.208E-07	9.715E-07	1643
117.3	62.0	111	5.856E-08	2.577E-07	1643

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/O SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
117.3	.2	11	1.190E-07	5.234E-07	1643
117.3	.4	21	2.198E-07	9.672E-07	1643
117.3	.8	14	1.422E-07	6.259E-07	1643
117.3	1.5	7	7.414E-08	3.262E-07	1643
117.3	1.6	0	0.	0.	1643
L 117.3	3.1	0	0.	0.	1643
L 117.3	6.2	0	0.	0.	1643
L 117.3	9.3	0	0.	0.	1643
L 117.3	12.4	0	0.	0.	1643
L 117.3	15.5	0	0.	0.	1643
L 117.3	18.6	0	0.	0.	1643
Z 117.3	21.7	0	2.586E-09	1.138E-08	1643
117.3	24.8	31	3.129E-07	1.377E-06	1643
117.3	31.0	33	3.362E-07	1.479E-06	1643
117.3	37.2	32	3.284E-07	1.445E-06	1643
117.3	43.4	52	5.250E-07	2.310E-06	1643
117.3	49.6	20	2.043E-07	8.990E-07	1643
117.3	55.8	72	7.267E-07	3.198E-06	1643
117.3	62.0	0	2.586E-09	1.138E-08	1643

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/O SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
125.0	.2	12	2.190E-07	1.220E-06	1655
125.0	.4	12	4.341E-08	2.190E-08	1655
125.0	.8	61	3.235E-08	1.423E-07	1655
F 125.0	1.5	1929	1.010E-06	4.444E-06	1655
125.0	1.6	2688	1.407E-06	6.193E-06	1655
125.0	3.1	2395	1.254E-06	5.518E-06	1655
125.0	6.2	2886	1.511E-06	6.649E-06	1655
125.0	9.3	2497	1.307E-06	5.753E-06	1655
125.0	12.4	2636	1.380E-06	6.074E-06	1655
125.0	15.5	2202	1.153E-06	5.073E-06	1655
125.0	18.6	2796	1.464E-06	6.442E-06	1655
125.0	21.7	2846	1.491E-06	6.558E-06	1655
125.0	24.8	2745	1.437E-06	6.324E-06	1655
125.0	31.0	2899	1.518E-06	6.678E-06	1655
125.0	37.2	1809	9.473E-07	4.168E-06	1655
125.0	43.4	2336	1.273E-06	5.382E-06	1655
125.0	49.6	1682	8.809E-07	3.876E-06	1655
125.0	55.8	1465	7.673E-07	3.378E-06	1655
125.0	62.0	1528	8.004E-07	3.522E-06	1655

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/O SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
125.0	.2	0	0.	0.	1655
125.0	.4	0	0.	0.	1655
125.0	.8	0	0.	0.	1655
E 125.0	1.5	84	8.836E-07	3.888E-06	1655
125.0	1.6	188	1.884E-06	8.286E-06	1655
125.0	3.1	249	2.491E-06	1.096E-05	1655
125.0	6.2	233	2.339E-06	1.029E-05	1655
125.0	9.3	256	2.566E-06	1.129E-05	1655
125.0	12.4	249	2.491E-06	1.096E-05	1655
125.0	15.5	317	3.173E-06	1.396E-05	1655
125.0	18.6	302	3.022E-06	1.329E-05	1655
125.0	21.7	241	2.415E-06	1.062E-05	1655
125.0	24.8	286	2.870E-06	1.263E-05	1655
125.0	31.0	233	2.339E-06	1.029E-05	1655
125.0	37.2	256	2.566E-06	1.129E-05	1655
125.0	43.4	264	2.642E-06	1.163E-05	1655
125.0	49.6	249	2.491E-06	1.096E-05	1655
125.0	55.8	211	2.111E-06	9.289E-06	1655
B 125.0	62.0	180	1.808E-06	7.954E-06	1655

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/O SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
132.5	.2	2628	1.376E-06	6.056E-06	1665
132.5	.4	2953	1.546E-06	6.804E-06	1665
132.5	.8	2763	1.447E-06	6.366E-06	1665
132.5	1.5	2605	1.364E-06	6.003E-06	1665
132.5	1.6	2834	1.484E-06	6.529E-06	1665
132.5	3.1	2833	1.484E-06	6.528E-06	1665
132.5	6.2	2044	1.071E-06	4.710E-06	1665
132.5	9.3	1620	8.485E-07	3.734E-06	1665
132.5	12.4	2608	1.385E-06	6.003E-06	1665
132.5	15.5	1888	9.887E-07	4.350E-06	1665
132.5	18.6	1931	1.011E-06	4.450E-06	1665
132.5	21.7	883	4.674E-07	2.035E-06	1665
132.5	24.8	2000	1.048E-06	4.618E-06	1665
132.5	31.0	1686	8.828E-07	3.884E-06	1665
132.5	37.2	1565	8.199E-07	3.607E-06	1665
132.5	43.4	1665	8.721E-07	3.837E-06	1665
132.5	49.6	2159	1.131E-06	4.976E-06	1665
132.5	55.8	1169	6.122E-07	2.694E-06	1665
132.5	62.0	1193	6.250E-07	2.750E-06	1665

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/O SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
132.5	.2	309	3.097E-06	1.363E-05	1665
132.5	.4	286	2.870E-06	1.263E-05	1665
132.5	.8	317	3.173E-06	1.396E-05	1665
132.5	1.5	136	1.366E-06	6.012E-06	1665
132.5	1.6	271	2.718E-06	1.196E-05	1665
132.5	3.1	256	2.566E-06	1.129E-05	1665
132.5	6.2	264	2.642E-06	1.163E-05	1665
132.5	9.3	302	3.022E-06	1.329E-05	1665
132.5	12.4	203	2.035E-06	8.956E-06	1665
132.5	15.5	294	2.946E-06	1.296E-05	1665
132.5	18.6	309	3.097E-06	1.363E-05	1665
132.5	21.7	271	2.718E-06	1.196E-05	1665
132.5	24.8	309	3.097E-06	1.363E-05	1665
132.5	31.0	241	2.415E-06	1.062E-05	1665
132.5	37.2	324	3.249E-06	1.430E-05	1665
132.5	43.4	286	2.870E-06	1.263E-05	1665
132.5	49.6	279	2.794E-06	1.229E-05	1665
132.5	55.8	142	1.428E-06	6.285E-06	1665
U 132.5	62.0	249	2.491E-06	1.096E-05	1665



TOWER DATA FOLLOW....

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
3200M ARC U= 4.4 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	EU/Q 1/SO.M	DISTANCE METERS
N 99.8	.2	0	0.	0.	3215
N 107.8	.2	0	0.	0.	3224
N 115.6	.2	0	0.	0.	3241
123.4	.2	258	1.352E-07	5.949E-07	3253
123.4	.4	387	2.031E-07	8.935E-07	3253
123.4	.8	371	1.947E-07	8.565E-07	3253
123.4	1.5	270	1.418E-07	6.239E-07	3253
S 123.4	1.6	357	1.871E-07	8.230E-07	3253
E 123.4	3.1	316	1.659E-07	7.301E-07	3253
123.4	6.2	293	1.537E-07	6.763E-07	3253
123.4	9.3	354	1.854E-07	8.159E-07	3253
123.4	12.4	451	2.363E-07	1.040E-06	3253
123.4	15.5	349	1.878E-07	8.042E-07	3253
123.4	18.6	111	5.813E-08	2.558E-07	3253
123.4	21.7	432	2.262E-07	9.953E-07	3253
123.4	24.8	397	2.083E-07	9.164E-07	3253
123.4	31.0	393	2.061E-07	9.069E-07	3253
123.4	37.2	349	1.828E-07	8.045E-07	3253
123.4	43.4	357	1.870E-07	8.229E-07	3253
123.4	49.6	321	1.677E-07	7.404E-07	3253
123.4	55.8	432	2.264E-07	9.962E-07	3253
123.4	62.0	395	2.072E-07	9.118E-07	3253

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	EU/Q 1/SO.M	DISTANCE METERS
131.2	.2	6	3.575E-09	1.573E-08	3264
131.2	.4	918	4.807E-07	2.115E-06	3264
E 131.2	.8	1024	5.363E-07	2.366E-06	3264
131.2	1.5	968	5.071E-07	2.231E-06	3264
E 131.2	1.6	993	5.203E-07	2.289E-06	3264
E 131.2	3.1	1021	5.349E-07	2.354E-06	3264
E 131.2	6.2	1058	5.540E-07	2.438E-06	3264
131.2	9.3	1154	6.043E-07	2.659E-06	3264
131.2	12.4	1244	6.725E-07	2.959E-06	3264
131.2	15.5	1098	5.752E-07	2.531E-06	3264
131.2	18.6	866	4.537E-07	1.996E-06	3264
S 131.2	21.7	1020	5.341E-07	2.350E-06	3264
131.2	24.8	1163	6.090E-07	2.686E-06	3264
131.2	31.0	1186	6.211E-07	2.733E-06	3264
131.2	37.2	936	4.903E-07	2.157E-06	3264
131.2	43.4	1052	5.511E-07	2.425E-06	3264
T 131.2	49.6	780	4.089E-07	1.799E-06	3264
131.2	55.8	1155	6.049E-07	2.662E-06	3264
131.2	62.0	1032	5.404E-07	2.378E-06	3264

TOWER DATA FOLLOW....

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST  
KHODAMINE B RELEASE FROM ELEVATION OF 26M  
3200M ARC U= 4.4 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	EU/Q 1/SO.M	DISTANCE METERS
N 99.8	.2	0	0.	0.	3215
N 117.8	.2	0	0.	0.	3229
N 115.6	.2	0	0.	0.	3241
123.4	.2	34	3.489E-07	1.535E-06	3253
123.4	.4	36	3.676E-07	1.595E-06	3253
123.4	.8	25	2.534E-07	1.115E-06	3253
123.4	1.5	13	1.345E-07	5.918E-07	3253
123.4	1.6	41	4.172E-07	1.835E-06	3253
L 123.4	3.1	33	3.353E-07	1.475E-06	3253
123.4	6.2	25	2.534E-07	1.115E-06	3253
123.4	9.3	29	2.943E-07	1.295E-06	3253
123.4	12.4	34	3.489E-07	1.535E-06	3253
123.4	15.5	34	3.489E-07	1.535E-06	3253
123.4	18.6	34	3.489E-07	1.535E-06	3253
123.4	21.7	36	3.676E-07	1.595E-06	3253
123.4	24.8	37	3.216E-07	1.415E-06	3253
123.4	31.0	30	3.086E-07	1.355E-06	3253
123.4	37.2	30	3.086E-07	1.355E-06	3253
123.4	43.4	30	3.086E-07	1.355E-06	3253
123.4	49.6	32	3.216E-07	1.415E-06	3253
B 123.4	55.8	41	4.172E-07	1.835E-06	3253
L 123.4	62.0	0	0.	0.	3253

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	EU/Q 1/SO.M	DISTANCE METERS
131.2	.2	0	8.187E-09	3.602E-08	3264
131.2	.4	95	9.548E-07	4.201E-06	3264
131.2	.8	112	1.176E-06	4.956E-06	3264
131.2	1.5	52	5.244E-07	2.307E-06	3264
E 131.2	1.6	119	1.195E-06	5.258E-06	3264
E 131.2	3.1	126	1.264E-06	5.560E-06	3264
F 131.2	6.2	133	1.332E-06	5.862E-06	3264
131.2	9.3	140	1.401E-06	6.163E-06	3264
131.2	12.4	126	1.264E-06	5.560E-06	3264
131.2	15.5	122	1.229E-06	5.409E-06	3264
131.2	18.6	85	8.519E-07	3.748E-06	3264
131.2	21.7	98	9.891E-07	4.352E-06	3264
131.2	24.8	119	1.195E-06	5.258E-06	3264
131.2	31.0	122	1.229E-06	5.409E-06	3264
131.2	37.2	102	1.023E-06	4.503E-06	3264
D 131.2	43.4	81	8.175E-07	3.597E-06	3264
C 131.2	49.6	61	6.117E-07	2.691E-06	3264
O 131.2	55.8	133	1.332E-06	5.862E-06	3264
U 131.2	62.0	129	1.298E-06	5.711E-06	3264

KR-85 SAMPLING AT 200, 800 AND 1600M; TOWER SAMPLING AT 200 AND 800M. ALL CROSSWIND DISTRIBUTIONS TRUNCATED ON SOUTH. SIX OF TEN TOWERS "HIT", BUT DISTRIBUTIONS TRUNCATED AT TOP; MAY HAVE BEEN TRACER ON TOWER AT 800M, 112.6 DEG, BUT VERY NEAR BACKGROUND. LOW VOLTAGES ON MANY 800M SENSORS MAY HAVE LEAD TO UNDERESTIMATES OF X/O.

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 26M  
 200M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE CI-SEC/CU.M X10E+7	L/C SEC/CU.M	U/C 1/50.M	DISTANCE METERS
106.0	47	2.465E-07	1.084E-06	200
108.0	67	3.507E-07	1.543E-06	200
110.0	87	4.550E-07	2.002E-06	200
112.0	212	1.104E-06	4.680E-06	200
114.0	582	3.033E-06	1.335E-05	200
116.0	877	4.564E-06	2.010E-05	200
118.0	380	1.961E-06	8.717E-06	200
120.0	636	3.318E-06	1.460E-05	200
122.0	980	5.109E-06	2.248E-05	200
124.0	502	2.616E-06	1.151E-05	200
126.0	313	4.237E-06	1.864E-05	200
128.0	1113	5.801E-06	2.553E-05	200
130.0	886	4.616E-06	2.031E-05	200
132.0	971	5.062E-06	2.227E-05	200
134.0	662	3.450E-06	1.518E-05	200
136.0	626	3.261E-06	1.435E-05	200
138.0	636	3.318E-06	1.460E-05	200
140.0	733	3.820E-06	1.681E-05	200
142.0	968	5.043E-06	2.219E-05	200
144.0	980	5.147E-06	2.265E-05	200
146.0	777	4.044E-06	1.781E-05	200
148.0	939	4.891E-06	2.152E-05	200

CROSSWIND INTEGRATED= 5.270E-04 SEC/50.M  
 1/M

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 26M  
 800M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE CI-SEC/CU.M X10E+7	L/C SEC/CU.M	U/C 1/50.M	DISTANCE METERS
114.5	56	2.939E-07	1.295E-06	836
L 116.4	0	0.	0.	839
118.3	127	6.635E-07	2.920E-06	842
V 120.2	214	1.119E-06	4.922E-06	845
V 122.1	323	1.687E-06	7.424E-06	843
V 124.0	192	1.005E-06	4.421E-06	851
V 125.8	380	1.981E-06	8.717E-06	854
L 127.7	0	0.	0.	857
L 129.5	0	0.	0.	859
V 131.4	107	5.593E-07	2.461E-06	862
V 133.2	320	1.668E-06	7.341E-06	865
V 135.0	271	1.412E-06	6.215E-06	867
V 136.8	291	1.517E-06	6.673E-06	869
V 138.7	158	8.247E-07	3.629E-06	872

CROSSWIND INTEGRATED= 3.528E-04 SEC/50.M  
 1/M

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 26M  
 1600M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE CI-SEC/CU.M X10E+7	L/C SEC/CU.M	U/C 1/50.M	DISTANCE METERS
114.4	89	4.645E-07	2.044E-06	1643
115.3	29	1.517E-07	6.673E-07	1640
118.3	14	7.563E-08	3.357E-07	1641
117.3	1	9.479E-09	4.171E-08	1643
118.2	98	5.114E-07	2.252E-06	1644
L 119.2	0	0.	0.	1646
120.2	85	4.300E-07	1.919E-06	1647
121.2	178	9.290E-07	4.087E-06	1649
122.1	125	6.541E-07	2.878E-06	1650
123.1	236	1.232E-06	5.422E-06	1652
124.1	123	6.446E-07	2.836E-06	1653
B 125.0	425	2.218E-06	9.763E-06	1655

CROSSWIND INTEGRATED= 2.023E-04 SEC/50.M  
 1/M

TOWER DATA FOLLOWS...

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 26M  
 200M ARC WIND 4.4 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM <sup>2</sup> X10E+7	F/D SEC/CM <sup>2</sup>	EU/D 1/SQ.M	DISTANCE METERS
N 102.0	1.5	0	0.	0.	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM <sup>2</sup> X10E+7	F/D SEC/CM <sup>2</sup>	EU/D 1/SQ.M	DISTANCE METERS
110.0	1.5	87	4.550E-07	2.002E-06	200
L 110.0	4.0	0	0.	0.	200
110.0	7.0	47	2.465E-07	1.064E-06	200
110.0	13.0	227	1.185E-06	5.214E-06	200
110.0	19.0	107	5.593E-07	2.461E-06	200
110.0	25.0	50	2.654E-07	1.168E-06	200
L 110.0	32.8	0	0.	0.	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM <sup>2</sup> X10E+7	F/D SEC/CM <sup>2</sup>	EU/D 1/SQ.M	DISTANCE METERS
118.0	1.5	300	1.981E-06	8.717E-06	200
118.0	4.0	680	3.545E-06	1.560E-05	200
118.0	7.0	2386	1.243E-05	5.468E-05	200
118.0	13.0	2449	1.276E-05	5.614E-05	200
118.0	19.0	3720	1.930E-05	8.525E-05	200
118.0	25.0	3461	1.803E-05	7.933E-05	200
118.0	32.8	3894	2.022E-05	8.926E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM <sup>2</sup> X10E+7	F/D SEC/CM <sup>2</sup>	EU/D 1/SQ.M	DISTANCE METERS
126.0	1.5	813	4.237E-06	1.854E-05	200
126.0	4.0	1597	8.266E-06	3.637E-05	200
126.0	7.0	2462	1.283E-05	5.643E-05	200
126.0	13.0	5045	2.626E-05	1.156E-04	200
126.0	19.0	4437	2.311E-05	1.017E-04	200
126.0	25.0	5902	3.074E-05	1.353E-04	200
L 126.0	32.8	0	0.	0.	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM <sup>2</sup> X10E+7	F/D SEC/CM <sup>2</sup>	EU/D 1/SQ.M	DISTANCE METERS
134.0	1.5	662	3.450E-06	1.518E-05	200
134.0	4.0	1011	5.273E-06	2.319E-05	200
134.0	7.0	2121	1.141E-05	5.022E-05	200
134.0	13.0	3847	2.004E-05	8.817E-05	200
134.0	19.0	5166	2.691E-05	1.184E-04	200
134.0	25.0	5732	2.986E-05	1.314E-04	200
134.0	32.8	2498	1.301E-05	5.727E-05	200

TOWER DATA FOLLOW....

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 26M  
 800M ARC U= 4.4 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10 <sup>1+7</sup>	F/D SEC/CM	FU/W 1/SQ.M	DISTANCE METERS
N 105.0	1.5	0	0.	0.	820

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10 <sup>1+7</sup>	F/D SEC/CM	FU/W 1/SQ.M	DISTANCE METERS
N 112.6	1.5	0	0.	0.	833

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10 <sup>1+7</sup>	F/D SEC/CM	FU/W 1/SQ.M	DISTANCE METERS
V 120.2	1.5	214	1.119E-06	4.922E-06	845
V 120.2	5.0	343	1.792E-06	7.883E-06	845
V 120.2	12.0	243	1.270E-06	5.589E-06	845
V 120.2	19.0	362	1.886E-06	8.200E-06	845
120.2	26.0	505	2.635E-06	1.159E-05	845
120.2	34.0	316	1.649E-06	7.257E-06	845
120.2	42.0	389	2.029E-06	8.926E-06	845

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10 <sup>1+7</sup>	F/D SEC/CM	FU/W 1/SQ.M	DISTANCE METERS
L 127.7	1.5	0	0.	0.	857
127.7	5.0	553	2.882E-06	1.268E-05	857
127.7	12.0	602	3.136E-06	1.381E-05	857
127.7	19.0	576	3.005E-06	1.322E-05	857
127.7	26.0	929	2.237E-06	9.843E-06	857
L 127.7	34.0	0	0.	0.	857
127.7	42.0	545	2.844E-06	1.251E-05	857

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10 <sup>1+7</sup>	F/D SEC/CM	FU/W 1/SQ.M	DISTANCE METERS
V 135.0	1.5	271	1.412E-06	6.215E-06	867
L 135.0	5.0	0	0.	0.	867
135.0	12.0	624	3.251E-06	1.431E-05	867
135.0	19.0	435	2.266E-06	9.968E-06	867
135.0	26.0	593	3.090E-06	1.366E-05	867
135.0	34.0	385	2.010E-06	8.842E-06	867
135.0	42.0	454	2.389E-06	1.051E-05	867

GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. MUST ARCS TRUNCATED ON SOUTH END, BUT CENTERLINE ALWAYS OBSERVED. MOST VERTICAL DISTRIBUTIONS TRUNCATED AT TOPS OF TOWERS.

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
200M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
E 114.0	0	0.	0.	200
116.0	26	2.010E-08	8.441E-08	200
118.0	1454	1.094E-06	4.593E-06	200
120.0	4373	3.208E-06	1.381E-05	200
122.0	21363	1.606E-05	6.747E-05	200
124.0	17722	1.332E-05	5.596E-05	200
126.0	8527	6.412E-06	2.693E-05	200
128.0	10520	7.910E-06	3.322E-05	200
130.0	12042	9.055E-06	3.803E-05	200
132.0	15128	1.137E-05	4.777E-05	200
134.0	23407	1.760E-05	7.392E-05	200
136.0	25767	1.937E-05	8.137E-05	200
138.0	44974	3.374E-05	1.417E-04	200
140.0	45468	3.419E-05	1.436E-04	200
142.0	47362	3.561E-05	1.496E-04	200
144.0	45963	3.456E-05	1.451E-04	200
146.0	37456	2.816E-05	1.183E-04	200
148.0	25699	1.932E-05	8.116E-05	200
150.0	17255	1.297E-05	5.449E-05	200
152.0	20068	1.509E-05	6.337E-05	200
154.0	15269	1.148E-05	4.822E-05	200
156.0	12245	9.207E-06	3.867E-05	200
158.0	6261	4.708E-06	1.977E-05	200
B 160.0	5710	4.293E-06	1.803E-05	200

CROSSWIND INTEGRATED= 2.435E-03 SEC/SQ.M 1.023E-02 1/M

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST  
RHODAMINE B RELEASE FROM ELEVATION OF 26M  
200M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
116.0	53	5.306E-07	2.228E-06	200
118.0	153	1.531E-06	6.431E-06	200
120.0	142	1.424E-06	5.982E-06	200
122.0	754	7.549E-06	3.171E-05	200
124.0	498	4.985E-06	2.094E-05	200
126.0	477	4.771E-06	2.004E-05	200
128.0	487	4.878E-06	2.049E-05	200
130.0	224	2.243E-06	9.422E-06	200
132.0	284	2.849E-06	1.196E-05	200
134.0	658	6.588E-06	2.767E-05	200
136.0	712	7.122E-06	2.991E-05	200
138.0	1207	1.207E-05	5.070E-05	200
140.0	1385	1.385E-05	5.818E-05	200
142.0	1171	1.177E-05	4.920E-05	200
144.0	1171	1.177E-05	4.920E-05	200
146.0	1456	1.456E-05	6.117E-05	200
148.0	851	8.510E-06	3.574E-05	200
150.0	551	5.519E-06	2.316E-05	200
152.0	733	7.335E-06	3.081E-05	200
154.0	466	4.665E-06	1.959E-05	200
156.0	434	4.344E-06	1.825E-05	200
158.0	163	1.638E-06	6.879E-06	200
B 160.0	145	1.460E-06	6.132E-06	200

CROSSWIND INTEGRATED= 9.857E-04 SEC/SQ.M 4.140E-03 1/M

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
400M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
E 114.0	0	0.	0.	400
118.0	9	7.275E-09	3.056E-08	400
122.0	1128	8.486E-07	3.564E-06	400
126.0	4674	3.515E-06	1.476E-05	400
130.0	8564	6.439E-06	2.704E-05	400
134.0	9756	7.336E-06	3.081E-05	400
138.0	31512	2.369E-05	9.951E-05	400
142.0	20918	1.573E-05	6.606E-05	400
146.0	24548	1.846E-05	7.752E-05	400
150.0	17034	9.048E-06	3.800E-05	400
B 154.0	5173	3.890E-06	1.634E-05	400

CROSSWIND INTEGRATED= 2.484E-03 SEC/SQ.M 1.043E-02 1/M

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST  
RHODAMINE B RELEASE FROM ELEVATION OF 26M  
400M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
118.0	0	0.	0.	400
122.0	86	8.627E-07	3.624E-06	400
126.0	341	3.420E-06	1.436E-05	400
130.0	591	5.914E-06	2.484E-05	400
134.0	965	9.656E-06	4.056E-05	400
138.0	1682	1.683E-05	7.068E-05	400
142.0	1963	1.964E-05	8.247E-05	400
146.0	1932	1.932E-05	8.116E-05	400
150.0	840	8.409E-06	3.532E-05	400
B 154.0	383	3.836E-06	1.611E-05	400

CROSSWIND INTEGRATED= 2.454E-03 SEC/SQ.M 1.031E-02 1/M

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
BOOM ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
E 120.2	0	0.	0.	845
122.1	30	2.268E-08	9.526E-08	848
124.0	104	7.857E-08	3.300E-07	851
125.8	119	8.991E-08	3.776E-07	854
127.7	396	2.981E-07	1.252E-06	857
129.5	1117	8.400E-07	3.528E-06	859
131.4	1929	1.451E-06	6.092E-06	862
133.2	4899	3.684E-06	1.547E-05	865
135.0	3859	2.902E-06	1.219E-05	867
136.8	7662	5.776E-06	2.426E-05	869
138.7	3117	2.344E-06	9.846E-06	872
140.6	5632	4.235E-06	1.779E-05	874
142.4	6220	4.677E-06	1.964E-05	876
144.2	6283	4.724E-06	1.984E-05	878
146.0	4244	3.192E-06	1.340E-05	880
147.8	6497	4.885E-06	2.052E-05	882
149.6	4398	3.307E-06	1.389E-05	884
151.4	2795	2.102E-06	8.829E-06	886
153.2	3791	2.851E-06	1.197E-05	887
155.0	1846	1.388E-06	5.831E-06	889
156.8	1228	9.234E-07	3.878E-06	890
158.6	745	5.205E-07	2.354E-06	892
160.4	613	4.609E-07	1.936E-06	893
E 162.2	233	1.758E-07	7.383E-07	894

CROSSWIND INTEGRATED= 1.416E-03 SEC/SQ.M 5.949E-03 1/M

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
BOOM ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
126.0	1	1.023E-09	4.295E-09	1200
128.0	22	1.721E-08	7.230E-08	1200
130.0	26	1.994E-08	8.375E-08	1200
132.0	174	1.311E-07	5.505E-07	1200
134.0	643	4.535E-07	2.031E-06	1200
S 136.0	717	5.397E-07	2.267E-06	1200
138.0	2000	1.504E-06	6.316E-06	1200
140.0	1971	1.463E-06	6.227E-06	1200
142.0	1045	7.864E-07	3.303E-06	1200
144.0	1564	1.174E-06	4.940E-06	1200
146.0	1432	1.077E-06	4.523E-06	1200
148.0	219	6.163E-07	2.588E-06	1200
150.0	793	5.969E-07	2.505E-06	1200
152.0	568	4.275E-07	1.746E-06	1200
154.0	396	2.981E-07	1.252E-06	1200
156.0	703	5.287E-07	2.220E-06	1200
E 156.0	671	5.055E-07	2.121E-06	1200

CROSSWIND INTEGRATED= 4.269E-04 SEC/SQ.M 1.793E-03 1/M

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST  
RHODAMINE B RELEASE FROM ELEVATION OF 26M  
BOOM ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
120.2	0	0.	0.	845
122.1	3	3.100E-08	1.302E-07	848
124.0	1	1.033E-08	4.340E-08	851
125.8	5	5.511E-08	2.315E-07	854
127.7	24	2.480E-07	1.042E-06	857
129.5	46	4.616E-07	1.939E-06	859
131.4	96	9.644E-07	4.051E-06	862
133.2	268	2.667E-06	1.128E-05	865
135.0	161	1.619E-06	6.799E-06	867
136.8	378	3.789E-06	1.591E-05	869
138.7	75	7.504E-07	3.154E-06	872
140.6	327	3.272E-06	1.374E-05	874
142.4	327	3.272E-06	1.374E-05	876
144.2	409	4.099E-06	1.722E-05	878
146.0	420	4.207E-06	1.765E-05	880
147.8	409	4.099E-06	1.722E-05	882
149.6	296	2.962E-06	1.244E-05	884
151.4	172	1.727E-06	7.233E-06	886
153.2	144	1.447E-06	6.076E-06	887
155.0	151	1.516E-06	6.365E-06	889
156.8	65	6.544E-07	2.749E-06	890
158.6	47	4.719E-07	1.982E-06	892
160.4	35	3.996E-07	1.670E-06	893
E 162.2	19	1.929E-07	8.101E-07	894

CROSSWIND INTEGRATED= 1.001E-03 SEC/SQ.M 4.538E-03 1/M

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST  
RHODAMINE B RELEASE FROM ELEVATION OF 26M  
BOOM ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
126.0	0	4.638E-09	1.948E-08	1200
128.0	0	6.009E-08	2.776E-07	1200
130.0	17	1.768E-07	7.427E-07	1200
132.0	60	6.000E-07	2.520E-06	1200
134.0	61	6.174E-07	2.545E-06	1200
S 136.0	196	1.962E-06	8.242E-06	1200
138.0	175	1.789E-06	7.512E-06	1200
140.0	202	2.020E-06	8.466E-06	1200
142.0	196	1.962E-06	8.242E-06	1200
144.0	277	2.774E-06	1.165E-05	1200
146.0	207	2.078E-06	8.729E-06	1200
148.0	173	1.731E-06	7.263E-06	1200
150.0	96	9.653E-07	4.054E-06	1200
152.0	73	7.397E-07	3.105E-06	1200
154.0	93	9.305E-07	3.968E-06	1200
E 156.0	94	4.479E-07	3.961E-06	1200

CROSSWIND INTEGRATED= 6.112E-04 SEC/SQ.M 3.407E-03 1/M

TEST V3 NOVEMBER 16, 1972 0955 TU 1025 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
1600M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
E 126.9	0	0.	0.	1658
127.8	21	1.626E-08	6.829E-08	1659
128.8	56	4.239E-08	1.780E-07	1660
129.7	200	1.510E-07	6.341E-07	1662
130.6	303	2.282E-07	9.584E-07	1663
131.5	394	2.967E-07	1.246E-06	1664
132.5	249	1.876E-07	7.877E-07	1665
133.5	569	4.285E-07	1.800E-06	1667
134.4	841	6.323E-07	2.656E-06	1668
135.4	1236	9.296E-07	3.904E-06	1669
136.4	1301	9.784E-07	4.109E-06	1670
137.3	1292	9.720E-07	4.083E-06	1672
138.3	1482	1.114E-06	4.680E-06	1673
139.3	1144	8.605E-07	3.614E-06	1674
140.2	1407	1.058E-06	4.443E-06	1675
141.2	1333	1.003E-06	4.212E-06	1676
142.2	959	7.218E-07	3.031E-06	1677
143.1	1362	1.024E-06	4.302E-06	1678
144.1	1430	1.075E-06	4.517E-06	1679
145.1	1135	8.536E-07	3.585E-06	1680
146.0	1056	7.943E-07	3.346E-06	1681
146.9	1246	9.372E-07	3.936E-06	1682
147.9	1102	8.292E-07	3.485E-06	1683
148.8	690	5.191E-07	2.180E-06	1684
149.7	585	4.401E-07	1.849E-06	1685
150.7	388	2.921E-07	1.227E-06	1686
151.6	395	2.973E-07	1.249E-06	1687
152.6	442	3.327E-07	1.397E-06	1688
153.5	411	3.095E-07	1.300E-06	1688
154.5	499	3.757E-07	1.578E-06	1689
B 155.4	358	2.694E-07	1.132E-06	1690

CROSSWIND INTEGRATED= 5.034E-04 SEC/SQ.M  
2.114E-03 1/M

TEST V3 NOVEMBER 16, 1972 0955 TU 1025 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
2200M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
E 126.0	0	0.	0.	2200
128.0	10	8.053E-09	3.302E-08	2200
130.0	28	2.128E-08	8.939E-08	2200
132.0	64	4.461E-08	2.041E-07	2200
134.0	91	6.845E-08	2.875E-07	2200
136.0	310	2.333E-07	9.797E-07	2200
138.0	450	3.385E-07	1.422E-06	2200
140.0	486	3.656E-07	1.535E-06	2200
142.0	423	3.184E-07	1.337E-06	2200
144.0	360	2.709E-07	1.138E-06	2200
146.0	407	3.060E-07	1.285E-06	2200
148.0	248	1.867E-07	7.840E-07	2200
150.0	159	1.199E-07	5.037E-07	2200
152.0	110	8.312E-08	3.491E-07	2200
154.0	169	1.274E-07	5.351E-07	2200
B 156.0	219	1.648E-07	6.922E-07	2200

CROSSWIND INTEGRATED= 2.043E-04 SEC/SQ.M  
8.583E-04 1/M

TEST V3 NOVEMBER 16, 1972 0955 TU 1025 PST  
RHODAMINE B RELEASE FROM ELEVATION OF 26M  
1600M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
127.8	0	2.272E-09	9.541E-09	1659
128.8	0	4.543E-09	1.908E-08	1660
129.7	4	4.543E-08	1.908E-07	1662
130.6	15	1.590E-07	6.678E-07	1663
131.5	15	1.567E-07	6.583E-07	1664
132.5	18	1.840E-07	7.728E-07	1665
133.5	37	3.748E-07	1.574E-06	1667
134.4	53	5.315E-07	2.232E-06	1668
135.4	73	7.383E-07	3.101E-06	1669
136.4	76	7.837E-07	3.291E-06	1670
137.3	82	8.291E-07	3.482E-06	1672
138.3	82	8.291E-07	3.482E-06	1673
139.3	85	8.518E-07	3.578E-06	1674
140.2	82	8.291E-07	3.482E-06	1675
141.2	91	9.200E-07	3.864E-06	1676
142.2	80	8.064E-07	3.387E-06	1677
143.1	89	8.973E-07	3.769E-06	1678
144.1	105	1.056E-06	4.436E-06	1679
145.1	91	9.200E-07	3.864E-06	1680
146.0	82	8.064E-07	3.482E-06	1681
146.9	105	1.056E-06	4.436E-06	1682
147.9	80	8.064E-07	3.387E-06	1683
148.8	55	5.565E-07	2.337E-06	1684
149.7	42	4.225E-07	1.775E-06	1685
150.7	27	2.794E-07	1.173E-06	1686
151.6	23	2.315E-07	1.002E-06	1687
152.6	29	2.998E-07	1.259E-06	1688
153.5	29	2.930E-07	1.231E-06	1688
154.5	29	2.998E-07	1.259E-06	1689
B 155.4	26	2.658E-07	1.116E-06	1690

CROSSWIND INTEGRATED= 4.555E-04 SEC/SQ.M  
1.913E-03 1/M

TEST V3 NOVEMBER 16, 1972 0955 TU 1025 PST  
RHODAMINE B RELEASE FROM ELEVATION OF 26M  
2200M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
130.0	1	1.438E-08	6.040E-08	2200
132.0	3	3.185E-08	1.338E-07	2200
134.0	15	1.541E-07	6.472E-07	2200
136.0	29	2.928E-07	1.230E-06	2200
138.0	38	3.852E-07	1.616E-06	2200
140.0	55	5.599E-07	2.351E-06	2200
142.0	62	6.215E-07	2.610E-06	2200
144.0	57	5.701E-07	2.395E-06	2200
146.0	43	4.366E-07	1.834E-06	2200
148.0	36	3.647E-07	1.532E-06	2200
150.0	24	2.414E-07	1.014E-06	2200
152.0	14	1.418E-07	5.954E-07	2200
154.0	16	1.695E-07	7.119E-07	2200
B 156.0	13	1.356E-07	5.695E-07	2200

CROSSWIND INTEGRATED= 3.163E-04 SEC/SQ.M  
1.329E-03 1/M

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 3200M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

AZIMUTH EXPOSURE E/W EU/Q DISTANCE  
 DEGREES GM-SFC/CM H SEC/CM H 1/SQ.M METERS  
 X10E+6

E 129.3	0	0.	0.	3262
130.3	37	2.790E-08	1.172E-07	3263
131.2	76	5.752E-08	2.416E-07	3264
132.2	22	1.697E-08	7.127E-08	3266
133.2	47	3.536E-08	1.486E-07	3267
134.2	74	5.608E-08	2.356E-07	3268
135.2	66	5.033E-08	2.114E-07	3270
136.2	118	8.906E-08	3.745E-07	3271
137.1	179	1.352E-07	5.677E-07	3272
138.1	216	1.631E-07	6.849E-07	3273
139.1	248	1.869E-07	7.852E-07	3274
140.1	216	1.631E-07	6.849E-07	3276
141.1	212	1.599E-07	6.716E-07	3277
142.0	194	1.461E-07	6.136E-07	3278
143.0	286	2.154E-07	9.048E-07	3279
144.0	241	1.815E-07	7.622E-07	3280
145.0	145	1.093E-07	4.590E-07	3281
146.0	220	1.657E-07	6.958E-07	3282
146.9	196	1.478E-07	6.209E-07	3283
147.9	199	1.498E-07	6.293E-07	3284
148.9	202	1.521E-07	6.390E-07	3285
149.9	182	1.375E-07	5.774E-07	3286
150.9	113	8.571E-08	3.600E-07	3287
151.8	78	5.925E-08	2.488E-07	3287
152.8	25	1.927E-08	8.093E-08	3288
E 153.8	7	5.752E-08	2.416E-08	3289
154.8	3	2.588E-09	1.087E-08	3290
E 155.7	2	2.013E-09	8.456E-09	3290
156.7	2	1.726E-09	7.248E-09	3291

CROSSWIND INTEGRATED= 1.527E-04 6.414E-04  
 SEC/SQ.M 1/M

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST  
 RHODAMINE B RELEASE FROM ELEVATION OF 26M  
 3200M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

AZIMUTH EXPOSURE E/W EU/Q DISTANCE  
 DEGREES GM-SFC/CM H SFC/CM H 1/SQ.M METERS  
 X10E+6

131.2	1	1.849E-08	7.766E-08	3264
132.2	1	1.130E-08	4.746E-08	3266
133.2	2	2.260E-08	9.492E-08	3267
134.2	5	5.034E-08	2.114E-07	3268
135.2	6	6.369E-08	2.675E-07	3270
136.2	6	6.677E-08	2.805E-07	3271
137.1	11	1.109E-07	4.660E-07	3272
138.1	13	1.356E-07	5.695E-07	3273
139.1	14	1.418E-07	5.954E-07	3274
140.1	16	1.695E-07	7.119E-07	3276
141.1	16	1.664E-07	6.990E-07	3277
142.0	17	1.757E-07	7.378E-07	3278
143.0	21	2.188E-07	9.190E-07	3279
144.0	21	2.157E-07	9.061E-07	3280
145.0	18	1.849E-07	7.766E-07	3281
146.0	19	1.911E-07	8.025E-07	3282
146.9	17	1.767E-07	7.507E-07	3283
147.9	13	1.387E-07	5.625E-07	3284
148.9	11	1.140E-07	4.789E-07	3285
149.9	9	9.554E-08	4.013E-07	3286
150.9	6	6.164E-08	2.589E-07	3287
151.8	3	3.904E-08	1.640E-07	3287
152.8	1	1.849E-08	7.766E-08	3288

CROSSWIND INTEGRATED= 1.453E-04 6.103E-04  
 SFC/SQ.M 1/M



TOWER DATA FOLLOW....

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
200M ARC U= 4.2 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
M 102.0	.4	0	0.	0.	200
M 110.0	.4	0	0.	0.	200
118.0	.4	1101	8.284E-07	3.479E-06	200
118.0	.8	839	6.309E-07	2.650E-06	200
118.0	1.5	1454	1.094E-06	4.593E-06	200
118.0	2.5	1475	1.110E-06	4.660E-06	200
118.0	4.0	1669	8.041E-07	3.377E-06	200
118.0	5.5	1061	7.985E-07	3.354E-06	200
118.0	7.0	3080	2.316E-06	9.727E-06	200
118.0	8.5	3033	2.281E-06	9.578E-06	200
118.0	10.0	3870	2.910E-06	1.222E-05	200
118.0	13.0	6845	5.147E-06	2.162E-05	200
118.0	16.0	7554	5.680E-06	2.386E-05	200
118.0	19.0	10654	8.011E-06	3.365E-05	200
118.0	22.0	10520	7.910E-06	3.322E-05	200
118.0	25.0	6470	4.865E-06	2.043E-05	200
118.0	28.0	5828	4.382E-06	1.841E-05	200
118.0	31.0	5010	3.767E-06	1.582E-05	200
118.0	32.8	5175	3.891E-06	1.634E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
126.0	.4	1610	1.211E-06	5.087E-06	200
126.0	.8	2895	2.177E-06	9.144E-06	200
126.0	1.5	8527	6.412E-06	2.693E-05	200
126.0	2.5	11092	8.340E-06	3.503E-05	200
126.0	4.0	13325	1.004E-05	4.208E-05	200
126.0	5.5	12893	9.694E-06	4.072E-05	200
126.0	7.0	14942	1.173E-05	4.719E-05	200
126.0	8.5	18823	1.415E-05	5.944E-05	200
126.0	10.0	11314	8.507E-06	3.573E-05	200
126.0	13.0	4662	3.506E-06	1.472E-05	200
126.0	16.0	10750	8.083E-06	3.395E-05	200
126.0	19.0	9853	7.409E-06	3.112E-05	200
126.0	22.0	8920	5.955E-06	2.501E-05	200
126.0	25.0	14258	1.072E-05	4.503E-05	200
126.0	28.0	12754	9.590E-06	4.028E-05	200
126.0	31.0	13703	1.070E-05	4.328E-05	200
126.0	32.8	15573	1.171E-05	4.918E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
134.0	.4	13626	1.075E-05	4.303E-05	200
134.0	.8	15148	1.139E-05	4.784E-05	200
134.0	1.5	23407	1.760E-05	7.392E-05	200
134.0	2.5	21341	1.605E-05	6.740E-05	200
134.0	4.0	24909	2.174E-05	9.124E-05	200
134.0	5.5	33390	2.511E-05	1.054E-04	200
134.0	7.0	49425	3.716E-05	1.561E-04	200
134.0	8.5	60576	4.555E-05	1.913E-04	200
134.0	10.0	58441	4.394E-05	1.846E-04	200
134.0	13.0	70383	5.292E-05	2.223E-04	200
134.0	16.0	63839	4.800E-05	2.016E-04	200
134.0	19.0	74596	5.609E-05	2.356E-04	200
134.0	22.0	79887	6.007E-05	2.523E-04	200
134.0	25.0	62190	4.676E-05	1.964E-04	200
134.0	28.0	50376	3.788E-05	1.591E-04	200
134.0	31.0	43412	3.264E-05	1.371E-04	200
134.0	32.8	28256	2.175E-05	8.923E-05	200

TOWER DATA FOLLOW....

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST  
RHODAMINE B RELEASE FROM ELEVATION OF 26M  
200M ARC U= 4.2 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
N 102.0	.4	0	0.	0.	200
N 110.0	.4	0	0.	0.	200
118.0	.4	53	5.306E-07	2.228E-06	200
118.0	.8	55	5.519E-07	2.318E-06	200
118.0	1.5	153	1.531E-06	6.431E-06	200
118.0	2.5	32	3.276E-07	1.376E-06	200
118.0	4.0	16	1.674E-07	7.029E-07	200
118.0	5.5	25	2.528E-07	1.062E-06	200
118.0	7.0	43	4.344E-07	1.825E-06	200
118.0	8.5	34	3.490E-07	1.466E-06	200
118.0	10.0	97	9.258E-07	3.888E-06	200
118.0	13.0	147	1.474E-06	5.982E-06	200
118.0	16.0	227	2.279E-06	9.571E-06	200
118.0	19.0	338	3.383E-06	1.421E-05	200
118.0	22.0	316	3.169E-06	1.331E-05	200
118.0	25.0	210	2.101E-06	8.824E-06	200
118.0	28.0	170	1.709E-06	7.179E-06	200
118.0	31.0	156	1.567E-06	6.580E-06	200
118.0	32.8	174	1.745E-06	7.328E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
126.0	.4	96	9.614E-07	4.038E-06	200
126.0	.8	349	3.490E-06	1.466E-05	200
126.0	1.5	477	4.771E-06	2.004E-05	200
126.0	2.5	252	2.528E-06	1.062E-05	200
126.0	4.0	252	2.528E-06	1.062E-05	200
126.0	5.5	381	3.810E-06	1.600E-05	200
126.0	7.0	348	3.490E-06	1.466E-05	200
126.0	8.5	316	3.169E-06	1.331E-05	200
126.0	10.0	274	2.742E-06	1.152E-05	200
126.0	13.0	48	4.878E-07	2.049E-06	200
126.0	16.0	227	2.279E-06	9.571E-06	200
126.0	19.0	220	2.208E-06	9.272E-06	200
126.0	22.0	192	1.923E-06	8.076E-06	200
126.0	25.0	455	4.556E-06	1.914E-05	200
126.0	28.0	346	3.490E-06	1.466E-05	200
126.0	31.0	370	3.703E-06	1.555E-05	200
126.0	32.8	445	4.451E-06	1.869E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
134.0	.4	306	3.062E-06	1.286E-05	200
134.0	.8	391	3.917E-06	1.645E-05	200
134.0	1.5	658	6.588E-06	2.767E-05	200
134.0	2.5	413	4.131E-06	1.735E-05	200
134.0	4.0	616	6.160E-06	2.587E-05	200
134.0	5.5	1064	1.065E-05	4.472E-05	200
134.0	7.0	1171	1.172E-05	4.920E-05	200
134.0	8.5	1527	1.528E-05	6.416E-05	200
134.0	10.0	1563	1.563E-05	6.565E-05	200
134.0	13.0	1634	1.634E-05	6.865E-05	200
134.0	16.0	1954	1.955E-05	8.211E-05	200
134.0	19.0	1954	1.955E-05	8.211E-05	200
134.0	22.0	2168	2.169E-05	9.108E-05	200
134.0	25.0	1171	1.172E-05	4.920E-05	200
134.0	28.0	1420	1.421E-05	5.967E-05	200
134.0	31.0	1135	1.136E-05	4.771E-05	200
134.0	32.8	669	6.694E-06	2.812E-05	200

TOWER DATA FOLLOW....

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST  
ZINC SULFIDE RELEASE FROM ELFVIATION OF 26M  
BOOM ARC U= 4.2 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
N 105.0	.3	0	0.	0.	820
N 112.6	.3	0	0.	0.	833
N 120.2	.3	0	0.	0.	845
127.7	.3	422	3.179E-07	1.335E-06	857
127.7	.5	416	3.134E-07	1.316E-06	857
127.7	1.1	272	2.052E-07	8.616E-07	857
127.7	1.5	396	2.981E-07	1.252E-06	857
127.7	2.1	344	2.588E-07	1.087E-06	857
127.7	4.2	382	2.875E-07	1.207E-06	857
127.7	6.3	389	2.927E-07	1.229E-06	857
127.7	8.4	270	2.032E-07	8.536E-07	857
127.7	10.5	316	2.379E-07	9.994E-07	857
127.7	12.6	349	2.625E-07	1.102E-06	857
127.7	14.7	354	2.705E-07	1.136E-06	857
127.7	16.8	457	3.436E-07	1.444E-06	857
127.7	21.0	411	3.092E-07	1.298E-06	857
127.7	25.2	431	3.242E-07	1.361E-06	857
127.7	29.4	426	3.208E-07	1.348E-06	857
127.7	33.6	623	4.691E-07	1.970E-06	857
127.7	37.8	487	3.668E-07	1.540E-06	857
S 127.7	42.0	857	6.444E-07	2.707E-06	857

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
135.0	.3	5876	4.419E-06	1.856E-05	867
135.0	.5	1826	1.373E-06	5.767E-06	867
135.0	1.1	7163	5.386E-06	2.262E-05	867
135.0	1.5	3859	2.902E-06	1.214E-05	867
135.0	2.1	6868	5.164E-06	2.164E-05	867
135.0	4.2	5844	4.394E-06	1.846E-05	867
135.0	6.3	6615	4.974E-06	2.089E-05	867
135.0	8.4	4831	3.633E-06	1.526E-05	867
135.0	10.5	5370	4.036E-06	1.696E-05	867
135.0	12.6	5184	3.852E-06	1.657E-05	867
135.0	14.7	5324	4.035E-06	1.694E-05	867
135.0	16.8	5793	4.356E-06	1.829E-05	867
135.0	21.0	5474	4.116E-06	1.729E-05	867
135.0	25.2	5291	3.978E-06	1.671E-05	867
135.0	29.4	5345	4.019E-06	1.688E-05	867
135.0	33.6	4318	3.247E-06	1.364E-05	867
S 135.0	37.8	2403	1.807E-06	7.594E-06	867
135.0	42.0	4313	3.243E-06	1.362E-05	867

TOWER DATA FOLLOW....

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST  
RHODAMINE B RELEASE FROM ELEVATION OF 26M  
BOOM ARC U= 4.2 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
N 105.0	.3	0	0.	0.	820
N 112.6	.3	0	0.	0.	833
N 120.2	.3	0	0.	0.	845
127.7	.3	20	2.032E-07	8.536E-07	857
127.7	.5	16	1.653E-07	6.944E-07	857
127.7	1.1	16	1.619E-07	6.759E-07	857
127.7	1.5	24	2.480E-07	1.042E-06	857
127.7	2.1	15	1.584E-07	6.655E-07	857
127.7	4.2	11	1.102E-07	4.629E-07	857
127.7	6.3	11	1.137E-07	4.774E-07	857
127.7	8.4	9	9.644E-08	4.051E-07	857
127.7	10.5	9	9.644E-08	4.051E-07	857
127.7	12.6	17	1.722E-07	7.253E-07	857
127.7	14.7	9	9.370E-08	3.906E-07	857
127.7	16.8	12	1.274E-07	5.353E-07	857
127.7	21.0	11	1.171E-07	4.919E-07	857
127.7	25.2	14	1.447E-07	6.076E-07	857
127.7	29.4	17	1.757E-07	7.378E-07	857
127.7	33.6	8	8.611E-08	3.617E-07	857
127.7	37.8	15	1.550E-07	6.510E-07	857
S 127.7	42.0	12	1.240E-07	5.208E-07	857

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
135.0	.3	241	2.411E-06	1.013E-05	867
135.0	.5	46	4.616E-07	1.939E-06	867
135.0	1.1	298	2.962E-06	1.244E-05	867
135.0	1.5	161	1.614E-06	6.779E-06	867
135.0	2.1	306	3.066E-06	1.288E-05	867
135.0	4.2	244	2.446E-06	1.027E-05	867
135.0	6.3	220	2.204E-06	9.259E-06	867
135.0	8.4	247	2.480E-06	1.042E-05	867
135.0	10.5	220	2.204E-06	9.259E-06	867
135.0	12.6	210	2.101E-06	8.825E-06	867
135.0	14.7	216	2.170E-06	9.114E-06	867
135.0	16.8	206	2.067E-06	8.680E-06	867
135.0	21.0	210	2.101E-06	8.825E-06	867
135.0	25.2	247	2.480E-06	1.042E-05	867
135.0	29.4	152	1.999E-06	8.101E-06	867
135.0	33.6	165	1.653E-06	6.944E-06	867
S 135.0	37.8	103	1.033E-06	4.346E-06	867
135.0	42.0	185	1.866E-06	7.812E-06	867

TOWER DATA FOLLOW....

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST  
 ZINC SULFIDE RELEASE FROM ELFVIATION OF 26M  
 1600M ARC U= 4.2 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	E/O SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
N 101.6	.2	0	0.	0.	1617
N 109.5	.2	0	0.	0.	1630
N 117.3	.2	0	0.	0.	1643
E 125.0	.2	0	0.	0.	1655
E 125.0	.4	0	0.	0.	1655
F 125.0	.8	0	0.	0.	1655
I 125.0	1.6	0	0.	0.	1655
E 125.0	1.6	0	0.	0.	1655
E 125.0	3.1	0	0.	0.	1655
E 125.0	6.2	0	0.	0.	1655
E 125.0	9.3	0	0.	0.	1655
E 125.0	12.4	0	0.	0.	1655
E 125.0	15.5	0	0.	0.	1655
E 125.0	18.6	0	0.	0.	1655
E 125.0	21.7	0	0.	0.	1655
E 125.0	24.8	0	0.	0.	1655
125.0	31.0	0	0.	0.	1655
125.0	37.2	39	2.979E-08	1.251E-07	1655
125.0	43.4	37	2.803E-08	1.177E-07	1655
125.0	49.6	33	2.497E-08	1.049E-07	1655
125.0	55.8	38	2.891E-08	1.214E-07	1655
125.0	62.0	34	2.628E-08	1.104E-07	1655
132.5	.2	270	2.037E-07	8.554E-07	1665
132.5	.4	329	2.477E-07	1.041E-06	1665
132.5	.8	199	1.501E-07	6.104E-07	1665
132.5	1.6	249	1.876E-07	7.877E-07	1665
132.5	1.6	257	1.934E-07	8.121E-07	1665
132.5	3.1	268	2.172E-07	9.121E-07	1665
132.5	6.2	290	2.181E-07	9.161E-07	1665
132.5	9.3	284	2.131E-07	8.977E-07	1665
132.5	12.4	227	1.714E-07	7.199E-07	1665
132.5	15.5	522	3.931E-07	1.651E-06	1665
132.5	18.6	364	2.738E-07	1.150E-06	1665
132.5	21.7	541	4.072E-07	1.710E-06	1665
132.5	24.8	511	3.846E-07	1.615E-06	1665
132.5	31.0	435	3.272E-07	1.374E-06	1665
132.5	37.2	346	2.602E-07	1.093E-06	1665
132.5	43.4	398	2.996E-07	1.258E-06	1665
132.5	49.6	364	2.738E-07	1.150E-06	1665
132.5	55.8	145	1.195E-07	4.599E-07	1665
132.5	62.0	235	1.770E-07	7.432E-07	1665

TOWER DATA FOLLOW....

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST  
 RHODAMINE B RELEASE FROM ELFVIATION OF 26M  
 1600M ARC U= 4.2 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/O SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
N 101.6	.2	0	0.	0.	1617
N 109.5	.2	0	0.	0.	1630
N 117.3	.2	0	0.	0.	1643
125.0	31.0	1	1.136E-08	4.770E-08	1655
125.0	37.2	0	0.	0.	1655
125.0	43.4	0	0.	0.	1655
125.0	49.6	0	0.	0.	1655
125.0	55.8	0	0.	0.	1655
125.0	62.0	0	0.	0.	1655
132.5	.2	9	9.995E-08	4.198E-07	1665
132.5	.4	10	1.090E-07	4.579E-07	1665
132.5	.8	10	1.068E-07	4.464E-07	1665
132.5	1.6	18	1.840E-07	7.728E-07	1665
132.5	1.6	12	1.272E-07	5.343E-07	1665
132.5	3.1	10	1.090E-07	4.574E-07	1665
132.5	6.2	13	1.318E-07	5.533E-07	1665
132.5	9.3	16	1.615E-07	6.774E-07	1665
132.5	12.4	10	1.072E-07	4.293E-07	1665
132.5	15.5	16	1.658E-07	6.965E-07	1665
132.5	18.6	15	1.590E-07	6.678E-07	1665
132.5	21.7	19	1.908E-07	8.014E-07	1665
132.5	24.8	17	1.704E-07	7.155E-07	1665
132.5	31.0	21	2.181E-07	9.159E-07	1665
132.5	37.2	15	1.363E-07	5.724E-07	1665
132.5	43.4	12	1.295E-07	5.438E-07	1665
132.5	49.6	11	1.150E-07	4.860E-07	1665
132.5	55.8	4	4.089E-08	1.717E-07	1665
132.5	62.0	9	9.086E-08	3.816E-07	1665

TOWER DATA FOLLOW....

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
3200M ARC U= 4.2 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/D SEC/CM <sup>2</sup>	EU/D 1/SQ.M	DISTANCE METERS
N 99.8	.2	0	0.	0.	3215
N 107.8	.2	0	0.	0.	3229
N 115.6	.2	0	0.	0.	3241
N 123.4	.2	0	0.	0.	3253
L 131.2	.2	0	0.	0.	3264
131.2	.4	42	3.171E-08	1.332E-07	3264
131.2	.8	21	1.611E-08	6.765E-08	3264
131.2	1.5	76	5.752E-08	2.416E-07	3264
131.2	1.6	35	2.646E-08	1.111E-07	3264
131.2	3.1	37	2.828E-08	1.188E-07	3264
131.2	6.2	33	2.526E-08	1.061E-07	3264
131.2	9.3	33	2.553E-08	1.072E-07	3264
131.2	12.4	39	2.994E-08	1.257E-07	3264
131.2	15.5	30	2.279E-08	9.572E-08	3264
131.2	18.6	33	2.515E-08	1.056E-07	3264
131.2	21.7	35	2.688E-08	1.129E-07	3264
131.2	24.8	43	3.264E-08	1.371E-07	3264
131.2	31.0	33	2.499E-08	1.049E-07	3264
131.2	37.2	42	3.162E-08	1.328E-07	3264
131.2	43.4	59	4.462E-08	1.874E-07	3264
131.2	49.6	74	5.635E-08	2.367E-07	3264
131.2	55.8	46	3.493E-08	1.467E-07	3264
131.2	62.0	47	3.595E-08	1.510E-07	3264

TOWER DATA FOLLOW....

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST  
RHODAMINE B RELEASE FROM ELEVATION OF 26M  
3200M ARC U= 4.2 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/D SEC/CM <sup>2</sup>	EU/D 1/SQ.M	DISTANCE METERS
N 99.8	.2	0	0.	0.	3215
N 107.8	.2	0	0.	0.	3229
N 115.6	.2	0	0.	0.	3241
N 123.4	.2	0	0.	0.	3253
131.2	.2	0	0.	0.	3264
131.2	.4	1	1.375E-08	5.609E-08	3264
131.2	.8	0	9.246E-09	3.883E-08	3264
131.2	1.5	1	1.849E-08	7.766E-08	3264
131.2	1.6	0	6.164E-09	2.589E-08	3264
131.2	3.1	0	2.055E-09	8.629E-09	3264
131.2	6.2	0	3.062E-09	1.294E-08	3264
131.2	9.3	0	5.136E-09	2.157E-08	3264
131.2	12.4	1	1.438E-08	6.040E-08	3264
131.2	15.5	0	4.109E-09	1.726E-08	3264
131.2	18.6	0	5.136E-09	2.157E-08	3264
131.2	21.7	0	5.136E-09	2.157E-08	3264
131.2	24.8	0	5.136E-09	2.157E-08	3264
131.2	31.0	0	6.164E-09	2.589E-08	3264
131.2	37.2	0	6.218E-09	3.452E-08	3264
131.2	43.4	0	7.191E-09	3.020E-08	3264
131.2	49.6	0	7.191E-09	3.020E-08	3264
131.2	55.8	1	1.478E-08	6.040E-08	3264
131.2	62.0	0	5.136E-09	2.157E-08	3264

GROUND LEVEL AND TOWER SAMPLING 200M TO 1600M - WITH ADDITIONAL TWO TOWERS SAMPLING AT 3200M.  
 ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER. TOWER SAMPLES TRUNCATED AT TOP. ABOUT 9 CM SNOW DEPTH ON  
 GROUND DURING EXPERIMENT. THERMALLY STABLE IN LOWEST 6M, BUT NEUTRAL ABOVE.

TEST V4 DECEMBER 12, 1972 1049 TO 1120 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 200M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SFC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
116.0	8	5.649E-09	1.469E-08	200
9 118.0	30	2.018E-08	5.246E-08	200
120.0	33	2.260E-08	5.875E-08	200
122.0	72	4.342E-08	1.259E-07	200
124.0	338	2.260E-07	5.875E-07	200
126.0	323	2.155E-07	5.603E-07	200
128.0	1102	7.605E-07	2.050E-06	200
130.0	10350	6.900E-06	1.794E-05	200
F 132.0	2543	1.696E-06	4.409E-06	200
134.0	4498	2.999E-06	7.798E-06	200
P 136.0	1907	1.272E-06	3.307E-06	200
P 138.0	1068	7.126E-07	1.853E-06	200
P 140.0	430	2.873E-07	7.470E-07	200
P 142.0	207	1.386E-07	3.588E-07	200
P 144.0	0	0.	0.	200
P 146.0	10	7.264E-09	1.889E-08	200
P 148.0	56	3.793E-08	9.862E-08	200
150.0	47	3.148E-08	8.184E-08	200
152.0	911	6.077E-07	1.580E-06	200
154.0	0	0.	0.	200

CROSSWIND INTEGRATED= 1.119E-04 SEC/SQ.M  
 2.907E-04 1/M

TEST V4 DECEMBER 12, 1972 1049 TO 1120 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 200M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SFC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
118.3	2	1.561E-09	4.060E-09	842
120.2	174	1.163E-07	3.024E-07	845
122.1	817	5.449E-07	1.417E-06	848
124.0	3058	2.039E-06	5.302E-06	851
125.8	12706	8.471E-06	2.203E-05	854
127.7	18046	1.207E-05	3.128E-05	857
129.5	18256	1.217E-05	3.165E-05	859
131.4	14426	9.617E-06	2.501E-05	862
133.2	9021	6.014E-06	1.564E-05	865
135.0	4309	2.673E-06	7.470E-06	867
136.8	13895	9.264E-06	2.409E-05	869
138.7	29108	1.941E-05	5.045E-05	872
140.6	16357	1.090E-05	2.855E-05	874
T 142.4	6067	4.045E-06	1.052E-05	876
144.2	11814	7.876E-06	2.048E-05	878
146.0	7826	5.217E-06	1.357E-05	880
147.8	16778	1.119E-05	2.908E-05	882
149.6	10972	7.315E-06	1.902E-05	884
151.4	1607	1.072E-06	2.787E-06	886
153.2	236	1.577E-07	4.100E-07	887
W 155.0	2	1.561E-09	4.060E-09	889

CROSSWIND INTEGRATED= 3.637E-03 SEC/SQ.M  
 9.457E-03 1/M

TEST V4 DECEMBER 12, 1972 1049 TO 1118 PST  
 RHODAMINE B RELEASE FROM ELEVATION OF 26M  
 200M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	L/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
116.0	3	3.378E-08	8.764E-08	200
9 118.0	73	7.365E-07	1.915E-06	200
120.0	5	5.405E-08	1.405E-07	200
122.0	9	9.324E-08	2.424E-07	200
124.0	22	2.270E-07	5.903E-07	200
4 126.0	73	7.365E-07	1.915E-06	200
128.0	83	8.311E-07	2.161E-06	200
130.0	966	9.669E-06	2.514E-05	200
P 132.0	106	1.061E-06	2.758E-06	200
3 134.0	1291	1.291E-05	3.357E-05	200
P 136.0	0	4.054E-09	1.054E-08	200
P 138.0	2	2.027E-08	5.270E-08	200
P 140.0	0	0.	0.	200
P 142.0	0	0.	0.	200
P 144.0	0	0.	0.	200
P 146.0	0	0.	0.	200
P 148.0	0	0.	0.	200
150.0	216	2.169E-06	5.639E-06	200
152.0	1	1.351E-08	3.514E-08	200
154.0	2	2.703E-08	7.027E-08	200

CROSSWIND INTEGRATED= 1.996E-04 SEC/SQ.M  
 5.189E-04 1/M

TEST V4 DECEMBER 12, 1972 1049 TO 1118 PST  
 RHODAMINE B RELEASE FROM ELEVATION OF 26M  
 200M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	L/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
120.2	3	3.660E-08	9.516E-08	845
122.1	74	7.425E-07	1.930E-06	848
124.0	193	1.932E-06	5.023E-06	851
125.8	755	7.553E-06	1.964E-05	854
127.7	1497	1.487E-05	3.867E-05	857
129.5	1653	1.653E-05	4.377E-05	859
131.4	1291	1.291E-05	3.357E-05	862
133.2	689	6.899E-06	1.794E-05	865
135.0	467	4.677E-06	1.216E-05	867
136.8	1134	1.134E-05	2.949E-05	869
138.7	2624	2.625E-05	6.824E-05	872
140.6	1526	1.527E-05	3.969E-05	874
E 142.4	1173	1.174E-05	3.051E-05	876
144.2	886	8.860E-06	2.304E-05	878
146.0	546	5.461E-06	1.420E-05	880
147.8	977	9.775E-06	2.542E-05	882
149.6	781	7.814E-06	2.032E-05	884
151.4	212	2.128E-06	5.533E-06	886
153.2	16	1.673E-07	4.350E-07	887

CROSSWIND INTEGRATED= 4.614E-03 SEC/SQ.M  
 1.200E-02 1/M

TEST V4 DECEMBER 12, 1972 1049 TO 1120 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 1600M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 26M

AZIMUTH EXPOSURE E/Q LU/Q DISTANCE  
 DEGREES GM-SEC/CM.H SEC/CM.H 1/SQ.M METERS  
 X10E+6

E 113.4	0	0.	0.	1637
114.4	21	1.453E-08	3.779E-08	1638
115.3	152	1.017E-07	2.645E-07	1640
116.3	462	3.044E-07	8.019E-07	1641
117.3	477	3.146E-07	8.285E-07	1643
118.2	645	4.366E-07	1.120E-06	1644
119.2	968	6.459E-07	1.679E-06	1646
120.2	905	3.034E-07	1.569E-06	1647
121.2	189	1.265E-07	3.289E-07	1649
122.1	480	3.253E-07	8.327E-07	1650
123.1	319	5.463E-07	1.420E-06	1652
124.1	1513	1.009E-06	2.624E-06	1653
125.0	1911	1.275E-06	3.314E-06	1655
126.0	5395	3.597E-06	9.353E-06	1656
Z 126.9	2992	1.995E-06	5.186E-06	1658
127.8	7431	4.954E-06	1.288E-05	1659
128.8	4332	3.222E-06	8.377E-06	1660
129.7	4989	3.326E-06	8.649E-06	1662
130.6	5081	3.358E-06	8.668E-06	1663
131.5	4548	3.033E-06	7.855E-06	1664
132.5	3124	2.603E-06	5.416E-06	1665
133.5	4960	3.407E-06	8.598E-06	1667
134.4	4901	3.268E-06	8.496E-06	1668
135.4	5677	3.785E-06	9.641E-06	1669
136.4	6991	4.661E-06	1.212E-05	1670
137.3	16117	1.075E-05	2.794E-05	1672
138.3	17393	1.193E-05	3.101E-05	1673
139.3	9435	6.290E-06	1.635E-05	1674
140.2	12424	8.283E-06	2.154E-05	1675
141.2	8825	5.884E-06	1.530E-05	1676
142.2	8969	5.979E-06	1.555E-05	1677
143.1	6500	4.333E-06	1.127E-05	1678
144.1	5487	3.659E-06	9.512E-06	1679
145.1	4308	2.872E-06	7.468E-06	1680
146.0	4086	2.724E-06	7.083E-06	1681
146.9	3625	2.417E-06	6.285E-06	1682
147.9	2587	1.725E-06	4.485E-06	1683
148.8	1661	1.108E-06	2.880E-06	1684
149.7	666	4.441E-07	1.155E-06	1685
150.7	342	2.282E-07	5.934E-07	1686
151.6	63	4.252E-08	1.106E-07	1687
F 152.6	0	0.	0.	1688

CROSSWIND INTEGRATED= 3.259E-03 8.345E-03  
 SEC/SQ.M 1/M

TEST V4 DECEMBER 12, 1972 1049 TO 1118 PST  
 RHODAMINE B RELEASE FROM ELEVATION OF 26M  
 1600M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 26M

AZIMUTH EXPOSURE E/Q LU/Q DISTANCE  
 DEGREES GM-SEC/CM.H SEC/CM.H 1/SQ.M METERS  
 X10E+6

115.3	0	0.	0.	1640
116.3	3	3.621E-08	9.414E-08	1641
117.3	5	5.431E-08	1.412E-07	1643
118.2	6	6.466E-08	1.631E-07	1644
119.2	12	1.293E-07	3.362E-07	1646
120.2	35	3.517E-07	9.145E-07	1647
121.2	14	1.422E-07	3.693E-07	1649
122.1	92	9.207E-07	2.394E-06	1650
123.1	86	8.690E-07	2.259E-06	1652
124.1	143	1.438E-06	3.739E-06	1653
125.0	185	1.852E-06	4.814E-06	1655
126.0	504	5.050E-06	1.313E-05	1656
Z 126.9	289	2.895E-06	7.527E-06	1658
127.8	542	5.426E-06	1.515E-05	1659
128.8	392	3.929E-06	1.022E-05	1660
129.7	436	4.360E-06	1.134E-05	1662
130.6	375	3.757E-06	9.768E-06	1663
131.5	272	2.722E-06	7.078E-06	1664
132.5	323	3.248E-06	8.423E-06	1665
133.5	298	2.981E-06	7.751E-06	1667
134.4	306	3.067E-06	7.975E-06	1668
135.4	359	3.534E-06	9.320E-06	1669
136.4	556	5.567E-06	1.447E-05	1670
137.3	1134	1.134E-05	2.949E-05	1672
138.3	1315	1.315E-05	3.420E-05	1673
139.3	617	6.171E-06	1.604E-05	1674
140.2	927	9.274E-06	2.411E-05	1675
141.2	625	6.257E-06	1.627E-05	1676
142.2	582	5.826E-06	1.515E-05	1677
143.1	453	4.533E-06	1.179E-05	1678
144.1	436	4.360E-06	1.134E-05	1679
145.1	341	3.412E-06	8.871E-06	1680
146.0	384	3.843E-06	9.992E-06	1681
146.9	341	3.412E-06	8.871E-06	1682
147.9	315	3.153E-06	8.199E-06	1683
148.8	208	2.084E-06	5.420E-06	1684
149.7	76	7.655E-07	1.990E-06	1685
150.7	47	4.724E-07	1.228E-06	1686
151.6	13	1.345E-07	3.497E-07	1687
152.6	0	0.	0.	1688

CROSSWIND INTEGRATED= 3.651E-03 9.494E-03  
 SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST V4 DECEMBER 12, 1972 1049 TO 1120 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
200M ARC U = 2.6 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
N 102.0	.4	0	0.	0.	200
N 110.0	.4	0	0.	0.	200
O 118.0	.4	73	4.894E-08	1.272E-07	200
L 118.0	.8	0	0.	0.	200
118.0	1.5	30	2.018E-08	5.246E-08	200
118.0	2.5	81	5.467E-08	1.406E-07	200
118.0	4.0	156	1.041E-07	2.707E-07	200
118.0	5.5	347	2.316E-07	6.022E-07	200
118.0	7.0	466	3.107E-07	8.079E-07	200
118.0	8.5	510	3.403E-07	8.848E-07	200
118.0	10.0	371	2.475E-07	6.435E-07	200
118.0	13.0	769	5.176E-07	1.333E-06	200
118.0	16.0	519	3.460E-07	8.996E-07	200
118.0	19.0	3105	2.070E-06	5.382E-06	200
118.0	22.0	3145	2.097E-06	5.452E-06	200
118.0	25.0	4775	3.184E-06	8.278E-06	200
118.0	28.0	5801	3.864E-06	1.006E-05	200
118.0	31.0	2224	1.483E-06	3.855E-06	200
118.0	32.8	3402	2.268E-06	5.897E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
O 126.0	.4	43	2.869E-08	7.459E-08	200
b 126.0	.8	170	1.139E-07	2.962E-07	200
126.0	1.5	323	2.155E-07	5.603E-07	200
126.0	2.5	1376	9.176E-07	2.366E-06	200
126.0	4.0	3832	2.555E-06	6.643E-06	200
126.0	5.5	4269	2.847E-06	7.401E-06	200
126.0	7.0	5746	3.831E-06	9.961E-06	200
126.0	8.5	7495	4.997E-06	1.299E-05	200
126.0	10.0	11569	7.713E-06	2.051E-05	200
126.0	13.0	20388	1.359E-05	3.534E-05	200
126.0	16.0	35176	2.345E-05	6.097E-05	200
126.0	19.0	59122	3.941E-05	1.025E-04	200
126.0	22.0	82749	5.517E-05	1.434E-04	200
126.0	25.0	76511	5.101E-05	1.326E-04	200
126.0	28.0	72334	4.822E-05	1.254E-04	200
126.0	31.0	42587	2.839E-05	7.381E-05	200
S 126.0	32.8	27324	1.822E-05	4.736E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
S 134.0	.4	7403	4.936E-06	1.283E-05	200
S 134.0	.8	3057	2.039E-06	5.360E-06	200
134.0	1.5	4574	3.050E-06	7.950E-06	200
134.0	2.5	6013	4.099E-06	1.042E-05	200
134.0	4.0	11718	7.811E-06	2.031E-05	200
134.0	5.5	21230	1.415E-05	3.680E-05	200
134.0	7.0	29014	1.938E-05	5.038E-05	200
134.0	8.5	44941	2.999E-05	7.797E-05	200
134.0	10.0	54724	3.648E-05	9.466E-05	200
134.0	13.0	79658	5.310E-05	1.381E-04	200
134.0	16.0	121053	8.070E-05	2.098E-04	200
134.0	19.0	50266	3.350E-05	8.709E-05	200
134.0	22.0	218718	1.458E-04	3.791E-04	200
134.0	25.0	314494	2.099E-04	5.451E-04	200
134.0	28.0	176285	1.175E-04	3.056E-04	200
134.0	31.0	183837	1.276E-04	3.187E-04	200
134.0	32.8	201905	1.346E-04	3.500E-04	200

TOWER DATA FOLLOW....

TEST V4 DECEMBER 12, 1972 1049 TO 1110 PST  
RHODAMINE B RELEASE FROM ELEVATION OF 26M  
200M ARC U = 2.6 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
N 102.0	.4	0	0.	0.	200
N 110.0	.4	0	0.	0.	200
O 118.0	.4	147	1.480E-06	3.847E-06	200
O 118.0	.8	91	1.122E-07	2.372E-06	200
118.0	1.5	73	7.345E-07	1.915E-06	200
118.0	2.5	1	1.672E-08	4.216E-08	200
118.0	4.0	27	2.716E-07	7.062E-07	200
118.0	5.5	3	3.378E-08	8.784E-08	200
118.0	7.0	8	8.514E-08	2.214E-07	200
118.0	8.5	7	7.703E-08	2.003E-07	200
118.0	10.0	0	0.	0.	200
118.0	13.0	0	0.	0.	200
118.0	16.0	0	0.	0.	200
118.0	19.0	1	1.757E-08	4.568E-08	200
118.0	22.0	4	4.736E-08	1.230E-07	200
118.0	25.0	27	2.716E-07	7.062E-07	200
118.0	28.0	57	5.743E-07	1.493E-06	200
118.0	31.0	38	3.851E-07	1.001E-06	200
118.0	32.8	61	6.149E-07	1.599E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
O 126.0	.4	80	8.041E-07	2.091E-06	200
H 126.0	.8	65	6.554E-07	1.704E-06	200
4 126.0	1.5	78	7.365E-07	1.915E-06	200
126.0	2.5	57	5.743E-07	1.493E-06	200
126.0	4.0	184	1.845E-06	4.796E-06	200
126.0	5.5	358	3.588E-06	9.328E-06	200
126.0	7.0	453	4.534E-06	1.179E-05	200
126.0	8.5	642	6.426E-06	1.671E-05	200
126.0	10.0	723	7.236E-06	1.881E-05	200
126.0	13.0	1493	1.493E-05	3.884E-05	200
126.0	16.0	2142	2.143E-05	5.571E-05	200
126.0	19.0	2912	2.913E-05	7.573E-05	200
126.0	22.0	3602	3.602E-05	9.365E-05	200
126.0	25.0	3315	3.318E-05	8.627E-05	200
126.0	28.0	2750	2.751E-05	7.152E-05	200
126.0	31.0	1574	1.575E-05	4.095E-05	200
S 126.0	32.8	696	6.966E-06	1.811E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
S 134.0	.4	253	2.534E-06	6.588E-06	200
S 134.0	.8	426	4.264E-06	1.109E-05	200
134.0	1.5	1291	1.291E-05	3.357E-05	200
134.0	2.5	669	6.696E-06	1.741E-05	200
134.0	4.0	1930	1.938E-05	5.149E-05	200
134.0	5.5	2588	2.589E-05	6.730E-05	200
134.0	7.0	4858	4.859E-05	1.263E-04	200
134.0	8.5	6480	6.480E-05	1.685E-04	200
134.0	10.0	8480	8.480E-05	1.685E-04	200
134.0	13.0	3642	3.642E-05	2.247E-04	200
134.0	16.0	17020	1.702E-04	3.125E-04	200
134.0	19.0	14318	1.432E-04	3.723E-04	200
134.0	22.0	19933	1.999E-04	5.198E-04	200
134.0	25.0	26480	2.648E-04	6.885E-04	200
134.0	28.0	15669	1.567E-04	4.074E-04	200
134.0	31.0	15399	1.540E-04	4.004E-04	200
134.0	32.8	14318	1.432E-04	3.723E-04	200

TOWER DATA FOLLOW....

TEST V4 DECEMBER 12, 1972 1049 TO 1120 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
BOOM ARC U = 2.6 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
N 105.0	.3	0	0.	0.	820

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
112.6	.3	0	0.	0.	833

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
120.2	.3	218	1.454E-07	3.782E-07	845
120.2	.5	133	8.896E-08	2.313E-07	845
120.2	1.1	139	9.290E-08	2.415E-07	845
120.2	1.5	174	1.163E-07	3.024E-07	845
120.2	2.1	213	1.471E-07	3.694E-07	845
120.2	4.2	229	1.530E-07	3.978E-07	845
120.2	6.3	277	1.850E-07	4.811E-07	845
120.2	8.4	158	1.055E-07	2.743E-07	845
120.2	10.5	181	1.212E-07	3.151E-07	845
120.2	12.6	70	4.713E-08	1.225E-07	845
120.2	14.7	129	8.604E-08	2.237E-07	845
120.2	16.8	106	7.111E-08	1.849E-07	845
120.2	21.0	105	7.049E-08	1.830E-07	845
120.2	25.2	86	5.746E-08	1.494E-07	845
120.2	29.4	32	2.155E-08	5.602E-08	845
120.2	33.6	44	2.970E-08	7.721E-08	845
120.2	37.8	16	1.105E-08	2.873E-08	845
120.2	42.0	4	2.762E-09	7.182E-09	845

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
127.7	.3	16704	1.114E-05	2.895E-05	857
127.7	.5	13536	9.024E-06	2.346E-05	857
127.7	1.1	18785	1.252E-05	3.256E-05	857
127.7	1.5	18048	1.203E-05	3.128E-05	857
127.7	2.1	15392	1.026E-05	2.668E-05	857
127.7	4.2	15718	1.048E-05	2.725E-05	857
127.7	6.3	17496	1.166E-05	3.033E-05	857
127.7	8.4	14645	9.744E-06	2.539E-05	857
127.7	10.5	17116	1.141E-05	2.967E-05	857
127.7	12.6	16627	1.108E-05	2.882E-05	857
127.7	14.7	15339	1.023E-05	2.659E-05	857
127.7	16.8	16818	1.121E-05	2.915E-05	857
127.7	21.0	11157	7.438E-06	1.934E-05	857
127.7	25.2	14307	9.536E-06	2.460E-05	857
127.7	29.4	12839	8.560E-06	2.226E-05	857
127.7	33.6	9727	6.485E-06	1.688E-05	857
127.7	37.8	9714	6.477E-06	1.684E-05	857
127.7	42.0	7304	4.870E-06	1.266E-05	857

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
135.0	.3	4359	2.906E-06	7.556E-06	867
135.0	.5	629	4.195E-07	1.091E-06	867
135.0	1.1	4322	2.882E-06	7.492E-06	867
135.0	1.5	4309	2.873E-06	7.470E-06	867
135.0	2.1	5126	3.418E-06	8.888E-06	867
135.0	4.2	6033	4.022E-06	1.046E-05	867
135.0	6.3	7073	4.715E-06	1.226E-05	867
135.0	8.4	7194	4.799E-06	1.248E-05	867
135.0	10.5	6979	4.653E-06	1.210E-05	867
135.0	12.6	9686	6.457E-06	1.679E-05	867
135.0	14.7	8535	5.691E-06	1.480E-05	867
135.0	16.8	9160	6.107E-06	1.588E-05	867
135.0	21.0	10270	6.847E-06	1.780E-05	867
Z 135.0	25.2	8599	5.733E-06	1.491E-05	867
Z 135.0	29.4	7636	5.091E-06	1.324E-05	867
E 135.0	33.6	8285	5.524E-06	1.436E-05	867
135.0	37.8	9177	6.118E-06	1.591E-05	867
135.0	42.0	7797	5.198E-06	1.352E-05	867

TOWER DATA FOLLOW....

TEST V4 DECEMBER 12, 1972 1049 TO 1118 PST  
RHODAMINE B RELEASE FROM ELEVATION OF 26M  
BOOM ARC U = 2.6 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
N 105.0	.3	0	0.	0.	820

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
N 112.6	.3	0	0.	0.	833

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
120.2	.3	0	2.614E-09	6.797E-09	845
120.2	.5	0	5.279E-09	1.359E-08	845
120.2	1.1	0	0.	0.	845
120.2	1.5	1	3.660E-08	9.516E-08	845
120.2	2.1	0	0.	0.	845
120.2	4.2	0	6.536E-09	1.699E-08	845
120.2	6.3	0	0.	0.	845
120.2	8.4	0	0.	0.	845
120.2	10.5	3	3.399E-08	8.837E-08	845
120.2	12.6	0	0.	0.	845
120.2	14.7	0	0.	0.	845
120.2	16.8	1	1.046E-08	2.719E-08	845
120.2	21.0	0	0.	0.	845
120.2	25.2	0	0.	0.	845
120.2	29.4	0	0.	0.	845
120.2	33.6	0	0.	0.	845
120.2	37.8	0	0.	0.	845
120.2	42.0	0	3.922E-09	1.020E-08	845

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
127.7	.3	1029	1.030E-05	2.677E-05	857
127.7	1.5	1487	1.487E-05	3.867E-05	857
127.7	.5	1199	1.206E-05	3.119E-05	857
127.7	1.1	1565	1.566E-05	4.071E-05	857
127.7	2.1	1369	1.370E-05	3.561E-05	857
127.7	4.2	1252	1.252E-05	3.255E-05	857
127.7	6.3	1291	1.291E-05	3.357E-05	857
127.7	8.4	1016	1.017E-05	2.644E-05	857
127.7	10.5	1147	1.147E-05	2.983E-05	857
127.7	12.6	1082	1.082E-05	2.813E-05	857
127.7	14.7	1082	1.082E-05	2.813E-05	857
127.7	16.8	964	9.644E-06	2.508E-05	857
127.7	21.0	624	6.246E-06	1.624E-05	857
127.7	25.2	742	7.422E-06	1.930E-05	857
127.7	29.4	585	5.854E-06	1.522E-05	857
127.7	33.6	369	3.697E-06	9.612E-06	857
127.7	37.8	350	3.501E-06	9.102E-06	857
127.7	42.0	204	2.050E-06	5.329E-06	857

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
135.0	.3	248	2.481E-06	6.451E-06	867
135.0	.5	70	7.033E-07	1.828E-06	867
135.0	1.1	318	3.187E-06	8.288E-06	867
135.0	1.5	467	4.677E-06	1.216E-05	867
135.0	2.1	377	3.775E-06	9.815E-06	867
135.0	4.2	428	4.285E-06	1.114E-05	867
135.0	6.3	402	4.024E-06	1.046E-05	867
135.0	8.4	506	5.064E-06	1.318E-05	867
135.0	10.5	611	6.115E-06	1.590E-05	867
135.0	12.6	872	8.729E-06	2.270E-05	867
135.0	14.7	689	6.899E-06	1.794E-05	867
135.0	16.8	716	7.161E-06	1.862E-05	867
135.0	21.0	689	6.899E-06	1.794E-05	867
Z 135.0	25.2	559	5.592E-06	1.454E-05	867
Z 135.0	29.4	846	8.468E-06	2.202E-05	867
F 135.0	33.6	342	3.422E-06	8.898E-06	867
135.0	37.8	67	6.771E-07	1.761E-06	867
135.0	42.0	63	6.379E-07	1.659E-06	867



TOWER DATA FOLLOW....

TEST V4 DECEMBER 12, 1972 1049 TO 1120 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
1600M ARC U= 2.6 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/D SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
N 101.6	.2	0	0.	0.	1617

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/D SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
N 109.5	.2	0	0.	0.	1630

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/D SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
117.3	.2	526	3.511E-07	9.129E-07	1643
117.3	.4	616	4.111E-07	1.069E-06	1643
117.3	.8	493	3.267E-07	8.547E-07	1643
117.3	1.6	650	4.338E-07	1.128E-06	1643
117.3	3.1	507	3.386E-07	8.803E-07	1643
5 117.3	6.2	487	3.251E-07	8.453E-07	1643
117.3	9.3	542	3.617E-07	9.404E-07	1643
117.3	12.4	443	2.955E-07	7.683E-07	1643
Z 117.3	15.5	266	1.776E-07	4.618E-07	1643
117.3	18.6	332	2.214E-07	5.756E-07	1643
117.3	21.7	241	1.611E-07	4.190E-07	1643
T 117.3	24.8	111	7.414E-08	1.928E-07	1643
M 117.3	31.0	88	5.921E-08	1.535E-07	1643
T 117.3	37.2	101	6.798E-08	1.767E-07	1643
Z 117.3	43.4	231	1.545E-07	4.016E-07	1643
117.3	49.6	131	8.781E-08	2.283E-07	1643
117.3	55.8	135	9.035E-08	2.349E-07	1643
L 117.3	62.0	0	0.	0.	1643

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/D SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
125.0	.2	1849	1.233E-06	3.205E-06	1655
125.0	.4	1867	1.245E-06	3.237E-06	1655
125.0	.8	2138	1.426E-06	3.706E-06	1655
125.0	1.6	5117	3.412E-06	8.871E-06	1655
125.0	3.1	4438	2.959E-06	7.693E-06	1655
125.0	6.2	5428	3.619E-06	9.409E-06	1655
Z 125.0	9.3	3688	2.456E-06	6.393E-06	1655
Z 125.0	12.4	3309	2.206E-06	5.736E-06	1655
125.0	15.5	3890	2.594E-06	6.744E-06	1655
125.0	18.6	4980	3.320E-06	8.633E-06	1655
Z 125.0	21.7	3176	2.114E-06	5.506E-06	1655
Z 125.0	24.8	2387	1.591E-06	4.138E-06	1655
Z 125.0	31.0	1324	8.870E-07	2.296E-06	1655
Z 125.0	37.2	3230	2.154E-06	5.599E-06	1655
T 125.0	43.4	817	5.447E-07	1.416E-06	1655
125.0	49.6	2427	1.618E-06	4.207E-06	1655
125.0	55.8	2668	1.779E-06	4.625E-06	1655
Z 125.0	62.0	1521	1.014E-06	2.638E-06	1655

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/D SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
132.5	.2	3816	2.544E-06	6.615E-06	1665
132.5	.4	3622	2.415E-06	6.279E-06	1665
132.5	.8	4788	3.192E-06	8.300E-06	1665
132.5	1.6	4561	3.041E-06	7.907E-06	1665
132.5	3.1	3877	2.585E-06	6.720E-06	1665
132.5	6.2	3770	2.514E-06	6.535E-06	1665
132.5	9.3	2670	1.781E-06	4.629E-06	1665
132.5	12.4	4077	2.718E-06	7.067E-06	1665
132.5	15.5	2984	1.989E-06	5.172E-06	1665
Z 132.5	18.6	2543	1.696E-06	4.409E-06	1665
132.5	21.7	3280	2.187E-06	5.686E-06	1665
132.5	24.8	3706	2.471E-06	6.424E-06	1665
Z 132.5	31.0	1463	9.756E-07	2.537E-06	1665
132.5	37.2	2418	1.612E-06	4.191E-06	1665
132.5	43.4	2297	1.532E-06	3.982E-06	1665
132.5	49.6	1826	1.218E-06	3.166E-06	1665
132.5	55.8	995	6.636E-07	1.725E-06	1665
132.5	62.0	1310	8.739E-07	2.272E-06	1665

TOWER DATA FOLLOW....

TEST V4 DECEMBER 12, 1972 1049 TO 1118 PST  
RHODAMINE B RELEASE FROM ELEVATION OF 26M  
1600M ARC U= 2.6 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/D SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
N 101.6	.2	0	0.	0.	1617

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/D SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
N 109.5	.2	0	0.	0.	1630

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/D SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
117.3	.2	1	1.207E-08	3.138E-08	1643
117.3	.4	1	1.243E-08	3.362E-08	1643
117.3	.8	0	0.671E-10	2.241E-09	1643
117.3	1.5	5	5.431E-08	1.412E-07	1643
117.3	1.6	1	1.810E-08	4.707E-08	1643
117.3	3.1	0	9.483E-09	2.466E-08	1643
5 117.3	6.2	0	0.	0.	1643
117.3	9.3	1	1.034E-08	2.690E-08	1643
117.3	12.4	1	1.293E-08	3.362E-08	1643
Z 117.3	15.5	0	0.	0.	1643
117.3	18.6	0	0.	0.	1643
117.3	21.7	0	0.	0.	1643
T 117.3	24.8	0	0.	0.	1643
T 117.3	31.0	0	0.	0.	1643
T 117.3	37.2	0	0.	0.	1643
Z 117.3	43.4	0	0.	0.	1643
117.3	49.6	0	0.	0.	1643
117.3	55.8	0	0.	0.	1643
L 117.3	62.0	0	0.	0.	1643

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/D SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
125.0	.2	140	1.903E-06	4.949E-06	1655
125.0	.4	195	1.955E-06	5.083E-06	1655
125.0	.8	192	1.929E-06	5.018E-06	1655
125.0	1.5	185	1.852E-06	4.814E-06	1655
125.0	1.6	479	4.791E-06	1.246E-05	1655
125.0	3.1	461	4.619E-06	1.201E-05	1655
125.0	6.2	427	4.274E-06	1.111E-05	1655
Z 125.0	9.3	289	2.895E-06	7.527E-06	1655
Z 125.0	12.4	255	2.550E-06	6.630E-06	1655
125.0	15.5	384	3.843E-06	9.992E-06	1655
Z 125.0	18.6	358	3.584E-06	9.320E-06	1655
Z 125.0	21.7	272	2.722E-06	7.078E-06	1655
Z 125.0	24.8	179	1.800E-06	4.660E-06	1655
Z 125.0	31.0	48	4.810E-07	1.251E-06	1655
125.0	37.2	298	2.981E-06	7.751E-06	1655
T 125.0	43.4	35	3.517E-07	9.145E-07	1655
125.0	49.6	187	1.875E-06	4.962E-06	1655
125.0	55.8	177	1.722E-06	4.478E-06	1655
Z 125.0	62.0	124	1.231E-06	3.201E-06	1655

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	F/D SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
132.5	.2	242	2.421E-06	6.294E-06	1665
132.5	.4	255	2.550E-06	6.630E-06	1665
132.5	.8	236	2.369E-06	6.159E-06	1665
132.5	1.5	323	3.246E-06	8.423E-06	1665
132.5	1.6	289	2.895E-06	7.527E-06	1665
132.5	3.1	263	2.636E-06	6.854E-06	1665
132.5	6.2	255	2.550E-06	6.630E-06	1665
132.5	9.3	190	1.903E-06	4.949E-06	1665
132.5	12.4	195	1.955E-06	5.083E-06	1665
132.5	15.5	192	1.929E-06	5.018E-06	1665
Z 132.5	18.6	164	1.645E-06	4.277E-06	1665
132.5	21.7	234	2.343E-06	6.092E-06	1665
132.5	24.8	234	2.343E-06	6.092E-06	1665
Z 132.5	31.0	81	8.172E-07	2.125E-06	1665
132.5	37.2	164	1.645E-06	4.277E-06	1665
132.5	43.4	174	1.744E-06	4.546E-06	1665
132.5	49.6	141	1.412E-06	3.671E-06	1665
132.5	55.8	79	7.914E-07	2.058E-06	1665
132.5	62.0	107	1.076E-06	2.797E-06	1665

TOWER DATA FOLLOW....

TEST V4 DECEMBER 12, 1972 1049 TO 1120 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
3200M ARC U= 2.6 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS	
	123.4	.2	770	5.136E-07	1.335E-06	3253
	123.4	.4	986	6.579E-07	1.711E-06	3253
S	123.4	.8	831	5.544E-07	1.441E-06	3253
	123.4	1.5	30	2.066E-08	5.371E-08	3253
	123.4	1.6	995	6.635E-07	1.725E-06	3253
	123.4	3.1	16	1.122E-08	2.917E-08	3253
	123.4	6.2	1229	8.196E-07	2.131E-06	3253
Z	123.4	9.3	902	6.018E-07	1.565E-06	3253
	123.4	12.4	1059	7.064E-07	1.837E-06	3253
Z	123.4	15.5	1009	6.732E-07	1.750E-06	3253
Z	123.4	18.6	1118	7.457E-07	1.939E-06	3253
M	123.4	21.7	558	3.726E-07	9.687E-07	3253
S	123.4	24.8	1263	8.426E-07	2.191E-06	3253
S	123.4	31.0	889	5.932E-07	1.542E-06	3253
	123.4	37.2	1202	8.018E-07	2.085E-06	3253
Z	123.4	43.4	32	2.168E-08	5.636E-08	3253
L	123.4	49.6	0	0.	0.	3253
Z	123.4	55.8	51	3.417E-08	8.885E-08	3253
Z	123.4	62.0	42	3.239E-08	8.421E-08	3253

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS	
E	131.2	.2	0	0.	3264	
	131.2	.4	24	1.901E-08	4.943E-08	3264
	131.2	.8	37	2.525E-08	6.564E-08	3264
	131.2	1.6	1400	9.333E-07	2.427E-06	3264
	131.2	3.1	1759	1.173E-06	3.051E-06	3264
	131.2	6.2	1729	1.153E-06	2.998E-06	3264
	131.2	9.3	1638	1.092E-06	2.840E-06	3264
L	131.2	12.4	0	0.	3264	
	131.2	15.5	1892	1.262E-06	3.281E-06	3264
Z	131.2	18.6	1470	9.803E-07	2.549E-06	3264
Z	131.2	21.7	35	2.346E-08	6.100E-08	3264
Z	131.2	24.8	58	3.902E-08	1.014E-07	3264
Z	131.2	31.0	58	3.876E-08	1.008E-07	3264
Z	131.2	37.2	79	5.330E-08	1.386E-07	3264
Z	131.2	43.4	171	1.145E-07	2.977E-07	3264
Z	131.2	49.6	54	3.621E-08	9.415E-08	3264
Z	131.2	55.8	21	1.403E-08	3.647E-08	3264
Z	131.2	62.0	77	5.151E-08	1.339E-07	3264

TOWER DATA FOLLOW....

TEST V4 DECEMBER 12, 1972 1049 TO 1118 PST  
METHAMINE B RELEASE FROM ELEVATION OF 26M  
3200M ARC U= 2.6 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS	
	123.4	.2	100	1.001E-06	2.603E-06	3253
	123.4	.4	94	9.427E-07	2.451E-06	3253
S	123.4	.8	76	7.673E-07	1.995E-06	3253
	123.4	1.6	104	1.048E-06	2.725E-06	3253
	123.4	3.1	0	0.	0.	3253
	123.4	6.2	97	9.778E-07	2.542E-06	3253
Z	123.4	9.3	60	6.035E-07	1.569E-06	3253
	123.4	12.4	86	8.608E-07	2.238E-06	3253
Z	123.4	15.5	75	7.556E-07	1.964E-06	3253
Z	123.4	18.6	100	1.001E-06	2.603E-06	3253
L	123.4	21.7	0	0.	0.	3253
	123.4	24.8	84	8.491E-07	2.208E-06	3253
S	123.4	31.0	61	6.152E-07	1.600E-06	3253
	123.4	37.2	83	8.374E-07	2.177E-06	3253
I	123.4	43.4	0	0.	0.	3253
I	123.4	49.6	0	0.	0.	3253
I	123.4	55.8	0	0.	0.	3253
I	123.4	62.0	0	0.	0.	3253

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS	
	131.2	.2	0	0.	3264	
4	131.2	.4	15	1.591E-07	4.136E-07	3264
S	131.2	.8	8	8.070E-08	2.098E-07	3264
	131.2	1.6	130	1.309E-06	3.404E-06	3264
	131.2	3.1	127	1.270E-06	3.302E-06	3264
	131.2	6.2	119	1.192E-06	3.100E-06	3264
	131.2	9.3	142	1.426E-06	3.708E-06	3264
L	131.2	12.4	0	0.	3264	
	131.2	15.5	123	1.231E-06	3.201E-06	3264
Z	131.2	18.6	130	1.309E-06	3.404E-06	3264
I	131.2	21.7	0	0.	3264	
I	131.2	24.8	0	0.	3264	
L	131.2	31.0	0	0.	3264	
I	131.2	37.2	2	2.690E-08	6.984E-08	3264
I	131.2	43.4	0	9.357E-09	2.433E-08	3264
J	131.2	49.6	0	0.	3264	
I	131.2	55.8	0	0.	3264	
I	131.2	62.0	0	3.119E-09	8.109E-09	3264

GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. ALL AKCS EMBRACE CROSSWIND EXTENT OF DISTRIBUTION.  
 14 TOWERS "HIT" BY TRACER; ALTHOUGH DISTRIBUTIONS TRUNCATED AT TOPS OF TOWERS. EXTRAPOLATION WOULD BE  
 REASONABLE. VERTICAL CROSS SECTIONS THROUGH TOWER AKCS SHOWS SIGNIFICANT DIRECTION SHEAR OF TRACERS WITH HT.

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 200M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
84.0	0	0.	0.	200
86.0	129	6.959E-06	2.992E-07	200
88.0	290	1.515E-07	6.513E-07	200
90.0	615	3.316E-07	1.426E-06	200
92.0	1270	6.850E-07	2.946E-06	200
94.0	1545	8.331E-07	3.592E-06	200
96.0	2648	1.426E-06	6.140E-06	200
98.0	1187	6.400E-07	2.752E-06	200
100.0	2489	1.342E-06	5.771E-06	200
102.0	1968	1.061E-06	4.562E-06	200
104.0	3758	2.026E-06	8.713E-06	200
106.0	3542	1.910E-06	8.212E-06	200
108.0	1946	1.049E-06	4.512E-06	200
110.0	2128	1.148E-06	4.935E-06	200
112.0	1247	6.727E-07	2.893E-06	200
114.0	636	3.432E-07	1.476E-06	200
E 116.0	122	6.618E-08	2.846E-07	200
118.0	43	2.320E-08	9.975E-08	200
120.0	127	6.891E-08	2.963E-07	200
122.0	129	6.959E-08	2.992E-07	200
124.0	11	6.141E-09	2.640E-08	200
H 126.0	0	0.	0.	200

CROSSWIND INTEGRATED= 9.721E-05 SEC/SQ.M 4.180E-04 1/M

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 400M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
L 79.0	0	0.	0.	400
82.0	22	1.227E-08	5.276E-08	400
86.0	499	2.695E-07	1.159E-06	400
90.0	1610	6.880E-07	3.732E-06	400
94.0	1322	7.131E-07	3.066E-06	400
S 98.0	8747	4.716E-06	2.028E-05	400
102.0	4203	2.266E-06	9.745E-06	400
106.0	3406	1.836E-06	7.895E-06	400
110.0	4964	2.676E-06	1.151E-05	400
114.0	826	4.456E-07	1.916E-06	400
118.0	33	1.796E-08	7.725E-08	400
122.0	5	3.067E-09	1.319E-08	400
126.0	7	4.163E-09	1.790E-08	400
130.0	0	0.	0.	400

CROSSWIND INTEGRATED= 3.861E-04 SEC/SQ.M 1.660E-03 1/M

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST  
 RHODAMINE B RELEASE FROM ELEVATION OF 26M  
 200M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
82.0	0	0.	0.	200
84.0	4	8.449E-08	3.633E-07	200
86.0	0	0.	0.	200
88.0	0	0.	0.	200
90.0	5	9.656E-08	4.152E-07	200
92.0	19	3.380E-07	1.495E-06	200
94.0	35	6.096E-07	2.621E-06	200
96.0	40	6.820E-07	2.933E-06	200
E 98.0	56	9.536E-07	4.100E-06	200
100.0	74	1.261E-06	5.424E-06	200
102.0	47	8.087E-07	3.478E-06	200
104.0	28	4.828E-07	2.076E-06	200
106.0	41	7.001E-07	3.010E-06	200
108.0	24	4.104E-07	1.765E-06	200
110.0	21	3.561E-07	1.531E-06	200
112.0	19	3.259E-07	1.401E-06	200
114.0	2	4.225E-08	1.817E-07	200
9 116.0	28	4.828E-07	2.076E-06	200
118.0	0	0.	0.	200
120.0	0	0.	0.	200
122.0	1	2.414E-08	1.038E-07	200

CROSSWIND INTEGRATED= 5.347E-05 SEC/SQ.M 2.299E-04 1/M

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST  
 RHODAMINE B RELEASE FROM ELEVATION OF 26M  
 400M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM.M X10E+6	E/Q SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
L 79.0	0	0.	0.	400
82.0	5	9.866E-08	4.242E-07	400
86.0	42	7.241E-07	3.114E-06	400
90.0	119	2.029E-06	8.720E-06	400
94.0	188	3.191E-06	1.372E-05	400
S 98.0	231	3.931E-06	1.690E-05	400
102.0	200	3.402E-06	1.463E-05	400
106.0	166	2.821E-06	1.213E-05	400
110.0	67	1.147E-06	4.932E-06	400
114.0	13	2.361E-07	1.015E-06	400
118.0	3	5.814E-08	2.500E-07	400
122.0	0	0.	0.	400

CROSSWIND INTEGRATED= 4.925E-04 SEC/SQ.M 2.118E-03 1/M

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
800M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
77.0	0	0.	0.	771
79.0	0	0.	0.	774
81.1	42	2.310E-08	9.933E-08	778
83.1	274	1.478E-07	6.357E-07	781
85.2	782	4.217E-07	1.813E-06	785
87.2	1710	9.220E-07	3.965E-06	788
89.2	3167	1.707E-06	7.342E-06	792
91.2	5477	2.953E-06	1.270E-05	795
93.2	6029	3.250E-06	4.398E-05	799
95.1	4780	2.577E-06	1.108E-05	802
97.1	4776	5.271E-06	2.266E-05	806
99.1	12328	6.646E-06	2.858E-05	809
101.1	13908	7.498E-06	3.224E-05	813
103.0	17601	9.489E-06	4.080E-05	816
E 105.0	15911	8.578E-06	3.686E-05	820
106.9	14911	8.039E-06	3.457E-05	823
108.8	11156	6.014E-06	2.586E-05	826
110.7	3038	1.638E-06	7.044E-06	829
112.6	1638	8.831E-07	3.797E-06	833
114.5	837	4.514E-07	1.941E-06	836
116.4	100	5.417E-08	2.327E-07	839
118.3	1	6.600E-10	2.858E-09	842

CROSSWIND INTEGRATED= 1.844E-03 SEC/SQ.M 7.920E-03 1/M

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
1200M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
76.0	0	0.	0.	1200
78.0	1	6.110E-10	2.627E-09	1200
80.0	1	7.332E-10	3.153E-09	1200
82.0	75	4.069E-08	1.750E-07	1200
84.0	179	9.653E-08	4.151E-07	1200
86.0	252	1.362E-07	5.859E-07	1200
88.0	1057	5.703E-07	2.452E-06	1200
90.0	2376	1.261E-06	5.509E-06	1200
92.0	3777	2.037E-06	8.757E-06	1200
94.0	4963	2.676E-06	1.151E-05	1200
96.0	6711	3.618E-06	1.556E-05	1200
98.0	8916	4.857E-06	2.067E-05	1200
100.0	9712	5.236E-06	2.251E-05	1200
102.0	12563	6.773E-06	2.912E-05	1200
7 104.0	6910	3.735E-06	1.602E-05	1200
7 106.0	3887	2.096E-06	9.011E-06	1200
108.0	4906	2.645E-06	1.137E-05	1200
110.0	4461	2.405E-06	1.034E-05	1200
5 112.0	2226	1.200E-06	5.162E-06	1200
5 114.0	670	3.613E-07	1.554E-06	1200
5 116.0	93	5.047E-08	2.170E-07	1200
118.0	21	1.185E-08	5.097E-08	1200
5 120.0	5	2.933E-09	1.261E-08	1200
122.0	0	3.666E-10	1.576E-09	1200
C 124.0	0	0.	0.	1200

CROSSWIND INTEGRATED= 1.666E-03 SEC/SQ.M 7.163E-03 1/M

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
1600M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
80.5	0	0.	0.	1580
81.5	2	1.368E-09	5.882E-09	1582
82.6	16	9.119E-09	3.921E-08	1584

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST  
MINDAMINE B RELEASE FROM ELEVATION OF 26M  
800M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
81.1	3	5.254E-08	2.259E-07	778
83.1	16	2.744E-07	1.180E-06	781
85.2	40	6.947E-07	2.987E-06	785
87.2	80	1.360E-06	5.849E-06	788
89.2	138	2.341E-06	1.007E-05	792
91.2	186	3.158E-06	1.358E-05	795
93.2	231	3.917E-06	1.684E-05	799
95.1	310	5.260E-06	2.262E-05	802
97.1	265	4.501E-06	1.935E-05	806
99.1	300	5.085E-06	2.187E-05	809
101.1	355	6.019E-06	2.588E-05	813
103.0	365	6.194E-06	2.663E-05	816
105.0	355	6.019E-06	2.588E-05	820
106.9	344	5.844E-06	2.513E-05	823
108.8	227	3.859E-06	1.659E-05	826
110.7	86	1.465E-06	6.301E-06	829
112.6	39	6.772E-07	2.912E-06	833
114.5	12	2.160E-07	9.288E-07	836
116.4	1	2.919E-08	1.255E-07	839

CROSSWIND INTEGRATED= 1.576E-03 SEC/SQ.M 6.778E-03 1/M

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST  
MINDAMINE B RELEASE FROM ELEVATION OF 26M  
1200M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
82.0	3	5.503E-08	2.366E-07	1200
84.0	11	1.936E-07	8.324E-07	1200
86.0	13	2.260E-07	9.718E-07	1200
88.0	46	7.871E-07	3.365E-06	1200
90.0	87	1.435E-06	6.385E-06	1200
92.0	113	1.927E-06	8.266E-06	1200
94.0	138	2.340E-06	1.006E-05	1200
96.0	158	2.693E-06	1.158E-05	1200
98.0	190	3.724E-06	1.336E-05	1200
100.0	230	3.912E-06	1.682E-05	1200
102.0	236	4.010E-06	1.724E-05	1200
104.0	172	2.929E-06	1.260E-05	1200
E 106.0	132	2.241E-06	9.638E-06	1200
7 108.0	106	1.809E-06	7.779E-06	1200
110.0	58	9.836E-07	4.230E-06	1200
5 112.0	36	6.200E-07	2.666E-06	1200
114.0	11	1.936E-07	8.324E-07	1200
5 116.0	6	1.169E-07	5.028E-07	1200
118.0	1	2.064E-08	8.873E-08	1200

CROSSWIND INTEGRATED= 1.247E-03 SEC/SQ.M 5.362E-03 1/M

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST  
MINDAMINE B RELEASE FROM ELEVATION OF 26M  
1600M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
82.6	0	0.	0.	1584

83.6	57	3.101E-08	1.333E-07	1565
84.6	60	3.243E-08	1.412E-07	1587
85.6	90	4.679E-08	2.098E-07	1589
86.6	141	7.615E-08	3.274E-07	1550
87.6	104	5.654E-08	2.431E-07	1592
88.6	405	2.184E-07	9.392E-07	1594
89.6	436	2.353E-07	1.012E-06	1596
90.6	768	4.140E-07	1.780E-06	1597
91.6	1317	7.104E-07	3.055E-06	1599
92.6	2162	1.166E-06	5.013E-06	1601
E 93.6	2619	1.417E-06	6.072E-06	1603
E 94.6	3042	1.640E-06	7.053E-06	1604
E 95.6	3380	1.823E-06	7.837E-06	1606
F 96.6	3634	1.959E-06	8.425E-06	1608
97.6	3972	2.141E-06	9.207E-06	1610
98.6	4276	2.305E-06	9.913E-06	1611
99.6	7624	4.110E-06	1.767E-05	1613
100.6	5797	3.125E-06	1.344E-05	1615
101.6	7942	4.282E-06	1.841E-05	1617
102.6	6556	3.534E-06	1.520E-05	1618
103.6	2718	1.465E-06	6.302E-06	1620
104.5	6627	3.571E-06	1.536E-05	1622
105.5	2925	1.577E-06	6.782E-06	1623
106.5	1621	8.741E-07	3.759E-06	1625
107.5	4267	2.300E-06	9.892E-06	1627
108.5	5031	2.719E-06	1.166E-05	1628
109.5	4280	2.308E-06	9.923E-06	1630
110.4	2833	1.528E-06	6.568E-06	1632
111.4	2676	1.443E-06	6.204E-06	1633
112.4	2462	1.327E-06	5.708E-06	1635
113.4	1679	9.056E-07	3.894E-06	1637
114.4	636	3.429E-07	1.474E-06	1638
115.3	283	1.528E-07	6.568E-07	1640
116.3	42	2.200E-08	9.803E-08	1641
117.3	38	2.052E-08	8.823E-08	1643
118.2	3	1.824E-09	7.843E-09	1644
119.2	1	9.119E-10	3.921E-09	1646
120.2	0	0.	0.	1647

CROSSWIND INTEGRATED= 1.395E-03 6.000E-03  
SEC/SQ.M 1/M

TEST V5 SEPTEMBER 5, 1973 0501 TU 0531 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
3200M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

AZIMUTH	EXPOSURE	E/Q	EU/Q	DISTANCE
DEGREES	GM-SEC/CU.M	SFC/CU.M	1/SQ.M	METERS
	X10E+6			
91.8	4	2.382E-09	1.024E-08	3201
92.8	23	1.256E-08	5.400E-08	3203
93.8	38	2.057E-08	8.845E-08	3205
94.8	92	5.072E-08	2.151E-07	3206
95.8	120	6.496E-08	2.793E-07	3208
96.8	183	9.917E-08	4.264E-07	3210
97.8	234	1.267E-07	5.426E-07	3212
98.8	418	2.254E-07	9.692E-07	3213
Q 99.8	545	2.940E-07	1.254E-06	3215
Q 100.8	777	4.190E-07	1.802E-06	3217
Q 101.8	1371	7.392E-07	3.179E-06	3218
102.8	1404	7.574E-07	3.257E-06	3220
103.8	2242	1.209E-06	5.198E-06	3222
104.8	3044	1.641E-06	7.058E-06	3224
Q 105.8	3865	2.064E-06	8.961E-06	3225
Q 106.8	3265	1.781E-06	7.570E-06	3227
Q 107.8	1709	9.213E-07	3.962E-06	3229
108.8	6345	3.421E-06	1.471E-05	3230
109.7	6177	3.333E-06	1.432E-05	3232
110.7	3795	2.046E-06	8.797E-06	3233
111.7	5669	3.056E-06	1.314E-05	3235
112.7	5525	2.978E-06	1.281E-05	3237
113.7	3837	2.009E-06	8.890E-06	3238
114.6	4600	2.430E-06	1.066E-05	3240
115.6	2572	1.307E-06	5.962E-06	3241
116.6	2664	1.436E-06	6.176E-06	3243
117.6	1189	6.411E-07	2.757E-06	3245
118.6	138	7.476E-08	3.212E-07	3246
119.5	36	1.992E-08	8.566E-08	3248
120.5	6	3.244E-09	1.397E-08	3249
121.5	10	5.630E-09	2.421E-08	3251
E 122.4	0	0.	0.	3252

CROSSWIND INTEGRATED= 1.850E-03 7.957E-03  
SEC/SQ.M 1/M

83.6	0	1.155E-08	4.967E-04	1585
84.6	2	4.620E-08	1.987E-07	1587
85.6	5	9.625E-08	4.139E-07	1589
86.6	12	2.156E-07	9.271E-07	1590
87.6	14	2.426E-07	1.043E-06	1592
88.6	24	4.235E-07	1.821E-06	1594
89.6	42	7.123E-07	3.003E-06	1596
90.6	66	1.120E-06	4.818E-06	1597
91.6	82	1.390E-06	5.976E-06	1599
92.6	109	1.852E-06	7.963E-06	1601
F 93.6	120	2.044E-06	8.791E-06	1603
F 94.6	134	2.275E-06	9.784E-06	1604
F 95.6	143	2.429E-06	1.045E-05	1606
E 96.6	152	2.583E-06	1.111E-05	1608
97.6	163	2.776E-06	1.194E-05	1610
98.6	161	2.737E-06	1.177E-05	1611
99.6	161	3.004E-06	1.326E-05	1613
100.6	200	3.392E-06	1.459E-05	1615
101.6	206	3.507E-06	1.508E-05	1617
102.6	234	3.969E-06	1.707E-05	1618
103.6	227	3.854E-06	1.657E-05	1620
104.5	200	3.392E-06	1.459E-05	1622
105.5	166	2.814E-06	1.210E-05	1623
106.5	122	2.083E-06	8.956E-06	1625
107.5	116	1.967E-06	8.400E-06	1627
108.5	131	2.237E-06	9.619E-06	1628
109.5	134	2.275E-06	9.784E-06	1630
110.4	118	2.006E-06	8.625E-06	1632
111.4	93	1.502E-06	6.804E-06	1633
112.4	66	1.120E-06	4.818E-06	1635
113.4	48	8.162E-07	3.510E-06	1637
114.4	24	4.120E-07	1.771E-06	1638
115.3	7	1.271E-07	5.463E-07	1640
116.3	1	2.695E-08	1.159E-07	1641
117.3	0	0.	0.	1643

CROSSWIND INTEGRATED= 1.665E-03 7.159E-03  
SEC/SQ.M 1/M

TEST V5 SEPTEMBER 5, 1973 0501 TU 0531 PST  
RHODAMINE B RELEASE FROM ELEVATION OF 26M  
3200M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

AZIMUTH	EXPOSURE	E/Q	EU/Q	DISTANCE
DEGREES	GM-SEC/CU.M	SFC/CU.M	1/SQ.M	METERS
	X10E+6			
92.8	0	1.741E-09	7.487E-09	3203
F 93.8	1	2.612E-08	1.123E-07	3205
F 94.8	3	5.398E-08	2.321E-07	3206
95.8	5	9.228E-08	3.966E-07	3208
96.8	8	1.445E-07	6.214E-07	3210
97.8	14	2.438E-07	1.040E-06	3212
98.8	20	3.535E-07	1.520E-06	3213
Q 99.8	42	7.156E-07	3.077E-06	3215
Q 100.8	51	8.723E-07	3.751E-06	3217
Q 101.8	50	8.549E-07	3.676E-06	3218
102.8	55	9.420E-07	4.050E-06	3220
103.8	51	8.723E-07	3.751E-06	3222
104.8	69	1.186E-06	5.099E-06	3224
Q 105.8	90	1.534E-06	6.596E-06	3225
Q 106.8	93	1.586E-06	6.821E-06	3227
Q 107.8	24	4.109E-07	1.767E-06	3229
108.8	87	1.482E-06	6.371E-06	3230
109.7	84	1.430E-06	6.147E-06	3232
110.7	84	1.430E-06	6.147E-06	3233
111.7	93	1.586E-06	6.821E-06	3235
112.7	78	1.325E-06	5.698E-06	3237
113.7	63	1.081E-06	4.649E-06	3238
114.6	49	8.375E-07	3.601E-06	3240
115.6	26	4.544E-07	1.954E-06	3241
116.6	42	7.156E-07	3.077E-06	3243
117.6	16	2.751E-07	1.183E-06	3245
118.6	4	7.159E-08	3.070E-07	3246
119.5	2	3.831E-08	1.647E-07	3248

CROSSWIND INTEGRATED= 1.148E-03 4.936E-03  
SEC/SQ.M 1/M

TOWER DATA FOLLOW...

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
200M ARC U= 4.3 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS	
5	102.0	.4	489	2.637E-07	1.134E-06	200
8	102.0	.8	1226	6.612E-07	2.843E-06	200
	102.0	1.5	1968	1.061E-06	4.562E-06	200
	102.0	2.5	4446	2.397E-06	1.031E-05	200
	102.0	4.0	7836	4.275E-06	1.817E-05	200
	102.0	5.5	11888	6.409E-06	2.756E-05	200
	102.0	7.0	20652	1.113E-05	4.787E-05	200
	102.0	8.5	23609	1.812E-05	7.791E-05	200
	102.0	10.0	54478	2.937E-05	1.263E-04	200
	102.0	13.0	67057	3.615E-05	1.554E-04	200
	102.0	16.0	65717	3.542E-05	1.523E-04	200
	102.0	19.0	124288	6.700E-05	2.881E-04	200
	102.0	22.0	97247	5.242E-05	2.254E-04	200
	102.0	25.0	93224	5.026E-05	2.161E-04	200
	102.0	28.0	46612	2.513E-05	1.061E-04	200
	102.0	31.0	44445	2.399E-05	1.031E-04	200
6	102.0	32.8	13833	7.457E-06	3.207E-05	200

TOWER DATA FOLLOW...

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST  
RHODAMINE B RELEASE FROM ELEVATION OF 26M  
200M ARC U= 4.3 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS	
5	102.0	.4	55	9.355E-07	4.023E-06	200
8	102.0	.8	71	1.207E-06	5.190E-06	200
	102.0	1.5	47	8.087E-07	3.478E-06	200
	102.0	2.5	21	3.561E-07	1.531E-06	200
	102.0	4.0	72	1.225E-06	5.268E-06	200
	102.0	5.5	132	2.239E-06	9.628E-06	200
	102.0	7.0	185	3.144E-06	1.352E-05	200
	102.0	8.5	345	5.860E-06	2.520E-05	200
	102.0	10.0	441	7.490E-06	3.221E-05	200
	102.0	13.0	805	1.365E-05	5.868E-05	200
	102.0	16.0	719	1.270E-05	5.245E-05	200
	102.0	19.0	1595	2.704E-05	1.153E-04	200
	102.0	22.0	1702	2.885E-05	1.241E-04	200
	102.0	25.0	1453	2.463E-05	1.059E-04	200
	102.0	28.0	730	1.238E-05	5.323E-05	200
	102.0	31.0	516	8.757E-06	3.766E-05	200
6	102.0	32.8	399	6.766E-06	2.909E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS	
5	110.0	.4	1161	6.261E-07	2.692E-06	200
	110.0	.8	1597	8.613E-07	3.704E-06	200
	110.0	1.5	2128	1.148E-06	4.935E-06	200
5	110.0	2.5	1186	6.396E-07	2.750E-06	200
	110.0	4.0	4328	2.333E-06	1.003E-05	200
	110.0	5.5	5869	3.164E-06	1.361E-05	200
	110.0	7.0	11052	5.958E-06	2.562E-05	200
	110.0	8.5	22737	1.226E-05	5.271E-05	200
	110.0	10.0	34852	1.879E-05	8.079E-05	200
	110.0	13.0	66067	3.562E-05	1.531E-04	200
	110.0	16.0	110887	5.978E-05	2.570E-04	200
	110.0	19.0	157124	8.470E-05	3.642E-04	200
	110.0	22.0	229131	1.235E-04	5.311E-04	200
	110.0	25.0	231105	1.246E-04	5.357E-04	200
	110.0	28.0	180628	9.737E-05	4.187E-04	200
	110.0	31.0	204245	1.101E-04	4.735E-04	200
	110.0	32.8	101262	5.459E-05	2.347E-04	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS	
5	110.0	.4	51	8.811E-07	3.789E-06	200
	110.0	.8	38	6.458E-07	2.777E-06	200
	110.0	1.5	21	3.561E-07	1.531E-06	200
5	110.0	2.5	12	2.052E-07	8.824E-07	200
	110.0	4.0	28	4.878E-07	2.076E-06	200
	110.0	5.5	35	6.096E-07	2.621E-06	200
	110.0	7.0	77	1.316E-06	5.657E-06	200
	110.0	8.5	199	3.386E-06	1.456E-05	200
	110.0	10.0	278	4.714E-06	2.027E-05	200
	110.0	13.0	708	1.202E-05	5.167E-05	200
	110.0	16.0	1488	2.523E-05	1.085E-04	200
	110.0	19.0	1595	2.704E-05	1.163E-04	200
	110.0	22.0	2770	4.696E-05	2.019E-04	200
	110.0	25.0	2877	4.877E-05	2.097E-04	200
	110.0	28.0	2841	4.817E-05	2.071E-04	200
	110.0	31.0	2806	4.756E-05	2.045E-04	200
	110.0	32.8	1951	3.308E-05	1.422E-04	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS	
	118.0	.4	108	5.861E-06	2.520E-07	200
	118.0	.8	139	7.505E-06	3.227E-07	200
	118.0	1.5	43	2.326E-06	9.975E-08	200
	118.0	2.5	81	4.373E-06	1.860E-07	200
	118.0	4.0	332	1.795E-07	7.716E-07	200
	118.0	5.5	571	3.083E-07	1.326E-06	200
	118.0	7.0	1206	6.502E-07	2.756E-06	200
	118.0	8.5	2032	1.096E-06	4.712E-06	200
	118.0	10.0	2661	1.435E-06	6.169E-06	200
	118.0	13.0	5215	2.811E-06	1.204E-05	200
	118.0	16.0	12429	6.701E-06	2.881E-05	200
	118.0	19.0	19468	1.051E-05	4.517E-05	200
	118.0	22.0	24563	1.324E-05	5.694E-05	200
	118.0	25.0	29469	1.589E-05	6.831E-05	200
	118.0	28.0	34761	1.874E-05	8.058E-05	200
	118.0	31.0	42472	2.290E-05	9.845E-05	200
	118.0	32.8	21264	1.146E-05	4.929E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS	
	118.0	.4	0	0.	0.	200
	118.0	.8	2	3.621E-08	1.557E-07	200
	118.0	1.5	0	0.	0.	200
	118.0	2.5	0	0.	0.	200
	118.0	4.0	0	0.	0.	200
	118.0	5.5	0	0.	0.	200
	118.0	7.0	1	3.018E-08	1.298E-07	200
	118.0	8.5	2	4.828E-08	2.076E-07	200
	118.0	10.0	11	1.931E-07	8.305E-07	200
	118.0	13.0	32	5.552E-07	2.388E-06	200
	118.0	16.0	73	1.243E-06	5.348E-06	200
	118.0	19.0	135	2.299E-06	9.888E-06	200
	118.0	22.0	167	2.843E-06	1.222E-05	200
	118.0	25.0	238	4.050E-06	1.741E-05	200
	118.0	28.0	345	5.860E-06	2.520E-05	200
	118.0	31.0	292	4.955E-06	2.131E-05	200
	118.0	32.8	249	4.231E-06	1.819E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS	
0	126.0	.4	2	1.430E-09	6.147E-09	200
0	126.0	.8	0	0.	0.	200
8	126.0	1.5	0	0.	0.	200
	126.0	2.5	145	7.831E-08	3.367E-07	200
	126.0	4.0	48	2.627E-08	1.130E-07	200
	126.0	5.5	56	3.065E-08	1.318E-07	200
	126.0	7.0	50	2.702E-08	1.162E-07	200
	126.0	8.5	24	1.328E-08	5.710E-08	200
	126.0	10.0	20	1.097E-08	4.717E-08	200
	126.0	13.0	23	1.265E-08	5.440E-08	200
	126.0	16.0	40	2.193E-08	9.430E-08	200
	126.0	19.0	17	9.285E-09	3.992E-08	200
	126.0	22.0	10	5.605E-09	2.410E-08	200
	126.0	25.0	12	6.970E-09	2.997E-08	200
	126.0	28.0	0	3.894E-10	1.677E-09	200
	126.0	31.0	21	1.155E-08	4.965E-08	200
	126.0	32.8	15	8.110E-09	3.487E-08	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
N 126.0	.4	0	0.	0.	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
N 134.0	.4	0	0.	0.	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
N 134.0	.4	0	0.	0.	200

TOWER DATA FOLLOW....

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
BOOM ARC U= 4.3 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
105.0	.3	4161	2.243E-06	9.646E-06	820
105.0	.5	15676	8.451E-06	3.634E-05	820
105.0	1.1	11858	6.393E-06	2.749E-05	820
E 105.0	1.5	15911	8.578E-06	3.688E-05	820
105.0	2.1	19797	1.067E-05	4.589E-05	820
105.0	4.2	25932	1.398E-05	6.011E-05	820
105.0	6.3	25307	1.364E-05	5.866E-05	820
105.0	8.4	31347	1.690E-05	7.267E-05	820
105.0	10.5	31166	1.680E-05	7.225E-05	820
105.0	12.6	42903	2.313E-05	9.945E-05	820
105.0	14.7	29562	1.594E-05	6.853E-05	820
105.0	16.8	47453	2.558E-05	1.100E-04	820
105.0	21.0	41784	2.253E-05	9.686E-05	820
105.0	25.2	31437	1.695E-05	7.287E-05	820
105.0	29.4	23052	1.243E-05	5.344E-05	820
105.0	33.6	8810	4.750E-06	2.042E-05	820
105.0	37.8	4527	2.441E-06	1.050E-05	820
105.0	42.0	2782	1.500E-06	6.450E-06	820

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
112.6	.3	1793	9.670E-07	4.158E-06	833
112.6	.5	1826	9.846E-07	4.234E-06	833
112.6	1.1	1714	9.244E-07	3.975E-06	833
112.6	1.5	1638	8.831E-07	3.797E-06	833
112.6	2.1	2735	1.475E-06	6.343E-06	833
112.6	4.2	3907	2.107E-06	9.058E-06	833
112.6	6.3	6015	3.243E-06	1.395E-05	833
112.6	8.4	12599	6.792E-06	2.921E-05	833
112.6	10.5	15881	8.562E-06	3.682E-05	833
112.6	12.6	15430	8.318E-06	3.577E-05	833
112.6	14.7	19177	1.034E-05	4.446E-05	833
112.6	16.8	26719	1.440E-05	6.194E-05	833
112.6	21.0	34717	1.872E-05	8.048E-05	833
112.6	25.2	47313	2.551E-05	1.097E-04	833
112.6	29.4	42070	2.268E-05	9.752E-05	833
112.6	33.6	39350	2.121E-05	9.122E-05	833
M 112.6	37.8	1367	7.371E-07	3.170E-06	833
112.6	42.0	2070	1.116E-06	4.800E-06	833

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
E 120.2	.3	0	0.	0.	845
E 120.2	.5	0	0.	0.	845
E 120.2	1.1	0	0.	0.	845
E 120.2	1.5	0	0.	0.	845
E 120.2	2.1	0	0.	0.	845
E 120.2	4.2	21	1.149E-08	4.943E-08	845
E 120.2	6.3	0	0.	0.	845
120.2	8.4	0	0.	0.	845
E 120.2	10.5	0	0.	0.	845
E 120.2	12.6	0	0.	0.	845
E 120.2	14.7	0	0.	0.	845
120.2	16.8	27	1.220E-08	5.244E-08	845
120.2	21.0	50	2.730E-08	1.174E-07	845
120.2	25.2	98	5.285E-08	2.273E-07	845
120.2	29.4	54	2.962E-08	1.274E-07	845
120.2	33.6	287	1.552E-07	6.676E-07	845
120.2	37.8	204	1.100E-07	4.731E-07	845
120.2	42.0	46	2.513E-08	1.081E-07	845

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
N 127.7	.3	0	0.	0.	857

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
N 135.0	.3	0	0.	0.	867

TOWER DATA FOLLOW....

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST  
RHODAMINE B RELEASE FROM ELEVATION OF 26M  
BOOM ARC U= 4.3 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
105.0	.3	71	1.220E-06	5.247E-06	820
105.0	.5	355	6.019E-06	2.588E-05	820
105.0	1.1	313	5.318E-06	2.287E-05	820
105.0	1.5	355	6.019E-06	2.588E-05	820
105.0	2.1	396	6.720E-06	2.889E-05	820
105.0	4.2	479	8.121E-06	3.492E-05	820
105.0	6.3	530	8.996E-06	3.868E-05	820
105.0	8.4	654	1.110E-05	4.772E-05	820
105.0	10.5	799	1.355E-05	5.827E-05	820
105.0	12.6	892	1.513E-05	6.504E-05	820
105.0	14.7	861	1.460E-05	6.278E-05	820
105.0	16.8	851	1.443E-05	6.203E-05	820
105.0	21.0	992	1.682E-05	7.232E-05	820
105.0	25.2	854	1.443E-05	6.228E-05	820
105.0	29.4	551	9.347E-06	4.019E-05	820
105.0	33.6	344	5.844E-06	2.513E-05	820
105.0	37.8	176	2.943E-06	1.283E-05	820
105.0	42.0	93	1.582E-06	6.803E-06	820

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
112.6	.3	28	4.846E-07	2.084E-06	833
112.6	.5	32	5.546E-07	2.385E-06	833
112.6	1.1	28	4.846E-07	2.084E-06	833
112.6	1.5	39	6.772E-07	2.912E-06	833
112.6	2.1	35	6.072E-07	2.611E-06	833
112.6	4.2	62	1.063E-06	4.569E-06	833
112.6	6.3	107	1.916E-06	7.807E-06	833
112.6	8.4	148	2.516E-06	1.082E-05	833
112.6	10.5	241	4.092E-06	1.760E-05	833
112.6	12.6	303	5.143E-06	2.212E-05	833
112.6	14.7	396	6.720E-06	2.889E-05	833
L 112.6	16.8	0	0.	0.	833
112.6	21.0	644	1.092E-05	4.697E-05	833
112.6	25.2	747	1.267E-05	5.450E-05	833
112.6	29.4	789	1.337E-05	5.751E-05	833
112.6	33.6	789	1.337E-05	5.751E-05	833
L 112.6	37.8	0	0.	0.	833
112.6	42.0	520	8.821E-06	3.793E-05	833

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
120.2	16.8	7	1.284E-07	5.523E-07	845
120.2	21.0	1	1.751E-08	7.531E-08	845
120.2	25.2	0	5.838E-09	2.510E-08	845
120.2	29.4	0	0.	0.	845
120.2	33.6	3	5.838E-08	2.510E-07	845
120.2	37.8	3	5.254E-08	2.259E-07	845
120.2	42.0	2	4.670E-08	2.008E-07	845

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
N 127.7	.3	0	0.	0.	857

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
N 135.0	.3	0	0.	0.	867



TOWER DATA FOLLOW....

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST  
ZINC SULFIDE RELEASE FROM ELFVATION OF 26M  
1600M ARC U = 4.3 M/SEC AT 26M

TOWER DATA FOLLOW....

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST  
KHJDDAMINE B RELEASE FROM ELEVATION OF 26M  
1600M ARC U = 4.3 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
101.6	.2	9257	4.991E-06	2.146E-05	1617
101.6	.4	10078	5.473E-06	2.336E-05	1617
101.6	.8	10607	5.718E-06	2.459E-05	1617
101.6	1.5	7942	4.282E-06	1.841E-05	1617
101.6	1.6	14978	8.075E-06	3.472E-05	1617
101.6	3.1	7661	4.130E-06	1.776E-05	1617
101.6	6.2	4676	2.571E-06	1.084E-05	1617
101.6	9.3	7875	4.246E-06	1.826E-05	1617
101.6	12.4	3974	2.142E-06	9.213E-06	1617
101.6	15.5	4361	2.351E-06	1.011E-05	1617
101.6	18.6	3666	1.977E-06	8.500E-06	1617
101.6	21.7	2529	1.363E-06	5.863E-06	1617
101.6	24.8	1922	1.036E-06	4.456E-06	1617
101.6	31.0	759	4.097E-07	1.762E-06	1617
101.6	37.2	341	1.840E-07	7.913E-07	1617
101.6	43.4	164	8.868E-08	3.813E-07	1617
101.6	49.6	28	1.542E-08	6.630E-08	1617
101.6	55.8	0	0.	0.	1617
101.6	62.0	0	4.059E-10	1.745E-09	1617

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
101.6	.2	84	1.428E-06	6.142E-06	1617
101.6	.4	68	1.159E-06	4.983E-06	1617
101.6	.8	72	1.236E-06	5.314E-06	1617
101.6	1.5	206	3.507E-06	1.508E-05	1617
101.6	1.6	70	1.197E-06	5.149E-06	1617
101.6	3.1	86	1.467E-06	6.308E-06	1617
101.6	6.2	102	1.736E-06	7.466E-06	1617
101.6	9.3	100	1.698E-06	7.301E-06	1617
101.6	12.4	93	1.582E-06	6.804E-06	1617
101.6	15.5	70	1.197E-06	5.149E-06	1617
101.6	18.6	66	1.120E-06	4.818E-06	1617
101.6	21.7	45	7.739E-07	3.328E-06	1617
101.6	24.8	31	5.390E-07	2.318E-06	1617
101.6	31.0	15	2.618E-07	1.126E-06	1617
101.6	37.2	2	4.235E-08	1.821E-07	1617
101.6	43.4	0	0.	0.	1617
101.6	49.6	0	0.	0.	1617
101.6	55.8	0	0.	0.	1617
101.6	62.0	0	0.	0.	1617

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
109.5	.2	4748	2.560E-06	1.101E-05	1630
109.5	.4	4131	2.227E-06	9.576E-06	1630
109.5	.8	4421	2.384E-06	1.025E-05	1630
109.5	1.5	4280	2.308E-06	9.923E-06	1630
109.5	1.6	4328	2.333E-06	1.003E-05	1630
109.5	3.1	4392	2.368E-06	1.018E-05	1630
S 109.5	6.2	4916	2.650E-06	1.140E-05	1630
109.5	9.3	8756	4.721E-06	2.030E-05	1630
109.5	12.4	7743	4.175E-06	1.795E-05	1630
109.5	15.5	7661	4.130E-06	1.776E-05	1630
S 109.5	18.6	11880	6.405E-06	2.754E-05	1630
S 109.5	21.7	14575	7.858E-06	3.379E-05	1630
W 109.5	24.8	14172	7.644E-06	3.285E-05	1630
K 109.5	31.0	16067	8.662E-06	3.724E-05	1630
K 109.5	37.2	8155	4.396E-06	1.890E-05	1630
W 109.5	43.4	4468	2.409E-06	1.036E-05	1630
W 109.5	49.6	1752	9.450E-07	4.063E-06	1630
W 109.5	55.8	553	2.983E-07	1.283E-06	1630
W 109.5	62.0	185	1.005E-07	4.311E-07	1630

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
109.5	.2	36	6.199E-07	2.665E-06	1630
109.5	.4	31	5.390E-07	2.318E-06	1630
109.5	.8	31	5.390E-07	2.318E-06	1630
109.5	1.5	134	2.275E-06	9.784E-06	1630
109.5	1.6	33	5.621E-07	2.417E-06	1630
109.5	3.1	43	7.354E-07	3.162E-06	1630
S 109.5	6.2	72	1.236E-06	5.314E-06	1630
109.5	9.3	91	1.544E-06	6.639E-06	1630
109.5	12.4	100	1.698E-06	7.301E-06	1630
109.5	15.5	150	2.545E-06	1.094E-05	1630
S 109.5	18.6	181	3.084E-06	1.326E-05	1630
S 109.5	21.7	179	3.045E-06	1.310E-05	1630
K 109.5	24.8	172	2.930E-06	1.260E-05	1630
W 109.5	31.0	168	2.853E-06	1.227E-05	1630
K 109.5	37.2	343	5.817E-06	2.502E-05	1630
W 109.5	43.4	63	1.082E-06	4.652E-06	1630
W 109.5	49.6	20	3.542E-07	1.523E-06	1630
W 109.5	55.8	8	1.425E-07	6.125E-07	1630
W 109.5	62.0	3	5.390E-08	2.318E-07	1630

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
117.3	.2	58	3.160E-08	1.359E-07	1643
117.3	.4	29	1.596E-08	6.862E-08	1643
117.3	.8	4	2.280E-09	9.803E-09	1643
117.3	1.5	38	2.052E-08	8.823E-08	1643
117.3	1.6	2	1.368E-09	5.882E-09	1643
117.3	3.1	85	4.614E-08	1.984E-07	1643
117.3	6.2	41	2.220E-08	9.545E-08	1643
117.3	9.3	352	1.898E-07	8.163E-07	1643
S 117.3	12.4	224	1.209E-07	5.201E-07	1643
117.3	15.5	468	2.574E-07	1.085E-06	1643
117.3	18.6	750	4.047E-07	1.740E-06	1643
117.3	21.7	1605	8.655E-07	3.722E-06	1643
117.3	24.8	1634	8.809E-07	3.788E-06	1643
117.3	31.0	3815	2.057E-06	8.844E-06	1643
117.3	37.2	3136	1.691E-06	7.272E-06	1643
117.3	43.4	2974	1.604E-06	6.896E-06	1643
117.3	49.6	3516	1.896E-06	8.151E-06	1643
M 117.3	55.8	1161	6.259E-07	2.691E-06	1643
117.3	62.0	721	3.888E-07	1.672E-06	1643

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
117.3	.2	0	0.	0.	1643
117.3	.4	1	1.975E-08	8.278E-08	1643
117.3	.8	2	5.005E-08	2.152E-07	1643
117.3	1.5	0	0.	0.	1643
117.3	1.6	0	0.	0.	1643
117.3	3.1	0	0.	0.	1643
117.3	6.2	0	0.	0.	1643
117.3	9.3	0	0.	0.	1643
S 117.3	12.4	0	0.	0.	1643
117.3	15.5	1	3.080E-08	1.324E-07	1643
117.3	18.6	7	1.271E-07	5.463E-07	1643
117.3	21.7	7	1.271E-07	5.463E-07	1643
117.3	24.8	12	2.118E-07	9.105E-07	1643
117.3	31.0	20	3.427E-07	1.473E-06	1643
117.3	37.2	27	4.582E-07	1.970E-06	1643
117.3	43.4	113	1.929E-06	8.294E-06	1643
117.3	49.6	30	5.159E-07	2.218E-06	1643
L 117.3	55.8	0	0.	0.	1643
117.3	62.0	0	0.	0.	1643

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
N 125.0	.2	0	0.	0.	1655

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
N 125.0	.2	0	0.	0.	1655

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
N 132.5	.2	0	0.	0.	1665

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
N 132.5	.2	0	0.	0.	1665

TOWER DATA FOLLOW....

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST  
ZINC SULFIDE RELEASE FROM ELFVATION OF 26M  
3200M ARC U = 4.3 M/SEC AT 26M

TOWER DATA FOLLOW....

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST  
KHUAMINE B RELEASE FROM ELEVATION OF 26M  
3200M ARC U = 4.3 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
99.8	.2	726	3.917E-07	1.684E-06	3215
99.8	.4	867	4.675E-07	2.010E-06	3215
99.8	.8	479	2.583E-07	1.111E-06	3215
99.8	1.5	545	2.940E-07	1.264E-06	3215
99.8	1.6	807	4.352E-07	1.871E-06	3215
99.8	3.1	657	3.543E-07	1.523E-06	3215
99.8	6.2	657	3.547E-07	1.525E-06	3215
99.8	9.3	642	3.464E-07	1.490E-06	3215
S 99.8	12.4	331	1.787E-07	7.685E-07	3215
99.8	15.5	203	1.094E-07	4.706E-07	3215
99.8	18.6	225	1.215E-07	5.223E-07	3215
99.8	21.7	116	6.269E-08	2.696E-07	3215
99.8	24.8	79	4.289E-08	1.844E-07	3215
99.8	31.0	67	3.629E-08	1.561E-07	3215
99.8	37.2	13	7.217E-09	3.103E-08	3215
99.8	43.4	14	7.630E-09	3.281E-08	3215
99.8	49.6	1	8.248E-10	3.547E-09	3215
99.8	55.8	0	0.	0.	3215
99.8	62.0	0	0.	0.	3215

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
99.8	.2	14	2.490E-07	1.071E-06	3215
99.8	.4	12	2.124E-07	9.134E-07	3215
99.8	.8	10	1.863E-07	8.011E-07	3215
Q 99.8	1.5	42	7.156E-07	3.077E-06	3215
99.8	1.6	10	1.706E-07	7.337E-07	3215
99.8	3.1	9	1.654E-07	7.113E-07	3215
99.8	6.2	10	1.706E-07	7.337E-07	3215
99.8	9.3	8	1.445E-07	6.214E-07	3215
S 99.8	12.4	6	1.080E-07	4.642E-07	3215
99.8	15.5	3	5.920E-08	2.546E-07	3215
99.8	18.6	2	4.179E-08	1.797E-07	3215
99.8	21.7	1	2.786E-08	1.198E-07	3215
99.8	24.8	0	5.224E-09	2.246E-08	3215
99.8	31.0	0	0.	0.	3215
99.8	37.2	0	0.	0.	3215
99.8	43.4	0	0.	0.	3215
99.8	49.6	0	0.	0.	3215
99.8	55.8	0	0.	0.	3215
E 99.8	62.0	0	0.	0.	3215

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
107.8	.2	2840	1.531E-06	6.584E-06	3229
107.8	.4	2362	1.273E-06	5.475E-06	3229
107.8	.8	3129	1.687E-06	7.255E-06	3229
S 107.8	1.5	1709	9.213E-07	3.962E-06	3229
107.8	1.6	2421	1.306E-06	5.614E-06	3229
107.8	3.1	1423	7.675E-07	3.300E-06	3229
T 107.8	6.2	1287	6.939E-07	2.984E-06	3229
S 107.8	9.3	2334	1.258E-06	5.411E-06	3229
107.8	12.4	2535	1.367E-06	5.877E-06	3229
107.8	15.5	2096	1.130E-06	4.860E-06	3229
107.8	18.6	2695	1.453E-06	6.249E-06	3229
107.8	21.7	2697	1.454E-06	6.252E-06	3229
107.8	24.8	1730	9.329E-07	4.011E-06	3229
107.8	31.0	919	4.955E-07	2.131E-06	3229
107.8	37.2	682	3.681E-07	1.583E-06	3229
107.8	43.4	300	1.619E-07	6.961E-07	3229
107.8	49.6	140	7.547E-08	3.245E-07	3229
107.8	55.8	83	4.475E-08	1.924E-07	3229
107.8	62.0	1	6.186E-10	2.660E-09	3229

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
107.8	.2	28	4.893E-07	2.104E-06	3229
107.8	.4	34	5.763E-07	2.478E-06	3229
107.8	.8	32	5.589E-07	2.403E-06	3229
Q 107.8	1.5	24	4.109E-07	1.767E-06	3229
107.8	1.6	23	4.022E-07	1.730E-06	3229
107.8	3.1	7	1.236E-07	5.316E-07	3229
T 107.8	6.2	5	8.706E-08	3.744E-07	3229
S 107.8	9.3	28	4.893E-07	2.104E-06	3229
107.8	12.4	26	4.544E-07	1.954E-06	3229
107.8	15.5	23	4.022E-07	1.730E-06	3229
107.8	18.6	27	4.719E-07	2.029E-06	3229
107.8	21.7	21	3.674E-07	1.580E-06	3229
107.8	24.8	18	3.169E-07	1.363E-06	3229
107.8	31.0	14	2.450E-07	1.071E-06	3229
107.8	37.2	8	1.497E-07	6.439E-07	3229
107.8	43.4	4	7.661E-08	3.294E-07	3229
107.8	49.6	1	2.438E-08	1.048E-07	3229
107.8	55.8	0	0.	0.	3229
107.8	62.0	0	0.	0.	3229

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
115.6	.2	2458	1.325E-06	5.698E-06	3241
115.6	.4	3362	1.813E-06	7.796E-06	3241
115.6	.8	2348	1.266E-06	5.445E-06	3241
115.6	1.5	2572	1.387E-06	5.962E-06	3241
115.6	1.6	4286	2.311E-06	9.937E-06	3241
115.6	3.1	3775	2.035E-06	8.751E-06	3241
115.6	6.2	4740	2.556E-06	1.099E-05	3241
115.6	9.3	5030	2.712E-06	1.166E-05	3241
115.6	12.4	2705	1.458E-06	6.271E-06	3241
115.6	15.5	4615	2.488E-06	1.070E-05	3241
115.6	18.6	5591	3.014E-06	1.296E-05	3241
S 115.6	21.7	4713	2.541E-06	1.093E-05	3241
115.6	24.8	5897	3.179E-06	1.367E-05	3241
115.6	31.0	6688	3.606E-06	1.550E-05	3241
115.6	37.2	6387	3.443E-06	1.481E-05	3241
115.6	43.4	6005	3.237E-06	1.392E-05	3241
115.6	49.6	5178	2.791E-06	1.200E-05	3241
115.6	55.8	2215	1.194E-06	5.135E-06	3241
115.6	62.0	1436	7.743E-07	3.330E-06	3241

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
115.6	.2	31	5.415E-07	2.328E-06	3241
115.6	.4	21	3.674E-07	1.580E-06	3241
115.6	.8	23	4.022E-07	1.730E-06	3241
115.6	1.5	26	4.544E-07	1.954E-06	3241
115.6	1.6	50	8.549E-07	3.676E-06	3241
115.6	3.1	26	4.544E-07	1.954E-06	3241
115.6	6.2	27	4.719E-07	2.029E-06	3241
115.6	9.3	30	5.241E-07	2.254E-06	3241
115.6	12.4	3	5.224E-08	2.246E-07	3241
115.6	15.5	35	5.937E-07	2.553E-06	3241
115.6	18.6	29	5.067E-07	2.179E-06	3241
S 115.6	21.7	26	4.544E-07	1.954E-06	3241
115.6	24.8	45	7.679E-07	3.302E-06	3241
115.6	31.0	45	7.679E-07	3.302E-06	3241
115.6	37.0	38	6.460E-07	2.778E-06	3241
115.6	43.0	40	6.808E-07	2.927E-06	3241
115.6	49.6	49	8.375E-07	3.601E-06	3241
115.6	55.8	27	4.719E-07	2.029E-06	3241
115.6	62.0	10	1.759E-07	7.562E-07	3241

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/O SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/O SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
123.4	.2	2	1.516E-09	6.517E-09	3253	N 123.4	.2	0 0.	0.	0.	3253
123.4	5.1	11	4.186E-09	2.660E-08	3253						
123.4	12.4	16	8.661E-09	3.724E-08	3253						
123.4	15.5	1	5.905E-10	2.539E-09	3253						
123.4	18.6	0	0.	0.	3253						
123.4	21.7	4	2.475E-09	1.064E-08	3253						
123.4	31.0	4	2.260E-09	9.754E-09	3253						
123.4	37.2	11	6.186E-09	2.660E-08	3253						
123.4	43.4	9	5.155E-09	2.217E-08	3253						
123.4	49.6	24	1.329E-08	5.675E-08	3253						
123.4	55.8	40	2.206E-08	9.438E-08	3253						
123.4	62.0	76	4.104E-08	1.765E-07	3253						

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/O SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/O SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
N 131.2	.2	0	0.	0.	3264	N 131.2	.2	0 0.	0.	0.	3264

KRYPTON-85 SAMPLING AT 200M, 800M AND 1600M ONLY; TOWER SAMPLING ONLY AT 200M AND 800M. ALL THREE "GROUND-LEVEL" ARCS TRUNCATED ON NORTH. ALTHOUGH 6 OF 10 OPERATING TOWERS "HIT" BY KRYPTON, TRACER DISTRIBUTIONS ARE TRUNCATED AT TOPS.

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 26M  
 200M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE CI-SEC/CU.M X10E+7	E/U SEC/CU.M	E/U 1/SQ.M	DISTANCE METERS
B 90.0	21	1.382E-07	5.944E-07	200
92.0	34	2.189E-07	9.411E-07	200
94.0	100	6.335E-07	2.724E-06	200
96.0	107	6.796E-07	2.922E-06	200
98.0	294	1.466E-06	6.024E-06	200
100.0	21	1.337E-07	5.944E-07	200
102.0	85	5.414E-07	2.323E-06	200
104.0	431	2.730E-06	1.174E-05	200
106.0	147	9.330E-07	4.012E-06	200
108.0	318	2.016E-06	8.668E-06	200
110.0	282	1.785E-06	7.677E-06	200
112.0	63	4.032E-07	1.734E-06	200
114.0	118	7.487E-07	3.220E-06	200
116.0	1	1.152E-08	4.953E-08	200
118.0	5	3.456E-08	1.446E-07	200

CROSSWIND INTEGRATED= 8.991E-05 SEC/SQ.M 3.866E-04 1/M

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 26M  
 800M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE CI-SEC/CU.M X10E+7	E/U SEC/CU.M	E/U 1/SQ.M	DISTANCE METERS
B 101.1	478	3.029E-06	1.303E-05	813
102.0	1364	8.619E-06	3.715E-05	816
105.0	1370	8.674E-06	3.730E-05	820
106.9	1636	1.036E-05	4.453E-05	823
108.8	1949	6.635E-06	2.853E-05	826
110.7	380	2.407E-06	1.035E-05	829
112.6	356	2.258E-06	9.708E-06	833
114.5	134	8.524E-07	3.665E-06	836
L 116.4	0	0.	0.	839
118.3	109	6.911E-07	2.972E-06	842
120.2	78	4.953E-07	2.130E-06	845
122.1	25	1.614E-07	6.934E-07	848

CROSSWIND INTEGRATED= 1.211E-05 SEC/SQ.M 5.237E-05 1/M

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 26M  
 1600M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE CI-SEC/CU.M X10E+7	E/U SEC/CU.M	E/U 1/SQ.M	DISTANCE METERS
B 110.4	291	1.343E-06	7.925E-06	1632
111.4	265	1.332E-06	5.597E-06	1633
112.4	125	7.948E-07	3.418E-06	1635
113.4	187	1.186E-06	5.102E-06	1637
114.4	111	7.027E-07	3.021E-06	1638
115.3	59	3.636E-07	1.545E-06	1640
116.3	65	4.147E-07	1.733E-06	1641
117.3	0	0.	0.	1643
118.2	81	5.144E-07	2.229E-06	1644
L 119.2	0	0.	0.	1646
120.2	7	4.606E-08	1.981E-07	1647
121.2	3	2.304E-08	9.906E-08	1649

CROSSWIND INTEGRATED= 2.933E-06 SEC/SQ.M 6.741E-04 1/M

TOWER DATA FOLLOWS...

TEST VS SEPTEMBER 5, 1973 0501 TO 0531 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 26M  
 200M ARC U = 4.3 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CU.M X10E+7	F/D SEC/CU.M	EU/D 1/50.M	DISTANCE METERS
102.0	1.5	85	5.414E-07	2.328E-05	200
102.0	4.0	653	4.135E-06	1.778E-05	200
102.0	7.0	1983	1.256E-05	5.399E-05	200
102.0	13.0	4941	3.127E-05	1.345E-04	200
102.0	19.0	11704	7.400E-05	3.185E-04	200
102.0	25.0	8321	5.266E-05	2.265E-04	200
102.0	32.8	2478	1.569E-05	6.746E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CU.M X10E+7	F/D SEC/CU.M	EU/D 1/50.M	DISTANCE METERS
110.0	1.5	262	1.785E-06	7.677E-06	200
110.0	4.0	111	7.027E-07	3.021E-06	200
110.0	7.0	449	2.845E-06	1.223E-05	200
110.0	13.0	7238	4.541E-05	1.970E-04	200
110.0	19.0	15639	9.890E-05	4.256E-04	200
110.0	25.0	24351	1.541E-04	6.627E-04	200
L 110.0	32.8	0	0.	0.	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CU.M X10E+7	F/D SEC/CU.M	EU/D 1/50.M	DISTANCE METERS
118.0	1.5	5	3.456E-06	1.486E-07	200
118.0	4.0	74	4.723E-07	2.031E-06	200
118.0	7.0	154	9.791E-07	4.210E-06	200
118.0	13.0	414	2.626E-06	1.129E-05	200
118.0	19.0	1654	1.047E-05	4.502E-05	200
118.0	25.0	2644	1.674E-05	7.197E-05	200
118.0	32.8	2622	1.660E-05	7.138E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CU.M X10E+7	F/D SEC/CU.M	EU/D 1/50.M	DISTANCE METERS
N 126.0	1.5	0	0.	0.	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CU.M X10E+7	F/D SEC/CU.M	EU/D 1/50.M	DISTANCE METERS
N 134.0	1.5	0	0.	0.	200

TOWER DATA FOLLOWS...

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 26M  
 BOOM ARC U= 4.3 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10E+7	F/D SEC/CM	EU/D 1/SQ.M	DISTANCE METERS
105.0	1.5	1370	8.674E-06	3.730E-05	820
105.0	5.0	778	4.970E-06	2.120E-05	820
105.0	12.0	2859	1.810E-05	7.781E-05	820
105.0	19.0	1916	1.213E-05	5.216E-05	820
105.0	26.0	2917	1.846E-05	7.940E-05	820
105.0	34.0	1350	8.547E-06	3.675E-05	820
105.0	42.0	254	1.613E-06	6.934E-06	820

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10E+7	F/D SEC/CM	EU/D 1/SQ.M	DISTANCE METERS
112.6	1.5	356	2.258E-06	9.708E-06	833
112.6	5.0	440	2.780E-06	1.199E-05	833
112.6	12.0	1079	6.831E-06	2.937E-05	833
112.6	19.0	2009	1.272E-05	5.468E-05	833
112.6	26.0	3039	1.924E-05	8.272E-05	833
112.6	34.0	2755	1.744E-05	7.499E-05	833
112.6	42.0	1994	1.262E-05	5.429E-05	833

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10E+7	F/D SEC/CM	EU/D 1/SQ.M	DISTANCE METERS
120.2	1.5	78	4.953E-07	2.130E-06	845
120.2	5.0	41	2.644E-07	1.139E-06	845
120.2	12.0	0	0.	0.	845
120.2	19.0	92	5.875E-07	2.526E-06	845
120.2	26.0	69	4.377E-07	1.882E-06	845
120.2	34.0	5	3.456E-08	1.486E-07	845
120.2	42.0	0	0.	0.	845

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10E+7	F/D SEC/CM	EU/D 1/SQ.M	DISTANCE METERS
N 127.7	1.5	0	0.	0.	857

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10E+7	F/D SEC/CM	EU/D 1/SQ.M	DISTANCE METERS
N 135.0	1.5	0	0.	0.	867

GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. ALL ARCS EMBRACE CROSSWIND DISTRIBUTION OF TRACER.  
TOWERS TRUNCATE TOP OF VERTICAL DISTRIBUTION, BUT EXTRAPOLATION WOULD NOT BE UNREASONABLE.

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
200M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	LU/Q 1/SQ.M	DISTANCE METERS
102.0	0	0.	0.	200
104.0	22	9.779E-09	6.259E-08	200
106.0	12	5.334E-09	3.414E-08	200
108.0	229	9.912E-09	6.344E-07	200
110.0	2357	1.016E-06	6.503E-06	200
112.0	8220	3.543E-06	2.268E-05	200
114.0	15076	6.499E-06	4.159E-05	200
116.0	14767	6.365E-06	4.074E-05	200
118.0	12933	5.575E-06	3.568E-05	200
120.0	9823	4.234E-06	2.710E-05	200
122.0	10899	4.648E-06	3.007E-05	200
124.0	7946	3.382E-06	2.165E-05	200
126.0	3301	1.423E-06	9.106E-06	200
128.0	750	3.236E-07	2.071E-06	200
130.0	229	9.912E-08	6.344E-07	200
132.0	5	2.223E-09	1.422E-08	200
134.0	0	0.	0.	200

CROSSWIND INTEGRATED= 2.602E-04 1.665E-03  
SEC/SQ.M 1/M

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST  
RHODAMINE B RELEASE FROM ELEVATION OF 26M  
200M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	LU/Q 1/SQ.M	DISTANCE METERS
106.0	0	0.	0.	200
108.0	0	0.	0.	200
110.0	1	2.252E-09	1.441E-07	200
112.0	7	1.244E-07	8.216E-07	200
114.0	22	3.716E-07	2.378E-06	200
116.0	31	5.270E-07	3.373E-06	200
118.0	15	2.635E-07	1.686E-06	200
120.0	29	4.932E-07	3.157E-06	200
122.0	37	6.306E-07	4.036E-06	200
124.0	32	5.405E-07	3.459E-06	200
126.0	22	3.716E-07	2.378E-06	200
128.0	1	2.027E-08	1.297E-07	200
130.0	0	0.	0.	200
132.0	1	2.928E-08	1.874E-07	200

CROSSWIND INTEGRATED= 2.373E-05 1.519E-04  
SEC/SQ.M 1/M

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
400M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	LU/Q 1/SQ.M	DISTANCE METERS
86.0	0	1.664E-10	1.068E-09	400
90.0	1	6.673E-10	4.271E-09	400
W 94.0	3	1.501E-09	9.609E-09	400
W 98.0	30	1.335E-08	8.542E-08	400
W 102.0	0	3.337E-10	2.135E-09	400
E 106.0	45	1.952E-08	1.249E-07	400
110.0	907	3.912E-07	2.504E-06	400
114.0	12716	5.481E-06	3.508E-05	400
118.0	6268	2.702E-06	1.729E-05	400
122.0	10418	4.491E-06	2.874E-05	400
126.0	4190	1.306E-06	1.156E-05	400
130.0	168	7.257E-08	4.645E-07	400
134.0	27	1.201E-08	7.688E-08	400
138.0	13	5.672E-09	3.630E-08	400
142.0	6	2.669E-09	1.708E-08	400
146.0	4	1.835E-09	1.174E-08	400

CROSSWIND INTEGRATED= 4.189E-04 2.681E-03  
SEC/SQ.M 1/M

RHODAMINE B  
400M ARC DATA  
MISSING

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 800M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
105.0	0	0.	0.	820
106.9	1	8.600E-10	5.504E-09	823
E 108.8	86	3.741E-08	2.394E-07	826
E 110.7	1194	5.147E-07	3.294E-06	829
E 112.6	8077	3.482E-06	2.228E-05	833
E 114.5	27928	1.204E-05	7.704E-05	836
E 116.4	35509	1.531E-05	9.796E-05	839
118.3	34880	1.503E-05	9.622E-05	842
120.2	21793	9.394E-06	6.012E-05	845
122.1	24218	1.044E-05	6.881E-05	848
124.0	21529	9.200E-06	5.939E-05	851
125.8	15227	6.564E-06	4.201E-05	854
127.7	2418	1.042E-06	6.671E-06	857
129.5	16	7.310E-09	4.678E-08	859
131.4	0	0.	0.	862

CROSSWIND INTEGRATED= 2.313E-03 1.480E-02  
 SEC/SQ.M 1/M

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 1200M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
106.0	0	1.861E-10	1.191E-09	1200
108.0	1	4.653E-10	2.978E-09	1200
110.0	87	3.778E-08	2.418E-07	1200
112.0	1905	8.215E-07	5.258E-06	1200
114.0	14001	6.035E-06	3.862E-05	1200
116.0	27985	1.206E-05	7.720E-05	1200
118.0	28755	1.239E-05	7.933E-05	1200
120.0	16152	6.962E-06	4.456E-05	1200
122.0	17682	7.622E-06	4.878E-05	1200
124.0	14293	6.161E-06	3.943E-05	1200
126.0	4543	1.958E-06	1.253E-05	1200
5 128.0	101	4.373E-08	2.799E-07	1200
130.0	3	1.396E-09	8.933E-09	1200
132.0	0	0.	0.	1200

CROSSWIND INTEGRATED= 2.266E-03 1.450E-02  
 SEC/SQ.M 1/M

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST  
 RHODAMINE B RELEASE FROM ELEVATION OF 26M  
 800M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
106.9	2	3.922E-08	2.510E-07	823
X 108.8	1	3.268E-08	2.092E-07	826
E 110.7	4	7.407E-08	4.741E-07	829
E 112.6	50	8.497E-07	5.438E-06	833
E 114.5	580	4.673E-06	6.191E-05	836
E 116.4	188	3.137E-06	2.008E-05	839
118.3	593	9.891E-06	6.330E-05	842
120.2	384	6.405E-06	4.099E-05	845
122.1	282	4.706E-06	3.012E-05	848
124.0	360	6.013E-06	3.848E-05	851
125.8	180	3.007E-06	1.924E-05	854
127.7	29	4.902E-07	3.137E-06	857
129.5	0	0.	0.	859

CROSSWIND INTEGRATED= 1.233E-03 7.889E-03  
 SEC/SQ.M 1/M

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST  
 RHODAMINE B RELEASE FROM ELEVATION OF 26M  
 1200M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
108.0	0	0.	0.	1200
110.0	1	3.044E-08	1.948E-07	1200
112.0	54	9.094E-07	5.820E-06	1200
114.0	414	6.916E-06	4.426E-05	1200
116.0	82	1.379E-06	8.824E-06	1200
118.0	65	1.005E-06	6.947E-06	1200
120.0	408	6.806E-06	4.356E-05	1200
122.0	408	6.806E-06	4.356E-05	1200
124.0	388	6.476E-06	4.145E-05	1200
126.0	95	1.599E-06	1.023E-05	1200
5 128.0	8	1.393E-07	8.912E-07	1200
130.0	0	0.	0.	1200
132.0	0	0.	0.	1200

CROSSWIND INTEGRATED= 1.347E-03 8.618E-03  
 SEC/SQ.M 1/M



TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
1600M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
109.5	0	3.244E-10	2.076E-09	1630
110.4	24	1.071E-08	6.852E-08	1632
111.4	459	1.979E-07	1.267E-06	1633
112.4	1360	5.865E-07	3.754E-06	1635
113.4	4298	1.853E-06	1.186E-05	1637
114.4	9983	4.303E-06	2.754E-05	1638
115.3	20401	8.794E-06	5.628E-05	1640
116.3	18983	8.103E-06	5.237E-05	1641
117.3	25951	1.119E-05	7.159E-05	1643
118.2	21676	9.343E-06	5.980E-05	1644
119.2	18003	7.769E-06	4.966E-05	1646
120.2	13470	5.806E-06	3.716E-05	1647
121.2	12812	5.523E-06	3.534E-05	1649
122.1	13047	5.624E-06	3.599E-05	1650
123.1	16342	7.044E-06	4.508E-05	1652
124.1	14526	6.261E-06	4.007E-05	1653
125.0	5612	2.419E-06	1.548E-05	1655
126.0	1970	8.493E-07	5.436E-06	1656
126.9	447	1.927E-07	1.233E-06	1658
127.8	69	3.017E-08	1.931E-07	1659
128.8	9	3.893E-09	2.492E-08	1660
129.7	0	0.	0.	1662

CROSSWIND INTEGRATED= 2.390E-03 SEC/SQ.M 1.530E-02 1/M

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
3200M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
109.7	0	0.	0.	3232
110.7	6	2.803E-09	1.794E-08	3233
111.7	52	2.259E-08	1.446E-07	3235
112.7	253	1.093E-07	6.996E-07	3237
113.7	1982	4.547E-07	2.870E-06	3238
114.6	4986	2.149E-06	1.375E-05	3240
115.6	7374	3.179E-06	2.034E-05	3241
116.6	9160	3.949E-06	2.527E-05	3243
117.6	8917	3.844E-06	2.460E-05	3245
118.6	9713	4.187E-06	2.680E-05	3246
119.5	8855	3.817E-06	2.443E-05	3248
120.5	9014	3.885E-06	2.487E-05	3249
121.5	7082	3.053E-06	1.954E-05	3251
122.4	6462	2.785E-06	1.783E-05	3252
123.4	3883	1.674E-06	1.071E-05	3253
124.4	1010	4.354E-07	2.787E-06	3255
125.4	219	9.481E-08	6.068E-07	3256
126.3	15	6.595E-09	4.221E-08	3258
127.3	0	0.	0.	3259

CROSSWIND INTEGRATED= 1.881E-03 SEC/SQ.M 1.204E-02 1/M

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST  
RHODAMINE B RELEASE FROM ELEVATION OF 26M  
1600M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
110.4	0	0.	0.	1632
111.4	6	1.063E-07	6.805E-07	1633
112.4	25	4.310E-07	2.759E-06	1635
113.4	110	1.968E-06	1.260E-05	1637
114.4	289	4.628E-06	3.090E-05	1638
115.3	505	8.420E-06	5.349E-05	1640
116.3	548	9.139E-06	5.848E-05	1641
117.3	531	8.851E-06	5.664E-05	1643
118.2	487	8.132E-06	5.205E-05	1644
119.2	367	6.121E-06	3.917E-05	1646
120.2	298	4.971E-06	3.182E-05	1647
121.2	224	3.736E-06	2.391E-05	1649
122.1	221	3.693E-06	2.363E-05	1650
123.1	375	6.264E-06	4.009E-05	1652
124.1	281	4.684E-06	2.998E-05	1653
125.0	143	2.399E-06	1.530E-05	1655
126.0	47	7.902E-07	5.057E-06	1656
126.9	8	1.365E-07	8.736E-07	1658
127.8	1	2.874E-08	1.839E-07	1659

CROSSWIND INTEGRATED= 2.079E-03 SEC/SQ.M 1.330E-02 1/M

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST  
RHODAMINE B RELEASE FROM ELEVATION OF 26M  
3200M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
110.7	0	0.	0.	3233
111.7	1	1.949E-08	1.248E-07	3235
112.7	10	1.819E-07	1.164E-06	3237
113.7	59	9.877E-07	6.321E-06	3238
114.6	185	3.093E-06	1.979E-05	3240
115.6	275	4.587E-06	2.936E-05	3241
116.6	298	4.977E-06	3.185E-05	3243
117.6	283	4.717E-06	3.019E-05	3245
118.6	263	4.392E-06	2.811E-05	3246
119.5	240	4.003E-06	2.562E-05	3248
120.5	193	3.223E-06	2.063E-05	3249
121.5	177	2.963E-06	1.896E-05	3251
122.4	119	1.488E-06	1.273E-05	3252
123.4	69	1.163E-06	7.444E-06	3253
124.4	20	3.379E-07	2.162E-06	3255
125.4	4	7.147E-08	4.574E-07	3256
126.3	0	7.797E-09	4.990E-08	3258

CROSSWIND INTEGRATED= 2.030E-03 SEC/SQ.M 1.299E-02 1/M

TOWER DATA FOLLOW....

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
200M ARC U = 6.4 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>3</sup> X10E+6	F/Q SEC/CM <sup>3</sup>	EU/U 1/SQ.M	DISTANCE METERS	
	102.0	.4	6	3.000E-09	1.920E-08	200
E	102.0	.8	4	1.920E-09	1.229E-08	200
	102.0	1.5	0	0.	0.	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>3</sup> X10E+6	F/Q SEC/CM <sup>3</sup>	EU/U 1/SQ.M	DISTANCE METERS	
S	110.0	.4	1217	5.246E-07	3.357E-06	200
	110.0	.8	1202	5.185E-07	3.318E-06	200
	110.0	1.5	2357	1.016E-06	6.503E-06	200
	110.0	2.5	2904	1.252E-06	8.012E-06	200
	110.0	4.0	2231	9.618E-07	6.155E-06	200
	110.0	5.5	6132	2.644E-06	1.692E-05	200
	110.0	7.0	7735	3.394E-06	2.134E-05	200
	110.0	8.5	11314	4.877E-06	3.121E-05	200
	110.0	10.0	11741	5.061E-06	3.239E-05	200
	110.0	13.0	14807	6.383E-06	4.085E-05	200
	110.0	16.0	15046	6.485E-06	4.151E-05	200
	110.0	19.0	20904	9.011E-06	5.767E-05	200
	110.0	22.0	25886	1.116E-05	7.141E-05	200
	110.0	25.0	11722	5.053E-06	3.234E-05	200
	110.0	28.0	13721	5.915E-06	3.785E-05	200
	110.0	31.0	5439	2.560E-06	1.638E-05	200
	110.0	32.8	3413	1.471E-06	9.416E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>3</sup> X10E+6	F/Q SEC/CM <sup>3</sup>	EU/U 1/SQ.M	DISTANCE METERS	
	118.0	.4	13889	5.987E-06	3.832E-05	200
	118.0	.8	17705	7.632E-06	4.884E-05	200
	118.0	1.5	12933	5.575E-06	3.568E-05	200
	118.0	2.5	15883	6.846E-06	4.382E-05	200
	118.0	4.0	25814	1.113E-05	7.121E-05	200
	118.0	5.5	27588	1.189E-05	7.611E-05	200
	118.0	7.0	37017	1.596E-05	1.021E-04	200
	118.0	8.5	46903	2.022E-05	1.294E-04	200
	118.0	10.0	56704	2.444E-05	1.564E-04	200
	118.0	13.0	88985	3.876E-05	2.455E-04	200
	118.0	16.0	119725	5.161E-05	3.303E-04	200
	118.0	19.0	136177	5.784E-05	3.701E-04	200
	118.0	22.0	167251	8.071E-05	5.166E-04	200
	118.0	25.0	250482	1.080E-04	6.910E-04	200
	118.0	28.0	230536	9.937E-05	6.360E-04	200
	118.0	31.0	156663	6.753E-05	4.322E-04	200
	118.0	32.8	108480	4.676E-05	2.993E-04	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>3</sup> X10E+6	F/Q SEC/CM <sup>3</sup>	EU/U 1/SQ.M	DISTANCE METERS	
9	126.0	.4	538	2.320E-07	1.485E-06	200
9	126.0	.8	1942	8.372E-07	5.358E-06	200
	126.0	1.5	3301	1.423E-06	9.106E-06	200
	126.0	2.5	4473	1.928E-06	1.234E-05	200
	126.0	4.0	6485	2.796E-06	1.789E-05	200
	126.0	5.5	8235	3.550E-06	2.272E-05	200
	126.0	7.0	8292	3.575E-06	2.288E-05	200
	126.0	8.5	13499	5.819E-06	3.724E-05	200
	126.0	10.0	19893	8.575E-06	5.468E-05	200
	126.0	13.0	27655	1.192E-05	7.629E-05	200
	126.0	16.0	40174	1.732E-05	1.108E-04	200
	126.0	19.0	49673	2.141E-05	1.370E-04	200
	126.0	22.0	53439	2.303E-05	1.474E-04	200
	126.0	25.0	66211	2.854E-05	1.827E-04	200
	126.0	28.0	60923	2.626E-05	1.681E-04	200
	126.0	31.0	22906	9.874E-06	6.319E-05	200
	126.0	32.8	27136	1.170E-05	7.488E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>3</sup> X10E+6	F/Q SEC/CM <sup>3</sup>	EU/U 1/SQ.M	DISTANCE METERS	
E	134.0	.4	6	3.000E-09	1.920E-08	200
	134.0	.8	0	0.	0.	200
	134.0	1.5	0	0.	0.	200

TOWER DATA FOLLOW....

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST  
RHODAMINE B RELEASE FROM ELEVATION OF 26M  
200M ARC U = 6.4 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>3</sup> X10E+6	F/Q SEC/CM <sup>3</sup>	EU/U 1/SQ.M	DISTANCE METERS	
N	102.0	.4	0	0.	0.	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>3</sup> X10E+6	F/Q SEC/CM <sup>3</sup>	EU/U 1/SQ.M	DISTANCE METERS	
S	110.0	.4	20	3.446E-07	2.205E-06	200
	110.0	.8	9	1.554E-07	9.946E-07	200
	110.0	1.5	1	2.252E-08	1.441E-07	200
	110.0	2.5	0	0.	0.	200
	110.0	4.0	1	2.477E-08	1.586E-07	200
	110.0	5.5	10	1.689E-07	1.081E-06	200
	110.0	7.0	15	2.635E-07	1.686E-06	200
	110.0	8.5	45	7.658E-07	4.901E-06	200
	110.0	10.0	55	9.234E-07	5.910E-06	200
	110.0	13.0	113	1.892E-06	1.211E-05	200
	110.0	16.0	141	2.365E-06	1.514E-05	200
	110.0	19.0	222	3.716E-06	2.378E-05	200
	110.0	22.0	239	3.986E-06	2.551E-05	200
	110.0	25.0	145	2.432E-06	1.557E-05	200
	110.0	28.0	186	3.108E-06	1.989E-05	200
	110.0	31.0	98	1.844E-06	1.052E-05	200
	110.0	32.8	55	9.234E-07	5.910E-06	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>3</sup> X10E+6	F/Q SEC/CM <sup>3</sup>	EU/U 1/SQ.M	DISTANCE METERS	
	118.0	.4	2	4.054E-08	2.595E-07	200
	118.0	.8	3	5.856E-08	3.748E-07	200
	118.0	1.5	15	2.635E-07	1.686E-06	200
	118.0	2.5	8	1.351E-07	8.649E-07	200
	118.0	4.0	6	1.014E-07	6.486E-07	200
	118.0	5.5	44	7.432E-07	4.757E-06	200
	118.0	7.0	98	1.644E-06	1.052E-05	200
	118.0	8.5	149	2.500E-06	1.600E-05	200
	118.0	10.0	267	4.459E-06	2.854E-05	200
	118.0	13.0	667	1.113E-05	7.121E-05	200
	118.0	16.0	1167	1.946E-05	1.245E-04	200
	118.0	19.0	2586	4.311E-05	2.759E-04	200
	118.0	22.0	3478	5.797E-05	3.710E-04	200
	118.0	25.0	4721	7.869E-05	5.036E-04	200
	118.0	28.0	5127	8.545E-05	5.469E-04	200
	118.0	31.0	3113	5.189E-05	3.321E-04	200
	118.0	32.8	2302	3.838E-05	2.456E-04	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>3</sup> X10E+6	F/Q SEC/CM <sup>3</sup>	EU/U 1/SQ.M	DISTANCE METERS	
U	126.0	.4	52	8.784E-07	5.622E-06	200
U	126.0	.8	51	8.559E-07	5.477E-06	200
	126.0	1.5	22	3.716E-07	2.378E-06	200
	126.0	2.5	8	1.419E-07	9.081E-07	200
	126.0	4.0	17	2.905E-07	1.859E-06	200
	126.0	5.5	41	6.982E-07	4.468E-06	200
	126.0	7.0	47	7.883E-07	5.045E-06	200
	126.0	8.5	59	9.910E-07	6.342E-06	200
	126.0	10.0	124	2.072E-06	1.326E-05	200
	126.0	13.0	222	3.716E-06	2.378E-05	200
	126.0	16.0	464	7.748E-06	4.959E-05	200
	126.0	19.0	856	1.428E-05	9.139E-05	200
	126.0	22.0	991	1.653E-05	1.058E-04	200
	126.0	25.0	1113	1.856E-05	1.188E-04	200
	126.0	28.0	978	1.631E-05	1.044E-04	200
	126.0	31.0	424	7.072E-06	4.526E-05	200
	126.0	32.8	344	5.743E-06	3.676E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>3</sup> X10E+6	F/Q SEC/CM <sup>3</sup>	EU/U 1/SQ.M	DISTANCE METERS	
N	134.0	.4	0	0.	0.	200

TOWER DATA FOLLOW....

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 BOOM ARC U = 6.4 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
N 105.0	.3	0	0.	0.	820

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
E 112.6	.3	8749	3.771E-06	2.414E-05	833
E 112.6	.5	7322	3.156E-06	2.020E-05	833
E 112.6	1.1	7869	3.392E-06	2.171E-05	833
E 112.6	1.5	8077	3.482E-06	2.228E-05	833
E 112.6	2.1	8630	3.720E-06	2.381E-05	833
E 112.6	4.2	9924	4.278E-06	2.738E-05	833
112.6	6.3	12003	5.174E-06	3.311E-05	833
112.6	8.4	9966	4.296E-06	2.749E-05	833
112.6	10.5	8984	3.872E-06	2.478E-05	833
112.6	12.6	6276	2.705E-06	1.731E-05	833
112.6	14.7	6997	3.016E-06	1.930E-05	833
112.6	16.8	9236	3.981E-06	2.548E-05	833
112.6	21.0	5479	2.362E-06	1.511E-05	833
112.6	25.2	3902	1.682E-06	1.077E-05	833
112.6	29.4	1594	6.873E-07	4.399E-06	833
112.6	33.6	1403	6.051E-07	3.873E-06	833
112.6	37.8	679	2.927E-07	1.873E-06	833
112.6	42.0	255	1.101E-07	7.046E-07	833

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
120.2	.3	20477	8.827E-06	5.649E-05	845
120.2	.5	21107	9.098E-06	5.823E-05	845
120.2	1.1	18638	8.034E-06	5.142E-05	845
120.2	1.5	21793	9.394E-06	6.012E-05	845
120.2	2.1	26795	1.155E-05	7.392E-05	845
120.2	4.2	25960	1.119E-05	7.162E-05	845
120.2	6.3	28769	1.240E-05	7.937E-05	845
120.2	8.4	5856	2.524E-06	1.615E-05	845
120.2	10.5	23733	1.023E-05	6.547E-05	845
120.2	12.6	19608	8.452E-06	5.409E-05	845
120.2	14.7	15917	6.861E-06	4.391E-05	845
120.2	16.8	21766	9.382E-06	6.005E-05	845
120.2	21.0	20132	8.678E-06	5.554E-05	845
120.2	25.2	17545	7.563E-06	4.840E-05	845
120.2	29.4	14893	6.470E-06	4.109E-05	845
120.2	33.6	19814	8.541E-06	5.466E-05	845
120.2	37.8	12443	5.364E-06	3.433E-05	845
120.2	42.0	7768	3.348E-06	2.143E-05	845

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
127.7	.3	1723	7.430E-07	4.755E-06	857
127.7	.5	2038	8.786E-07	5.623E-06	857
127.7	1.1	1986	8.564E-07	5.481E-06	857
127.7	1.5	2418	1.042E-06	6.671E-06	857
127.7	2.1	3164	1.364E-06	8.729E-06	857
127.7	4.2	1031	4.444E-07	2.844E-06	857
127.7	6.3	2728	1.176E-06	7.528E-06	857
127.7	8.4	2758	1.189E-06	7.610E-06	857
127.7	10.5	2098	9.044E-07	5.788E-06	857
127.7	12.6	2127	9.171E-07	5.869E-06	857
127.7	14.7	2405	1.037E-06	6.634E-06	857
127.7	16.8	2013	8.680E-07	5.555E-06	857
127.7	21.0	1568	6.760E-07	4.324E-06	857
127.7	25.2	1711	5.273E-07	3.343E-06	857
127.7	29.4	864	3.778E-07	2.388E-06	857
127.7	33.6	629	2.714E-07	1.737E-06	857
127.7	37.8	430	1.854E-07	1.187E-06	857
127.7	42.0	154	6.679E-08	4.274E-07	857

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
N 135.0	.3	0	0.	0.	867

TOWER DATA FOLLOW....

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST  
 RHODAMINE B RELEASE FROM ELEVATION OF 26M  
 BOOM ARC U = 6.4 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
N 105.0	.3	0	0.	0.	820

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
X 112.6	.3	0	0.	0.	833
X 112.6	.5	0	0.	0.	833
X 112.6	1.1	0	0.	0.	833
112.6	1.5	49	8.279E-07	5.298E-06	833
X 112.6	2.1	0	0.	0.	833
X 112.6	4.2	0	0.	0.	833
112.6	6.3	171	2.854E-06	1.827E-05	833
112.6	8.4	143	2.397E-06	1.534E-05	833
L 112.6	10.5	0	0.	0.	833
112.6	12.6	81	1.351E-06	8.645E-06	833
112.6	14.7	113	1.895E-06	1.213E-05	833
112.6	16.8	135	2.266E-06	1.450E-05	833
112.6	21.0	105	1.765E-06	1.129E-05	833
112.6	25.2	81	1.351E-06	8.645E-06	833
112.6	29.4	15	2.527E-07	1.617E-06	833
112.6	33.6	1036	1.728E-05	1.106E-04	833
112.6	37.8	8	1.351E-07	8.645E-07	833
112.6	42.0	0	0.	0.	833

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
120.2	.3	265	4.423E-06	2.831E-05	845
120.2	.5	288	4.819E-06	3.081E-05	845
120.2	1.1	300	5.011E-06	3.207E-05	845
120.2	1.5	383	6.383E-06	4.085E-05	845
120.2	2.1	304	5.076E-06	3.249E-05	845
120.2	4.2	284	4.749E-06	3.040E-05	845
120.2	6.3	265	4.423E-06	2.831E-05	845
120.2	8.4	304	5.076E-06	3.249E-05	845
120.2	10.5	312	5.207E-06	3.332E-05	845
120.2	12.6	304	5.076E-06	3.249E-05	845
120.2	14.7	288	4.815E-06	3.081E-05	845
120.2	16.8	343	5.730E-06	3.667E-05	845
120.2	21.0	409	6.819E-06	4.364E-05	845
120.2	25.2	435	7.255E-06	4.643E-05	845
120.2	29.4	316	5.272E-06	3.374E-05	845
120.2	33.6	363	6.057E-06	3.876E-05	845
120.2	37.8	320	5.338E-06	3.416E-05	845
120.2	42.0	277	4.619E-06	2.956E-05	845

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
127.7	.3	20	3.442E-07	2.203E-06	857
127.7	.5	22	3.704E-07	2.370E-06	857
127.7	1.1	32	5.447E-07	3.486E-06	857
127.7	1.5	28	4.684E-07	2.998E-06	857
127.7	2.1	24	4.161E-07	2.663E-06	857
127.7	4.2	25	4.292E-07	2.747E-06	857
127.7	6.3	27	4.619E-07	2.956E-06	857
127.7	8.4	27	4.619E-07	2.956E-06	857
127.7	10.5	28	4.749E-07	3.040E-06	857
127.7	12.6	32	5.447E-07	3.486E-06	857
127.7	14.7	26	4.473E-07	2.831E-06	857
127.7	16.8	31	5.279E-07	3.346E-06	857
127.7	21.0	26	4.473E-07	2.831E-06	857
127.7	25.2	33	5.664E-07	3.625E-06	857
127.7	29.4	22	3.704E-07	2.370E-06	857
127.7	33.6	12	2.135E-07	1.366E-06	857
127.7	37.8	6	1.024E-07	6.553E-07	857
127.7	42.0	1	1.743E-08	1.113E-07	857

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
N 135.0	.3	0	0.	0.	867

TOWER DATA FOLLOW....

TEST V6 SEPTEMBER 13, 1973 0516 TU 0546 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 1600M ARC U= 6.4 M/SEC AT 26M

TEST V6 SEPTEMBER 13, 1973 0516 TU 0546 PST  
 MINIDAMINE B RELEASE FROM ELEVATION OF 26M  
 1600M ARC U= 6.4 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
N 101.6	.2	0	0.	0.	1617

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
109.5	.2	8	3.828E-09	2.450E-08	1630
109.5	.4	122	5.290E-08	3.385E-07	1630
109.5	.8	16	7.323E-09	4.687E-08	1630
109.5	1.5	0	3.244E-10	2.076E-09	1630
109.5	1.6	24	1.071E-08	6.852E-08	1630
109.5	3.1	21	9.236E-09	5.911E-08	1630
109.5	6.2	1	7.696E-10	4.925E-09	1630

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
N 101.6	.2	0	0.	0.	1617

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
109.5	.2	5	9.339E-08	5.977E-07	1630
109.5	.4	7	1.322E-07	8.460E-07	1630
109.5	.8	0	0.	0.	1630
109.5	1.6	3	6.178E-08	3.954E-07	1630
109.5	3.1	0	0.	0.	1630
109.5	6.2	4	7.759E-08	4.966E-07	1630
109.5	9.3	0	0.	0.	1630
109.5	12.4	0	0.	0.	1630
109.5	15.5	2	4.310E-08	2.759E-07	1630
109.5	18.6	0	0.	0.	1630
109.5	21.7	3	5.747E-08	3.678E-07	1630
109.5	24.8	0	1.006E-08	6.437E-08	1630
109.5	31.0	5	9.339E-08	5.977E-07	1630
109.5	37.2	3	5.460E-08	3.494E-07	1630
109.5	43.4	2	4.310E-08	2.759E-07	1630
109.5	49.6	0	1.006E-08	6.437E-08	1630
109.5	55.8	3	5.891E-08	3.770E-07	1630
109.5	62.0	1	2.874E-08	1.839E-07	1630

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
117.3	.2	26164	1.128E-05	7.218E-05	1643
117.3	.4	19908	8.581E-06	5.492E-05	1643
117.3	.8	26520	1.143E-05	7.316E-05	1643
117.3	1.5	25951	1.119E-05	7.159E-05	1643
117.3	1.6	27272	1.176E-05	7.523E-05	1643
117.3	3.1	26493	1.142E-05	7.308E-05	1643
117.3	6.2	24668	1.063E-05	6.805E-05	1643
117.3	9.3	27656	1.192E-05	7.629E-05	1643
117.3	12.4	25431	1.096E-05	7.016E-05	1643
117.3	15.5	23355	1.008E-05	6.454E-05	1643
117.3	18.6	25124	1.083E-05	6.931E-05	1643
117.3	21.7	23359	1.007E-05	6.444E-05	1643
117.3	24.8	17679	7.620E-06	4.877E-05	1643
117.3	31.0	17432	7.514E-06	4.809E-05	1643
117.3	37.2	14607	6.296E-06	4.030E-05	1643
117.3	43.4	6914	2.980E-06	1.908E-05	1643
117.3	49.6	1525	6.574E-07	4.208E-06	1643
117.3	55.8	375	1.619E-07	1.036E-06	1643
117.3	62.0	7	3.056E-09	1.956E-08	1643

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
117.3	.2	582	9.713E-06	6.216E-05	1643
117.3	.4	531	8.851E-06	5.664E-05	1643
117.3	.8	487	8.132E-06	5.205E-05	1643
117.3	1.5	531	8.851E-06	5.664E-05	1643
117.3	1.6	427	7.126E-06	4.561E-05	1643
117.3	3.1	358	5.977E-06	3.825E-05	1643
117.3	6.2	427	7.126E-06	4.561E-05	1643
117.3	9.3	444	7.414E-06	4.745E-05	1643
117.3	12.4	410	6.839E-06	4.377E-05	1643
117.3	15.5	367	6.121E-06	3.917E-05	1643
117.3	18.6	470	7.845E-06	5.021E-05	1643
117.3	21.7	462	7.701E-06	4.929E-05	1643
117.3	24.8	470	7.845E-06	5.021E-05	1643
117.3	31.0	436	7.270E-06	4.653E-05	1643
117.3	37.2	298	4.971E-06	3.182E-05	1643
117.3	43.4	218	3.649E-06	2.336E-05	1643
117.3	49.6	62	1.049E-06	6.713E-06	1643
117.3	55.8	12	2.011E-07	1.287E-06	1643
117.3	62.0	0	0.	0.	1643

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
125.0	.2	6056	2.611E-06	1.671E-05	1655
125.0	.4	5313	2.290E-06	1.466E-05	1655
125.0	.8	7107	3.063E-06	1.961E-05	1655
125.0	1.5	5612	2.419E-06	1.548E-05	1655
125.0	1.6	5666	2.443E-06	1.563E-05	1655
125.0	3.1	5457	2.352E-06	1.505E-05	1655
125.0	6.2	4997	2.154E-06	1.379E-05	1655
125.0	9.3	4782	2.061E-06	1.319E-05	1655
125.0	12.4	4440	1.914E-06	1.225E-05	1655
125.0	15.5	4617	1.990E-06	1.274E-05	1655
125.0	18.6	7467	3.219E-06	2.060E-05	1655
125.0	21.7	5535	2.386E-06	1.527E-05	1655
125.0	24.8	6716	2.679E-06	1.715E-05	1655
125.0	31.0	3122	1.346E-06	8.614E-06	1655
125.0	37.2	3442	1.484E-06	9.495E-06	1655
125.0	43.4	3377	1.456E-06	9.318E-06	1655
125.0	49.6	1293	5.577E-07	3.569E-06	1655
125.0	55.8	902	3.892E-07	2.491E-06	1655
125.0	62.0	138	5.983E-08	3.829E-07	1655

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
125.0	.2	55	9.195E-07	5.885E-06	1655
125.0	.4	55	9.195E-07	5.885E-06	1655
125.0	.8	42	7.040E-07	4.506E-06	1655
125.0	1.5	143	2.399E-06	1.536E-05	1655
125.0	1.6	45	7.615E-07	4.874E-06	1655
125.0	3.1	37	6.322E-07	4.046E-06	1655
125.0	6.2	200	3.348E-06	2.143E-05	1655
125.0	9.3	37	6.178E-07	3.954E-06	1655
125.0	12.4	58	6.466E-07	4.138E-06	1655
125.0	15.5	43	7.320E-07	4.690E-06	1655
125.0	18.6	42	7.040E-07	4.506E-06	1655
125.0	21.7	46	7.759E-07	4.966E-06	1655
125.0	24.8	41	6.897E-07	4.414E-06	1655
125.0	31.0	40	6.753E-07	4.322E-06	1655
125.0	37.2	37	6.322E-07	4.046E-06	1655
125.0	43.4	27	4.598E-07	2.943E-06	1655
125.0	49.6	19	3.218E-07	2.060E-06	1655
125.0	55.8	9	1.667E-07	1.067E-06	1655
125.0	62.0	1	3.017E-08	1.931E-07	1655

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
N 132.5	.2	0	0.	0.	1665

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
N 152.5	.2	0	0.	0.	1688

TOWER DATA FOLLOW....

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
3200M ARC U= 6.4 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM.M X10E+6	F/D SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
N 99.8	.2	0	0.	0.	3215

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM.M X10E+6	F/D SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
N 107.8	.2	0	0.	0.	3224

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM.M X10E+6	F/D SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
C 115.6	.2	4917	2.120E-06	1.357E-05	3241
C 115.6	.4	7019	3.026E-06	1.937E-05	3241
C 115.6	.8	6660	2.871E-06	1.837E-05	3241
C 115.6	1.5	7374	3.179E-06	2.034E-05	3241
C 115.6	1.6	7690	3.315E-06	2.122E-05	3241
C 115.6	3.1	6354	2.739E-06	1.753E-05	3241
C 115.6	6.2	7391	3.186E-06	2.039E-05	3241
C 115.6	9.3	4865	2.097E-06	1.342E-05	3241
C 115.6	12.4	3274	1.411E-06	9.032E-06	3241
C 115.6	15.5	4646	2.003E-06	1.282E-05	3241
Z 115.6	18.6	3987	1.717E-06	1.099E-05	3241
E 115.6	21.7	3853	1.661E-06	1.063E-05	3241
E 115.6	24.8	3700	1.595E-06	1.021E-05	3241
E 115.6	31.0	3220	1.388E-06	8.883E-06	3241
E 115.6	37.2	2786	1.201E-06	7.687E-06	3241
E 115.6	43.4	2042	8.805E-07	5.635E-06	3241
E 115.6	49.6	502	2.165E-07	1.386E-06	3241
E 115.6	55.8	98	4.232E-08	2.709E-07	3241
E 115.6	62.0	25	1.090E-08	6.974E-08	3241

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM.M X10E+6	F/D SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
123.4	.2	2471	1.065E-06	6.819E-06	3253
123.4	.4	3314	1.429E-06	9.144E-06	3253
123.4	.8	4426	1.908E-06	1.221E-05	3253
123.4	1.5	3883	1.674E-06	1.071E-05	3253
123.4	1.6	1818	7.837E-07	5.015E-06	3253
123.4	3.1	2538	1.094E-06	7.001E-06	3253
123.4	6.2	2970	1.280E-06	8.195E-06	3253
123.4	9.3	2450	1.056E-06	6.761E-06	3253
123.4	12.4	4453	1.920E-06	1.229E-05	3253
123.4	15.5	4699	2.026E-06	1.296E-05	3253
123.4	18.6	3728	1.607E-06	1.029E-05	3253
123.4	21.7	4002	1.725E-06	1.104E-05	3253
123.4	24.8	4024	1.735E-06	1.110E-05	3253
123.4	31.0	2862	1.234E-06	7.897E-06	3253
123.4	37.2	3260	1.405E-06	8.994E-06	3253
123.4	43.4	2274	9.805E-07	6.275E-06	3253
123.4	49.6	678	2.924E-07	1.871E-06	3253
123.4	55.8	663	2.862E-07	1.832E-06	3253
123.4	62.0	243	1.051E-07	6.724E-07	3253

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM.M X10E+6	F/D SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
N 131.2	.2	0	0.	0.	3264

TOWER DATA FOLLOW....

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST  
KHODAMINE B RELEASE FROM ELEVATION OF 26M  
3200M ARC U= 6.4 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM.M X10E+6	F/D SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
N 99.8	.2	0	0.	0.	3215

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM.M X10E+6	F/D SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
N 107.8	.2	0	0.	0.	3224

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM.M X10E+6	F/D SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
C 115.6	.2	111	1.865E-06	1.194E-05	3241
C 115.6	.4	113	1.884E-06	1.206E-05	3241
C 115.6	.8	90	1.514E-06	9.689E-06	3241
C 115.6	1.5	275	4.587E-06	2.930E-05	3241
C 115.6	1.6	123	2.053E-06	1.314E-05	3241
C 115.6	3.1	115	1.823E-06	1.231E-05	3241
C 115.6	6.2	123	2.053E-06	1.314E-05	3241
C 115.6	9.3	38	1.475E-06	9.440E-06	3241
C 115.6	12.4	42	7.147E-07	4.574E-06	3241
C 115.6	15.5	107	1.787E-06	1.144E-05	3241
S 115.6	18.6	74	1.241E-06	7.943E-06	3241
C 115.6	21.7	2	4.800E-08	3.077E-07	3241
C 115.6	24.8	4	7.147E-08	4.574E-07	3241
C 115.6	31.0	0	9.747E-09	6.238E-08	3241
C 115.6	37.2	1	2.599E-08	1.663E-07	3241
C 115.6	43.4	26	4.353E-07	2.786E-06	3241
C 115.6	49.6	9	1.592E-07	1.019E-06	3241
C 115.6	55.8	1	2.469E-08	1.560E-07	3241
C 115.6	62.0	0	0.	0.	3241

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM.M X10E+6	F/D SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
123.4	.2	21	3.574E-07	2.287E-06	3253
123.4	.4	18	5.119E-07	1.996E-06	3253
123.4	.8	19	3.184E-07	2.038E-06	3253
123.4	1.5	69	1.163E-06	7.444E-06	3253
123.4	1.6	21	5.639E-07	2.329E-06	3253
123.4	3.1	17	2.859E-07	1.830E-06	3253
123.4	6.2	27	4.546E-07	2.911E-06	3253
123.4	9.3	20	3.379E-07	2.162E-06	3253
123.4	12.4	27	4.613E-07	2.953E-06	3253
123.4	15.5	24	4.094E-07	2.620E-06	3253
123.4	18.6	26	4.483E-07	2.869E-06	3253
123.4	21.7	30	5.068E-07	3.244E-06	3253
123.4	24.8	32	5.458E-07	3.493E-06	3253
123.4	31.0	30	5.133E-07	3.285E-06	3253
123.4	37.2	29	4.934E-07	3.166E-06	3253
123.4	43.4	23	3.874E-07	2.454E-06	3253
123.4	49.6	20	3.444E-07	2.204E-06	3253
123.4	55.8	11	1.884E-07	1.206E-06	3253
123.4	62.0	6	1.066E-07	6.820E-07	3253

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM.M X10E+6	F/D SEC/CM.M	EU/Q 1/SQ.M	DISTANCE METERS
N 131.2	.2	0	0.	0.	3264

KRYPTON-85 SAMPLING AT 200M, 800M AND 1600M ONLY; LOWER SAMPLING AT 200M AND 800M ONLY. BOTH 200M AND 800M "GROUND-LEVEL" ARCS ENRACE CROSSWIND EXTENT OF TRACK (AS DOES 1600M ARC AFTER MODEST EXTRAPOLATION). THREE MIDDLE TOWERS AT BOTH 200M AND 800M INTERCEPT TRACK; PEAK CONCENTRATION SAMPLED, BUT TRUNCATION AT TOP.

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 26M  
 200M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE CI-SEC/CU.M X10E+7	E/W SEC/CU.M	LU/Q 1/SQ.M	DISTANCE METERS
104.0	67	3.620E-07	2.317E-06	200
106.0	69	3.718E-07	2.380E-06	200
108.0	49	2.642E-07	1.691E-06	200
110.0	251	1.350E-06	8.642E-06	200
112.0	360	1.937E-06	1.240E-05	200
114.0	470	2.260E-06	1.447E-05	200
116.0	425	2.290E-06	1.465E-05	200
118.0	293	1.575E-06	1.004E-05	200
120.0	387	2.084E-06	1.334E-05	200
122.0	416	2.241E-06	1.434E-05	200
124.0	214	1.155E-06	7.390E-06	200
126.0	83	4.501E-07	2.881E-06	200
128.0	178	9.589E-07	6.137E-06	200
130.0	29	1.566E-07	1.002E-06	200

CROSSWIND INTEGRATED= 1.219E-04 7.800E-04  
 SEC/SQ.M 1/M

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 26M  
 800M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE CI-SEC/CU.M X10E+7	E/W SEC/CU.M	LU/Q 1/SQ.M	DISTANCE METERS
106.9	41	2.251E-07	1.440E-06	823
108.8	43	2.348E-07	1.503E-06	826
110.7	129	6.947E-07	4.446E-06	829
112.6	940	5.059E-06	3.238E-05	833
114.5	1630	8.767E-06	5.611E-05	836
E 116.4	1956	1.052E-05	6.732E-05	839
118.3	2145	1.154E-05	7.383E-05	842
120.2	1854	9.971E-06	6.381E-05	845
122.1	1468	7.896E-06	5.054E-05	848
124.0	1450	7.799E-06	4.991E-05	851
125.8	831	4.472E-06	2.862E-05	854
127.7	178	9.589E-07	6.137E-06	857
129.5	58	3.131E-07	2.004E-06	859
131.4	50	2.740E-07	1.753E-06	862
133.2	10	5.871E-08	3.757E-07	865

CROSSWIND INTEGRATED= 1.913E-03 1.224E-02  
 SEC/SQ.M 1/M

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 26M  
 1600M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE CI-SEC/CU.M X10E+7	E/W SEC/CU.M	LU/Q 1/SQ.M	DISTANCE METERS
110.4	3	1.957E-08	1.252E-07	1632
111.4	71	4.110E-07	2.630E-06	1633
112.4	103	5.577E-07	3.570E-06	1635
113.4	376	2.025E-06	1.296E-05	1637
114.4	980	5.274E-06	3.375E-05	1638
115.3	1082	5.822E-06	3.726E-05	1640
116.3	1730	9.305E-06	5.956E-05	1641
117.3	1863	1.002E-05	6.415E-05	1643
118.2	1663	8.943E-06	5.724E-05	1644
E 119.2	1394	7.495E-06	4.797E-05	1646
120.2	1168	6.282E-06	4.020E-05	1647
121.2	1128	6.067E-06	3.883E-05	1649
122.1	1215	6.536E-06	4.183E-05	1650
123.1	1368	7.359E-06	4.709E-05	1652
124.1	757	4.071E-06	2.605E-05	1653
125.0	618	3.527E-06	2.129E-05	1655
E 126.0	305	1.644E-06	1.052E-05	1656
F 126.9	161	8.709E-07	5.574E-06	1658
E 127.8	56	3.033E-07	1.941E-06	1659
E 128.8	23	1.272E-07	8.141E-07	1660

CROSSWIND INTEGRATED= 2.406E-03 1.540E-02  
 SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PSI  
 KRYPTON-85 RELEASE FROM ELEVATION OF 20M  
 200M ARC U= 6.4 M/SEC AT 20M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM <sup>2</sup> X10E+7	F/D SEC/CM <sup>2</sup>	EU/D 1/SQ.M	DISTANCE METERS
N 102.0	1.5	0	0.	0.	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM <sup>2</sup> X10E+7	F/D SEC/CM <sup>2</sup>	EU/D 1/SQ.M	DISTANCE METERS
110.0	1.5	251	1.350E-06	8.642E-06	200
110.0	4.0	100	5.342E-07	3.444E-06	200
110.0	7.0	161	9.765E-07	6.262E-06	200
110.0	13.0	1019	5.480E-06	3.507E-05	200
110.0	19.0	1654	8.895E-06	5.692E-05	200
110.0	25.0	1628	8.756E-06	5.605E-05	200
110.0	32.8	331	1.781E-06	1.140E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM <sup>2</sup> X10E+7	F/D SEC/CM <sup>2</sup>	EU/D 1/SQ.M	DISTANCE METERS
118.0	1.5	293	1.575E-06	1.008E-05	200
118.0	4.0	283	1.526E-06	9.769E-06	200
118.0	7.0	1077	5.793E-06	3.707E-05	200
118.0	13.0	4531	2.430E-05	1.559E-04	200
118.0	19.0	16079	8.056E-05	5.540E-04	200
118.0	25.0	21475	1.155E-04	7.390E-04	200
118.0	32.8	13826	7.423E-05	4.751E-04	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM <sup>2</sup> X10E+7	F/D SEC/CM <sup>2</sup>	EU/D 1/SQ.M	DISTANCE METERS
126.0	1.5	83	4.501E-07	2.881E-06	200
126.0	4.0	256	1.389E-06	8.893E-06	200
126.0	7.0	555	2.984E-06	1.910E-05	200
126.0	13.0	1980	1.065E-05	6.813E-05	200
126.0	19.0	5079	2.731E-05	1.748E-04	200
126.0	25.0	7704	4.142E-05	2.651E-04	200
L 126.0	32.8	0	0.	0.	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM <sup>2</sup> X10E+7	F/D SEC/CM <sup>2</sup>	EU/D 1/SQ.M	DISTANCE METERS
N 136.0	1.5	0	0.	0.	200

TOWER DATA FOLLOW....

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 20M  
 WIND ARC U = 6.4 M/SEC AT 20M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CU.M X10E+7	F/U SEC/CU.M	EU/W 1/SQ.M	DISTANCE METERS
N 105.0	1.5	0	0.	0.	820

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CU.M X10E+7	F/U SEC/CU.M	EU/W 1/SQ.M	DISTANCE METERS
112.6	1.5	940	5.059E-06	3.238E-05	833
112.6	5.0	638	3.435E-06	2.198E-05	833
112.6	12.0	677	3.640E-06	2.330E-05	833
112.6	19.0	411	2.211E-06	1.415E-05	833
112.6	26.0	376	2.025E-06	1.296E-05	833
112.6	34.0	123	6.654E-07	4.258E-06	833
112.6	42.0	72	3.914E-07	2.505E-06	833

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CU.M X10E+7	F/U SEC/CU.M	EU/W 1/SQ.M	DISTANCE METERS
120.2	1.5	1854	9.971E-06	6.381E-05	845
120.2	5.0	1412	7.593E-06	4.860E-05	845
120.2	12.0	1845	9.922E-06	6.350E-05	845
120.2	19.0	1949	1.048E-05	6.707E-05	845
120.2	26.0	2154	1.159E-05	7.415E-05	845
120.2	34.0	1679	9.032E-06	5.780E-05	845
120.2	42.0	1334	7.172E-06	4.590E-05	845

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CU.M X10E+7	F/U SEC/CU.M	EU/W 1/SQ.M	DISTANCE METERS
127.7	1.5	170	9.589E-07	6.137E-06	857
127.7	5.0	90	4.892E-07	3.131E-06	857
127.7	12.0	211	1.135E-06	7.264E-06	857
127.7	19.0	171	1.198E-07	5.887E-06	857
127.7	26.0	181	9.745E-07	6.262E-06	857
127.7	34.0	125	6.752E-07	4.321E-06	857
127.7	42.0	74	4.012E-07	2.568E-06	857

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CU.M X10E+7	F/U SEC/CU.M	EU/W 1/SQ.M	DISTANCE METERS
N 135.0	1.5	0	0.	0.	867



**ZINC SULFIDE**

GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. AFTER MODEST EXTRAPOLATION OF ZNS TO SOUTH, ALL ARCS EMBRACE THE CROSSWIND EXTENT OF THIS TRACER. EIGHTEEN OF TWENTY TOWERS "HIT" IN THIS TEST DURING UNSTABLE CONDITIONS, BUT ALL DISTRIBUTIONS TRUNCATED AT TOPS OF TOWERS. MUST UNSTABLE CONDITIONS OF THIS FIELD SERIES.

**KRYPTON-85**

ALTHOUGH SAMPLING AT 200, 800 AND 1600M, DIFFUSION WAS SO GREAT THAT KRYPTON DETECTED WITH CONFIDENCE ONLY AT 200M. ALL 5 TOWERS AT 200M HIT BY TRACER BUT TRUNCATED BADLY AT TOP IN ALL CASES. GROUND LEVEL SAMPLING ALSO TRUNCATED AT SOUTH. ESTIMATE AT 122 DEG BASED ON SIMILARITY BETWEEN ZNS AND KRYPTON CROSSWIND DISTRIBUTIONS.

TEST V7 SEPTEMBER 25, 1973 1201 TO 1231 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
200M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
DEGREES GM-SEC/CM<sup>2</sup> SFC/CM<sup>2</sup> 1/SQ.M METERS  
X10E+6

90.0	0	0.	0.	200
92.0	5	2.585E-09	1.086E-08	200
94.0	11	5.170E-09	2.171E-08	200
96.0	818	3.606E-07	1.514E-06	200
98.0	1192	5.251E-07	2.206E-06	200
5 100.0	62	2.757E-08	1.158E-07	200
102.0	2266	9.986E-07	4.194E-06	200
104.0	3463	1.526E-06	6.409E-06	200
106.0	4158	1.832E-06	7.693E-06	200
F 108.0	8118	3.576E-06	1.502E-05	200
110.0	7034	3.099E-06	1.301E-05	200
112.0	16989	7.484E-06	3.143E-05	200
114.0	17888	7.881E-06	3.310E-05	200
116.0	12575	5.540E-06	2.327E-05	200
4 118.0	14006	6.170E-06	2.592E-05	200
120.0	16203	7.138E-06	2.998E-05	200
122.0	23736	1.046E-05	4.392E-05	200
124.0	9217	4.061E-06	1.705E-05	200
126.0	3303	1.455E-06	6.112E-06	200
128.0	4650	2.049E-06	8.605E-06	200
130.0	22664	9.985E-06	4.194E-05	200
132.0	10779	4.749E-06	1.994E-05	200
134.0	33370	1.470E-05	6.174E-05	200
136.0	36214	1.595E-05	6.701E-05	200
138.0	44236	1.949E-05	8.185E-05	200
140.0	27947	1.231E-05	5.171E-05	200
142.0	31644	1.403E-05	5.892E-05	200
144.0	22852	1.007E-05	4.228E-05	200
146.0	18667	8.223E-06	3.454E-05	200
148.0	20716	9.126E-06	3.833E-05	200
150.0	23495	1.035E-05	4.347E-05	200
152.0	30344	1.337E-05	5.614E-05	200
154.0	17525	7.720E-06	3.243E-05	200
156.0	13810	6.084E-06	2.555E-05	200
158.0	16108	7.096E-06	2.980E-05	200
160.0	16924	7.456E-06	3.131E-05	200
E 162.0	9581	4.221E-06	1.773E-05	200
E 164.0	5376	2.369E-06	9.948E-06	200
E 166.0	3518	1.550E-06	6.510E-06	200
E 168.0	2345	1.033E-06	4.339E-06	200
E 170.0	1367	6.023E-07	2.529E-06	200
E 172.0	682	3.007E-07	1.263E-06	200
E 174.0	330	1.456E-07	6.116E-07	200
E 176.0	19	8.616E-09	3.619E-08	200
E 178.0	0	0.	0.	200

CROSSWIND INTEGRATED= 1.711E-03 7.187E-03  
SEC/SQ.M 1/M

TEST V7 SEPTEMBER 25, 1973 1201 TO 1231 PST  
KRYPTON-85 RELEASE FROM ELEVATION OF 26M  
200M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

AZIMUTH EXPOSURE E/Q EU/Q DISTANCE  
DEGREES CI-SEC/CM<sup>2</sup> SEC/CM<sup>2</sup> 1/SQ.M METERS  
X10E+7

94.0	16	8.806E-08	3.699E-07	200
96.0	101	5.460E-07	2.301E-06	200
98.0	32	1.761E-07	7.397E-07	200
100.0	0	0.	0.	200
102.0	118	6.360E-07	2.671E-06	200
104.0	225	1.219E-06	5.096E-06	200
106.0	276	1.487E-06	6.247E-06	200
108.0	607	3.268E-06	1.373E-05	200
110.0	589	3.170E-06	1.332E-05	200
112.0	1435	7.720E-06	3.243E-05	200
114.0	1383	7.437E-06	3.123E-05	200
116.0	1233	6.634E-06	2.786E-05	200
118.0	840	4.521E-06	1.899E-05	200
120.0	1355	7.290E-06	3.062E-05	200
F 122.0	1546	8.317E-06	3.493E-05	200
124.0	516	2.779E-06	1.167E-05	200
126.0	360	1.937E-06	8.137E-06	200
128.0	1088	5.851E-06	2.458E-05	200
130.0	1150	6.184E-06	2.597E-05	200
132.0	1834	9.863E-06	4.143E-05	200
134.0	2420	1.391E-05	5.466E-05	200
136.0	3632	1.953E-05	8.203E-05	200
138.0	3787	2.036E-05	8.552E-05	200
140.0	2145	1.154E-05	4.845E-05	200
142.0	3381	1.818E-05	7.636E-05	200
144.0	2475	1.331E-05	5.589E-05	200
146.0	1659	8.924E-06	3.748E-05	200
B 148.0	2029	1.091E-05	4.582E-05	200

CROSSWIND INTEGRATED= 1.361E-03 5.714E-03  
SEC/SQ.M 1/M

TEST V7 SEPTEMBER 25, 1973 1201 TU 1231 PST  
 ZINC SULFIDE RELEASE FROM ELLEVATION OF 26M  
 400M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	E/O SFC/CM <sup>2</sup>	EU/O 1/SQ.M	DISTANCE METERS
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86.0	0	0.	0.	400
90.0	5	2.279E-09	9.570E-09	400
94.0	J	0.	0.	400
98.0	717	3.162E-07	1.328E-06	400
102.0	311	1.372E-07	5.762E-07	400
106.0	203	8.968E-08	3.766E-07	400
110.0	2883	1.270E-06	5.335E-06	400
114.0	3077	1.356E-06	5.694E-06	400
118.0	4474	1.971E-06	8.279E-06	400
122.0	4014	1.768E-06	7.427E-06	400
126.0	2268	9.995E-07	4.198E-06	400
130.0	3544	1.561E-06	6.558E-06	400
134.0	4502	1.984E-06	8.331E-06	400
138.0	8364	3.685E-06	1.548E-05	400
142.0	6009	2.647E-06	1.112E-05	400
146.0	11546	5.086E-06	2.136E-05	400
150.0	4791	2.111E-06	8.865E-06	400
154.0	6272	2.763E-06	1.160E-05	400
E 158.0	4174	1.839E-06	7.723E-06	400
E 162.0	1695	7.467E-07	3.136E-06	400
E 166.0	498	2.194E-07	9.215E-07	400
E 170.0	0	0.	0.	400

CROSSWIND INTEGRATED= 4.532E-04 3.583E-03  
 SEC/SQ.M 1/M

TEST V7 SEPTEMBER 25, 1973 1201 TU 1231 PST  
 ZINC SULFIDE RELEASE FROM ELLEVATION OF 26M  
 800M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	E/O SEC/CM <sup>2</sup>	EU/O 1/SQ.M	DISTANCE METERS
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95.1	0	0.	0.	802
97.1	9	4.167E-09	1.750E-08	806
99.1	65	2.875E-08	1.208E-07	809
101.1	114	5.042E-08	2.118E-07	813
103.0	283	1.250E-07	5.251E-07	816
105.0	355	1.567E-07	6.581E-07	820
106.9	525	2.317E-07	9.731E-07	823
108.8	538	2.371E-07	9.959E-07	826
110.7	638	2.813E-07	1.181E-06	829
112.6	1259	5.547E-07	2.330E-06	833
114.5	935	4.121E-07	1.731E-06	836
116.4	540	2.379E-07	9.994E-07	839
118.3	1974	8.697E-07	3.653E-06	842
120.2	1611	7.101E-07	2.982E-06	845
122.1	769	3.388E-07	1.423E-06	848
124.0	336	1.484E-07	6.231E-07	851
125.8	477	2.104E-07	8.839E-07	854
127.7	519	2.288E-07	9.609E-07	857
129.5	999	4.405E-07	1.850E-06	859
131.4	871	3.838E-07	1.612E-06	862
133.2	1110	4.892E-07	2.055E-06	865
135.0	1479	6.517E-07	2.737E-06	867
136.8	1597	7.038E-07	2.956E-06	869
138.7	1090	4.805E-07	2.018E-06	872
140.6	1611	7.101E-07	2.982E-06	874
142.4	1788	7.880E-07	3.310E-06	876
144.2	2021	8.905E-07	3.740E-06	878
146.0	903	3.980E-07	1.671E-06	880
147.8	1546	6.813E-07	2.862E-06	882
149.6	2331	1.027E-06	4.314E-06	884
151.4	1809	7.972E-07	3.348E-06	886
153.2	1244	5.484E-07	2.303E-06	887
155.0	935	4.121E-07	1.731E-06	889
156.8	855	3.767E-07	1.582E-06	890
158.6	585	2.579E-07	1.083E-06	892
160.4	16	7.084E-09	2.975E-08	893
162.2	13	5.834E-09	2.450E-08	894
E 164.0	9	4.167E-09	1.750E-08	895
E 166.0	0	0.	0.	896

CROSSWIND INTEGRATED= 4.135E-04 1.737E-03  
 SEC/SQ.M 1/M

TEST V7 SEPTEMBER 25, 1973 1201 TU 1231 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 1200M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
100.0	0	0.	0.	1200
102.0	9	4.375E-09	1.837E-08	1200
E 104.0	29	1.312E-08	5.512E-08	1200
E 106.0	62	2.739E-08	1.150E-07	1200
108.0	104	4.622E-08	1.941E-07	1200
110.0	153	6.781E-08	2.848E-07	1200
112.0	228	1.008E-07	4.234E-07	1200
114.0	288	1.271E-07	5.336E-07	1200
116.0	253	1.116E-07	4.689E-07	1200
118.0	325	1.435E-07	6.027E-07	1200
120.0	206	9.092E-08	3.618E-07	1200
122.0	124	5.487E-08	2.305E-07	1200
124.0	112	4.945E-08	2.077E-07	1200
126.0	107	4.726E-08	1.985E-07	1200
128.0	183	8.193E-08	3.493E-07	1200
130.0	355	1.567E-07	6.582E-07	1200
132.0	261	1.153E-07	4.841E-07	1200
134.0	322	1.423E-07	5.975E-07	1200
136.0	258	1.137E-07	4.777E-07	1200
138.0	452	1.992E-07	8.368E-07	1200
140.0	601	2.649E-07	1.112E-06	1200
142.0	338	1.491E-07	6.263E-07	1200
144.0	287	1.266E-07	5.316E-07	1200
146.0	206	9.101E-08	3.622E-07	1200
148.0	195	8.597E-08	3.611E-07	1200
150.0	264	1.165E-07	4.893E-07	1200
152.0	677	2.984E-07	1.253E-06	1200
154.0	476	2.100E-07	8.819E-07	1200
E 156.0	139	6.162E-08	2.588E-07	1200
E 158.0	55	2.454E-08	1.031E-07	1200
E 160.0	23	1.027E-08	4.314E-08	1200
E 162.0	0	0.	0.	1200

CROSSWIND INTEGRATED= 1.312E-04 5.509E-04  
 SEC/SQ.M 1/M

TEST V7 SEPTEMBER 25, 1973 1201 TU 1231 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 1600M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/O SEC/CU.M	EU/O 1/SQ.M	DISTANCE METERS
104.5	0	3.178E-10	1.335E-09	1622
105.5	18	8.263E-09	3.470E-08	1623
106.5	67	2.987E-08	1.255E-07	1625
107.5	32	1.430E-08	6.007E-08	1627
108.5	88	3.877E-08	1.628E-07	1628
109.5	98	4.322E-08	1.815E-07	1630
110.4	66	2.924E-08	1.220E-07	1632
111.4	91	4.036E-08	1.695E-07	1633
112.4	163	7.182E-08	3.017E-07	1635
113.4	114	5.053E-08	2.122E-07	1637
114.4	198	8.740E-08	3.671E-07	1638
115.3	187	8.263E-08	3.470E-07	1640
116.3	222	9.709E-08	4.111E-07	1641
117.3	108	4.799E-08	2.016E-07	1643
118.2	58	2.574E-08	1.091E-07	1644
119.2	54	2.384E-08	1.001E-07	1645
120.2	63	2.797E-08	1.175E-07	1647
121.2	23	1.019E-08	4.271E-08	1649
122.1	111	4.894E-08	2.056E-07	1650
123.1	137	6.070E-08	2.549E-07	1652
124.1	140	6.197E-08	2.603E-07	1653
125.0	74	3.273E-08	1.375E-07	1655
126.0	199	8.771E-08	3.684E-07	1656
126.9	116	5.117E-08	2.149E-07	1658
127.8	41	1.843E-08	7.742E-08	1659
128.8	103	4.545E-08	1.909E-07	1660
129.7	69	3.051E-08	1.281E-07	1662
130.6	80	3.524E-08	1.482E-07	1663
131.5	126	5.562E-08	2.336E-07	1664
132.5	113	5.021E-08	2.109E-07	1665
133.5	166	7.341E-08	3.083E-07	1667
134.4	121	5.371E-08	2.256E-07	1668

135.4	242	1.068E-07	4.485E-07	1669
136.4	114	5.053E-08	2.122E-07	1670
137.3	119	5.244E-08	2.202E-07	1672
138.3	94	4.163E-08	1.749E-07	1673
139.3	129	5.721E-08	2.403E-07	1674
140.2	106	4.672E-08	1.962E-07	1675
141.2	305	1.347E-07	5.659E-07	1676
142.2	230	1.017E-07	4.271E-07	1677
143.1	357	1.576E-07	6.621E-07	1678
144.1	156	6.896E-08	2.896E-07	1679
145.1	310	1.367E-07	5.740E-07	1680
146.0	243	1.071E-07	4.498E-07	1681
146.9	124	5.466E-08	2.296E-07	1682
147.9	247	1.090E-07	4.578E-07	1683
148.8	113	5.021E-08	2.109E-07	1684
149.7	138	6.102E-08	2.563E-07	1685
150.7	145	6.388E-08	2.683E-07	1686
151.6	106	4.672E-08	1.962E-07	1687
152.6	183	8.104E-08	3.404E-07	1688
153.5	77	3.432E-08	1.442E-07	1688
154.5	54	2.384E-08	1.001E-07	1689
155.4	55	2.447E-08	1.028E-07	1690
E 156.0	24	1.081E-08	4.534E-08	1690
F 157.0	14	6.356E-09	2.670E-08	1691
E 158.0	5	2.542E-09	1.068E-08	1692
E 159.0	0	0.	0.	1692

CROSSWIND INTEGRATED= 8.533E-05 3.584E-04  
SEC/SQ.H 1/M

TEST V7 SEPTEMBER 25, 1973 1201 TO 1231 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
3200M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
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107.8	0	0.	0.	3229
108.8	2	1.287E-09	5.405E-09	3230
109.7	9	4.021E-09	1.689E-08	3232
110.7	8	3.700E-09	1.554E-08	3233
111.7	16	7.399E-09	3.108E-08	3235
112.7	10	4.504E-09	1.892E-08	3237
113.7	12	5.308E-09	2.229E-08	3238
114.6	23	1.024E-08	4.324E-08	3240
115.6	37	1.641E-08	6.891E-08	3241
116.6	25	1.142E-08	4.797E-08	3243
117.6	10	4.826E-09	2.027E-08	3245
118.6	20	8.847E-09	3.716E-08	3246
119.5	14	6.595E-09	2.770E-08	3248
120.5	48	2.123E-08	8.918E-08	3249
121.5	25	1.142E-08	4.797E-08	3251
122.4	29	1.287E-08	5.405E-08	3252
123.4	8	3.866E-09	1.621E-08	3253
124.4	13	5.951E-09	2.500E-08	3255
125.4	28	1.174E-08	4.932E-08	3256
126.3	35	1.560E-08	6.553E-08	3258
127.3	35	1.576E-08	6.621E-08	3259
128.3	46	2.043E-08	8.530E-08	3261
129.3	46	2.059E-08	8.647E-08	3262
130.3	47	2.075E-08	8.715E-08	3263
131.2	42	1.866E-08	7.837E-08	3264
132.2	18	8.043E-09	3.378E-08	3266
133.2	37	1.657E-08	6.958E-08	3267
134.2	9	4.182E-09	1.756E-08	3268
135.2	17	7.560E-09	3.175E-08	3270
136.2	10	4.665E-09	1.959E-08	3271
137.1	4	1.769E-09	7.431E-09	3272
138.1	4	1.769E-09	7.431E-09	3273
139.1	1	8.043E-10	3.378E-09	3274
140.1	0	3.217E-10	1.351E-09	3276
141.1	3	1.448E-09	6.080E-09	3277
142.0	0	3.217E-10	1.351E-09	3278
143.0	7	3.378E-09	1.419E-08	3279
144.0	4	2.091E-09	8.782E-09	3280
145.0	0	0.	0.	3281
146.0	1	6.434E-10	2.702E-09	3282
146.9	0	1.609E-10	6.756E-10	3283
147.9	1	6.434E-10	2.702E-09	3284

CROSSWIND INTEGRATED= 1.767E-05 7.421E-05  
SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST V7 SEPTEMBER 25, 1973 1201 TO 1231 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
200M ARC U= 4.2 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/W 1/50.M	DISTANCE METERS
U 102.0	.4	1643	7.242E-07	3.041E-06	200
9 102.0	.8	1733	7.637E-07	3.207E-06	200
102.0	1.5	2266	9.986E-07	4.194E-06	200
102.0	2.5	1329	5.858E-07	2.461E-06	200
102.0	4.0	2079	9.161E-07	3.847E-06	200
102.0	5.5	810	3.573E-07	1.500E-06	200
102.0	7.0	1690	7.446E-07	3.128E-06	200
102.0	8.5	1518	6.687E-07	2.809E-06	200
102.0	10.0	1195	5.260E-07	2.213E-06	200
102.0	13.0	1832	8.071E-07	3.390E-06	200
102.0	16.0	7509	3.308E-06	1.389E-05	200
102.0	19.0	11724	5.165E-06	2.169E-05	200
102.0	22.0	10431	4.595E-06	1.930E-05	200
102.0	25.0	8430	3.714E-06	1.566E-05	200
102.0	28.0	7392	3.256E-06	1.368E-05	200
102.0	31.0	6296	2.774E-06	1.165E-05	200
102.0	32.8	6823	3.006E-06	1.263E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	E/Q SEC/CM	EU/W 1/50.M	DISTANCE METERS
110.0	.4	3783	1.667E-06	7.000E-06	200
110.0	.8	6668	2.937E-06	1.234E-05	200
110.0	1.5	8118	3.576E-06	1.502E-05	200
110.0	2.5	5355	2.359E-06	9.909E-06	200
110.0	4.0	7875	3.469E-06	1.457E-05	200
110.0	5.5	5415	2.386E-06	1.002E-05	200
110.0	7.0	9488	4.180E-06	1.756E-05	200
110.0	8.5	13024	5.738E-06	2.410E-05	200
110.0	10.0	12467	5.492E-06	2.307E-05	200
110.0	13.0	11848	5.270E-06	2.192E-05	200
110.0	16.0	15820	6.969E-06	2.927E-05	200
S 110.0	19.0	9774	4.306E-06	1.808E-05	200
110.0	22.0	13187	5.809E-06	2.440E-05	200
110.0	25.0	9093	4.006E-06	1.682E-05	200
110.0	28.0	14640	6.445E-06	2.709E-05	200
110.0	31.0	10830	4.771E-06	2.004E-05	200
S 110.0	32.8	7956	3.241E-06	1.361E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/Q SEC/CM	EU/W 1/50.M	DISTANCE METERS
O 118.0	.4	14866	6.549E-06	2.751E-05	200
O 118.0	.8	14653	6.455E-06	2.711E-05	200
W 118.0	1.5	14006	6.170E-06	2.592E-05	200
W 118.0	2.5	12095	5.324E-06	2.238E-05	200
E 118.0	4.0	14961	6.591E-06	2.768E-05	200
W 118.0	5.5	16668	8.224E-06	3.454E-05	200
K 118.0	7.0	27893	1.229E-05	5.161E-05	200
K 118.0	8.5	28025	1.237E-05	5.196E-05	200
W 118.0	10.0	21558	9.497E-06	3.989E-05	200
118.0	13.0	30264	1.334E-05	5.603E-05	200
118.0	16.0	30252	1.333E-05	5.597E-05	200
118.0	19.0	31481	1.387E-05	5.825E-05	200
118.0	22.0	28830	1.270E-05	5.334E-05	200
118.0	25.0	19247	8.479E-06	3.561E-05	200
118.0	28.0	16811	7.406E-06	3.111E-05	200
118.0	31.0	17139	7.550E-06	3.171E-05	200
S 118.0	32.8	9716	4.281E-06	1.799E-05	200

TOWER DATA FOLLOW....

TEST V7 SEPTEMBER 25, 1973 1201 TO 1231 PST  
KRYPTON-85 RELEASE FROM ELEVATION OF 26M  
200M ARC U= 4.2 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10E+7	F/Q SEC/CM	EU/W 1/50.M	DISTANCE METERS
102.0	1.5	118	6.360E-07	2.671E-06	200
102.0	4.0	145	7.878E-07	3.288E-06	200
102.0	7.0	176	9.589E-07	4.027E-06	200
102.0	13.0	114	6.165E-07	2.589E-06	200
102.0	19.0	447	2.407E-06	1.011E-05	200
102.0	25.0	586	3.151E-06	1.323E-05	200
102.0	32.8	489	2.632E-06	1.106E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10E+7	F/Q SEC/CM	EU/W 1/50.M	DISTANCE METERS
110.0	1.5	599	3.170E-06	1.332E-05	200
110.0	4.0	569	3.061E-06	1.266E-05	200
110.0	7.0	498	2.681E-06	1.126E-05	200
110.0	13.0	966	5.196E-06	2.186E-05	200
110.0	19.0	928	4.990E-06	2.096E-05	200
110.0	25.0	686	3.699E-06	1.549E-05	200
110.0	32.8	946	5.088E-06	2.137E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CM X10E+7	F/Q SEC/CM	EU/W 1/50.M	DISTANCE METERS
118.0	1.5	840	4.521E-06	1.899E-05	200
118.0	4.0	720	3.875E-06	1.627E-05	200
118.0	7.0	1474	7.976E-06	3.329E-05	200
118.0	13.0	1512	8.131E-06	3.415E-05	200
118.0	19.0	1754	9.438E-06	3.962E-05	200
118.0	25.0	988	5.313E-06	2.232E-05	200
118.0	32.8	1161	6.350E-06	2.667E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/O SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
9 126.0	.4	3356	1.479E-06	6.210E-06	200
9 126.0	.6	4514	1.989E-06	8.353E-06	200
126.0	1.5	3303	1.455E-06	6.112E-06	200
126.0	2.5	5134	2.262E-06	9.500E-06	200
126.0	4.0	9264	4.081E-06	1.714E-05	200
126.0	5.5	7317	3.223E-06	1.354E-05	200
126.0	7.0	16841	7.419E-06	3.116E-05	200
126.0	8.5	11893	5.239E-06	2.201E-05	200
126.0	10.0	13441	5.921E-06	2.487E-05	200
126.0	13.0	14575	6.421E-06	2.697E-05	200
126.0	16.0	15655	6.897E-06	2.897E-05	200
126.0	19.0	12143	5.350E-06	2.247E-05	200
126.0	22.0	10124	4.460E-06	1.873E-05	200
126.0	25.0	13656	6.016E-06	2.527E-05	200
126.0	28.0	9184	4.046E-06	1.699E-05	200
126.0	31.0	9876	4.351E-06	1.827E-05	200
126.0	32.8	11443	5.041E-06	2.117E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CU.M X10E+7	F/O SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
126.0	1.5	360	1.937E-06	8.137E-06	200
126.0	4.0	602	3.239E-06	1.360E-05	200
126.0	7.0	1192	6.409E-06	2.692E-05	200
126.0	13.0	1328	7.143E-06	3.000E-05	200
126.0	19.0	988	5.313E-06	2.232E-05	200
126.0	25.0	829	4.462E-06	1.874E-05	200
L 126.0	32.8	0	0.	0.	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/O SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
134.0	.4	28533	1.257E-05	5.279E-05	200
134.0	.8	27976	1.232E-05	5.176E-05	200
134.0	1.5	33370	1.470E-05	6.174E-05	200
134.0	2.5	33071	1.457E-05	6.119E-05	200
134.0	4.0	37028	1.631E-05	6.851E-05	200
134.0	5.5	43528	1.918E-05	8.054E-05	200
134.0	7.0	47928	2.111E-05	8.868E-05	200
134.0	8.5	45233	1.993E-05	8.369E-05	200
134.0	10.0	34118	1.503E-05	6.313E-05	200
134.0	13.0	35818	1.578E-05	6.627E-05	200
134.0	16.0	28840	1.271E-05	5.336E-05	200
134.0	19.0	23442	1.033E-05	4.337E-05	200
S 134.0	22.0	21756	9.585E-06	4.026E-05	200
134.0	25.0	27062	1.192E-05	5.007E-05	200
134.0	28.0	19466	8.575E-06	3.602E-05	200
134.0	31.0	27094	1.194E-05	5.013E-05	200
134.0	32.8	23192	1.022E-05	4.291E-05	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE CI-SEC/CU.M X10E+7	F/O SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
134.0	1.5	2420	1.301E-05	5.466E-05	200
134.0	4.0	2744	1.476E-05	6.197E-05	200
134.0	7.0	3159	1.699E-05	7.134E-05	200
134.0	13.0	2063	1.110E-05	4.660E-05	200
134.0	19.0	1648	8.865E-06	3.723E-05	200
134.0	25.0	1759	9.462E-06	3.974E-05	200
134.0	32.8	1759	9.462E-06	3.974E-05	200

TOWER DATA FOLLOW....

TEST V7 SEPTEMBER 25, 1973 1201 TO 1231 PST  
 ZINC SULFIDE RELEASE FROM ELFVATION OF 26M  
 800M ARC U= 4.2 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/O SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
105.0	.3	455	2.005E-07	8.422E-07	820
105.0	.5	239	1.054E-07	4.428E-07	820
105.0	1.1	258	1.139E-07	4.785E-07	820
105.0	1.5	355	1.567E-07	6.581E-07	820
105.0	2.1	285	1.256E-07	5.274E-07	820
105.0	4.2	284	1.255E-07	5.271E-07	820
105.0	6.3	413	1.823E-07	7.656E-07	820
105.0	8.4	378	1.666E-07	6.999E-07	820
105.0	10.5	212	9.366E-08	3.934E-07	820
105.0	12.6	354	1.562E-07	6.561E-07	820
105.0	14.7	468	2.062E-07	8.660E-07	820
105.0	16.8	314	1.384E-07	5.812E-07	820
105.0	21.0	301	1.329E-07	5.584E-07	820
105.0	25.2	206	9.107E-08	3.825E-07	820
S 105.0	29.4	146	6.450E-08	2.709E-07	820
105.0	33.6	281	1.239E-07	5.204E-07	820
105.0	37.8	177	7.798E-08	3.275E-07	820
105.0	42.0	191	8.445E-08	3.547E-07	820

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/O SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
112.6	.3	781	3.441E-07	1.445E-06	833
112.6	.5	963	4.244E-07	1.783E-06	833
112.6	1.1	567	2.502E-07	1.051E-06	833
112.6	1.5	1259	5.547E-07	2.330E-06	833
112.6	2.1	916	4.039E-07	1.697E-06	833
112.6	4.2	1781	7.850E-07	3.297E-06	833
112.6	6.3	1168	5.149E-07	2.162E-06	833
112.6	8.4	1252	5.516E-07	2.317E-06	833
T 112.6	10.5	1198	5.241E-07	2.218E-06	833
112.6	12.6	884	3.847E-07	1.637E-06	833
112.6	14.7	1199	5.286E-07	2.220E-06	833
112.6	16.8	861	3.793E-07	1.593E-06	833
112.6	21.0	946	4.171E-07	1.752E-06	833
112.6	25.2	1060	4.670E-07	1.962E-06	833
T 112.6	29.4	710	3.131E-07	1.315E-06	833
112.6	33.6	680	2.996E-07	1.258E-06	833
112.6	37.8	708	3.122E-07	1.311E-06	833
S 112.6	42.0	680	2.996E-07	1.258E-06	833

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/O SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
120.2	.3	1575	6.941E-07	2.915E-06	845
120.2	.5	848	3.738E-07	1.570E-06	845
120.2	1.1	1288	5.675E-07	2.383E-06	845
120.2	1.5	1611	7.101E-07	2.982E-06	845
120.2	2.1	1225	5.397E-07	2.267E-06	845
120.2	4.2	1466	6.459E-07	2.713E-06	845
120.2	6.3	782	3.447E-07	1.448E-06	845
120.2	8.4	973	4.290E-07	1.802E-06	845
120.2	10.5	937	4.131E-07	1.735E-06	845
120.2	12.6	1037	4.571E-07	1.920E-06	845
120.2	14.7	804	3.544E-07	1.489E-06	845
120.2	16.8	1185	5.221E-07	2.193E-06	845
120.2	21.0	1184	5.218E-07	2.192E-06	845
120.2	25.2	575	2.534E-07	1.064E-06	845
120.2	29.4	788	3.474E-07	1.459E-06	845
120.2	33.6	464	2.048E-07	8.602E-07	845
120.2	37.8	1032	4.549E-07	1.911E-06	845
120.2	42.0	715	3.140E-07	1.323E-06	845

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM X10E+6	F/O SEC/CM	EU/Q 1/SQ.M	DISTANCE METERS
127.7	.3	479	2.112E-07	8.870E-07	857
127.7	.5	427	1.885E-07	7.916E-07	857
127.7	1.1	587	2.596E-07	1.088E-06	857
127.7	1.5	519	2.288E-07	9.609E-07	857
127.7	2.1	642	2.828E-07	1.188E-06	857
127.7	4.2	626	2.759E-07	1.159E-06	857
127.7	6.3	669	2.947E-07	1.238E-06	857
127.7	8.4	635	2.749E-07	1.176E-06	857
127.7	10.5	429	1.894E-07	7.956E-07	857
127.7	12.6	552	2.432E-07	1.022E-06	857
127.7	14.7	603	2.658E-07	1.117E-06	857
127.7	16.8	745	3.282E-07	1.378E-06	857
127.7	21.0	662	2.916E-07	1.226E-06	857
127.7	25.2	622	2.742E-07	1.152E-06	857
F 127.7	29.4	250	1.105E-07	4.642E-07	857
127.7	33.6	494	2.176E-07	9.146E-07	857
127.7	37.8	318	1.402E-07	5.890E-07	857
127.7	42.0	249	1.047E-07	4.608E-07	857

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
135.0	.3	1614	7.113E-07	2.988E-06	867
135.0	.5	276	1.218E-07	5.118E-07	867
135.0	1.1	1543	6.801E-07	2.856E-06	867
135.0	1.5	1479	6.517E-07	2.737E-06	867
135.0	2.1	1556	6.856E-07	2.879E-06	867
135.0	4.2	2093	9.222E-07	3.873E-06	867
W 135.0	6.3	523	2.300E-07	9.693E-07	867
W 135.0	8.4	484	2.136E-07	8.971E-07	867
W 135.0	10.5	756	3.334E-07	1.400E-06	867
W 135.0	12.6	566	2.495E-07	1.048E-06	867
W 135.0	14.7	616	2.716E-07	1.141E-06	867
W 135.0	16.8	319	1.406E-07	5.912E-07	867
W 135.0	21.0	625	2.755E-07	1.157E-06	867
W 135.0	25.2	754	3.325E-07	1.397E-06	867
W 135.0	29.4	562	2.476E-07	1.040E-06	867
W 135.0	33.6	614	2.709E-07	1.138E-06	867
W 135.0	37.8	467	2.148E-07	9.023E-07	867
W 135.0	42.0	484	2.136E-07	8.971E-07	867

TOWER DATA FOLLOW....

TEST V7 SEPTEMBER 25, 1973 1201 TO 1231 PST  
 ZINC SULFIDE RELEASE FROM ELFVATION OF 26M  
 1600M ARC U= 4.2 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
N 101.8	.2	0	0.	0.	1617

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
109.5	.2	54	2.387E-08	1.002E-07	1630
109.5	.4	78	3.436E-08	1.443E-07	1630
109.5	.8	39	1.757E-08	7.381E-08	1630
109.5	1.5	98	4.322E-08	1.815E-07	1630
109.5	1.6	44	1.970E-08	8.276E-08	1630
109.5	3.1	121	5.359E-08	2.251E-07	1630
109.5	6.2	117	5.169E-08	2.171E-07	1630
109.5	9.3	112	4.976E-08	2.090E-07	1630
109.5	12.4	52	2.326E-08	9.769E-08	1630
109.5	15.5	119	5.250E-08	2.205E-07	1630
109.5	18.6	76	3.340E-08	1.406E-07	1630
109.5	21.7	99	4.378E-08	1.859E-07	1630
109.5	24.8	83	3.646E-08	1.552E-07	1630
109.5	31.0	60	2.663E-08	1.118E-07	1630
109.5	37.2	98	4.352E-08	1.828E-07	1630
109.5	43.4	79	3.516E-08	1.477E-07	1630
109.5	49.6	40	1.781E-08	7.481E-08	1630
109.5	55.8	51	2.262E-08	9.499E-08	1630
109.5	62.0	17	7.775E-09	3.265E-08	1630

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
117.3	.2	66	2.934E-08	1.232E-07	1643
117.3	.4	67	2.960E-08	1.243E-07	1643
117.3	.8	70	3.117E-08	1.309E-07	1643
117.3	1.5	108	4.799E-08	2.016E-07	1643
117.3	1.6	126	5.593E-08	2.345E-07	1643
117.3	3.1	156	6.912E-08	2.903E-07	1643
117.3	6.2	99	4.369E-08	1.835E-07	1643
E 117.3	9.3	102	4.501E-08	1.890E-07	1643
117.3	12.4	104	4.624E-08	1.942E-07	1643
117.3	15.5	91	4.019E-08	1.687E-07	1643
117.3	18.6	176	7.794E-08	3.274E-07	1643
117.3	21.7	65	2.884E-08	1.211E-07	1643
117.3	24.8	137	6.057E-08	2.544E-07	1643
117.3	31.0	86	3.793E-08	1.593E-07	1643
117.3	37.2	118	5.213E-08	2.189E-07	1643
117.3	43.4	163	7.205E-08	3.026E-07	1643
117.3	49.6	94	4.164E-08	1.749E-07	1643
117.3	55.8	143	6.338E-08	2.662E-07	1643
117.3	62.0	71	3.133E-08	1.316E-07	1643



AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	EU/D 1/SQ.M	DISTANCE METERS
125.0	.2	91	4.030E-08	1.693E-07	1655
125.0	.4	45	2.007E-08	8.430E-08	1655
125.0	.8	118	5.206E-08	2.186E-07	1655
125.0	1.5	74	3.273E-08	1.375E-07	1655
125.0	1.6	89	3.941E-08	1.655E-07	1655
125.0	3.1	131	5.786E-08	2.430E-07	1655
S 125.0	6.2	71	3.170E-08	1.331E-07	1655
S 125.0	9.3	126	5.591E-08	2.348E-07	1655
125.0	12.4	149	6.567E-08	2.758E-07	1655
T 125.0	15.5	36	1.607E-08	6.750E-08	1655
125.0	18.6	148	6.545E-08	2.745E-07	1655
E 125.0	21.7	117	5.191E-08	2.180E-07	1655
125.0	24.8	89	3.927E-08	1.649E-07	1655
125.0	31.0	48	2.135E-08	8.968E-08	1655
125.0	37.2	128	5.656E-08	2.375E-07	1655
125.0	43.4	60	2.656E-08	1.115E-07	1655
125.0	49.6	16	7.221E-09	3.033E-08	1655
125.0	55.8	97	4.288E-08	1.801E-07	1655
125.0	62.0	74	3.298E-08	1.385E-07	1655

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	EU/D 1/SQ.M	DISTANCE METERS
132.5	.2	47	2.074E-08	8.709E-08	1665
132.5	.4	50	2.245E-08	9.431E-08	1665
132.5	.8	21	9.284E-09	3.899E-08	1665
132.5	1.5	113	5.021E-08	2.109E-07	1665
132.5	1.6	64	2.860E-08	1.201E-07	1665
132.5	3.1	78	3.471E-08	1.458E-07	1665
132.5	6.2	123	5.455E-08	2.291E-07	1665
132.5	9.3	86	3.830E-08	1.609E-07	1665
T 132.5	12.4	103	4.570E-08	1.919E-07	1665
132.5	15.5	119	5.277E-08	2.216E-07	1665
132.5	18.6	135	5.973E-08	2.509E-07	1665
S 132.5	21.7	147	6.502E-08	2.731E-07	1665
E 132.5	24.8	138	6.108E-08	2.565E-07	1665
W 132.5	31.0	130	5.728E-08	2.406E-07	1665
W 132.5	37.2	85	3.762E-08	1.580E-07	1665
W 132.5	43.4	73	3.221E-08	1.353E-07	1665
W 132.5	49.6	57	2.551E-08	1.072E-07	1665
W 132.5	55.8	33	1.461E-08	6.135E-08	1665
W 132.5	62.0	72	3.204E-08	1.346E-07	1665

TOWER DATA FOLLOW....

TEST V7 SEPTEMBER 25, 1973 1201 TO 1231 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 3200H ARC U= 4.2 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	EU/D 1/SQ.M	DISTANCE METERS
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N 99.8	.2	0	0.	0.	3215
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AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/D SEC/CU.M	EU/D 1/SQ.M	DISTANCE METERS
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N 107.8	.2	0	0.	0.	3229
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	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	F/D SEC/CM.	FU/D 1/50.M	DISTANCE METERS
S	115.6	.2	11	4.954E-09	2.081E-08	3241
4	115.6	.4	13	5.896E-09	2.477E-08	3241
4	115.6	.8	8	3.876E-09	1.628E-08	3241
	115.6	1.5	37	1.641E-08	6.891E-08	3241
	115.6	1.6	14	6.434E-09	2.702E-08	3241
	115.6	3.1	28	1.271E-08	5.337E-08	3241
	115.6	6.2	23	1.046E-08	4.391E-08	3241
	115.6	9.3	24	1.094E-08	4.594E-08	3241
	115.6	12.4	15	6.770E-09	2.843E-08	3241
	115.6	15.5	13	6.139E-09	2.579E-08	3241
	115.6	18.6	20	8.902E-09	3.739E-08	3241
	115.6	21.7	14	6.208E-09	2.608E-08	3241
	115.6	24.8	24	1.076E-08	4.518E-08	3241
	115.6	31.0	13	6.043E-09	2.538E-08	3241
	115.6	37.2	20	8.870E-09	3.725E-08	3241
5	115.6	43.4	14	6.543E-09	2.748E-08	3241
	115.6	49.6	10	4.734E-09	1.986E-08	3241
	115.6	55.8	10	4.670E-09	1.962E-08	3241
	115.6	62.0	12	5.519E-09	2.318E-08	3241

	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	F/D SEC/CM.	FU/D 1/50.M	DISTANCE METERS
	123.4	.2	18	7.962E-09	3.344E-08	3253
	123.4	.4	11	5.224E-09	2.194E-08	3253
	123.4	.8	20	8.931E-09	3.751E-08	3253
	123.4	1.5	8	3.880E-09	1.621E-08	3253
	123.4	1.6	15	6.917E-09	2.905E-08	3253
	123.4	3.1	21	9.651E-09	4.053E-08	3253
	123.4	6.2	16	8.043E-09	3.378E-08	3253
T	123.4	9.3	6	2.895E-09	1.216E-08	3253
	123.4	12.4	45	1.985E-08	8.336E-08	3253
M	123.4	15.5	4	2.149E-09	9.025E-09	3253
	123.4	18.6	20	9.056E-09	3.803E-08	3253
T	123.4	21.7	3	1.363E-09	5.724E-09	3253
T	123.4	24.8	6	2.988E-09	1.255E-08	3253
	123.4	31.0	24	1.061E-08	4.457E-08	3253
	123.4	37.2	7	3.199E-09	1.344E-08	3253
	123.4	43.4	10	4.508E-09	1.893E-08	3253
	123.4	49.6	40	1.793E-08	7.531E-08	3253
	123.4	55.8	17	7.925E-09	3.329E-08	3253
T	123.4	62.0	21	9.341E-09	3.923E-08	3253

	AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM. X10E+6	F/D SEC/CM.	FU/D 1/50.M	DISTANCE METERS
	131.2	.2	4	1.946E-09	8.174E-09	3264
	131.2	.4	7	3.370E-09	1.415E-08	3264
	131.2	.8	13	6.066E-09	2.548E-08	3264
	131.2	1.5	42	1.866E-08	7.837E-08	3264
	131.2	1.6	16	7.238E-09	3.040E-08	3264
	131.2	3.1	39	1.721E-08	7.229E-08	3264
	131.2	6.2	37	1.673E-08	7.026E-08	3264
	131.2	9.3	29	9.169E-09	3.851E-08	3264
E	131.2	12.4	0	3.077E-10	1.292E-09	3264
	131.2	15.5	39	1.734E-08	7.284E-08	3264
S	131.2	18.6	29	1.305E-08	5.479E-08	3264
	131.2	21.7	37	1.651E-08	6.932E-08	3264
	131.2	24.8	39	1.735E-08	7.278E-08	3264
	131.2	31.0	36	1.621E-08	6.869E-08	3264
	131.2	37.2	43	1.905E-08	8.000E-08	3264
	131.2	43.4	72	3.213E-08	1.350E-07	3264
	131.2	49.6	90	3.974E-08	1.669E-07	3264
E	131.2	55.8	66	2.944E-08	1.238E-07	3264
	131.2	62.0	43	1.925E-08	8.084E-08	3264

GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. ONLY ZINC SULFIDE TRACER RELEASED. ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER DISTRIBUTION. ABOUT HALF OF TWENTY TOWERS EXPOSED TO TRACER, BUT ALL VERTICAL DISTRIBUTIONS TRUNCATED AT TOPS OF TOWERS. TOTAL "Q" KNOWN, BUT RATE OF TRACER EMISSION WAS LIKELY NOT CONSTANT.

TEST V8 NOVEMBER 28, 1973 1132 TO 1142 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 200M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	E/Q SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
118.0	0	0.	0.	200
120.0	713	2.547E-06	7.640E-06	200
122.0	1492	5.331E-06	1.599E-05	200
124.0	2635	9.412E-06	2.324E-05	200
126.0	6889	2.461E-05	7.382E-05	200
128.0	18754	6.698E-05	2.009E-04	200
130.0	27677	9.885E-05	2.965E-04	200
132.0	18663	6.666E-05	2.000E-04	200
134.0	18328	6.546E-05	1.964E-04	200
136.0	13501	4.822E-05	1.447E-04	200
138.0	6621	2.365E-05	7.095E-05	200
140.0	3424	1.223E-05	3.669E-05	200
142.0	583	2.084E-06	6.252E-06	200
144.0	64	2.291E-07	6.874E-07	200
146.0	0	0.	0.	200

CROSSWIND INTEGRATED= 2.976E-03 SEC/SQ.M  
 8.927E-03 1/M

TEST V8 NOVEMBER 28, 1973 1132 TO 1142 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 400M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CM <sup>2</sup> X10E+6	E/Q SEC/CM <sup>2</sup>	EU/Q 1/SQ.M	DISTANCE METERS
110.0	0	2.765E-09	8.294E-09	400
114.0	8	3.041E-08	9.123E-08	400
118.0	3	1.106E-08	3.316E-08	400
122.0	683	2.440E-06	7.319E-06	400
126.0	5064	1.809E-05	5.427E-05	400
130.0	14231	5.083E-05	1.525E-04	400
134.0	6373	2.275E-05	6.825E-05	400
138.0	6607	2.360E-05	7.079E-05	400
142.0	270	9.662E-07	2.899E-06	400
146.0	8	3.041E-08	9.123E-08	400
150.0	1	5.529E-09	1.659E-08	400

CROSSWIND INTEGRATED= 3.316E-03 SEC/SQ.M  
 9.948E-03 1/M

TEST V8 NOVEMBER 28, 1973 1132 TU 1142 PST  
 ZINC SULFIDE RELEASE FROM ELFVATION OF 26M  
 BOOM ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	L/Q SEC/CU.M	LU/Q 1/SQ.M	DISTANCE METERS
120.2	0	0.	0.	845
122.1	229	8.197E-07	2.459E-06	848
H 124.0	977	3.492E-06	1.048E-05	851
S 125.8	1180	4.216E-06	1.265E-05	854
127.7	5583	1.994E-05	5.982E-05	857
129.5	6166	2.202E-05	6.607E-05	859
131.4	7356	2.627E-05	7.882E-05	862
133.2	1640	5.859E-06	1.758E-05	865
135.0	6113	2.184E-05	6.551E-05	867
136.8	5821	2.079E-05	6.237E-05	869
138.7	2685	9.590E-06	2.877E-05	872
140.6	1601	5.721E-06	1.716E-05	874
142.4	297	1.062E-06	3.187E-06	876
144.2	15	5.437E-08	1.631E-07	878
Z 146.0	4	1.673E-08	5.019E-08	880
Z 147.8	0	0.	0.	882

CROSSWIND INTEGRATED= 3.936E-03 1.181E-02  
 SEC/SQ.M 1/M

TEST V8 NOVEMBER 28, 1973 1132 TU 1142 PST  
 ZINC SULFIDE RELEASE FROM ELFVATION OF 26M  
 1200M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	L/Q SEC/CU.M	LU/Q 1/SQ.M	DISTANCE METERS
4 116.0	0	0.	0.	1200
118.0	1	4.857E-09	1.457E-08	1200
Z 120.0	1	5.667E-09	1.700E-08	1200
Z 122.0	68	2.453E-07	7.359E-07	1200
S 124.0	592	2.118E-06	6.353E-06	1200
S 126.0	1966	7.023E-06	2.107E-05	1200
4 128.0	46	1.668E-07	5.003E-07	1200
130.0	124	4.461E-07	1.338E-06	1200
Z 132.0	4220	1.507E-05	4.522E-05	1200
134.0	14397	5.142E-05	1.543E-04	1200
136.0	5457	1.949E-05	5.847E-05	1200
4 138.0	4605	1.645E-05	4.935E-05	1200
S 140.0	1214	4.338E-06	1.301E-05	1200
142.0	1240	4.431E-06	1.329E-05	1200
E 144.0	158	5.651E-07	1.695E-06	1200
E 146.0	6	2.267E-08	6.800E-08	1200

CROSSWIND INTEGRATED= 5.102E-03 1.531E-02  
 SEC/SQ.M 1/M

TEST V8 NOVEMBER 28, 1973 1132 TO 1142 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 1600M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
122.1	0	0.	0.	1650
123.1	8	3.172E-08	9.516E-08	1652
124.1	75	2.682E-07	8.045E-07	1653
125.0	349	1.249E-06	3.746E-06	1655
126.0	188	6.719E-07	2.016E-06	1656
126.9	146	5.748E-07	1.574E-06	1658
127.8	1239	4.426E-06	1.328E-05	1659
128.8	2234	7.982E-06	2.394E-05	1660
129.7	3891	1.390E-05	4.170E-05	1662
130.6	4157	1.465E-05	4.454E-05	1663
S 131.5	788	2.817E-06	8.452E-06	1664
132.5	723	2.584E-06	7.751E-06	1665
133.5	5576	1.992E-05	5.975E-05	1667
134.4	5369	1.918E-05	5.753E-05	1668
135.4	4119	1.471E-05	4.413E-05	1669
136.4	4373	1.562E-05	4.686E-05	1670
137.3	4895	1.748E-05	5.245E-05	1672
Z 138.3	2879	1.028E-05	3.085E-05	1673
139.3	1841	6.577E-06	1.973E-05	1674
140.2	3099	1.107E-05	3.321E-05	1675
141.2	402	1.439E-06	4.317E-06	1676
W 142.2	121	4.354E-07	1.306E-06	1677
W 143.1	148	5.306E-07	1.592E-06	1678
W 144.1	12	4.614E-08	1.384E-07	1679
W 145.1	1	5.767E-09	1.730E-08	1680
W 146.0	31	1.125E-07	3.374E-07	1681
L 146.9	0	0.	0.	1682

CROSSWIND INTEGRATED= 4.610E-03 1.333E-04  
 SEC/SQ.M 1/M

TEST V8 NOVEMBER 28, 1973 1132 TO 1142 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 3200M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 26M

AZIMUTH DEGREES	EXPOSURE GM-SEC/CU.M X10E+6	E/Q SEC/CU.M	EU/Q 1/SQ.M	DISTANCE METERS
127.3	4	1.639E-08	4.910E-08	3259
128.3	1	4.078E-09	1.230E-08	3261
129.3	50	1.817E-07	5.451E-07	3262
130.3	253	9.059E-07	2.717E-06	3263
E 131.2	381	1.363E-06	4.090E-06	3264
E 132.2	573	2.046E-06	6.139E-06	3266
E 133.2	840	3.003E-06	9.008E-06	3267
134.2	1327	4.742E-06	1.423E-05	3268
135.2	1250	4.465E-06	1.339E-05	3270
136.2	1274	4.553E-06	1.366E-05	3271
137.1	2386	8.522E-06	2.557E-05	3272
138.1	2346	8.381E-06	2.514E-05	3273
139.1	1965	7.021E-06	2.106E-05	3274
P 140.1	1790	6.395E-06	1.918E-05	3276
P 141.1	179	6.421E-07	1.926E-06	3277
P 142.0	1502	5.366E-06	1.610E-05	3278
143.0	4	1.776E-08	5.328E-08	3279
144.0	1	5.465E-09	1.639E-08	3280
145.0	0	0.	0.	3281
146.0	22	8.060E-08	2.418E-07	3282
146.9	25	9.017E-08	2.705E-07	3283
147.9	4	3.306E-08	1.017E-08	3284
148.9	1	5.465E-09	1.639E-08	3285
149.9	0	2.732E-09	8.197E-09	3286

CROSSWIND INTEGRATED= 3.242E-03 9.725E-03  
 SEC/SQ.M 1/M

TOWER DATA FOLLOW....

TEST V8 NOVEMBER 28, 1973 1132 TO 1142 PST  
 ZINC SULFIDE RELEASE FROM EFFLUENT OF 26M  
 200M ARC U= 3.0 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/U SEC/CU.M	EU/W 1/SQ.M	DISTANCE METERS
N 102.0	4	0	0.	0.	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/U SEC/CU.M	EU/W 1/SQ.M	DISTANCE METERS
Z 110.0	4	0	0.	0.	200
Z 110.0	1.5	1	4.324E-09	1.297E-08	200
Z 110.0	5.5	0	0.	0.	200
4 110.0	10.0	187	6.683E-07	2.005E-06	200
Z 110.0	13.0	86	3.103E-07	9.308E-07	200
Z 110.0	16.0	38	1.377E-07	4.131E-07	200
S 110.0	19.0	82	2.945E-07	8.835E-07	200
S 110.0	22.0	152	5.451E-07	1.635E-06	200
4 110.0	25.0	5	1.836E-08	5.509E-08	200
S 110.0	28.0	1	3.673E-09	1.102E-08	200
S 110.0	31.0	0	0.	0.	200
E 110.0	32.8	0	0.	0.	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/U SEC/CU.M	EU/W 1/SQ.M	DISTANCE METERS
118.0	1.5	0	0.	0.	200
118.0	16.0	1	3.825E-09	1.147E-08	200
118.0	19.0	11	4.207E-08	1.262E-07	200
118.0	22.0	150	5.377E-07	1.613E-06	200
118.0	25.0	3	1.102E-08	3.305E-08	200
118.0	28.0	66	2.387E-07	7.162E-07	200
118.0	31.0	4	1.433E-08	4.298E-08	200
118.0	32.8	10	3.581E-08	1.074E-07	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/U SEC/CU.M	EU/W 1/SQ.M	DISTANCE METERS
126.0	4	1564	5.659E-06	1.698E-05	200
126.0	8	2838	1.014E-05	3.042E-05	200
126.0	1.5	6869	2.461E-05	7.382E-05	200
126.0	2.5	7228	2.582E-05	7.745E-05	200
126.0	4.0	9542	3.408E-05	1.022E-04	200
126.0	5.5	8906	3.181E-05	9.543E-05	200
126.0	7.0	13046	4.659E-05	1.396E-04	200
126.0	8.5	16330	5.812E-05	1.750E-04	200
126.0	10.0	26733	9.549E-05	2.864E-04	200
126.0	13.0	34477	1.231E-04	3.694E-04	200
126.0	16.0	37879	1.353E-04	4.058E-04	200
126.0	19.0	36301	1.246E-04	3.889E-04	200
126.0	22.0	43209	1.543E-04	4.630E-04	200
126.0	25.0	61156	2.184E-04	6.552E-04	200
126.0	28.0	46928	1.678E-04	5.028E-04	200
126.0	31.0	34554	1.234E-04	3.702E-04	200
126.0	32.8	48929	1.747E-04	5.242E-04	200

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/U SEC/CU.M	EU/W 1/SQ.M	DISTANCE METERS
134.0	4	14029	5.010E-05	1.503E-04	200
134.0	8	14757	5.270E-05	1.581E-04	200
134.0	1.5	18328	6.546E-05	1.964E-04	200
134.0	2.5	16528	5.903E-05	1.771E-04	200
134.0	4.0	11326	4.045E-05	1.214E-04	200
134.0	5.5	14950	5.340E-05	1.602E-04	200
134.0	7.0	22798	8.142E-05	2.443E-04	200
134.0	8.5	17972	6.419E-05	1.926E-04	200
134.0	10.0	22045	7.873E-05	2.362E-04	200
134.0	13.0	29062	1.038E-04	3.114E-04	200
134.0	16.0	38533	1.376E-04	4.129E-04	200
134.0	19.0	37188	1.328E-04	3.984E-04	200
134.0	22.0	42446	1.516E-04	4.548E-04	200
134.0	25.0	111119	3.969E-04	1.191E-03	200
134.0	28.0	110223	3.937E-04	1.181E-03	200
134.0	31.0	45989	1.642E-04	4.927E-04	200
134.0	32.8	61823	2.208E-04	6.624E-04	200

TONER DATA FOLLOW....

TEST V8 NOVEMBER 28, 1973 1132 TO 1142 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 BOOM ARC U= 3.0 M/SIC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>3</sup> X10 <sup>1+6</sup>	F/U SEC/CM <sup>3</sup>	EU/U 1/SQ.M	DISTANCE METERS
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N 105.0	.3	0	0.	0.	820
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AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>3</sup> X10 <sup>1+6</sup>	F/U SEC/CM <sup>3</sup>	EU/U 1/SQ.M	DISTANCE METERS
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N 112.6	.3	0	0.	0.	833
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AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>3</sup> X10 <sup>1+6</sup>	F/U SEC/CM <sup>3</sup>	EU/U 1/SQ.M	DISTANCE METERS
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120.2	1.5	0	0.	0.	845
120.2	16.8	14	5.180E-08	1.554E-07	845
120.2	21.0	24	8.907E-08	2.672E-07	845
120.2	25.2	6	2.487E-08	7.460E-08	845
120.2	29.4	4	1.732E-08	5.197E-08	845
120.2	33.6	14	5.147E-08	1.559E-07	845
120.2	37.8	12	4.392E-08	1.318E-07	845
120.2	42.0	71	2.537E-07	7.610E-07	845

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>3</sup> X10 <sup>1+6</sup>	F/U SEC/CM <sup>3</sup>	EU/U 1/SQ.M	DISTANCE METERS
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127.7	.3	5998	2.147E-05	6.427E-05	857
127.7	.5	4246	1.517E-05	4.550E-05	857
127.7	1.1	5075	1.813E-05	5.436E-05	857
127.7	1.5	5583	1.994E-05	5.982E-05	857
127.7	2.1	5475	1.950E-05	5.867E-05	857
127.7	4.2	4806	1.717E-05	5.150E-05	857
127.7	6.3	4652	1.661E-05	4.984E-05	857
127.7	8.4	4262	1.522E-05	4.566E-05	857
127.7	10.5	1329	4.748E-06	1.424E-05	857
127.7	12.6	4251	1.518E-05	4.555E-05	857
127.7	14.7	9047	3.231E-05	9.694E-05	857
127.7	16.8	4209	1.504E-05	4.511E-05	857
127.7	21.0	3337	1.192E-05	3.576E-05	857
M 127.7	25.2	2408	8.601E-06	2.580E-05	857
M 127.7	29.4	1502	5.366E-06	1.610E-05	857
127.7	33.6	3049	1.089E-05	3.266E-05	857
127.7	37.8	900	3.500E-06	1.050E-05	857
127.7	42.0	1465	5.173E-06	1.549E-05	857

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>3</sup> X10 <sup>1+6</sup>	F/U SEC/CM <sup>3</sup>	EU/U 1/SQ.M	DISTANCE METERS
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135.0	.3	8140	2.907E-05	8.722E-05	867
135.0	.5	1780	6.358E-06	1.907E-05	867
135.0	1.1	7632	2.726E-05	8.177E-05	867
135.0	1.5	6113	2.184E-05	6.551E-05	867
135.0	2.1	4673	1.669E-05	5.007E-05	867
135.0	4.2	7835	2.796E-05	8.395E-05	867
135.0	6.3	967	3.436E-06	1.031E-05	867
135.0	8.4	1343	4.798E-06	1.439E-05	867
135.0	10.5	1405	5.021E-06	1.506E-05	867
135.0	12.6	1413	5.048E-06	1.514E-05	867
135.0	14.7	1580	5.640E-06	1.694E-05	867
M 135.0	16.8	756	2.701E-06	8.102E-06	867
135.0	21.0	1107	3.955E-06	1.186E-05	867
M 135.0	25.2	712	2.544E-06	7.631E-06	867
M 135.0	29.4	749	2.678E-06	8.034E-06	867
M 135.0	33.6	505	1.805E-06	5.415E-06	867
M 135.0	37.8	526	1.882E-06	5.645E-06	867
135.0	42.0	756	2.702E-06	8.105E-06	867

TOWER DATA FOLLOW....

TEST V8 NOVEMBER 28, 1973 1132 TO 1142 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 1600M ARC U= 3.0 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>3</sup> X10E+6	F/D SEC/CM <sup>3</sup>	EU/D 1/SQ.M	DISTANCE METERS
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N	101.6	.2	0	0.	0.	1617
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AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>3</sup> X10E+6	F/D SEC/CM <sup>3</sup>	EU/D 1/SQ.M	DISTANCE METERS
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N	109.5	.2	0	0.	0.	1630
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AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>3</sup> X10E+6	F/D SEC/CM <sup>3</sup>	EU/D 1/SQ.M	DISTANCE METERS
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N	117.3	.2	0	0.	0.	1643
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AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>3</sup> X10E+6	F/D SEC/CM <sup>3</sup>	EU/D 1/SQ.M	DISTANCE METERS
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	125.0	.2	78	2.791E-07	8.374E-07	1655
	125.0	.4	200	7.168E-07	2.151E-06	1655
	125.0	.8	197	7.039E-07	2.112E-06	1655
	125.0	1.5	349	1.249E-06	3.746E-06	1655
	125.0	1.6	8	2.884E-08	8.651E-08	1655
	125.0	3.1	11	4.037E-08	1.211E-07	1655
	125.0	6.2	179	6.394E-07	1.920E-06	1655
S	125.0	9.3	21	7.723E-08	2.317E-07	1655
	125.0	12.4	47	1.682E-07	5.047E-07	1655
	125.0	15.5	27	9.979E-08	2.979E-07	1655
	125.0	18.6	31	1.131E-07	3.393E-07	1655
	125.0	21.7	25	9.139E-08	2.742E-07	1655
	125.0	24.8	26	9.412E-08	2.824E-07	1655
	125.0	31.0	50	1.816E-07	5.449E-07	1655
M	125.0	37.2	17	6.184E-08	1.855E-07	1655
	125.0	43.4	0	0.	0.	1655
S	125.0	49.6	4	1.513E-08	4.540E-08	1655
	125.0	55.8	0	2.469E-09	7.406E-09	1655
	125.0	62.0	13	4.690E-08	1.407E-07	1655

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CM <sup>3</sup> X10E+6	F/D SEC/CM <sup>3</sup>	EU/D 1/SQ.M	DISTANCE METERS
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	132.5	.2	1815	6.483E-06	1.945E-05	1665
	132.5	.4	5740	2.050E-05	6.151E-05	1665
	132.5	.8	8473	3.026E-05	9.079E-05	1665
	132.5	1.5	723	2.504E-06	7.751E-06	1665
C	132.5	1.6	310	1.107E-06	3.322E-06	1665
C	132.5	3.1	68	2.451E-07	7.353E-07	1665
C	132.5	6.2	217	7.778E-07	2.333E-06	1665
C	132.5	9.3	147	5.268E-07	1.580E-06	1665
C	132.5	12.4	221	7.916E-07	2.375E-06	1665
C	132.5	15.5	250	8.936E-07	2.681E-06	1665
C	132.5	18.6	152	5.434E-07	1.630E-06	1665
C	132.5	21.7	243	8.709E-07	2.613E-06	1665
	132.5	24.8	2107	7.527E-06	2.258E-05	1665
	132.5	31.0	1621	5.791E-06	1.737E-05	1665
S	132.5	37.2	833	2.976E-06	8.928E-06	1665
	132.5	43.4	882	3.152E-06	9.457E-06	1665
	132.5	49.6	2538	9.067E-06	2.720E-05	1665
M	132.5	55.8	435	1.555E-06	4.666E-06	1665
M	132.5	62.0	646	2.306E-06	6.925E-06	1665



TOWER DATA FOLLOW....

TEST V8 NOVEMBER 28, 1973 1132 TO 1142 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 3200M ARC U= 3.0 M/SEC AT 26M

AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/U SEC/CU.M	EU/U 1/SQ.M	DISTANCE METERS
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N	99.8	.2	0 0.	0.	3215
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AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/U SEC/CU.M	EU/U 1/SQ.M	DISTANCE METERS
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N	107.0	.2	0 0.	0.	3229
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AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/U SEC/CU.M	EU/U 1/SQ.M	DISTANCE METERS
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N	115.6	.2	0 0.	0.	3241
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AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/U SEC/CU.M	EU/U 1/SQ.M	DISTANCE METERS
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N	123.4	.2	0 0.	0.	3253
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AZIMUTH DEGREES	HEIGHT METERS	EXPOSURE GM-SEC/CU.M X10E+6	F/U SEC/CU.M	EU/U 1/SQ.M	DISTANCE METERS
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S	131.2	.2	33	1.205E-07	3.615E-07	3264
	131.2	.4	346	1.238E-06	3.714E-06	3264
S	131.2	.8	106	3.801E-07	1.140E-06	3264
E	131.2	1.5	381	1.363E-06	4.090E-06	3264
	131.2	1.6	16	6.011E-08	1.803E-07	3264
	131.2	3.1	230	8.248E-07	2.471E-06	3264
	131.2	6.2	434	1.553E-06	4.660E-06	3264
S	131.2	9.3	172	6.175E-07	1.852E-06	3264
Z	131.2	12.4	92	3.320E-07	9.954E-07	3264
Z	131.2	15.5	97	3.470E-07	1.041E-06	3264
Z	131.2	18.6	115	4.112E-07	1.234E-06	3264
L	131.2	21.7	1	5.465E-09	1.634E-08	3264
M	131.2	24.8	2	8.197E-09	2.459E-08	3264
L	131.2	31.0	0	0.	0.	3264
M	131.2	37.2	1	3.912E-09	1.174E-08	3264
	131.2	43.4	121	4.342E-07	1.303E-06	3264
S	131.2	49.6	40	1.434E-07	4.303E-07	3264
Z	131.2	55.8	13	4.955E-08	1.487E-07	3264
N	131.2	62.0	67	2.412E-07	7.237E-07	3264

APPENDIX B

DIFFUSION SUMMARIES



GROUND-LEVEL AND TOWER SAMPLING 200M TO 3200M. INVERSION OF 3F DEG (1M TO 15M) AT 0445; ISOTHERMAL AT 0515.  
 ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER DISTRIBUTION--EXCEPT MINOR EXTRAPOLATION AT NORTH END OF 200M ARC.  
 VERTICAL DISTRIBUTIONS OF TRACER ON ALL 20 TOWERS; PEAK VALUES MEASURED, BUT TRUNCATED AT TOP IN ALL CASES.

TEST D1 JULY 7, 1967 0445 TO 0515 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
 SAMPLER HT 1.5M U= 1.2M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
200	99.6	12.23	.154	2.894	98.0	2.77E-04	3.33E-04	2.43E-02	2.91E-02
					102.0	2.73E-04	3.28E-04		
					100.0	2.45E-04	2.94E-04		
800	105.8	7.57	1.244	5.923	104.0	9.46E-05	1.13E-04	1.68E-02	2.01E-02
					102.0	8.18E-05	9.82E-05		
					106.0	7.57E-05	9.08E-05		
1600	108.7	7.64	1.183	5.502	103.0	2.54E-05	3.04E-05	1.03E-02	1.24E-02
					102.0	2.47E-05	2.96E-05		
					106.0	2.31E-05	2.78E-05		
3200	108.1	8.59	1.338	5.505	101.0	6.76E-06	8.12E-06	4.00E-03	4.80E-03
					102.0	5.85E-06	7.03E-06		
					100.0	5.20E-06	6.23E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST D1 JULY 7, 1967 0445 TO 0515 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 24  
 SAMPLER HT 1.5M U = 1.2M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	C1(E/Q)	C1(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/SQ.M	SEC/SQ.M	1/M
200	100.1	11.97	.113	2.832	98.0	4.42E-04	5.31E-04	3.32E-02	3.98E-02
					96.0	3.54E-04	4.25E-04		
					102.0	3.44E-04	4.13E-04		
800	105.7	7.40	1.290	5.978	104.0	9.09E-05	1.19E-04	1.84E-02	2.20E-02
					106.0	9.89E-05	1.19E-04		
					102.0	9.51E-05	1.14E-04		
1600	107.2	8.08	1.289	5.230	100.0	5.42E-05	6.50E-05	1.09E-02	1.31E-02
					99.0	3.46E-05	4.16E-05		
					103.0	2.20E-05	2.65E-05		
3200	108.1	8.24	1.250	5.451	101.0	6.12E-06	7.34E-06	3.83E-03	4.60E-03
					102.0	5.15E-06	6.18E-06		
					100.0	4.97E-06	5.97E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. ALL ARCS CONTAIN CROSSWIND EXTENT OF TRACER DISTRIBUTIONS. VERTICAL DISTRIBUTION OF TRACER ON MOST TOWERS. CONCENTRATIONS FALL TO BACKGROUND BELOW TOPS OF MOST TOWERS. STRONG INVERSION THROUGH THE ENTIRE DEPTH OF THE 122M TOWER. STRONG RESERVATIONS ON "Q" FOR BOTH TRACERS.

TEST D2 JULY 11, 1967 0350 TO 0420 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
SAMPLER HT 1.5M U= 1.9M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
200	102.2	8.63	-.193	1.750	108.0	3.49E-04?	6.63E-04?	2.09E-02?	3.97E-02?
					110.0	3.20E-04?	6.08E-04?		
					94.0	2.46E-04?	4.66E-04?		
800	101.6	8.59	.192	1.750	92.0	7.56E-05?	1.44E-04?	1.79E-02?	3.41E-02?
					94.0	6.72E-05?	1.28E-04?		
					108.0	5.82E-05?	1.11E-04?		
1600	103.7	6.80	.221	1.801	97.0	2.84E-05?	5.40E-05?	1.10E-02?	2.09E-02?
					96.0	2.81E-05?	5.34E-05?		
					98.0	2.48E-05?	4.72E-05?		
3200	107.7	4.74	.187	1.996	104.0	6.14E-06?	1.17E-05?	3.50E-03?	6.65E-03?
					103.0	5.88E-06?	1.12E-05?		
					105.0	4.56E-06?	8.66E-06?		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

DATA FROM THE LABORATORY ASSESSMENT FOR FLUORESCIN WAS LOST. HOWEVER, RESULTS FROM THAT ASSESSMENT HAD BEEN GRAPHED. THE FLUORESCIN DATA THAT FOLLOW EVOLVE FROM THESE GRAPHS.

TEST D2 JULY 11, 1967 0350 TO 0420 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 2M  
 SAMPLER HT 1.5M U= 1.9M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
200	101.9	8.37	-.152	1.749	108.0	4.82E-04?	9.16E-04?	2.75E-02?	5.22E-02?
					110.0	4.16E-04?	7.91E-04?		
					92.0	3.94E-04?	7.48E-04?		
800	101.0	8.33	.295	1.886	92.0	9.91E-05?	1.88E-04?	2.21E-02?	4.21E-02?
					94.0	8.19E-05?	1.56E-04?		
					96.0	7.27E-05?	1.38E-04?		
1600	103.7	6.75	.220	1.838	97.0	3.24E-05?	6.15E-05?	1.18E-02?	2.23E-02?
					98.0	2.77E-05?	5.27E-05?		
					95.0	2.58E-05?	4.89E-05?		
3200	108.1	4.67	.121	2.098	104.0	5.28E-06?	1.00E-05?	3.43E-03?	6.52E-03?
					110.0	4.82E-06?	9.16E-06?		
					109.0	4.69E-06?	8.91E-06?		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. 200M ARC EXTRAPOLATED AT BOTH EDGES. FLAT OR MULTI-MODE  
 CROSSWIND DISTRIBUTIONS ON ALL ARCS. INVALID SAMPLES ABOVE 4.2M LEVEL ON TOWER AT 122 DEG ON 800M ARC.  
 VERTICAL DISTRIBUTION OF TRACERS ON ALL 20 TOWERS; PEAK VALUES MEASURED, BUT TRUNCATED AT TOP IN ALL CASES.

TEST 03 JULY 13, 1967 0400 TO 0430 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
 SAMPLER HT 1.5M U= 2.6M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
200	106.6?	32.29?	.657?	2.014?	72.0	8.29E-05	2.15E-04	1.22E-02?	3.16E-02?
					74.0	8.00E-05	2.08E-04		
					92.0	7.52E-05	1.95E-04		
800	118.7	24.17	-.089	1.597	86.0	1.22E-05	3.17E-05	5.00E-03	1.30E-02
					88.0	1.02E-05	2.66E-05		
					90.0	7.74E-06	2.01E-05		
1600	118.3	17.53	.312	1.818	111.0	5.00E-06	1.30E-05	4.76E-03	1.24E-02
					108.0	4.49E-06	1.17E-05		
					112.0	4.49E-06	1.17E-05		
3200	117.1	15.07	.079	1.831	96.0	1.89E-06	4.91E-06	2.67E-03	6.94E-03
					95.0	1.68E-06	4.36E-06		
					97.0	1.67E-06	4.34E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



TEST D3 JULY 13, 1967 0400 TO 0430 PST  
 FLUORESCENCE RELEASE FROM ELEVATION OF 2M  
 SAMPLER HT 1.5M U= 2.6M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/C	EU/Q	CI(E/W)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/SQ.M	SEC/SQ.M	1/M
200	102.17	28.717	.8997	2.5797	78.0	1.16E-04	3.01E-04	1.43E-027	3.72E-027
					92.0	1.09E-04	2.84E-04		
					74.0	1.05E-04	2.73E-04		
800	118.2	23.60	-.087	1.685	126.0	1.56E-05	4.05E-05	6.74E-03	1.75E-02
					86.0	1.49E-05	3.88E-05		
					88.0	1.58E-05	3.60E-05		
1600	117.0	17.46	.413	1.904	98.0	7.42E-06	1.93E-05	4.95E-03	1.29E-02
					97.0	5.42E-06	1.41E-05		
					96.0	4.85E-06	1.26E-05		
3200	116.1	15.00	.184	1.827	95.0	1.59E-06	4.13E-06	2.26E-03	5.87E-03
					96.0	1.55E-06	4.02E-06		
					97.0	1.35E-06	3.52E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. ALL GROUND LEVEL SAMPLING TRUNCATED SIGNIFICANTLY ON NORTH.  
 TEST TERMINATED AFTER 16 MINUTES BECAUSE SURFACE WIND SPEED DRIPPED TO CALM.  
 TRACER ON MOST TOWERS, BUT FREQUENTLY LIGHT AND SPOTTY.

TEST D4 AUGUST 8, 1967 0405 TO 0421 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF .2M  
 SAMPLER HT 1.5M U= 1.4M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	CORRECTION SKEW	KURT	AZIMUTH	E/W	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
200	85.8X	5.58X	-1.042X	4.638X	88.0	3.72E-04	5.21E-04	1.23E-02X	1.72E-02X
					86.0	3.04E-04	4.26E-04		
					90.0	2.73E-04	3.83E-04		
800	77.7X	6.27X	.893X	3.770X	70.0?	1.23E-05?	1.73E-05?	2.24E-03X	3.13E-03X
					76.0?	1.11E-05?	1.55E-05?		
					74.0?	9.91E-06?	1.39E-05?		
1600	80.7X	6.23X	.271X	2.343X	85.0?	8.24E-06?	1.15E-05?	2.75E-03X	3.85E-03X
					75.0?	5.84E-06?	8.17E-06?		
					81.0?	5.83E-06?	8.16E-06?		
3200	80.4X	5.85X	.307X	2.552X	81.0?	7.34E-07?	1.03E-06?	6.45E-04X	9.03E-04X
					84.0?	6.96E-07?	9.74E-07?		
					75.0?	6.89E-07?	9.65E-07?		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCUMplete DATA.

TEST D4 AUGUST 8, 1967 0405 TO 0421 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 2M  
 SAMPLER HT 1.5M U= 1.4M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	EFFICIENCY		AZIMUTH	E/W	EU/W	CI(E/W)	CI(EU/Q)
METERS	DEG	DEG	SKEW	KURT	DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
200	86.0X	4.70X	-1.035X	5.560X	86.0	9.61E-04	1.35E-03	2.98E-02X	4.17E-02X
					88.0	6.63E-04	1.21E-03		
					84.0	6.35E-04	8.89E-04		
800	78.5X	6.44X	.690X	3.124X	78.0?	1.48E-05?	2.07E-05?	2.91E-03X	3.93E-03X
					70.0?	1.32E-05?	1.84E-05?		
					76.0?	1.22E-05?	1.70E-05?		
1600	80.6X	6.28X	.247X	2.242X	80.0?	6.07E-06?	8.50E-06?	2.86E-03X	4.01E-03X
					75.0?	5.96E-06?	8.35E-06?		
					81.0?	5.85E-06?	8.19E-06?		
3200	80.1X	6.20X	.574X	2.963X	81.0?	8.61E-07?	1.21E-06?	6.55E-04X	9.17E-04X
					78.0?	8.15E-07?	1.14E-06?		
					80.0?	7.91E-07?	1.11E-06?		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200M AND 800M ONLY. AFTER RELATIVELY MINOR EXTRAPOLATION ON NORTH, BOTH ARCS EMBRACE CROSSWIND EXTENT OF TRACER. ONLY 3 TOWERS SAMPLING AT EACH ARC; 3 OF 4 TOWERS "HIT" EMBRACE THE VERTICAL EXTENT OF TRACER. DIRECTION SHEAR WITH HEIGHT IS OBVIOUS FROM TOWER SAMPLES.

TEST C1 SEPTEMBER 15, 1967 0000 TO 0015 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 1M  
 SAMPLER HT 1.5M U= 1.4M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/O	EU/O	C1(E/O)	C1(EU/O)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
200	104.3	5.65	-0.191	2.323	108.0	2.11E-03	2.96E-03	1.05E-01	1.47E-01
					110.0	1.94E-03	2.72E-03		
					106.0	1.69E-03	2.36E-03		
800	104.6	5.18	-0.249	2.323	108.0	1.83E-04	2.57E-04	3.77E-02	5.20E-02
					106.0	1.63E-04	2.56E-04		
					110.0	1.78E-04	2.50E-04		

? INDICATES UNCERTAINTIES IN DATA.  
 X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200M AND 800M ONLY. AFTER RATHER BOLD EXTRAPOLATION ON SOUTH END OF 200M ARC, BOTH ARCS EMBRACE CROSSWIND EXTENT OF TRACER. ONLY 3 TOWERS SAMPLING AT EACH ARC, AND ONLY 3 OF THESE INTERCEPT TRACER. NONE OF THE TOWERS EMBRACE THE VERTICAL EXTENT OF THE PLUME DURING THIS UNSTABLE RELEASE.

TEST C2 OCTOBER 17, 1967 0802 TO 0817 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 1M  
 SAMPLER HT 1.5M U= 4.1M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	DEV	SKEW	KURT	AZIMUTH	E/Q	EJ/Q	C1(E/Q)	C1(EJ/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
200	126.67	5.207	-.0827	2.4157	128.0	2.22E-04	9.11E-04	1.05E-027	4.35E-027
					130.0	2.02E-04	8.27E-04		
					126.0	1.87E-04	7.69E-04		
800	126.5	2.59	-.078	2.553	125.0	1.33E-05	7.43E-05	1.86E-03	7.62E-03
					128.0	1.75E-05	7.20E-05		
					124.0	1.12E-05	4.58E-05		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

B-11

GROUND LEVEL AND TOWER SAMPLING AT 230M AND 800M ONLY. BOTH ARCS SEVERELY TRUNCATED AT SOUTH END. ONLY 3 TOWERS SAMPLING AT EACH ARC; 5 OF THE 6 TOWERS INTERCEPT TRACER. NO TOWER COMPLETELY EMBRACES THE VERTICAL EXTENT OF TRACER DURING THIS RELEASE INTO AN UNSTABLE ATMOSPHERE.

TEST C3 OCTOBER 23, 1967 1102 TO 1116 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 1M  
 SAMPLER HT 1.5M J= 9.2M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISPERSSION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
200	119.9X	8.31X	-.502X	2.260X	122.0?	8.09E-05?	6.63E-04?	5.99E-03X	4.91E-02X
					132.0?	7.55E-05?	5.20E-04?		
					124.0?	7.54E-05?	6.18E-04?		
800	121.9X	8.69X	-.712X	2.221X	132.0?	5.25E-06?	4.31E-05?	1.03E-03X	9.47E-03X
					126.0?	4.20E-06?	3.45E-05?		
					123.0?	4.15E-06?	3.41E-05?		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200M AND 300M ONLY. BOTH ARCS TRUNCATED AT SOUTH EDGE. ON 300M-ARC, SUSPECT FURTHER SAMPLING IN SOUTH WOULD HAVE REVEALED A BIMODAL DISTRIBUTION. ONLY 3 TOWERS SAMPLING AT EACH ARC. FOUR TOWERS INTERCEPTED TRACER DURING THIS RELEASE INTO AN UNSTABLE ATMOSPHERE.

TEST C4 OCTOBER 24, 1967 1104 TO 1114 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 1M  
 SAMPLER HT 1.5M J= 4.1M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EJ/Q	C1(E/Q)	C1(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
200	121.6X	6.00X	-.112X	2.205X	122.0	1.04E-04	4.27E-04	6.05E-03X	2.48E-02X
					120.0	9.80E-05	4.02E-04		
					124.0	9.79E-05	4.01E-04		
300	120.4X	4.03X	.749X	3.048X	118.0	6.30E-06	2.58E-05	7.01E-04X	2.87E-03X
					120.0?	4.53E-05?	1.93E-05?		
					116.0?	4.02E-06?	1.65E-05?		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING AT 200M AND 800M ONLY. KRYPTON RELEASED ABOUT 2M TO RIGHT (FACING DOWNWIND) AND 1M BELOW ZNS RELEASE POINT. BOTH ARCS EMBRACE THE CROSSWIND DISTRIBUTION OF TRACER. BOTH TRACER DISTRIBUTIONS EXTENDED ABOVE TOWER TOPS, BUT MAXIMUM CONCENTRATIONS WERE GENERALLY BELOW TOWER TOPS.

TEST C5 NOVEMBER 8, 1967 0512 TO 0532 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
SAMPLER HT 1.5M U= 2.8M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
200	111.5	7.03	.104	2.210	114.0	3.05E-04	8.54E-04	2.16E-02	6.04E-02
					108.0	2.95E-04	8.25E-04		
					104.0	2.82E-04	7.90E-04		
800	109.7	5.45	-.231	1.942	114.0	2.22E-05	6.21E-05	3.40E-03	9.53E-03
					116.0	1.47E-05	4.11E-05		
					108.0	1.46E-05	4.08E-05		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



TEST C5 NOVEMBER 8, 1967 0512 TO 0532 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 1M  
 SAMPLER HT. 1.5M U = 2.8M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/O	EU/O	CI (E/O)	CI (EU/O)
METERS	DEG				DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
200	111.5	6.74	.067	2.117	114.0	2.32E-04	6.50E-04	1.54E-02	4.32E-02
					104.0	2.29E-04	6.41E-04		
					116.0	2.19E-04	6.14E-04		
800	113.2	5.74	-.769	2.699	118.0	3.20E-05	8.96E-05	4.53E-05	1.27E-02
					116.0	2.70E-05	7.57E-05		
					114.0	1.98E-05	5.54E-05		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

SAMPLING 200M TO 3200M: NO TOWER SAMPLING. CROSSWIND DISTRIBUTIONS RATHER BOLDLY EXTRAPOLATED ON NORTH FOR ALL ARCS BEYOND 400M. RELATIVELY FLAT OR MULTIMODAL CROSSWIND DISTRIBUTIONS. ZINC SULFIDE DISPERSAL INTERRUPTED FOR ABOUT 2 MIN STARTING AT 0502; FLUORESCIN ALSO INTERRUPTED FOR ABOUT 45 SEC.

TEST U56 JULY 18, 1967 0445 TO 0515 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
SAMPLER HT 1.5M U = 1.8M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	DEV	SKEW	KURT	AZIMUTH	E/Q	EU/Q	C(E/Q)	C(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
200	55.9?	16.26?	-.464?	2.490?	46.0?	6.09E-05?	1.10E-04?	8.18E-03?	1.47E-02?
					70.0?	5.87E-05?	1.06E-04?		
					74.0?	5.83E-05?	1.05E-04?		
300	52.5	17.10	-.239	2.302	48.0	5.02E-05	9.03E-05	8.51E-03	1.53E-02
					44.0	4.59E-05	8.26E-05		
					64.0	3.62E-05	6.52E-05		
400	52.4	16.46	-.247	2.312	46.0	4.70E-05	8.46E-05	8.37E-03	1.51E-02
					50.0	3.09E-05	5.57E-05		
					54.0	2.93E-05	5.27E-05		
500	53.7?	15.07?	-.372?	2.529?	44.0	3.93E-05	7.07E-05	1.03E-02?	1.86E-02?
					56.0	3.54E-05	6.37E-05		
					52.0	3.44E-05	6.20E-05		
600	51.9?	13.39?	-.391?	2.780?	46.0	3.74E-05	6.74E-05	9.93E-03?	1.79E-02?
					50.0	3.24E-05	5.83E-05		
					54.0	2.37E-05	5.17E-05		
700	51.9?	14.29?	-.185?	2.459?	52.0	2.37E-05	4.27E-05	9.72E-03?	1.75E-02?
					44.0	2.32E-05	4.18E-05		
					48.0	2.26E-05	4.07E-05		
800	51.3?	13.83?	-.184?	2.537?	49.0	2.64E-05	4.76E-05	9.18E-03?	1.65E-02?
					46.0	2.53E-05	4.55E-05		
					52.0	2.11E-05	3.79E-05		
1200	49.7?	13.02?	-.031?	2.773?	48.0	1.74E-05	3.14E-05	4.96E-03?	8.93E-03?
					50.0	1.64E-05	2.96E-05		
					52.0	8.19E-06	1.47E-05		
1600	49.4?	13.08?	-.087?	2.429?	48.0	7.98E-06	1.44E-05	4.30E-03?	7.73E-03?
					50.0	6.40E-06	1.19E-05		
					46.0	4.67E-06	6.40E-06		
3200	49.2?	10.16?	-.197?	2.508?	50.0?	1.45E-06?	2.61E-06?	1.87E-03?	3.37E-03?
					52.0?	1.45E-06?	2.61E-06?		
					48.0?	1.34E-06?	2.41E-06?		



SAMPLING 400M TO 3200M; NO TOWER SAMPLING.  
 TRACEK DISTRIBUTION EXTENDS BEYOND SAMPLERS AT 3200M, AND TO LESSEK EXTENT AT 1600M. ZNS EXTRAPOLATED AT  
 3200M. STRONG LOW-LEVEL TEMPERATURE INVERSION.

TEST U57 AUGUST 1, 1967 0450 TO 0520 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
 SAMPLER HT 1.5M U = 1.5M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/W)	CI(EU/W)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	102.4	6.01	-.714	3.137	106.0	3.13E-04	4.69E-04	2.55E-02	3.83E-02
					102.0	2.10E-04	3.16E-04		
					94.0	1.34E-04	2.01E-04		
600	103.0	5.13	-.001	4.413	106.0	3.14E-04	4.71E-04	3.67E-02	5.50E-02
					102.0	1.96E-04	2.94E-04		
					98.0	1.60E-04	2.39E-04		
700	105.0	3.65	-1.062	5.514	108.0	3.97E-04	5.95E-04	4.23E-02	6.35E-02
					104.0	2.61E-04	4.21E-04		
					100.0	1.45E-04	2.18E-04		
800	104.2	5.25	-.506	3.827	106.0	1.53E-04	2.29E-04	1.99E-02	2.99E-02
					100.0	8.30E-05	1.25E-04		
					109.0	7.56E-05	1.14E-04		
1200	106.3	4.15	-1.508	12.276	108.0	9.76E-05	1.46E-04	1.65E-02	2.48E-02
					110.0	7.10E-05	1.07E-04		
					106.0	5.75E-05	8.63E-05		
1600	106.1	4.88	-2.497	14.753	104.0	3.46E-05	5.20E-05	8.75E-03	1.31E-02
					110.0	3.45E-05	5.17E-05		
					108.0	2.97E-05	4.45E-05		
3200	104.0?	10.11?	-.122?	1.626?	114.0	2.46E-06	3.69E-06	2.11E-03?	3.16E-03?
					116.0?	2.00E-06?	2.99E-06?		
					90.0	1.82E-06	2.73E-06		

? INDICATES UNCERTAINTIES IN DATA.

x INDICATES INVALID OR INCOMPLETE DATA.

TEST U57      AUGUST 1, 1967      0450 TO 0520 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 26M  
 SAMPLER HT 1.5M      U = 3.4M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	C1(E/Q)	C1(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	107.3?	11.17?	-.802?	2.926?	118.0?	1.55E-07?	5.29E-07?	1.77E-05?	6.02E-05?
					106.0?	1.36E-07?	4.61E-07?		
					114.0?	6.17E-08?	2.10E-07?		
600	103.5?	5.48?	.342?	4.125?	106.0?	6.79E-08?	2.31E-07?	8.09E-06?	2.75E-05?
					102.0?	4.66E-08?	1.58E-07?		
					98.0?	2.62E-08?	6.89E-08?		
700	95.0	16.09	-.812	2.363	108.0	1.36E-07	4.61E-07	2.30E-05	7.83E-05
					76.0	8.60E-08	2.99E-07		
					104.0	6.33E-08	2.15E-07		
800	104.9	9.90	-1.581	7.745	106.0	6.00E-08	2.04E-07	1.09E-05	3.70E-05
					100.0	5.18E-08	1.76E-07		
					109.0	3.54E-08	1.20E-07		
1200	108.6	7.49	-1.786	8.643	110.0	5.01E-07	1.70E-06	1.02E-04	3.46E-04
					112.0	3.54E-07	1.20E-06		
					108.0	2.90E-07	9.84E-07		
1600	111.1?	5.79?	-2.942?	19.679?	110.0	1.36E-06	4.64E-06	3.11E-04?	1.06E-03?
					112.0	1.27E-06	4.31E-06		
					114.0	6.93E-07	2.36E-06		
3200	108.7X	8.28X	-1.558X	4.197X	114.0?	6.50E-06?	2.21E-05?	1.34E-03X	4.55E-03X
					112.0?	1.32E-06?	4.48E-06?		
					110.0?	6.58E-07?	2.17E-06?		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

B-19

057

SAMPLING 400M TO 3200M: NO TOWER SAMPLING.  
 ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER DISTRIBUTIONS.  
 UNUSUAL APPEARANCE OF ZNS REMAINING IN DISPERSAL APPARATUS FOLLOWING TRACER RELEASE LEAVES SOME DOUBT ON "Q".

TEST U58 AUGUST 24, 1967 0415 TO 0445 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 2M  
 SAMPLER HT 1.5M U = 3.2M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT OF SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CO.M	1/SQ.M	SEC/SQ.M	1/M
400	92.7	5.71	-.312	2.853	90.0	2.09E-05	6.66E-05	2.22E-03	7.10E-03
					94.0	2.02E-05	6.46E-05		
					98.0	1.64E-05	5.25E-05		
600	95.6	3.76	-.317	6.361	94.0	1.27E-05	4.06E-05	9.00E-04	2.88E-03
					98.0	4.05E-06	1.29E-05		
					102.0	3.35E-06	1.07E-05		
700	92.6	6.05	-.206	2.495	96.0	7.32E-06	2.34E-05	1.41E-03	4.51E-03
					92.0	7.15E-06	2.29E-05		
					100.0	4.46E-06	1.43E-05		
800	93.2	5.80	-.198	2.391	91.0	8.02E-06	2.57E-05	1.66E-03	5.32E-03
					94.0	7.29E-06	2.33E-05		
					100.0	6.81E-06	2.10E-05		
1200	93.1	5.79	.062	2.235	90.0	2.80E-06	8.97E-06	6.59E-04	2.11E-03
					92.0	2.28E-06	7.28E-06		
					100.0	2.19E-06	7.00E-06		
1600	94.7	5.19	-.143	2.466	90.0	1.38E-06	4.42E-06	5.41E-04	1.73E-03
					92.0	1.34E-06	4.30E-06		
					93.0	1.27E-06	4.05E-06		
3200	95.4	4.53	.164	2.183	92.0	4.78E-07	1.53E-06	2.66E-04	8.51E-04
					98.0	3.28E-07	1.05E-06		
					94.0	3.10E-07	9.92E-07		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U58 AUGUST 24, 1967 0415 TO 0445 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 26M  
 SAMPLER HT 1.5M U= 5.6M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	Coefficient of Skew	Coefficient of Kurt	AZIMUTH	E/Q	E <sup>2</sup> /Q	C <sub>I</sub> (E/Q)	C <sub>I</sub> (E <sup>2</sup> /Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	94.4	5.75	-.059	2.598	94.0	8.05E-06	4.51E-05	8.78E-04	4.91E-03
					90.0	7.70E-06	4.31E-05		
					98.0	5.95E-06	3.33E-05		
600	95.0	4.67	.200	2.266	94.0	1.10E-05	6.17E-05	1.35E-03	7.54E-03
					90.0	7.70E-06	4.31E-05		
					102.0	5.95E-06	3.33E-05		
700	94.8	4.81	.205	2.606	92.0	1.26E-05	7.06E-05	1.86E-03	1.04E-02
					96.0	9.97E-06	5.59E-05		
					100.0	6.65E-06	3.72E-05		
800	94.9	5.54	-.322	2.580	94.0	9.62E-06	5.39E-05	2.07E-03	1.16E-02
					91.0	9.27E-06	5.19E-05		
					100.0	9.27E-06	5.19E-05		
1200	94.9	5.03	-.173	2.606	92.0	7.03E-06	3.94E-05	1.65E-03	9.27E-03
					90.0	5.95E-06	3.33E-05		
					94.0	5.56E-06	3.12E-05		
1600	95.0	4.56	-.027	2.464	92.0	5.76E-06	3.22E-05	1.84E-03	1.03E-02
					94.0	5.56E-06	3.12E-05		
					96.0	4.83E-06	2.73E-05		
3200	96.7	4.42	-.056	2.173	94.0	1.93E-06	1.06E-05	1.13E-03	6.32E-03
					96.0	1.57E-06	8.60E-06		
					102.0	1.47E-06	8.23E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

B-21

SAMPLING BOOM TO 12800M, NO TOWER SAMPLING.  
 EQUIPMENT DIFFICULTIES DURING ASSAY OF FLUORESCENCE FILTERS FOR 800M, 1200M, AND 2200M ARCS.  
 5000M ARC TRUNCATED ON NORTH. 7000M AND 12800M ARC DATA EXTRAPOLATED SLIGHTLY TO NORTH.

TEST U59 JUNE 3, 1968 0212 TO 0232 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 SAMPLER HT 1.5M U = 3.4M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	CORRECTION SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/SQ.M	SEC/SQ.M	1/M
800	76.1	8.52	.279	2.524	76.0	1.39E-05	4.73E-05	4.50E-03	1.53E-02
					70.0	1.33E-05	4.51E-05		
					79.0	1.23E-05	4.18E-05		
1200	77.3	8.19	.253	2.518	72.0	8.34E-06	2.84E-05	3.71E-03	1.26E-02
					70.0	7.77E-06	2.64E-05		
					74.0	7.58E-06	2.58E-05		
1600	79.1	8.66	.473	2.643	74.0	6.94E-06	2.36E-05	3.78E-03	1.28E-02
					72.0	6.41E-06	2.18E-05		
					76.0	6.38E-06	2.17E-05		
2200	79.7	8.30	.656	2.888	73.0	4.39E-06	1.49E-05	2.59E-03	8.82E-03
					74.0	4.06E-06	1.38E-05		
					72.0	3.52E-06	1.20E-05		
3200	84.3	7.64	.643	3.119	83.8	2.10E-06	7.13E-06	1.58E-03	5.37E-03
					75.7	1.63E-06	5.55E-06		
					84.8	1.58E-06	5.36E-06		
5000	94.0X	7.52X	.199X	1.914X	90.0	1.00E-06	3.41E-06	7.17E-04X	2.44E-03X
					100.0	6.34E-07	2.15E-06		
					84.0	4.10E-07	1.39E-06		
7000	90.6	7.71	.410	2.961	92.0	4.82E-07	1.64E-06	3.96E-04	1.35E-03
					84.0	2.59E-07	8.81E-07		
					86.0	1.58E-07	5.37E-07		
12800	99.1	4.32	.071	2.577	100.0	6.27E-08	2.13E-07	1.03E-04	3.49E-04
					101.0	4.68E-08	1.59E-07		
					98.0	4.53E-08	1.54E-07		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



TEST U59 JUNE 3, 1968 0212 TL 0232 PST  
 FLUORESCEN RELEASE FROM ELEVATION OF 2M  
 SAMPLER HT 1.5M U = 1.9M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
800	67.7?	8.40?	.619?	2.797?	64.0	2.77E-05?	5.26E-05?	6.52E-03?	1.24E-02?
					61.0	2.61E-05?	4.95E-05?		
					70.0	1.69E-05?	3.20E-05?		
1200	71.0?	8.03?	.338?	2.503?	72.0	9.57E-06?	1.02E-05?	3.54E-03?	6.73E-03?
					68.0	9.11E-06?	1.73E-05?		
					62.0	7.97E-06?	1.51E-05?		
1600	72.1	7.23	.720	3.133	72.0	9.80E-06	1.06E-05	3.36E-03	6.38E-03
					70.0	7.74E-06	1.47E-05		
					68.0	7.29E-06	1.38E-05		
2200	74.7?	7.00?	.476?	3.023?	76.0	4.86E-06?	9.23E-06?	2.90E-03?	5.63E-03?
					72.0	4.74E-06?	9.01E-06?		
					78.0	3.91E-06?	7.43E-06?		
3200	80.6	6.41	.674	3.077	75.7	1.99E-06	3.78E-06	1.57E-03	2.99E-03
					77.8	1.70E-06	3.35E-06		
					74.7	1.74E-06	3.30E-06		
5000	89.2X	5.84X	.992X	3.547X	90.0	6.90E-07	1.31E-06	5.83E-04X	1.11E-03X
					84.0	5.76E-07	1.09E-06		
					88.0	4.50E-07	8.70E-07		
7000	87.7	7.29	.242	3.246	92.0	3.84E-07	7.30E-07	5.71E-04	1.09E-03
					84.0	3.77E-07	7.16E-07		
					82.0	2.88E-07	5.47E-07		
12800	98.6	3.77	-.157	3.199	98.0	1.47E-07	2.79E-07	2.46E-04	4.67E-04
					100.0	1.32E-07	2.51E-07		
					96.0	1.03E-07	1.97E-07		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

B-23

SAMPLING 800M TO 12800M, NO TOWER SAMPLING. MUCH DUST ON FILTERS. MANY FIELD PROBLEMS, MINIMAL EFFORT MADE TO "CORRECT" DATA DUE TO THE LARGE NUMBER OF UNCERTAINTIES. VERY SKEWED DISTRIBUTION. MOST ARCS ARE TRUNCATED ON NORTH END.

TEST U60 JUNE 4, 1968 0216 TO 0246 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 SAMPLER HT 1.5M U = 4.0M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT OF SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
800	128.7X	17.57X	-2.382X	9.243X	129.5? 142.4? 131.4?	7.43E-06? 6.85E-06? 6.44E-06?	2.97E-05? 2.74E-05? 2.54E-05?	1.85E-03X	7.42E-03X
1200	125.8X	13.01X	-2.557X	11.700X	130.0? 128.0? 132.0?	7.39E-06? 6.69E-06? 5.74E-06?	2.96E-05? 2.63E-05? 2.29E-05?	2.24E-03X	8.98E-03X
1600	129.2X	7.38X	-2.974X	21.066X	130.6? 128.8? 129.7?	2.09E-05? 2.07E-05? 2.06E-05?	8.35E-05? 8.29E-05? 8.25E-05?	5.38E-03X	2.15E-02X
2200	129.6?	7.52?	-3.131?	20.805?	132.0? 126.0? 128.0?	1.05E-05? 3.76E-06? 3.57E-06?	4.19E-05? 1.51E-05? 1.43E-05?	1.86E-03X	7.45E-03X
3200	127.7	8.21	-2.182	9.273	132.2 133.2 131.2	6.63E-06 6.22E-06 5.37E-06	2.65E-05 2.49E-05 2.15E-05	2.61E-03	1.04E-02
5000	113.8X	12.31X	-4.438X	2.606X	106.0? 128.0? 118.0?	4.55E-07? 3.44E-07? 3.13E-07?	1.82E-06? 1.38E-06? 1.25E-06?	5.07E-04X	2.03E-03X
7000	108.2X	13.45X	-1.697X	2.552X	114.0? 116.0? 122.0?	7.82E-07? 6.10E-07? 5.36E-07?	3.13E-06? 2.44E-06? 2.14E-06?	1.76E-03X	7.04E-03X
12800	132.0?	5.28?	-.072?	2.235?	132.0? 135.0? 137.0?	8.22E-09? 6.91E-09? 5.36E-09?	3.29E-08? 2.76E-08? 2.14E-08?	1.43E-05?	5.72E-05?

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U60 JUNE 4, 1968 0216 TO 0246 PST  
 FLUORESCENCE RELEASE FROM ELEVATION OF 2M  
 SAMPLER HT 1.5M U= 1.2M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	Coefficient of Skew	Coefficient of Kurt	AZIMUTH	E/Q	EU/Q	C1(E/Q)	C1(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
800	110.8X	17.53X	-1.275X	6.032X	116.4? 114.5? 112.6?	6.91E-05? 3.33E-05? 3.09E-05?	8.29E-05? 4.00E-05? 3.70E-05?	9.58E-03X	1.15E-02X
1200	117.2X	15.38X	-2.292X	8.399X	124.0? 126.0? 122.0?	5.61E-05? 6.61E-05? 6.44E-05?	7.93E-05? 7.93E-05? 7.73E-05?	2.40E-02X	2.88E-02X
1600	120.9X	14.01X	-2.497X	10.084X	127.8? 124.1? 125.9?	2.93E-05? 2.77E-05? 2.77E-05?	3.51E-05? 3.32E-05? 3.32E-05?	1.07E-02X	1.29E-02X
2200	117.5X	17.37X	-2.026X	6.736X	126.0? 128.0? 122.0?	8.56E-06? 7.12E-06? 3.93E-06?	1.03E-05? 8.54E-06? 4.71E-06?	2.93E-03X	3.51E-03X
3200	116.9X	14.99X	-1.390X	5.097X	131.2 130.3 129.3	4.74E-06 4.19E-06 2.65E-06	5.69E-06 5.03E-06 3.17E-06	2.92E-03?	3.50E-03?
5000	104.6X	12.48X	-.005X	2.362X	100.0 106.0 102.0	4.95E-07 4.82E-07 4.74E-07	5.94E-07 5.79E-07 5.69E-07	1.17E-03X	1.40E-03X
7000	95.0X	12.40X	.437X	2.359X	94.0? 90.0? 92.0?	3.97E-07? 3.86E-07? 3.83E-07?	4.76E-07? 4.63E-07? 4.63E-07?	1.40E-03X	1.68E-03X
12800	127.3?	2.48?	.625?	2.442?	126.0? 125.0? 129.0?	1.27E-08? 7.26E-09? 6.94E-09?	1.52E-08? 8.71E-09? 8.33E-09?	1.14E-05?	1.37E-05?

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

B-25

U60

SAMPLING BOOM TO 12800M, NO TOWER SAMPLING. ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER.  
 NOT ENOUGH TRACER SAMPLED ON 5000M ARC TO CONFIDENTLY INTERPOLATE QUESTIONABLE DATA POINTS.  
 THIRTY MIN OF ZINC SULFIDE DISPERSAL, 15 MIN OF FLOURESCCEIN DISPERSAL.

TEST U61 JUNE 6, 1968 0106 TO 0136 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 SAMPLER HT 1.5M U = 8.5M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	Coefficient SKEW	KURT	AZIMUTH	E/W	EU/W	C1(E/W)	C1(EU/W)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	112.7?	2.74?	-.186?	3.140?	112.6 114.5? 110.7	1.25E-05 1.25E-05? 1.04E-05	1.07E-04 1.06E-04? 8.36E-05	1.39E-03?	1.18E-02?
1200	112.3	2.79	-.029	2.863	112.0 114.0 110.0	6.14E-06 5.53E-06 4.30E-06	5.22E-05 4.70E-05 3.66E-05	9.33E-04	7.93E-03
1600	111.6	2.51	-.115	2.829	111.4 112.4 113.4	4.46E-06 4.41E-06 3.71E-06	3.79E-05 3.75E-05 3.16E-05	7.97E-04	6.77E-03
2200	110.6	2.21	.387	3.050	110.0 112.0 108.0	3.09E-06 2.21E-06 2.10E-06	2.63E-05 1.88E-05 1.78E-05	6.76E-04	5.75E-03
3200	109.6	2.28	.064	2.454	108.8 109.7 107.8	1.01E-06 9.60E-07 8.79E-07	8.59E-06 8.16E-06 7.47E-06	3.54E-04	3.01E-03
5000	109.4?	1.95X	-.763X	4.719X	110.0? 106.0? 112.0?	3.58E-07? 6.74E-08? 3.11E-08?	3.04E-06? 5.73E-07? 2.65E-07?	8.79E-05X	7.47E-04X
7000	109.6?	2.01?	.490?	3.560?	110.0? 108.0 112.0	1.46E-07 1.18E-07 4.16E-08	1.24E-06 1.00E-06 3.54E-07	8.56E-05	7.27E-04
12800	111.7	1.82	-.114	3.291	112.0 113.0 111.0	4.09E-08 3.32E-08 2.97E-08	3.47E-07 2.82E-07 2.53E-07	3.56E-05	3.03E-04

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U61 JUNE 6, 1968 0106 TO 0121 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 2M  
 SAMPLER HT 1.5M U = 5.2M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	1/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/SQ.M	SEC/SQ.M	1/M
800	110.3	2.50	.073	3.348	108.8	3.42E-05	1.79E-04	3.19E-03	1.61E-02
					110.7	3.20E-05	1.67E-04		
					112.6	2.14E-05	1.11E-04		
1200	109.4	2.43	.546	5.353	108.0	8.99E-06	4.68E-05	1.18E-03	6.15E-03
					110.0	5.43E-06	4.41E-05		
					112.0	5.27E-06	2.74E-05		
1600	109.3	2.30	.068	3.355	109.5	7.05E-06	3.97E-05	1.29E-03	6.69E-03
					108.5	7.21E-06	3.75E-05		
					111.4	6.79E-06	3.53E-05		
2200	106.9	1.62	.490	7.322	108.0	4.05E-06	2.52E-05	6.90E-04	3.59E-03
					110.0	3.10E-06	1.61E-05		
					112.0	5.26E-07	2.74E-06		
3200	107.9	2.06	.264	2.845	106.8	1.42E-06	7.37E-06	3.61E-04	1.88E-03
					107.8	1.18E-06	6.14E-06		
					108.8	1.02E-06	5.32E-06		
5000	107.3?	2.28X	.508X	3.458X	106.0?	3.09E-07?	1.92E-06?	8.39E-05X	4.36E-04X
					110.0?	2.56E-07?	1.34E-06?		
					104.0?	7.21E-08?	3.75E-07?		
7000	108.9	2.07	-.166	3.683	108.0	3.03E-07	1.58E-06	2.14E-04	1.11E-03
					110.0	3.03E-07	1.58E-06		
					106.0	1.32E-07	6.84E-07		
12600	110.7	1.88	.064	2.699	113.0	8.28E-08	4.31E-07	7.82E-05	4.06E-04
					109.0	6.96E-08	3.62E-07		
					110.0	6.52E-08	3.39E-07		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

B-27

SAMPLING 800M TO 12800M, NO TOWER SAMPLING. ALL AKCS EMBRACED CROSSWIND EXTENT OF TRACER.  
 ZINC SULFIDE DISPERSED FOR 30 MIN. DISPERSAL DIFFICULTIES RESTRICTED FLUOGRESCEIN DISPERSAL TO 19.5 MIN.  
 LIGHT RAIN FELL AFTER TRACER RELEASE ENDED BUT BEFUKE ALL FILTERS COLLECTED, NO OBVIOUS EFFECT ON TRACERS.

TEST U62 JUNE 7, 1968 0100 TO 0130 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 SAMPLER HT 1.5M U= 5.4M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	C1(E/Q)	C1(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
800	108.5	4.39	.158	2.620	106.9	1.08E-05	9.08E-05	1.76E-03	1.48E-02
					108.8	1.06E-05	8.87E-05		
					105.0	9.24E-06	7.76E-05		
1200	108.8	4.08	.169	2.613	108.0	5.27E-06	4.43E-05	1.06E-03	8.88E-03
					106.0	4.28E-06	3.60E-05		
					110.0	3.68E-06	3.09E-05		
1600	109.4	3.77	.086	2.548	109.5	2.93E-06	2.46E-05	5.69E-04	4.78E-03
					105.5	1.78E-06	1.49E-05		
					108.5	1.74E-06	1.46E-05		
2200	109.6	3.61	.209	2.742	110.0	1.72E-06	1.45E-05	6.27E-04	5.27E-03
					108.0	1.71E-06	1.44E-05		
					106.0	1.25E-06	1.05E-05		
3200	110.0	3.18	-.043	2.277	112.7	1.23E-06	1.03E-05	5.27E-04	4.43E-03
					110.7	9.88E-07	8.30E-06		
					106.8	9.79E-07	8.22E-06		
5000	110.5	2.54	.000	2.983	110.0	6.17E-07	5.19E-06	3.63E-04	3.05E-03
					112.0	5.72E-07	4.81E-06		
					108.0	3.66E-07	3.24E-06		
7000	110.9	2.26	-.165	4.848	112.0	2.75E-07	2.31E-06	1.95E-04	1.64E-03
					110.0	2.66E-07	2.23E-06		
					114.0	1.07E-07	9.02E-07		
12800	111.4	1.34	-.192	4.116	111.0	2.94E-07	2.47E-06	1.98E-04	1.67E-03
					112.0	2.12E-07	1.78E-06		
					110.0	1.38E-07	1.16E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U62          JUNE 7, 1968      0100 TO 0120 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 2M  
 SAMPLER HT 1.5M                      U = 5.4M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT OF SKREW	KURT	AZIMUTH	E/Q	EU/Q	C1(E/Q)	C1(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
800	105.5	3.52	.325	2.886	103.0	3.34E-05	1.80E-04	4.29E-03	2.31E-02
					105.0	3.28E-05	1.77E-04		
					107.0	2.55E-05	1.38E-04		
1200	106.0	3.28	.140	2.940	104.0	5.52E-06	2.98E-05	1.05E-03	5.67E-03
					106.0	5.52E-06	2.98E-05		
					108.0	5.01E-06	2.70E-05		
1600	106.1	3.05	.129	2.602	106.5	2.75E-06	1.48E-05	5.43E-04	2.93E-03
					109.5	2.41E-06	1.30E-05		
					103.6	2.33E-06	1.26E-05		
2200	106.9	2.67	.396	3.220	106.0	2.60E-06	1.40E-05	6.37E-04	3.44E-03
					108.0	1.99E-06	1.07E-05		
					104.0	1.53E-06	8.54E-06		
3200	107.6	2.37	.337	3.028	106.8	1.96E-06	1.06E-05	5.43E-04	2.93E-03
					107.8	1.54E-06	8.33E-06		
					105.8	1.43E-06	7.72E-06		
5000	109.1	2.17	.127	3.116	110.0	6.51E-07	3.52E-06	3.09E-04	1.67E-03
					108.0	5.18E-07	2.80E-06		
					106.0	3.09E-07	1.67E-06		
7000	110.2	2.92	-.048	2.786	112.0	1.65E-07	8.90E-07	8.73E-05	4.71E-04
					108.0	1.61E-07	8.70E-07		
					106.0	5.13E-08	2.77E-07		
12800	111.8	1.45	.181	3.748	112.0	2.39E-07	1.29E-06	1.75E-04	9.44E-04
					111.0	1.91E-07	1.03E-06		
					113.0	1.25E-07	6.74E-07		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

SAMPLING 400M TO 12800M, NO TOWER SAMPLING.  
 ZINC SULFIDE DISPERSED FOR 30 MIN. DISPERSAL DIFFICULTIES RESTRICTED FLUORESCIN DISPERSAL TO 25 MIN.  
 2200M AND 12800M ARCS TRUNCATED ON NORTH; 12800M DATA EXTRAPOLATED SLIGHTLY .

TEST U63 JUNE 24, 1968 0100 TO 0130 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 SAMPLER HT 1.5M U = 6.0M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	CORRECTION SKEW	KURT	AZIMUTH	E/Q	EU/Q	C1(E/Q)	C1(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	109.0	2.66	-.442	3.667	110.0	2.57E-05	1.54E-04	1.16E-03	6.96E-03
					106.0	1.07E-05	6.44E-05		
					114.0	3.53E-06	2.12E-05		
800	109.3	2.49	-.198	2.755	108.8	4.42E-05	2.65E-04	3.94E-03	2.37E-02
					110.7	3.20E-05	1.92E-04		
					112.6	2.55E-05	1.53E-04		
1200	109.2	2.11	-.066	2.791	110.0	2.78E-05	1.67E-04	3.54E-03	2.13E-02
					108.0	2.78E-05	1.67E-04		
					112.0	1.49E-05	8.93E-05		
1600	109.2	1.97	.007	2.664	108.5	2.19E-05	1.31E-04	3.11E-03	1.87E-02
					110.4	2.14E-05	1.28E-04		
					107.5	1.62E-05	9.73E-05		
2200	110.4X	.91X	2.105X	6.974X	110.0X	1.52E-05X	9.13E-05X	1.44E-03X	8.64E-03X
					112.0X	3.18E-06X	1.91E-05X		
					114.0X	3.50E-07X	2.10E-06X		
3200	108.6?	2.32?	-1.310?	6.278?	108.8?	8.74E-06?	5.24E-05?	2.37E-03?	1.42E-02?
					109.7?	8.39E-06?	5.03E-05?		
					107.8?	6.78E-06?	4.07E-05?		
5000	106.6	3.28	-.448	2.805	106.0	1.24E-06	7.46E-06	9.03E-04	5.42E-03
					108.0	1.22E-06	7.30E-06		
					110.0	1.09E-06	6.52E-06		
7000	105.9	3.64	-.446	2.533	108.0	8.12E-07	4.87E-06	6.92E-04	4.15E-03
					104.0	6.94E-07	4.17E-06		
					110.0	5.11E-07	3.06E-06		
12800	105.8	4.89	-.852	4.642	107.0	8.63E-07	5.18E-06	1.08E-03	6.51E-03
					108.0	8.28E-07	4.97E-06		
					109.0	5.58E-07	3.35E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



TEST U63 JUNE 24, 1968 0105 TO 0130 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 2M  
 SAMPLER HT 1.5M U= 3.0M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	Coefficient SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	106.5	3.24	-.579	4.514	106.0	2.51E-04	6.94E-04	1.23E-02	3.70E-02
					110.0	1.36E-04	4.09E-04		
					102.0	4.75E-05	1.42E-04		
800	107.3	2.37	-.464	3.294	108.8	1.20E-04	3.61E-04	1.00E-02	3.01E-02
					106.9	1.13E-04	3.39E-04		
					105.0	5.09E-05	1.53E-04		
1200	107.5	2.11	-.190	2.822	108.0	3.64E-05	1.09E-04	4.05E-03	1.22E-02
					106.0	2.44E-05	7.32E-05		
					110.0	2.11E-05	6.33E-05		
1600	107.8	1.84	-.082	3.630	107.5	2.52E-05	7.57E-05	3.37E-03	1.01E-02
					108.5	2.44E-05	7.33E-05		
					106.5	2.12E-05	6.55E-05		
2200	110.1X	.54X	3.796X	18.330X	110.0X	4.21E-06X	1.26E-05X	3.47E-04X	1.04E-03X
					112.0X	3.03E-07X	9.08E-07X		
					114.0X	1.06E-06X	3.18E-08X		
3200	106.8	2.96	-1.410	5.840	107.8	5.96E-06	1.79E-05	1.69E-03	5.07E-03
					106.8	4.97E-06	1.49E-05		
					108.8	4.86E-06	1.46E-05		
5000	105.2	3.54	-.651	3.144	108.0	1.12E-06	3.37E-06	7.35E-04	2.21E-03
					106.0	1.01E-06	3.03E-06		
					104.0	7.18E-07	2.15E-06		
7000	104.1	3.88	-.186	2.351	104.0	5.61E-07	1.68E-06	6.56E-04	1.97E-03
					106.0	4.91E-07	1.47E-06		
					108.0	4.10E-07	1.23E-06		
12800	104.6	4.53	-.826	4.184	107.0	4.44E-07	1.33E-06	6.35E-04	1.91E-03
					108.0	3.63E-07	1.15E-06		
					106.0	3.70E-07	1.11E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

SAMPLING 400M TO 7000M. NO TOWER SAMPLING. ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER.  
 ZINC SULFIDE DISPERSED FOR 30 MIN, DISPERSAL DIFFICULTIES RESTRICTED FLUORESCENCE DISPERSAL TO 20 MIN.  
 LARGE WIND DIRECTION SHEAR BETWEEN TRACER RELEASE LEVELS. TRACER DISTRIBUTIONS SKEWED LONG TAIL TO THE NORTH.

TEST U64 JUNE 25, 1968 0347 TO 0417 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 SAMPLER HT 1.5M U = 5.3M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	EFFICIENCY		AZIMUTH	E/C	E/D	C(E)/U	C(E)/Q
METERS	DEG	DEG	SKEW	KURT	DEG	SEC/CM.H	1/SQ.M	SEC/SQ.M	1/M
400	111.7	4.60	-1.793	10.450	114.0	3.24E-06	1.72E-05	1.83E-04	9.72E-04
					110.0	2.00E-06	1.06E-05		
					106.0	5.21E-07	2.76E-06		
900	112.5	5.05	-.417	2.796	114.5	5.32E-06	2.82E-05	8.52E-04	4.52E-03
					112.6	4.43E-06	2.35E-05		
					116.4	4.37E-06	2.32E-05		
1200	113.1	4.98	-.426	3.026	114.0	6.66E-06	3.53E-05	1.40E-03	7.44E-03
					112.0	4.75E-06	2.52E-05		
					110.0	4.42E-06	2.34E-05		
1600	114.4	5.55	-.439	2.694	121.2	4.94E-06	2.62E-05	1.78E-03	9.42E-03
					116.3	4.59E-06	2.43E-05		
					118.2	4.58E-06	2.43E-05		
2200	111.6	3.94	.860	5.545	110.0	5.06E-06	2.68E-05	8.08E-04	4.23E-03
					112.0	1.52E-06	8.03E-06		
					108.0	1.03E-06	5.44E-06		
3200	120.1	5.51	-.355	2.718	113.7	3.19E-06	1.69E-05	1.67E-03	8.86E-03
					125.4	2.89E-06	1.53E-05		
					116.6	2.57E-06	1.36E-05		
5000	126.9	3.58	-3.267	21.874	128.0	2.83E-06	1.50E-05	9.56E-04	5.06E-03
					130.0	7.66E-07	4.06E-06		
					124.0	7.47E-07	3.96E-06		
7000	128.97	3.317	-2.572	26.8577	128.07	3.40E-067	1.80E-057	2.38E-03X	1.26E-02X
					130.07	3.07E-067	1.63E-057		
					132.07	1.12E-067	5.94E-067		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U64                  JUNE 25, 1968                  0347 TO 0407 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 2M  
 SAMPLER HT 1.5M                                  U= 1.6M/SEC AT 2M

DISTANCE FRM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	90.2	5.11	.414	3.877	90.0	1.71E-04	2.74E-04	1.40E-02	2.24E-02
					94.0	1.06E-04	1.69E-04		
					86.0	1.00E-04	1.60E-04		
800	96.6	6.89	-.229	2.205	97.1	5.54E-05	8.87E-05	1.52E-02	2.43E-02
					91.0	5.38E-05	8.61E-05		
					101.0	5.16E-05	8.25E-05		
1200	95.7	6.13	.205	2.339	94.0	2.90E-05	4.63E-05	1.07E-02	1.72E-02
					92.0	2.79E-05	4.46E-05		
					96.0	2.79E-05	4.46E-05		
1600	98.6	5.39	.310	2.588	94.6	2.64E-05	4.22E-05	8.30E-03	1.33E-02
					93.6	2.18E-05	3.50E-05		
					95.6	2.12E-05	3.39E-05		
2200	101.7	4.95	.176	3.767	100.0	7.52E-06	1.20E-05	2.11E-03	3.36E-03
					102.0	4.26E-06	6.81E-06		
					96.0	2.50E-06	4.01E-06		
3200	110.4	4.79	-1.140	6.141	113.7	4.76E-06	7.62E-06	1.70E-03	2.72E-03
					112.7	3.97E-06	6.35E-06		
					109.7	2.48E-06	3.97E-06		
5000	117.6	6.81	-.891	4.500	120.0	7.85E-07	1.26E-06	7.35E-04	1.18E-03
					122.0	6.01E-07	9.62E-07		
					118.0	5.58E-07	8.93E-07		
7000	123.7	7.09	-1.788	6.823	126.0	1.13E-06	1.82E-06	1.11E-03	1.78E-03
					128.0	8.73E-07	1.40E-06		
					130.0	6.11E-07	9.77E-07		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

SAMPLING 400M TO 12800M, NO TOWER SAMPLING.  
 BIMODAL DISTRIBUTION FOR BOTH TRACERS.  
 TRACER DISTRIBUTIONS TRUNCATED ON NDRTH EDGE BEYOND 2200M ARC.

TEST U65 JUNE 27, 1968 0332 TO 0402 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 SAMPLER HT 1.5M U = 5.5M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	C(E/Q)	C(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	78.7?	10.53?	.232?	1.504?	70.0?	6.46E-06?	3.55E-05?	6.35E-04?	3.49E-03?
					90.0?	4.40E-06?	2.42E-05?		
					74.0?	3.34E-06?	1.84E-05?		
800	81.3	10.38	-.039	1.560	91.0	1.16E-05	6.40E-05	3.07E-03	1.69E-02
					70.0	1.11E-05	6.12E-05		
					73.0	1.10E-05	6.03E-05		
1200	80.7	10.06	-.245	1.559	95.0	9.23E-06	5.07E-05	2.93E-03	1.61E-02
					88.0	8.76E-06	4.82E-05		
					92.0	6.25E-06	3.44E-05		
1600	80.5	11.03	-.176	1.430	70.0	3.79E-06	2.08E-05	1.64E-03	9.03E-03
					92.0	3.58E-06	1.97E-05		
					88.0	3.15E-06	1.73E-05		
2200	77.7	10.63	-.172	1.692	86.0	1.18E-06	6.47E-06	7.38E-04	4.06E-03
					90.0	1.07E-06	5.86E-06		
					68.0	9.30E-07	5.12E-06		
3200	82.5?	7.71?	-1.180X	4.060X	87.8	2.21E-06	1.22E-05	1.24E-03?	6.84E-03?
					58.8	1.98E-06	1.09E-05		
					62.8	1.33E-06	7.33E-06		
5000	85.8X	2.99X	.724X	4.094X	86.0?	4.61E-07?	2.54E-06?	2.92E-04X	1.61E-03X
					82.0?	3.53E-07?	2.16E-06?		
					84.0?	3.58E-07?	1.97E-06?		
7000	82.6X	3.66X	1.188X	5.604X	82.0?	6.15E-07?	3.38E-06?	2.11E-04X	1.16E-03X
					76.0?	6.21E-06?	3.41E-07?		
					90.0?	5.38E-06?	2.96E-07?		
12800	93.2X	1.96X	.281X	1.551X	91.0X	4.47E-08X	2.46E-07X	3.40E-05X	1.87E-04X
					92.0X	3.45E-08X	1.90E-07X		
					96.0X	2.65E-08X	1.46E-07X		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U65          JUNE 27, 1968      0332 TO 0402 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 2M  
 SAMPLER HT 1.5M                      U = 3.0M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE-MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	Coefficient of SKEW	KURT	AZIMUTH	E/W	EU/W	C(E/W)	C(EU/W)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	73.4?	11.10?	.561?	1.906?	66.0? 70.0? 62.0?	3.06E-05? 2.93E-05? 2.61E-05?	9.19E-05? 8.80E-05? 7.62E-05?	4.26E-03?	1.28E-02?
800	78.3	10.51	-.195	1.534	88.0 91.0 85.0	2.93E-05 1.96E-05 1.89E-05	6.60E-05 5.67E-05 5.67E-05	6.59E-03	1.98E-02
1200	79.1	10.90	-.462	1.735	88.0 86.0 90.0	1.64E-05 1.24E-05 1.09E-05	4.91E-05 3.71E-05 3.27E-05	4.09E-03	1.23E-02
1600	77.1	11.66	-.151	1.579	86.0 88.0 90.0	5.11E-06 5.11E-06 4.20E-06	1.53E-05 1.53E-05 1.26E-05	2.34E-03	7.03E-03
2200	75.2	11.37	-.231	1.734	84.0 86.0 64.0	2.61E-06 2.37E-06 2.18E-06	7.82E-06 7.11E-06 6.55E-06	1.54E-03	4.61E-03
3200	80.0?	9.30?	-1.251X	3.669X	84.8 86.8 81.8	1.95E-06 1.57E-06 1.41E-06	5.85E-06 4.72E-06 4.24E-06	1.20E-03?	3.59E-03?
5000	84.7X	2.33X	.834X	3.301X	84.0? 82.0? 86.0?	9.26E-07? 6.11E-07? 4.92E-07?	2.78E-06? 1.83E-06? 1.48E-06?	3.92E-04X	1.18E-03X
7000	83.2X	3.61X	.616X	4.999X	82.0? 84.0? 86.0?	4.53E-07? 2.90E-07? 1.71E-07?	1.36E-06? 8.69E-07? 5.14E-07?	2.92E-04X	8.77E-04X
12000	92.7X	1.71X	.710X	2.143X	91.0X 92.0X 94.0X	7.67E-08X 5.61E-08X 3.17E-08X	2.30E-07X 1.68E-07X 9.50E-08X	4.88E-05X	1.46E-04X

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

SAMPLING 400M TO 7000M. NO TOWER SAMPLING. MOST ARCS TRUNCATED ON NORTH. SKEARED OR BIMODAL DISTRIBUTIONS. FAILURE OF SAMPLERS AT MID-ARC LEAVES THE 400M DATA ESSENTIALLY MEANINGLESS. IRREGULAR DISPERSAL RATE OF FLUORESCIN FOR ABOUT 5 MIN OF THE 30 MIN DISPERSAL PERIOD (NEAR ABOUT 0340 PST).

TEST U66 JUNE 28, 1968 0331 TO 0401 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
SAMPLER HT 1.5M U = 3.5M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEN	KURT	AZIMUTH	E/W	EU/Q	C(E/Q)	C(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	81.3X	19.31X	-.328X	1.323X	94.0?	1.84E-06?	6.45E-06?	1.94E-04X	6.79E-04X
					98.0?	1.30E-06?	4.56E-06?		
					58.0?	1.02E-06?	3.57E-06?		
800	81.9X	19.14X	-.501X	1.547X	97.1	2.53E-06	8.85E-06	4.80E-04X	1.68E-03X
					97.0	2.35E-06	8.24E-06		
					99.1	1.60E-06	5.59E-06		
1200	73.2X	17.40X	.333X	1.476X	60.0	1.79E-06	6.24E-06	7.45E-04X	2.61E-03X
					98.0	1.71E-06	5.97E-06		
					58.0	1.53E-06	5.35E-06		
1600	72.8X	15.97X	.605X	1.943X	64.0	1.85E-06	6.48E-06	7.24E-04X	2.54E-03X
					60.0	1.35E-06	4.73E-06		
					66.0	9.95E-07	3.40E-06		
2200	66.5X	7.20X	.454X	3.932X	64.0	2.32E-06	3.14E-06	1.21E-03X	4.23E-03X
					66.0	1.90E-06	6.65E-06		
					68.0	1.66E-06	5.31E-06		
3200	76.3	7.15	-.259	2.820	73.7	6.33E-07	2.22E-06	4.91E-04	1.72E-03
					79.8	6.08E-07	2.13E-06		
					72.7	5.61E-07	1.96E-06		
5000	86.3X	4.71X	.542X	1.877X	82.0X	3.53E-07X	1.24E-06X	1.14E-04X	4.01E-04X
					92.0X	1.15E-07X	4.03E-07X		
					88.0X	8.29E-08X	2.90E-07X		
7000	82.8X	3.37X	.139X	3.358X	84.0?	6.94E-07?	2.43E-06?	5.23E-04X	1.85E-03X
					82.0?	6.15E-07?	2.15E-06?		
					80.0?	2.63E-07?	9.22E-07?		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U66 JUNE 28, 1968 0331 TO 0401 PST  
 FLUORESCENT RELEASE FROM ELEVATION OF 2M  
 SAMPLER HT 1.5M U = 1.4M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	CORRECTION SKEW	KURT	AZIMUTH	E/W	E/W	C(E/W)	C(E/W)
METERS	DEG	DEG			DEG	SEC/CM	1/SQ.M	SEC/SQ.M	1/M
400	77.5X	18.53X	-.236X	1.637X	94.0? 98.0? 74.0?	5.02E-05? 2.90E-05? 2.59E-05?	7.03E-05? 4.06E-05? 3.62E-05?	5.74E-03X	8.04E-03X
800	64.3X	20.94X	.428X	1.510X	49.0? 43.0? 46.0?	1.72E-05? 1.55E-05? 1.39E-05?	2.40E-05? 2.17E-05? 1.94E-05?	5.64E-03X	7.89E-03X
1200	60.4X	12.20X	1.572X	4.578X	56.0 54.0 58.0	1.14E-05 1.09E-05 1.09E-05	1.59E-05 1.53E-05 1.53E-05	3.49E-03X	4.89E-03X
1600	58.6X	10.26X	2.221X	8.273X	56.0 52.0 58.0	8.92E-06 7.74E-06 6.43E-06	1.25E-05 1.08E-05 9.00E-06	3.00E-03X	4.20E-03X
2200	58.6X	7.13X	.818X	3.482X	56.0 54.0 58.0	4.55E-06 4.43E-06 4.36E-06	6.30E-06 6.20E-06 6.10E-06	2.91E-03X	4.07E-03X
3200	66.0	7.23	.393	2.947	62.0 64.0 66.0	9.23E-07 8.52E-07 8.52E-07	1.29E-06 1.19E-06 1.19E-06	8.05E-04	1.13E-03
5000	84.6X	3.85X	1.318X	3.757X	62.0X 86.0X 90.0X	9.80E-08X 2.05E-08X 1.54E-08X	1.37E-07X 2.87E-08X 2.16E-08X	2.53E-05X	3.54E-05X
7000	81.0X	3.77X	.587X	3.300X	82.0? 84.0? 76.0?	1.67E-07? 1.48E-07? 1.39E-07?	2.34E-07? 2.03E-07? 1.94E-07?	1.72E-04X	2.41E-04X

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

SAMPLING 400M TO 7000M, NO TOWERS. SAMPLER FAILURE IN MIDDLE OF 400M ARC LEAVES DATA HERE OF MINIMAL VALUE  
 SOME QUESTION ON THE MASS OF FLUORESCENCE EMITTED BECAUSE OF DISPERSAL PROBLEMS.  
 5000M AND 7000M ARCS TRUNCATED ON NORTH

TEST 067 JULY 15, 1968 0315 TO 0343 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 SAMPLER HT 1.5M U = 4.4M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	C1(E/Q)	C1(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	88.0X	6.40X	.008X	2.194X	86.0X	1.00E-05X	4.42E-05X	1.16E-03X	5.12E-03X
					94.0X	9.56E-06X	4.21E-05X		
					82.0X	8.32E-06X	3.86E-05X		
800	87.6	7.92	.101	1.593	82.0	1.77E-05	7.80E-05	3.06E-03	1.35E-02
					79.0	1.27E-05	5.60E-05		
					77.1	8.83E-06	3.89E-05		
1200	85.4	7.49	.309	1.739	78.0	1.23E-05	5.41E-05	3.45E-03	1.52E-02
					80.0	1.20E-05	5.30E-05		
					82.0	8.95E-06	3.94E-05		
1600	89.2	8.54	-.514	1.775	73.6	7.78E-06	3.42E-05	2.45E-03	1.03E-02
					78.0	5.94E-06	2.81E-05		
					74.8	4.78E-06	2.11E-05		
2200	83.0	8.07	.517	1.975	78.0	3.16E-06	1.39E-05	1.71E-03	7.52E-03
					76.0	3.03E-06	1.33E-05		
					80.0	2.56E-06	1.13E-05		
4200	83.1	7.94	.447	1.917	75.7	4.73E-06	2.08E-05	4.07E-03	1.79E-02
					74.7	4.61E-06	2.03E-05		
					76.8	4.53E-06	1.99E-05		
5000	86.2X	5.10X	1.041X	2.855X	82.0X	1.86E-06X	8.19E-06X	6.65E-04X	2.93E-03X
					86.0X	6.88E-07X	3.03E-06X		
					94.0X	3.08E-07X	1.35E-06X		
7000	81.9X	5.79X	1.257X	3.678X	78.0X	1.61E-06X	7.07E-06X	1.22E-03X	5.38E-03X
					82.0X	1.82E-06X	4.47E-06X		
					76.0X	8.10E-07X	3.57E-06X		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



TEST U67            JULY 15, 1968    0313 TO 0343 PST  
 FLUORESCENCE RELEASE FROM ELEVATION OF 2M  
 SAMPLER HT 1.5M            U = 2.3M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	77.0?	5.60?	1.412?	4.934?	74.0?	1.14E-05?	2.63E-05?	6.71E-04?	1.54E-03?
					78.0?	5.22E-06?	1.20E-05?		
					82.0?	2.39E-06?	5.50E-06?		
800	78.5	5.54	1.720	6.080	76.0	5.21E-06?	1.20E-05?	6.36E-04?	1.46E-03?
					79.0	3.45E-06?	7.94E-06?		
					73.0	3.14E-06?	7.23E-06?		
1200	77.6	4.67	2.127	7.996	76.0	2.27E-06?	5.21E-06?	2.90E-04?	6.67E-04?
					78.0	1.50E-06?	3.44E-06?		
					74.0	1.37E-06?	3.15E-06?		
1600	77.1	6.23	1.826	5.648	74.0	1.71E-06?	3.93E-06?	2.88E-04?	6.63E-04?
					76.0	9.11E-07?	2.09E-06?		
					72.0	8.34E-07?	1.92E-06?		
2200	76.2	4.97	2.303	9.050	74.0	7.33E-07?	1.69E-06?	1.89E-04?	4.35E-04?
					76.0	5.55E-07?	1.28E-06?		
					72.0	4.60E-07?	1.06E-06?		
2200	76.0	4.69	1.964	8.887	72.7	5.45E-07?	1.25E-06?	2.64E-04?	6.08E-04?
					74.7	5.45E-07?	1.25E-06?		
					75.7	5.07E-07?	1.17E-06?		
5000	85.0X	4.25X	1.610X	4.470X	82.0X	7.69E-08X	1.77E-07X	2.81E-05X	6.46E-05X
					84.0X	4.52E-08X	1.04E-07X		
					86.0X	1.97E-08X	4.52E-08X		
7000	79.8X	3.83X	1.671X	8.145X	76.0X	1.44E-07X	3.32E-07X	1.19E-04X	2.74E-04X
					78.0X	1.18E-07X	2.70E-07X		
					80.0X	9.81E-08X	2.26E-07X		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

SAMPLING FROM 400M TO 12800M, NO TOWER SAMPLING. BIMODAL DISTRIBUTIONS.  
 ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER EXCEPT 7000M ARC. ALSO, ALTHOUGH 12800M ARC DROPS TO BACKGROUND  
 VALUES AT NORTH EXTREMITY OF SAMPLING, THERE MAY HAVE BEEN MORE TRACER NORTH OF THE SAMPLERS.

TEST 054 JULY 16, 1966 0310 TO 0340 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 SAMPLER HT 1.5M U = 4.7M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	SKEW	KURT	AZIMUTH	E/Q	EU/Q	C1(E/W)	C1(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	104.4	8.28	-1.448	1.834	110.0	1.89E-05	8.90E-05	1.51E-03	7.08E-03
					114.0	7.70E-06	3.62E-05		
					94.0	7.66E-06	3.60E-05		
800	107.1	6.42	-1.945	2.726	110.7	4.32E-05	2.03E-04	5.31E-03	2.50E-02
					108.8	3.46E-05	1.62E-04		
					112.6	3.12E-05	1.47E-04		
1200	105.7	7.00	-1.730	2.141	110.0	2.94E-05	1.38E-04	5.05E-03	2.38E-02
					112.0	2.19E-05	1.03E-04		
					108.0	1.41E-05	6.61E-05		
1600	105.9	6.54	-1.665	2.052	110.4	2.19E-05	1.03E-04	4.95E-03	2.32E-02
					109.5	2.03E-05	9.55E-05		
					111.4	1.89E-05	8.87E-05		
2200	105.7?	6.00?	-1.910?	2.443?	110.0?	6.79E-06?	3.19E-05?	1.84E-03?	8.66E-03?
					108.0	4.45E-06	2.09E-05		
					112.0	2.23E-06	1.05E-05		
3200	105.5	6.29	-1.540	2.062	110.7	9.78E-06	4.60E-05	4.25E-03	2.00E-02
					111.7	9.33E-06	4.39E-05		
					109.7	6.28E-06	2.95E-05		
5000	106.0	6.19	-1.575	2.468	112.0	2.03E-06	9.55E-06	1.42E-03	6.65E-03
					106.0	9.99E-07	4.69E-06		
					110.0	8.54E-07	4.01E-06		
7000	102.9X	7.22X	-1.363X	3.566X	100.0	9.19E-07	4.32E-06	1.43E-03X	6.71E-03X
					104.0	9.19E-07	4.32E-06		
					102.0	6.85E-07	3.22E-06		
12800	95.7?	2.07?	-1.143?	3.280?	96.0?	1.40E-08?	6.56E-08?	1.06E-05?	4.97E-05?
					95.0?	8.53E-09?	4.01E-08?		
					92.0?	7.06E-09?	3.32E-08?		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U68 JULY 16, 1968 0310 TO 0340 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 2M  
 SAMPLER HT 1.5M U= 2.4M/SEC AT 2M

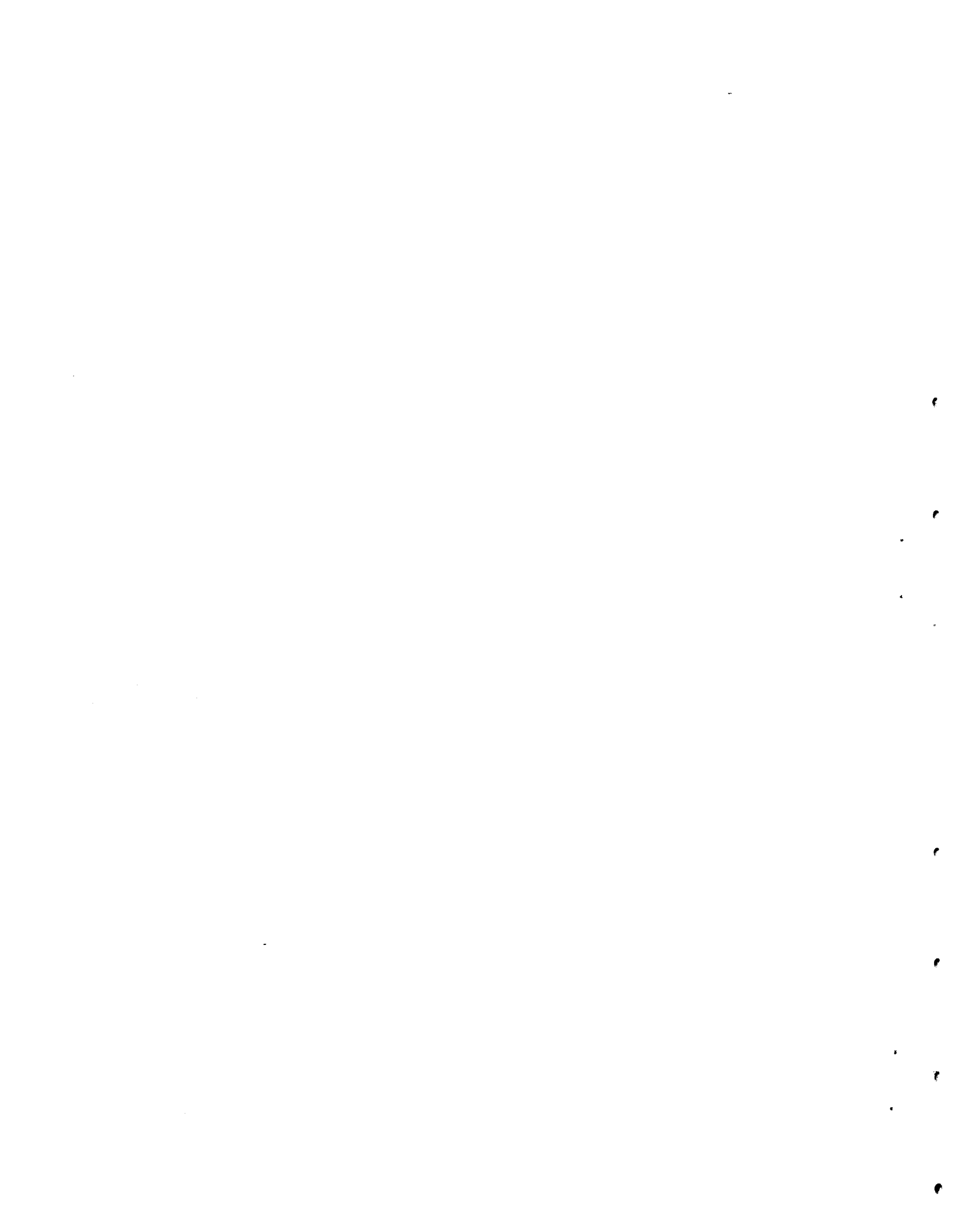
DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND. DEV	Coefficient of Skew	Coefficient of Kurtosis	AZIMUTH	E/Q	EU/Q	C1(E/Q)	C1(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	104.3	8.51	-1.154	3.141	110.0	1.63E-04	3.91E-04	1.32E-02	3.18E-02
					106.0	1.30E-04	3.13E-04		
					114.0	4.48E-05	1.08E-04		
800	105.1	7.19	-1.299	3.552	108.8	7.42E-05	1.78E-04	8.76E-03	2.10E-02
					106.9	6.30E-05	1.51E-04		
					110.7	4.50E-05	1.08E-04		
1200	102.3	8.38	-.578	1.763	108.0	2.69E-05	6.45E-05	4.96E-03	1.19E-02
					110.0	2.23E-05	5.36E-05		
					106.0	1.06E-05	2.54E-05		
1600	104.5	7.09	-.899	2.419	108.5	2.01E-05	4.83E-05	3.59E-03	8.63E-03
					109.5	1.32E-05	3.17E-05		
					110.4	1.25E-05	3.01E-05		
2200	102.1	7.77	-.479	1.692	108.0	7.87E-06	1.89E-05	2.40E-03	5.77E-03
					110.0	4.72E-06	1.13E-05		
					92.0	2.77E-06	6.65E-06		
3200	103.3	7.46	-.570	1.902	109.7	5.36E-06	1.29E-05	2.54E-03	6.10E-03
					110.7	4.85E-06	1.16E-05		
					108.8	3.74E-06	8.98E-06		
5000	104.2	7.18	-.456	1.858	110.0	4.05E-06	9.72E-06	3.78E-03	9.07E-03
					112.0	3.66E-06	8.77E-06		
					94.0	1.89E-06	4.54E-06		
7000	102.0X	8.16X	-.563X	2.656X	110.0	8.42E-07	2.02E-06	1.32E-03X	3.17E-03X
					108.0	5.95E-07	1.43E-06		
					100.0	4.62E-07	1.11E-06		
12800	95.7??	1.88?	-.472?	2.862?	96.0?	1.04E-08?	2.49E-08?	8.74E-06?	2.10E-05?
					94.0?	7.73E-09?	1.86E-08?		
					97.0?	5.97E-09?	1.43E-08?		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

B-41





SAMPLING 400M TO 12800M, NO TOWER SAMPLING. DISTRIBUTION TENDS TOWARD BIMODAL.  
 ALL ARCS EXCEPT 7000M EMBRACE CROSSWIND EXTENT OF BOTH TRACERS. THE SKEWING OF 7000M DATA TO THE SOUTH IS NOT  
 READILY EXPLAINABLE.

TEST U70                      JULY 19, 1968                      0108 TO 0138 PST  
 ZINC SULFIDE RELFASE FROM ELEVATION OF 26M  
 SAMPLER HT 1.5M                      U= 7.8M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	CORRECTION SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	118.5	8.71	-.743	2.537	122.0	2.00E-05	1.56E-04	2.12E-03	1.65E-02
					126.0	1.81E-05	1.42E-04		
					118.0	8.07E-06	6.29E-05		
800	118.6	8.33	-.633	2.193	124.0	1.71E-05	1.34E-04	3.24E-03	2.53E-02
					125.8	1.59E-05	1.24E-04		
					122.1	1.38E-05	1.08E-04		
1200	118.0	7.73	-.383	1.834	124.0	8.37E-06	6.53E-05	2.22E-03	1.73E-02
					126.0	7.30E-06	5.69E-05		
					122.0	5.37E-06	4.19E-05		
1600	118.4	7.27	-.270	1.748	126.9	4.41E-06	3.44E-05	1.83E-03	1.43E-02
					123.1	4.20E-06	3.27E-05		
					124.1	4.14E-06	3.23E-05		
2200	118.6	6.55	-.192	1.699	126.0	2.28E-06	1.78E-05	9.86E-04	7.69E-03
					110.0	1.84E-06	1.43E-05		
					122.0	1.66E-06	1.30E-05		
3200	117.6	5.28	.257	1.741	114.6	3.44E-06	2.68E-05	1.78E-03	1.39E-02
					113.7	2.90E-06	2.26E-05		
					112.7	2.75E-06	2.15E-05		
5000	118.5	4.49	.421	1.771	114.0	6.72E-07	5.24E-06	3.99E-04	3.11E-03
					116.0	4.26E-07	3.32E-06		
					122.0	3.90E-07	3.04E-06		
7000	120.2X	6.69X	.528X	8.565X	118.0	1.04E-06	8.14E-06	8.85E-04X	6.90E-03X
					116.0	5.69E-07	4.44E-06		
					120.0	5.11E-07	3.98E-06		
12800	122.3	3.83	-3.339	23.899	122.0	6.61E-07	5.15E-06	6.33E-04	4.93E-03
					124.0	4.41E-07	3.44E-06		
					123.0	4.26E-07	3.32E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U70 JULY 19, 1968 0108 TO 0138 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 2M  
 SAMPLER HT 1.5M U= 4.8M/SEC AT 2M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT OF SKREW	KURT	AZIMUTH	E/Q	EU/Q	C1(E/Q)	C1(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	119.6	8.23	-1.003	3.208	122.0	6.45E-05	3.09E-04	6.36E-03	3.05E-02
					126.0	5.73E-05	2.75E-04		
					118.0	2.94E-05	1.41E-04		
800	119.4	8.36	-.924	2.643	124.0	3.06E-05	1.47E-04	4.99E-03	2.39E-02
					125.8	2.86E-05	1.37E-04		
					122.1	2.23E-05	1.07E-04		
1200	119.9	7.55	-.845	2.543	126.0	8.70E-06	4.17E-05	1.85E-03	8.87E-03
					124.0	6.91E-06	3.32E-05		
					122.0	5.57E-06	2.68E-05		
1600	118.8	7.50	-.441	1.847	126.0	4.74E-06	2.27E-05	1.43E-03	6.86E-03
					126.9	4.36E-06	2.09E-05		
					124.1	3.49E-06	1.67E-05		
2200	118.6	6.54	-.219	1.775	126.0	1.49E-06	7.17E-06	7.37E-04	3.54E-03
					124.0	1.39E-06	6.67E-06		
					122.0	1.15E-06	5.50E-06		
3200	118.3	5.47	-.001	1.655	114.6	1.77E-06	8.50E-06	1.11E-03	5.34E-03
					123.4	1.52E-06	7.31E-06		
					113.7	1.45E-06	6.96E-06		
5000	119.0	4.43	.172	1.761	114.0	7.45E-07	3.58E-06	5.70E-04	2.73E-03
					122.0	6.00E-07	2.88E-06		
					116.0	5.52E-07	2.65E-06		
7000	120.2X	6.21X	-.339X	8.585X	118.0	5.10E-07	2.45E-06	6.31E-04X	3.03E-03X
					116.0	4.16E-07	2.00E-06		
					124.0	3.58E-07	1.72E-06		
12800	122.0	3.63	-1.136	7.921	122.0	5.00E-07	2.40E-06	6.62E-04	3.18E-03
					124.0	4.56E-07	2.19E-06		
					125.0	3.48E-07	1.67E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

B-45

U70

SAMPLING 400M TO 12800M; NO TOWER SAMPLING. ZNS DISPERSED FOR 30 MIN; FLUORESCIN DISPERSED ONLY LAST 15 MIN.  
ARCS OUT TO 3200M EMBRACE CROSSWIND EXTENT OF TRACER, 5000M, 7000M AND 12800M ARCS TRUNCATED ON NORTH.

TEST U71 AUGUST 6, 1968 0043 TO 0113 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
SAMPLER HT 1.5M U= 3.4M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	80.6	12.58	.288	1.930	74.0	1.14E-05	3.86E-05	1.83E-03	6.24E-03
					70.0	1.07E-05	3.63E-05		
					98.0	8.61E-06	2.93E-05		
800	81.7	12.49	.127	1.533	73.0	1.98E-05	6.72E-05	5.39E-03	1.83E-02
					76.0	1.62E-05	5.51E-05		
					97.1	1.60E-05	5.45E-05		
1200	77.1	9.14	.593	2.716	78.0	1.55E-05	5.27E-05	6.28E-03	2.14E-02
					76.0	1.47E-05	4.99E-05		
					74.0	1.43E-05	4.85E-05		
1600	83.4	10.45	-.090	1.727	78.0	1.32E-05	4.50E-05	5.89E-03	2.00E-02
					76.0	1.19E-05	4.05E-05		
					93.6	9.43E-06	3.21E-05		
2200	82.4	9.90	-.014	1.601	94.0	4.62E-06	1.57E-05	1.53E-03	5.21E-03
					70.0	2.47E-06	8.40E-06		
					72.0	1.66E-06	5.63E-06		
3200	85.5	7.89	.342	2.227	80.8	7.78E-06	2.65E-05	7.07E-03	2.40E-02
					81.8	7.59E-06	2.58E-05		
					82.8	7.12E-06	2.42E-05		
5000	90.9X	7.72X	.443X	1.907X	82.0X	2.36E-06X	8.04E-06X	1.72E-03X	5.83E-03X
					86.0X	1.30E-06X	4.41E-06X		
					90.0X	8.45E-07X	2.87E-06X		
7000	94.7X	8.98X	-.504X	2.040X	102.0X	1.10E-06	3.73E-06	2.00E-03X	6.80E-03X
					104.0	8.98E-07	3.05E-06		
					100.0	8.86E-07	3.01E-06		
12800	93.8X	2.60X	.942X	3.233X	94.0X	4.07E-08X	1.39E-07X	2.13E-05X	7.24E-05X
					91.0X	2.87E-08X	9.75E-08X		
					99.0X	6.33E-09X	2.15E-08X		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



TEST U71 AUGUST 6, 1968 0058 TO 0113 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF .56M  
 SAMPLER HT 1.5M U= 4.2M/SEC AT 56M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	Coefficient SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	78.7	8.66	.736	5.242	82.0	2.21E-06	9.26E-06	2.70E-04	1.14E-03
					86.0	2.07E-06	8.68E-06		
					66.0	1.47E-06	6.17E-06		
800	80.2	8.06	1.065	4.771	82.0	8.62E-06	3.62E-05	1.55E-03	6.51E-03
					79.0	5.97E-06	2.51E-05		
					73.0	4.86E-06	2.04E-05		
1200	81.6	7.34	.630	3.763	84.0	7.89E-06	3.31E-05	2.24E-03	9.42E-03
					80.0	7.28E-06	3.06E-05		
					82.0	6.54E-06	2.74E-05		
1600	87.3	9.05	.103	1.998	86.0	6.04E-06	2.54E-05	2.66E-03	1.12E-02
					78.0	5.80E-06	2.43E-05		
					84.0	5.80E-06	2.43E-05		
2200	86.3	7.59	.432	3.070	84.0	2.31E-06	9.68E-06	1.13E-03	4.75E-03
					90.0	2.11E-06	8.88E-06		
					82.0	1.58E-06	6.63E-06		
3200	89.3	7.49	.750	3.121	87.8	5.00E-06	2.10E-05	3.68E-03	1.55E-02
					82.8	4.24E-06	1.78E-05		
					84.8	4.24E-06	1.78E-05		
5000	91.8X	7.11X	.811X	2.961X	90.0?	1.11E-06?	4.66E-06?	1.16E-03X	4.87E-03X
					88.0?	9.98E-07?	4.19E-06?		
					86.0?	8.25E-07?	3.46E-06?		
7000	92.8X	8.72X	.179X	2.080X	90.0	4.52E-07	1.90E-06	1.04E-03X	4.35E-03X
					92.0	3.99E-07	1.68E-06		
					88.0	3.59E-07	1.51E-06		
12000	93.6X	2.80X	1.641X	6.331X	91.0	6.72E-08X	2.82E-07X	5.50E-05X	2.31E-04X
					94.0X	5.03E-08X	2.11E-07X		
					92.0X	3.55E-08X	1.49E-07X		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

B-47

SAMPLING 400M TO 7000M; NO TOWER SAMPLING. ZNS DISPERSAL FOR 30 MIN; FLUORESCHEIN DISPERSED ONLY LAST 20 MIN.  
 DISTRIBUTIONS ARE BIMODAL OR MULTIMODAL.  
 ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER.

TEST U72 AUGUST 7, 1968 0047 TO 0117 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 SAMPLER HT 1.5M U = 4.4M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	116.7	8.92	-1.249	4.497	122.0	1.32E-05	5.79E-05	1.36E-03	5.99E-03
					118.0	1.02E-05	4.50E-05		
					126.0	7.02E-06	3.09E-05		
800	119.2	8.93	-1.673	5.769	125.8	2.10E-05	9.26E-05	3.37E-03	1.48E-02
					124.0	1.61E-05	7.06E-05		
					122.1	1.54E-05	6.76E-05		
1200	117.6	10.21	-1.310	4.025	126.0	7.60E-06	3.34E-05	1.75E-03	7.68E-03
					124.0	6.47E-06	2.84E-05		
					128.0	3.11E-06	1.37E-05		
1600	119.9	9.39	-1.389	4.208	126.9	1.68E-05	7.41E-05	3.74E-03	1.65E-02
					126.0	1.46E-05	6.44E-05		
					127.8	1.37E-05	6.05E-05		
2200	122.6	7.16	-1.684	5.330	126.0	6.49E-06	3.74E-05	2.19E-03	9.64E-03
					128.0	8.24E-06	3.62E-05		
					124.0	2.74E-06	1.20E-05		
3200	121.5	7.37	-1.337	3.767	127.3	5.66E-06	2.58E-05	2.25E-03	9.90E-03
					126.3	5.27E-06	2.32E-05		
					125.4	4.07E-06	1.79E-05		
5000	123.1	5.26	-1.313	4.072	126.0	1.13E-06	4.99E-06	6.04E-04	2.66E-03
					128.0	6.77E-07	2.98E-06		
					120.0	3.82E-07	1.68E-06		
7000	125.0	5.02	-.475	2.266	126.0	8.62E-07	3.79E-06	8.77E-04	3.86E-03
					128.0	5.41E-07	2.38E-06		
					130.0	4.07E-07	1.79E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U71 AUGUST 6, 1968 0058 TO 0113 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 SAMPLER HT 1.5M U= 4.2M/SEC AT 56M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT OF SKEW	KURT	AZIMUTH	E/Q	EU/Q	C(E/Q)	C(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	78.7	8.66	.736	5.242	82.0 86.0 66.0	2.21E-06 2.07E-06 1.47E-06	9.26E-06 8.68E-06 6.17E-06	2.70E-04	1.14E-03
800	80.2	8.06	1.065	4.771	82.0 79.0 73.0	8.62E-06 5.97E-06 4.86E-06	3.62E-05 2.51E-05 2.04E-05	1.55E-03	6.51E-03
1200	81.6	7.34	.630	3.763	84.0 80.0 82.0	7.89E-06 7.28E-06 6.54E-06	3.31E-05 3.06E-05 2.74E-05	2.24E-03	9.42E-03
1600	87.3	9.05	.103	1.998	86.0 78.0 84.0	6.04E-06 5.80E-06 5.80E-06	2.54E-05 2.43E-05 2.43E-05	2.66E-03	1.12E-02
2200	86.3	7.59	.432	3.070	84.0 90.0 82.0	2.31E-06 2.11E-06 1.58E-06	9.68E-06 8.88E-06 6.63E-06	1.13E-03	4.75E-03
3200	89.3	7.49	.750	3.121	87.8 82.8 84.8	5.00E-06 4.24E-06 4.24E-06	2.10E-05 1.78E-05 1.78E-05	3.68E-03	1.55E-02
5000	91.8X	7.11X	.811X	2.961X	90.0? 88.0? 86.0?	1.11E-06? 9.98E-07? 8.25E-07?	4.66E-06? 4.19E-06? 3.46E-06?	1.16E-03X	4.87E-03X
7000	92.8X	8.72X	.179X	2.080X	90.0 92.0 88.0	4.52E-07 3.99E-07 3.59E-07	1.90E-06 1.68E-06 1.51E-06	1.04E-03X	4.35E-03X
12800	93.6X	2.80X	1.641X	6.331X	91.0 94.0X 92.0X	6.72E-08X 5.03E-08X 3.55E-08X	2.82E-07X 2.11E-07X 1.49E-07X	5.50E-05X	2.31E-04X

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

B-47

U71

SAMPLING 400M TO 7000M; NO TOWER SAMPLING. ZNS DISPERSAL FOR 30 MIN; FLUORESCIN DISPERSED ONLY LAST 20 MIN.  
 DISTRIBUTIONS ARE BIMODAL OR MULTIMODAL.  
 ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER.

TEST U72 AUGUST 7, 1968 0047 TO 0117 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 SAMPLER HT 1.5M U = 4.4M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	Coefficient SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	116.7	8.92	-1.249	4.497	122.0	1.32E-05	5.79E-05	1.36E-03	5.99E-03
					118.0	1.02E-05	4.50E-05		
					126.0	7.02E-06	3.09E-05		
800	119.2	8.93	-1.673	5.769	125.8	2.10E-05	9.26E-05	3.37E-03	1.48E-02
					124.0	1.61E-05	7.06E-05		
					122.1	1.54E-05	6.76E-05		
1200	117.6	10.21	-1.310	4.025	126.0	7.60E-06	3.34E-05	1.75E-03	7.68E-03
					124.0	6.47E-06	2.84E-05		
					128.0	3.11E-06	1.37E-05		
1600	119.9	9.39	-1.389	4.208	126.9	1.68E-05	7.41E-05	3.74E-03	1.65E-02
					126.0	1.46E-05	6.44E-05		
					127.8	1.37E-05	6.05E-05		
2200	122.6	7.16	-1.684	5.330	126.0	6.49E-06	3.74E-05	2.19E-03	9.64E-03
					128.0	8.24E-06	3.62E-05		
					124.0	2.74E-06	1.20E-05		
3200	121.5	7.37	-1.337	3.767	127.3	5.06E-06	2.58E-05	2.25E-03	9.90E-03
					126.3	5.27E-06	2.32E-05		
					125.4	4.07E-06	1.79E-05		
5000	123.1	5.26	-1.313	4.072	126.0	1.13E-06	4.99E-06	6.04E-04	2.66E-03
					128.0	6.77E-07	2.98E-06		
					120.0	3.82E-07	1.68E-06		
7000	125.0	5.02	-.475	2.266	126.0	8.62E-07	3.79E-06	8.77E-04	3.86E-03
					128.0	5.41E-07	2.38E-06		
					130.0	4.07E-07	1.79E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U72 AUGUST 7, 1968 0057 TO 0117 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 SAMPLER HT 1.5M U = 6.0M/SEC AT 56M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	113.9	2.36	-5.994	67.399	114.0	1.36E-06	8.15E-06	3.93E-05	2.36E-04
					122.0	1.91E-08	1.15E-07		
					90.0	7.66E-09	4.60E-08		
800	121.7	4.72	-.859	5.222	122.1	4.92E-06	2.95E-05	6.21E-04	3.73E-03
					124.0	4.40E-06	2.64E-05		
					118.3	2.20E-06	1.32E-05		
1200	122.1	6.26	-1.721	7.896	124.0	2.23E-06	1.34E-05	5.87E-04	3.52E-03
					128.0	2.06E-06	1.23E-05		
					126.0	1.94E-06	1.16E-05		
1600	122.2	7.49	-1.544	5.098	128.8	4.97E-06	2.98E-05	1.24E-03	7.43E-03
					122.1	3.94E-06	2.36E-05		
					121.2	3.59E-06	2.15E-05		
2200	123.8	5.88	-1.867	7.206	126.0	1.81E-06	1.08E-05	6.58E-04	3.95E-03
					128.0	1.67E-06	1.00E-05		
					122.0	1.41E-06	8.46E-06		
3200	125.0	4.48	-2.044	7.520	127.3	4.89E-06	2.94E-05	1.28E-03	7.70E-03
					126.3	3.64E-06	2.19E-05		
					128.3	2.71E-06	1.62E-05		
5000	126.2	4.11	-1.854	7.014	128.0	8.85E-07	5.31E-06	5.68E-04	3.41E-03
					130.0	8.24E-07	4.94E-06		
					126.0	7.63E-07	4.58E-06		
7000	127.5	3.64	-1.080	4.641	126.0	1.01E-06	6.04E-06	7.26E-04	4.36E-03
					128.0	5.58E-07	3.35E-06		
					130.0	5.03E-07	3.02E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

B-49

U72

SAMPLING 400M TO 12800M; NO TOWER SAMPLING. ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER DISTRIBUTION.  
 ZNS DISPERSAL FOR 30 CONTINUOUS MIN. FLUORESCIN ON FIRST 5 MIN, OFF 10 MIN, THEN ON 15 MIN. (FLUORESCIN ON  
 AT 0140PST, OFF AT 0145PST, ON AT 0155PST AND OFF AGAIN AT 0210PST.) FLUORESCIN DISPERSAL DEVICE PROBLEMS.

TEST U73 AUGUST 8, 1968 0140 TO 0210 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 SAMPLER HT 1.5M U = 5.5M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	122.2	6.15	.117	2.069	118.0	1.25E-05	6.88E-05	1.60E-03	8.82E-03
					126.0	1.16E-05	6.36E-05		
					122.0	1.06E-05	5.81E-05		
800	122.3	5.06	-.149	2.437	122.1	1.57E-05	8.65E-05	2.99E-03	1.64E-02
					124.0	1.44E-05	7.94E-05		
					125.8	1.42E-05	7.83E-05		
1200	121.6	3.94	-.049	2.577	120.0	4.08E-06	2.24E-05	9.01E-04	4.95E-03
					126.0	3.86E-06	2.12E-05		
					118.0	3.55E-06	1.95E-05		
1600	122.1	3.56	-.194	2.523	125.0	1.41E-05	7.73E-05	2.90E-03	1.60E-02
					121.2	1.08E-05	5.96E-05		
					122.1	1.00E-05	5.51E-05		
2200	121.7?	2.91?	.202?	3.097?	122.0	2.34E-06	1.29E-05	6.13E-04?	3.37E-03?
					120.0?	2.31E-06?	1.27E-05?		
					126.0	9.52E-07	5.24E-06		
3200	121.4	2.50	-.097	2.876	120.5	4.46E-06	2.45E-05	1.56E-03	8.58E-03
					121.5	4.08E-06	2.24E-05		
					122.4	3.95E-06	2.17E-05		
5000	121.5	2.04	-.169	3.822	122.0	8.78E-07	4.83E-06	2.54E-04	1.40E-03
					120.0	1.99E-07	1.09E-06		
					118.0	1.94E-07	1.07E-06		
7000	121.1	1.47	.161	4.064	122.0	1.66E-06	9.13E-06	9.12E-04	5.02E-03
					120.0	1.59E-06	8.76E-06		
					124.0	1.99E-07	1.09E-06		
12800	116.7	2.94	.748	3.713	117.0	3.70E-07	2.03E-06	2.24E-04	1.23E-03
					118.0	1.09E-07	5.98E-07		
					116.0	7.59E-08	4.17E-07		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U73      AUGUST 8, 1968      1407 TO 2107 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 SAMPLER HT 1.5M      U = 6.5M/SEC AT 56M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	Coefficient SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	125.7	1.42	-6.597	57.936	126.0	2.28E-06	1.48E-05	6.71E-05	4.36E-04
					122.0	9.42E-08	6.13E-07		
					118.0	2.35E-08	1.53E-07		
800	121.5	4.47	-0.010	2.272	122.1	4.92E-06	3.20E-05	6.89E-04	4.48E-03
					124.0	3.87E-06	2.52E-05		
					120.2	3.35E-06	2.18E-05		
1200	122.5	3.98	-0.040	2.547	122.0	3.56E-06	2.31E-05	8.11E-04	5.27E-03
					120.0	3.39E-06	2.20E-05		
					124.0	3.14E-06	2.04E-05		
1600	122.6	3.67	-0.170	2.776	122.1	8.52E-06	5.54E-05	1.71E-03	1.11E-02
					124.1	6.91E-06	4.49E-05		
					123.1	6.22E-06	4.04E-05		
2200	122.4	3.05	-0.198	2.867	122.0	3.96E-06	2.58E-05	1.03E-03	6.67E-03
					124.0	2.91E-06	1.89E-05		
					120.0	1.94E-06	1.26E-05		
3200	122.2	2.77	-0.400	2.491	124.4	4.16E-06	2.71E-05	1.45E-03	9.45E-03
					121.5	3.44E-06	2.23E-05		
					122.4	3.12E-06	2.03E-05		
5000	122.4	2.64	0.035	2.372	122.0	1.13E-06	7.34E-06	7.36E-04	4.79E-03
					120.0	1.01E-06	6.55E-06		
					124.0	9.15E-07	5.95E-06		
7000	122.1	1.56	0.549	8.501	122.0	1.40E-06	9.13E-06	6.70E-04	4.36E-03
					124.0	6.68E-07	4.34E-06		
					120.0	5.49E-07	3.57E-06		
12800	117.9	2.65	1.347	7.216	117.0	2.41E-07	1.56E-06	1.78E-04	1.16E-03
					118.0	1.28E-07	8.31E-07		
					119.0	1.06E-07	6.92E-07		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

B-51

U73

SAMPLING 400M TO 7000M. NO TOWER SAMPLING.  
 TRACER SKEWED TO NORTH.  
 ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER.

TEST U74 AUGUST 29, 1968 0039 TO 0109 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 SAMPLER HT 1.5M U= 4.6M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT		AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG	SKEW	KURT	DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	111.6	4.18	-.230	3.083	110.0	2.17E-06	9.96E-06	1.56E-04	7.16E-04
					114.0	1.49E-06	6.85E-06		
					118.0	9.38E-07	4.31E-06		
800	110.9	4.50	-.487	2.513	114.5	2.17E-05	9.97E-05	2.50E-03	1.15E-02
					110.7	1.22E-05	5.63E-05		
					108.8	1.18E-05	5.43E-05		
1200	109.7	4.18	-.220	2.339	114.0	8.76E-06	4.03E-05	2.17E-03	9.99E-03
					108.0	8.47E-06	3.89E-05		
					112.0	7.47E-06	3.44E-05		
1600	110.9	3.54	-.536	2.894	113.4	1.79E-05	8.25E-05	3.40E-03	1.56E-02
					114.4	1.40E-05	6.44E-05		
					110.4	1.13E-05	5.22E-05		
2200	109.7	3.31	-.299	4.280	108.0	3.64E-06	1.68E-05	1.10E-03	5.04E-03
					110.0?	3.47E-06?	1.60E-05?		
					112.0	2.94E-06	1.35E-05		
3200	109.8	5.67	-.825	3.153	115.6	2.76E-06	1.27E-05	1.42E-03	6.53E-03
					114.6	2.27E-06	1.04E-05		
					108.8?	2.08E-06?	9.57E-06?		
5000	108.3	5.38	-.749	3.749	108.0	1.87E-06	8.59E-06	1.12E-03	5.14E-03
					114.0	1.21E-06	5.57E-06		
					106.0	9.75E-07	4.49E-06		
7000	108.8	4.47	-.578	4.667	110.0	7.01E-07	3.23E-06	3.05E-04	1.40E-03
					108.0	1.14E-07	5.25E-07		
					106.0	9.25E-08	4.25E-07		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



TEST U74 AUGUST 29, 1968 0039 TO 0109 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 SAMPLER HT 1.5M U= 6.2M/SEC AT 56M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	98.6	11.16	.527	1.806	90.0	1.36E-09	8.43E-09	1.95E-07	1.21E-06
					86.0	1.32E-09	8.20E-09		
					94.0	1.29E-09	7.97E-09		
800	116.4	1.75	.740	3.496	116.4	1.14E-05	7.09E-05	8.32E-04	5.16E-03
					114.5	1.03E-05	6.40E-05		
					118.3	6.64E-06	4.11E-05		
1200	116.1	1.76	-.040	3.000	116.0	5.38E-06	3.34E-05	6.14E-04	3.81E-03
					118.0	4.55E-06	2.82E-05		
					114.0	4.16E-06	2.58E-05		
1600	116.6	1.64	-.161	3.539	116.3	1.86E-05	1.16E-04	1.72E-03	1.06E-02
					117.3	1.12E-05	6.94E-05		
					115.3	1.02E-05	6.33E-05		
2200	116.9	1.64	.240	4.300	116.0	4.23E-06	2.63E-05	6.79E-04	4.21E-03
					118.0	3.02E-06	1.87E-05		
					120.0	8.70E-07	5.40E-06		
3200	115.8	2.78	-1.062	4.843	117.6	3.08E-06	1.91E-05	8.31E-04	5.15E-03
					115.6	2.42E-06	1.50E-05		
					118.6	1.91E-06	1.18E-05		
5000	115.8	3.25	-.684	4.495	118.0	1.16E-06	7.19E-06	8.73E-04	5.41E-03
					116.0	1.13E-06	6.99E-06		
					114.0	1.10E-06	6.79E-06		
7000	115.3	2.52	-.455	3.899	116.0	5.81E-07	3.60E-06	4.47E-04	2.77E-03
					114.0	5.36E-07	3.32E-06		
					118.0	3.13E-07	1.94E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

B-53

U74

SAMPLING 400M TO 12800M, BUT NO TRACER OBSERVED AT 12800M. NO TOWER SAMPLING.  
 5000M AND 7000M ARCS TRUNCATED ON NORTH. WIND SPEED MEASURED AT 12800M ARC AVERAGED ABOUT 0.2 M/SEC AT 1.5M  
 ELEVATION. RELATIVELY LARGE DIRECTION SHEAR WITH ELEVATION (ABOUT 20 DEGREES FROM 15M TO 61M).

TEST U75 AUGUST 30, 1968 0031 TO 0101 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 SAMPLER HT 1.5M U = 2.9M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	Coefficient SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	77.1	5.15	1.106	3.052	74.0	4.76E-06	1.38E-05	2.21E-04	6.41E-04
					86.0	1.10E-06	3.18E-06		
					78.0	1.06E-06	3.07E-06		
800	80.5?	4.94?	-.397?	3.434?	82.0?	3.23E-06?	9.37E-06?	4.52E-04?	1.31E-03?
					79.0?	2.58E-06?	7.49E-06?		
					85.0	1.61E-06	4.68E-06		
1200	78.7	5.21	.230	2.565	76.0	3.96E-06	1.15E-05	9.02E-04	2.62E-03
					80.0	3.39E-06	9.84E-06		
					82.0	2.29E-06	6.65E-06		
1600	79.2	6.92	.244	1.851	72.0	1.50E-06	4.36E-06	3.92E-04	1.14E-03
					80.0	1.08E-06	3.13E-06		
					88.0	8.68E-07	2.52E-06		
2200	79.1	4.97	-.589	2.836	82.0	2.38E-06	6.89E-06	3.70E-04	1.07E-03
					72.0	7.16E-07	2.08E-06		
					74.0	5.38E-07	1.56E-06		
3200	78.5	3.28	-.430	4.681	78.8	2.93E-06	8.48E-06	8.05E-04	2.33E-03
					80.8	2.72E-06	7.89E-06		
					79.8	1.75E-06	5.08E-06		
5000	83.6X	.91X	-.438X	4.781X	84.0?	7.37E-07?	2.14E-06?	1.54E-04X	4.48E-04X
					32.0?	1.95E-07?	5.67E-07?		
					86.0?	2.16E-08?	6.25E-08?		
7000	80.3X	2.45X	.063X	2.455X	80.0?	9.01E-08?	2.61E-07?	3.72E-05X	1.08E-04X
					84.0?	3.79E-08?	1.10E-07?		
					76.0?	2.08E-06?	6.03E-08?		
12800	0.0X	0.00X	0.000X	0.000X	0.0X	0.	X 0.	0.	X 0.
					0.0X	0.	X 0.		
					0.0X	0.	X 0.		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U75 AUGUST 30, 1968 0031 TO 0101 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 SAMPLER HT 1.5M U = 2.5M/SEC AT 56M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	92.1	3.20	-.770	8.054	94.0	1.93E-06	4.84E-06	8.21E-05	2.05E-04
					90.0	5.48E-07	1.37E-06		
					86.0	4.35E-07	1.09E-06		
800	95.8	4.82	-.234	2.251	91.0	3.71E-06	9.27E-06	4.26E-04	1.07E-03
					101.1	2.00E-06	5.01E-06		
					99.1	1.55E-06	3.87E-06		
1200	93.5	4.18	1.140	5.110	92.0	4.15E-06	1.04E-05	6.81E-04	1.70E-03
					94.0	3.76E-06	9.41E-06		
					90.0	2.72E-06	6.81E-06		
1600	95.2	3.93	.800	4.161	94.6	3.70E-06	9.24E-06	7.27E-04	1.82E-03
					94.0	3.57E-06	8.92E-06		
					93.6	3.06E-06	7.66E-06		
2200	93.6	4.61	.865	4.088	94.0	2.92E-06	7.30E-06	8.65E-04	2.16E-03
					92.0	2.70E-06	6.74E-06		
					90.0	1.58E-06	3.96E-06		
3200	93.0	5.05	.811	3.687	91.8	2.18E-06	5.46E-06	1.13E-03	2.83E-03
					92.8	2.07E-06	5.17E-06		
					90.8	1.99E-06	4.98E-06		
5000	90.9X	4.39X	.150X	2.919X	92.0	7.23E-07	1.81E-06	4.92E-04X	1.23E-03X
					90.0	5.36E-07	1.34E-06		
					88.0	3.43E-07	8.56E-07		
7000	88.5X	4.60X	-.747X	3.577X	90.0	3.85E-07	9.62E-07	2.85E-04X	7.13E-04X
					88.0	1.98E-07	4.95E-07		
					92.0	1.68E-07	4.19E-07		
12300	0.0	0.00	0.000	0.000				0.	0.

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

B-55

U75

SAMPLING 400M TO 7000M. NO TOWER SAMPLING.

5000M AND 7000M ARCS TRUNCATED ON NORTH.

TEST U76 SEPTEMBER 16, 1968 0206 TO 0236 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 SAMPLER HT 1.5M U= 6.5M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	81.5	6.53	-.164	1.821	86.0	9.35E-06	6.08E-05	1.08E-03	7.03E-03
					74.0	8.77E-06	5.70E-05		
					90.0	6.82E-06	4.43E-05		
800	77.8	6.64	.459	1.757	73.0	1.71E-05	1.11E-04	2.14E-03	1.39E-02
					70.0	7.52E-06	4.89E-05		
					65.0	7.29E-06	4.74E-05		
1200	76.7	6.52	.649	1.953	72.0	1.20E-05	7.82E-05	2.00E-03	1.30E-02
					74.0	7.49E-06	4.87E-05		
					70.0	7.42E-06	4.82E-05		
1600	75.6	5.92	.901	2.466	72.0	1.17E-05	7.64E-05	2.28E-03	1.48E-02
					70.0	7.76E-06	5.04E-05		
					74.0	5.86E-06	3.81E-05		
2200	73.2	4.22	1.589	4.973	72.0	5.13E-06	3.34E-05	1.08E-03	7.01E-03
					70.0	4.17E-06	2.71E-05		
					76.0	1.19E-06	7.76E-06		
3200	75.0	3.77	.780	3.534	73.7	4.42E-06	2.87E-05	1.71E-03	1.11E-02
					72.7	3.67E-06	2.38E-05		
					74.7	3.28E-06	2.13E-05		
5000	83.3X	3.06X	3.641X	17.101X	82.0X	1.34E-07X	8.64E-07X	3.05E-05X	1.98E-04X
					84.0X	3.94E-08X	2.56E-07X		
					90.0X	4.43E-09X	2.88E-08X		
7000	80.2X	3.07X	.795X	4.118X	80.0X	1.61E-06X	1.05E-05X	1.24E-03X	8.05E-03X
					82.0X	1.38E-06X	9.00E-06X		
					78.0X	9.31E-07X	6.05E-06X		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U76 SEPTEMBER 16, 1968 0206 TO 0236 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 SAMPLER HT 1.5M U = 7.1M/SEC AT 56M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STANO DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	87.4?	6.82?	2.928?	12.197?	86.0?	2.84E-07?	2.02E-06?	9.66E-06?	6.86E-05?
					82.0?	2.58E-08?	1.83E-07?		
					110.0?	1.42E-08?	1.01E-07?		
800	82.5	6.18	-.379	1.675	88.0	3.65E-06	2.59E-05	4.60E-04	3.27E-03
					76.0	2.47E-06	1.76E-05		
					85.0	1.95E-06	1.38E-05		
1200	81.6?	5.93?	-.239?	1.703?	86.0?	4.98E-06?	3.53E-05?	1.01E-03?	7.20E-03?
					88.0?	3.53E-06?	2.51E-05?		
					74.0?	2.65E-06?	1.88E-05?		
1600	80.6	5.56	.060	1.657	76.0	4.21E-06	2.99E-05	1.21E-03	8.60E-03
					86.0	3.32E-06	2.36E-05		
					88.0	2.63E-06	1.87E-05		
2200	78.2	4.61	.429	2.131	76.0	2.29E-06	1.63E-05	8.19E-04	5.82E-03
					78.0	1.80E-06	1.28E-05		
					74.0	1.59E-06	1.13E-05		
3200	78.2	3.83	.464	2.298	76.8	2.75E-06	1.95E-05	1.33E-03	9.46E-03
					75.7	2.50E-06	1.77E-05		
					74.7	2.42E-06	1.72E-05		
5000	82.2X	.63X	3.355X	16.778X	82.0?	5.86E-07?	4.16E-06?	1.05E-04X	7.43E-04X
					84.0?	5.91E-08?	4.20E-07?		
					86.0?	2.02E-09?	1.44E-08?		
7000	82.8	2.74	.510	3.436	82.0	1.12E-06	7.98E-06	7.71E-04	5.47E-03
					84.0	7.57E-07	5.37E-06		
					80.0	6.35E-07	4.51E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

B-57

U76

SAMPLING 400M TO 12800M. NO TOWER SAMPLING. EXTREME SHIFT IN PLUME CENTERLINE LOCATION STARTING ABOUT 1600M. THE PLUME CENTERLINE SHIFT CAUSED TRUNCATION OR "MISSED PLUME" ON 1200, 3200, 5000, 7000 AND 12800M ARCS. FLUORESCENIN WAS NOT ASSAYED FAR ENOUGH NORTH ON THE 1600M ARC TO BE SURE OF TRUNCATION.

TEST U77 SEPTEMBER 17, 1968 0050 TO 0120 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 SAMPLER HT 1.5M U = 3.6M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES		
	MEAN	STAND DEV	EFFICIENCY	SKREW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG				DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	110.5	4.84	.314	5.722	110.0	9.11E-06	3.28E-05	6.87E-04	2.47E-03	
					106.0	6.48E-06	2.33E-05			
					114.0	4.40E-06	1.58E-05			
800	112.9	5.48	-.106	1.797	108.8	1.44E-05	5.18E-05	2.82E-03	1.01E-02	
					118.3	1.28E-05	4.62E-05			
					116.4	1.26E-05	4.52E-05			
1200	113.4?	5.26?	-2.276?	24.793?	118.0	1.25E-05	4.52E-05	2.45E-03?	8.84E-03?	
					110.0	8.71E-06	3.14E-05			
					116.0	7.68E-06	2.76E-05			
1600	113.9	3.83	-.797	4.645	117.3	1.69E-05	6.08E-05	3.90E-03	1.40E-02	
					116.3	1.51E-05	5.44E-05			
					115.3	1.41E-05	5.07E-05			
3200	102.0X	12.56X	-.639X	2.453X	114.6	1.98E-06	7.14E-06	1.32E-03X	4.75E-03X	
					112.7	1.82E-06	6.56E-06			
					113.7	1.53E-06	5.52E-06			
5000	89.3X	7.26X	1.913X	6.796X	86.0	1.70E-06	6.11E-06	6.55E-04X	2.36E-03X	
					84.0?	3.97E-07?	1.43E-06?			
					82.0?	3.58E-07?	1.29E-06?			
7000	82.3X	5.39X	1.683X	5.582X	80.0	9.40E-07	3.38E-06	7.63E-04X	2.75E-03X	
					82.0	7.58E-07	2.73E-06			
					78.0	7.06E-07	2.54E-06			
12800	100.3X	2.55X	-3.365X	12.325X	101.0X	8.35E-09X	3.01E-08X	2.15E-06X	7.73E-06X	
					91.0X	6.31E-10X	2.27E-09X			
					0.0X	0.	X 0. X			

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U77 SEPTEMBER 17, 1968 0050 TO 0120 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 SAMPLER HT 1.5M U = 3.7M/SEC AT 56M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	112.6	4.38	-.590	2.901	114.0	1.40E-06	5.16E-06	9.21E-05	3.41E-04
					118.0	7.72E-07	2.86E-06		
					106.0	7.47E-07	2.76E-06		
800	114.7	4.78	-.341	1.859	118.3	6.33E-06	2.34E-05	7.30E-04	2.70E-03
					120.2	4.71E-06	1.74E-05		
					108.8	3.30E-06	1.22E-05		
1200	113.4X	5.16X	-4.156X	50.310X	110.0	6.02E-06	2.23E-05	1.09E-03X	4.02E-03X
					118.0	5.99E-06	2.22E-05		
					112.0	3.75E-06	1.39E-05		
1600	114.9?	3.31?	-.002?	2.377?	112.4	8.17E-06	3.02E-05	1.69E-03?	6.24E-03?
					118.2	7.60E-06	2.81E-05		
					116.3	7.07E-06	2.62E-05		
3200	108.2X	12.77X	-1.686X	5.008X	115.6	4.62E-06	1.71E-05	1.20E-03X	4.44E-03X
					114.6	3.28E-06	1.22E-05		
					116.6	2.87E-06	1.06E-05		
5000	94.1X	9.31X	.627X	2.875X	86.0?	8.42E-07?	3.12E-06?	9.41E-04X	3.48E-03X
					82.0?	5.20E-07?	1.92E-06?		
					84.0?	4.84E-07?	1.79E-06?		
7000	84.6X	7.06X	1.137X	3.819X	80.0?	7.22E-07?	2.67E-06?	9.06E-04X	3.35E-03X
					82.0?	6.02E-07?	2.23E-06?		
					78.0?	5.77E-07?	2.14E-06?		
12800	97.4?	6.01?	.710?	2.277?	91.0?	2.29E-09?	8.49E-09?	2.19E-06?	8.11E-06?
					96.0?	1.19E-09?	4.41E-09?		
					95.0?	9.17E-10?	3.39E-09?		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

B-59

U77

SAMPLING 400M TO 7000M. NO TOWER SAMPLING. ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER.  
TRACE OF RAIN FELL DURING TRACER RELEASE. UP TO 0.03 INCHES OF RAIN FELL DURING PICKUP OF SAMPLES; ALTHOUGH  
MANY FILTERS WERE VERY WET. THE EFFECTS OF THIS "WASHING" ARE UNCERTAIN.

TEST U78 SEPTEMBER 18, 1968 0131 TO 0201 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
SAMPLER HT 1.5M U= 6.5M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/C	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	133.2	4.19	.066	2.608	134.0	2.55E-05	1.66E-04	2.11E-03	1.37E-02
					130.0	2.32E-05	1.51E-04		
					138.0	1.59E-05	1.03E-04		
800	134.2	3.73	-.342	2.444	133.2	1.37E-05?	8.88E-05?	1.82E-03?	1.18E-02?
					136.8	1.36E-05?	8.82E-05?		
					135.0	1.01E-05?	6.56E-05?		
1200	133.5	3.19	-.214	2.785	136.0	6.51E-06	4.23E-05	1.05E-03	6.81E-03
					134.0	5.64E-06	3.67E-05		
					132.0	4.72E-06	3.07E-05		
1600	133.1	3.02	.187	2.699	135.4	7.44E-06?	4.84E-05?	1.42E-03?	9.21E-03?
					133.5	6.81E-06?	4.42E-05?		
					132.5	5.52E-06?	3.59E-05?		
2200	132.8	3.17	.311	2.607	130.0	1.69E-06	1.10E-05	4.82E-04	3.13E-03
					132.0	1.19E-06	7.73E-06		
					134.0	1.19E-06	7.72E-06		
3200	133.9	2.63	.161	2.385	134.2	1.84E-06?	1.20E-05?	7.29E-04?	4.74E-03?
					133.2	1.66E-06?	1.08E-05?		
					132.2	1.58E-06?	1.03E-05?		
5000	134.7	1.99	.466	2.662	134.0	9.69E-07	6.30E-06	3.44E-04	2.23E-03
					132.0	3.31E-07	2.15E-06		
					138.0	3.20E-07	2.08E-06		
7000	136.3?	1.69?	-.144?	2.163?	138.0	6.64E-07	4.31E-06	4.51E-04?	2.93E-03?
					136.0	5.92E-07	3.85E-06		
					134.0	4.94E-07	3.21E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



TEST U78 SEPTEMBER 18, 1968 0131 TO 0201 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 SAMPLER HT 1.5M U= 7.3M/SEC AT 56M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	133.1	2.88	-.484	4.389	134.0	3.46E-06	2.53E-05	1.57E-04	1.15E-03
					130.0	1.26E-06	9.23E-06		
					138.0	5.70E-07	4.16E-06		
800	132.5	2.63	.327	3.467	133.2	2.61E-05	1.91E-04	2.10E-03	1.53E-02
					131.4	1.62E-05	1.18E-04		
					129.5	1.38E-05	1.01E-04		
1200	132.7	2.83	.122	2.718	132.0	5.77E-06	4.21E-05	9.13E-04	6.66E-03
					134.0	4.73E-06	3.45E-05		
					130.0	4.46E-06	3.26E-05		
1600	133.7	2.83	-.396	2.460	136.4	9.40E-06	6.86E-05	1.28E-03	9.34E-03
					133.5	5.06E-06	3.70E-05		
					134.4	5.06E-06	3.70E-05		
2200	133.0	2.75	.347	2.633	132.0	2.35E-06	1.72E-05	7.07E-04	5.16E-03
					130.0	2.28E-06	1.67E-05		
					136.0	1.87E-06	1.36E-05		
3200	133.3	2.35	-.062	2.746	133.2	1.55E-06	1.13E-05	4.67E-04	3.41E-03
					131.2	1.28E-06	9.31E-06		
					134.2	1.10E-06	8.05E-06		
5000	134.6	1.68	-.057	2.466	134.0	5.51E-07	4.02E-06	2.51E-04	1.83E-03
					136.0	5.51E-07	4.02E-06		
					132.0	2.51E-07	1.84E-06		
7000	136.3	1.48	-.117	2.172	136.0	3.02E-07	2.20E-06	1.66E-04	1.21E-03
					138.0	2.16E-07	1.57E-06		
					134.0	1.30E-07	9.49E-07		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

B-61

U78

SAMPLING 400M TO 12800M. NO TOWER SAMPLING.  
 SAMPLING ARC AT 2200M WAS NOT ACTIVATED.  
 ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER.

TEST U79 SEPTEMBER 20, 1968 0027 TO 0057 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 SAMPLER HT 1.5M U= 5.1M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	128.9	3.20	.735	2.719	126.0	1.85E-05	9.45E-05	1.12E-03	5.72E-03
					130.0	1.44E-05	7.34E-05		
					134.0	6.30E-06	3.21E-05		
800	128.5	2.79	.265	2.861	127.7	4.09E-05	2.09E-04	3.38E-03	1.72E-02
					129.5	2.35E-05	1.20E-04		
					125.8	1.90E-05	9.68E-05		
1200	128.6	2.30	.306	3.190	128.0	2.29E-05	1.17E-04	2.61E-03	1.33E-02
					130.0	1.50E-05	7.64E-05		
					126.0	1.30E-05	6.65E-05		
1600	128.8	2.10	.001	2.850	128.8	1.87E-05	9.52E-05	2.88E-03	1.47E-02
					127.8	1.63E-05	8.32E-05		
					129.7	1.52E-05	7.75E-05		
3200	126.1	2.31	-.350	3.016	126.3	5.97E-06	3.05E-05	1.57E-03	8.02E-03
					127.3	5.74E-06	2.93E-05		
					125.4	3.79E-06	1.94E-05		
5000	120.8	2.08	-.863	3.915	122.0	3.19E-06	1.63E-05	1.02E-03	5.22E-03
					120.0	1.25E-06	6.36E-06		
					118.0	7.94E-07	4.05E-06		
7000	119.9	2.80	-.359	3.132	120.0	1.57E-06	8.03E-06	1.24E-03	6.35E-03
					122.0	1.31E-06	6.69E-06		
					118.0	8.21E-07	4.19E-06		
12800	112.1	3.58	-.261	2.498	112.0	1.10E-07	5.63E-07	1.98E-04	1.01E-03
					110.0	1.01E-07	5.16E-07		
					113.0	9.52E-08	4.86E-07		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U79 SEPTEMBER 20, 1968 0027 TO 0057 PST  
 FLUORESCHEIN RELEASE FROM ELEVATION OF 56M  
 SAMPLER HT 1.5M U= 6.6M/SEC AT 56M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/QU.M	1/SQ.M	SEC/SQ.M	1/M
400	139.0	9.18	.368	1.956	134.0	5.04E-09	3.32E-08	3.96E-07	2.61E-06
					154.0	2.22E-09	1.47E-08		
					142.0	1.64E-09	1.08E-08		
800	130.3	2.32	-.102	4.582	129.5	7.05E-06	4.65E-05	5.61E-04	3.70E-03
					131.4	5.37E-06	3.54E-05		
					127.7	3.90E-06	2.57E-05		
1200	130.2	1.57	-.566	5.172	130.0	7.91E-06	5.22E-05	5.44E-04	3.59E-03
					132.0	2.94E-06	1.94E-05		
					128.0	1.28E-06	8.44E-06		
1600	130.5	1.68	-.210	3.561	130.6	7.34E-06	4.84E-05	7.38E-04	4.87E-03
					131.5	6.09E-06	4.02E-05		
					129.7	4.83E-06	3.19E-05		
3200	129.0	1.59	-.241	3.465	129.3	3.32E-06	2.19E-05	6.81E-04	4.49E-03
					130.3	2.51E-06	1.66E-05		
					127.3	2.02E-06	1.34E-05		
5000	124.6	2.83	-.582	3.316	126.0	1.02E-06	6.74E-06	4.28E-04	2.83E-03
					122.0	5.19E-07	3.43E-06		
					124.0	3.63E-07	2.39E-06		
7000	124.0	2.59	-.625	3.524	126.0	8.78E-07	5.79E-06	6.95E-04	4.59E-03
					124.0	8.06E-07	5.32E-06		
					122.0	5.12E-07	3.38E-06		
12800	115.2	3.73	-.608	3.246	115.0	2.25E-07	1.48E-06	4.09E-04	2.70E-03
					117.0	2.25E-07	1.48E-06		
					114.0	2.08E-07	1.37E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

B-63

U79

SAMPLING 400M TO 3200M. NO TOWER SAMPLING. ALL ARCS TRUNCATED FOR ZNS RELEASE FROM 26M. SOME ARCS TRUNCATED FOR FLUORESCIN RELEASE FROM 56M. TRACER "SMEARED" WIDELY IN CROSSWIND DIRECTION. THERMALLY VERY STABLE ATMOSPHERE. EQUIPMENT DIFFICULTIES DURING FLUORESCIN ASSAY.

TEST U80 SEPTEMBER 30, 1968 0039 TO 0109 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
SAMPLER HT 1.5M U= 2.2M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	CORRECTION SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	115.5X	21.85X	-1.301X	4.330X	126.0	2.71E-05	5.97E-05	3.10E-03X	6.82E-03X
					118.0	1.21E-05	2.67E-05		
					130.0	1.21E-05	2.67E-05		
800	126.1X	18.56X	-1.512X	6.850X	129.5	4.15E-05	9.15E-05	1.13E-02X	2.49E-02X
					127.7	2.44E-05	5.37E-05		
					125.8	2.24E-05	4.93E-05		
1200	121.7X	20.86X	-1.349X	4.796X	126.0	1.31E-05	2.88E-05	8.68E-03X	1.91E-02X
					134.0	1.20E-05	2.64E-05		
					136.0	1.19E-05	2.62E-05		
1600	124.3X	14.01X	-1.609X	7.102X	127.8	1.90E-05	4.19E-05	1.19E-02X	2.61E-02X
					121.2	1.80E-05	3.97E-05		
					122.1	1.77E-05	3.89E-05		
2200	102.5X	24.57X	-.381X	2.120X	126.0	1.04E-06	2.29E-06	9.98E-04X	2.19E-03X
					128.0	8.99E-07	1.98E-06		
					108.0	7.23E-07	1.59E-06		
3200	90.7?	9.21?	.566?	3.851?	84.8	1.07E-06	2.35E-06	8.12E-04?	1.79E-03?
					89.8	9.00E-07	1.98E-06		
					93.8	8.13E-07	1.79E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U80 SEPTEMBER 30, 1968 0039 TU 0109 PST  
 FLUORESCHEIN RELEASE FROM ELEVATION OF 56M  
 SAMPLER HT 1.5M U= 2.8M/SEC AT 56M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	126.7?	6.99?	-3.018?	12.844?	130.0?	1.29E-06?	3.62E-06?	5.59E-05?	1.57E-04?
					126.0?	4.96E-07?	1.39E-06?		
					106.0?	6.00E-08?	1.68E-07?		
800	130.6?	3.49?	-1.875?	12.611?	131.4?	2.22E-05?	6.21E-05?	1.70E-03?	4.76E-03?
					133.2?	1.71E-05?	4.79E-05?		
					129.5?	6.48E-06?	1.81E-05?		
1200	130.9?	6.53?	-1.950?	8.643?	134.0?	1.13E-05?	3.16E-05?	1.31E-03?	3.66E-03?
					132.0?	8.47E-06?	2.37E-05?		
					130.0?	3.08E-06?	8.61E-06?		
1600	132.8?	6.34?	-1.886?	7.787?	133.5?	8.21E-06?	2.30E-05?	1.40E-03?	3.91E-03?
					134.4?	7.69E-06?	2.15E-05?		
					132.5?	7.11E-06?	1.99E-05?		
2200	127.6?	12.60?	-1.050?	2.916?	136.0?	2.72E-06?	7.62E-06?	8.97E-04?	2.51E-03?
					134.0?	2.52E-06?	7.04E-06?		
					140.0?	8.71E-07?	2.44E-06?		
3200	116.1?	17.00?	.153?	2.231?	140.1?	9.18E-07?	2.57E-06?	1.14E-03?	3.20E-03?
					112.7?	8.43E-07?	2.36E-06?		
					110.7?	7.22E-07?	2.02E-06?		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

B-65

U80

SAMPLING 400M TO 12800M. NO TOWER SAMPLING. ALL ARCS EMBRACE ESSENTIALLY ENTIRE CROSSWIND EXTENT OF TRACER. HIGH DUST LEVEL ON FILTERS EXPOSED AT 5000M, 7000M AND 12800M. (DUST DEGRADES CONFIDENCE IN TRACER ASSAY -- ESPECIALLY ZNS.) LARGE WIND DIRECTION VARIANCE FOR RELATIVELY HIGH WIND SPEED.

TEST U81 OCTOBER 1, 1968 0111 TO 0141 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
SAMPLER HT 1.5M U = 5.7M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	Coefficient SKEW	KURT	AZIMUTH	E/C	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	111.6?	12.64?	-.699?	3.871?	114.0?	9.51E-06?	5.42E-05?	1.97E-03?	1.13E-02?
					118.0	9.23E-06	5.26E-05		
					110.0?	8.81E-06?	5.02E-05?		
800	116.1	7.97	-1.094	5.856	118.3	1.70E-05	9.67E-05	3.01E-03	1.72E-02
					116.4	1.41E-05	8.01E-05		
					114.5	9.99E-06	5.70E-05		
1200	116.2	6.76	-1.431	6.631	116.0?	7.08E-06?	4.03E-05?	1.43E-03	8.16E-03
					118.0	6.58E-06	3.75E-05		
					114.0	3.67E-06	2.09E-05		
1600	116.2	4.79	-.973	4.892	116.3	6.15E-06	3.51E-05	1.56E-03	8.91E-03
					117.3	6.03E-06	3.43E-05		
					115.3	5.28E-06	3.01E-05		
2200	115.7	4.17	-.550	3.592	118.0	4.35E-07	2.48E-06	1.15E-04	6.53E-04
					114.0	2.35E-07	1.34E-06		
					116.0	2.12E-07	1.21E-06		
3200	115.8	3.46	-.394	3.194	116.6	1.16E-06	6.62E-06	5.73E-04	3.27E-03
					117.6	1.05E-06	5.99E-06		
					115.6	1.02E-06	5.82E-06		
5000	115.6?	2.69?	-.080?	2.932?	114.0?	6.50E-08?	3.70E-07?	4.06E-05?	2.32E-04?
					118.0?	5.99E-08?	3.41E-07?		
					116.0?	5.32E-08?	3.03E-07?		
7000	114.7?	3.79?	-.091?	2.999?	116.0?	2.13E-07?	1.22E-06?	2.36E-04?	1.35E-03?
					114.0?	2.02E-07?	1.15E-06?		
					112.0?	1.37E-07?	7.82E-07?		
12800	112.6?	4.09?	-.295?	2.405?	111.0?	2.77E-08?	1.58E-07?	7.82E-05?	4.46E-04?
					112.0?	2.76E-08?	1.57E-07?		
					110.0?	2.74E-08?	1.56E-07?		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U81      OCTOBER 1, 1968      0111 TO 0141 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 SAMPLER HT 1.5M      U = 7.0M/SEC AT 56M

DISTANCE FKOM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	115.9	11.76	.829	2.791	110.0	3.60E-06	2.52E-05	3.46E-04	2.42E-03
					138.0	2.04E-06	1.43E-05		
					114.0	1.82E-06	1.27E-05		
800	114.0	6.23	.462	3.478	114.5	6.52E-06	4.56E-05	1.11E-03	7.78E-03
					112.6	5.76E-06	4.04E-05		
					108.8	4.96E-06	3.47E-05		
1200	116.4	5.24	.313	3.363	118.0	4.26E-06	2.98E-05	8.44E-04	5.91E-03
					114.0	3.59E-06	2.51E-05		
					112.0	2.32E-06	1.62E-05		
1600	117.2	3.53	.314	3.518	114.4	7.61E-06	5.32E-05	1.30E-03	9.11E-03
					118.2	6.61E-06	4.63E-05		
					115.3	6.28E-06	4.40E-05		
2200	117.8	3.43	.148	3.482	116.0	1.49E-06	1.04E-05	3.65E-04	2.55E-03
					118.0	1.33E-06	9.29E-06		
					122.0	6.57E-07	4.60E-06		
3200	118.1	3.84	.151	2.773	116.6	2.02E-06	1.41E-05	7.08E-04	4.96E-03
					117.6	1.28E-06	8.94E-06		
					114.6	1.16E-06	8.15E-06		
5000	117.3	4.22	.392	2.253	116.0	4.00E-07	2.80E-06	2.69E-04	1.88E-03
					114.0	2.69E-07	1.86E-06		
					112.0	1.96E-07	1.37E-06		
7000	116.0	4.52	.145	2.744	118.0	5.03E-07	3.52E-06	6.65E-04	4.65E-03
					116.0	4.20E-07	2.94E-06		
					114.0	3.80E-07	2.66E-06		
12000	113.9	4.96	.357	4.408	117.0	1.84E-07	1.29E-06	3.16E-04	2.21E-03
					116.0	1.30E-07	9.13E-07		
					110.0	1.12E-07	7.81E-07		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

B-67

U81

SAMPLING 400M TO 12800M. NO TOWER SAMPLING. ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER. NO FLUORESCIN DETECTED AT 400M ARC. HIGH DUST LEVEL LN FILTERS LN 5000, 7000 AND 12800M ARCS. (DUST DEGRADES CONFIDENCE IN TRACER ASSAY -- PARTICULARLY ZNS.) LARGE DIRECTION SHEAR. PLUME CENTERLINE SHIFTS LOCATION STARTING AT 3200M.

TEST U82 OCTOBER 2, 1968 0111 TO 0141 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
SAMPLER HT 1.5M U = 4.7M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	C1(E/Q)	C1(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	115.2	4.90	-.835	3.149	118.0	2.93E-06	1.38E-05	1.83E-04	8.59E-04
					114.0	1.27E-06	5.95E-06		
					110.0	9.04E-07	4.25E-06		
800	115.6	4.41	-.679	3.852	118.3	1.36E-05	6.41E-05	1.90E-03	8.93E-03
					114.5	1.22E-05	5.73E-05		
					116.4	1.07E-05	5.01E-05		
1200	113.9	4.53	-.863	4.477	114.0	9.51E-06	4.47E-05	1.87E-03	8.79E-03
					116.0	8.58E-06?	4.03E-05?		
					118.0	7.38E-06	3.47E-05		
1600	113.8	5.07	-.467	3.116	117.3	8.20E-06	3.85E-05	2.86E-03	1.34E-02
					113.4	8.17E-06	3.84E-05		
					115.3	7.37E-06	3.46E-05		
2200	113.4	4.70	-.226	3.937	116.0	1.38E-06	6.49E-06	4.48E-04	2.11E-03
					114.0	1.31E-06	6.17E-06		
					112.0	8.40E-07?	3.95E-06?		
3200	118.1	5.78	-.398	2.327	119.5	3.41E-06	1.60E-05	1.64E-03	7.70E-03
					113.7	2.90E-06	1.36E-05		
					120.5	2.56E-06	1.20E-05		
5000	120.9	5.14	-.087	2.282	116.0	7.71E-07	3.63E-06	7.21E-04	3.39E-03
					126.0	7.57E-07	3.56E-06		
					124.0	5.38E-07	2.53E-06		
7000	129.1	5.60	-.691	2.727	134.0	1.70E-06	8.00E-06	2.15E-03	1.01E-02
					132.0	1.32E-06?	6.21E-06?		
					130.0	1.08E-06	5.05E-06		
12800	130.9	2.14	-.608	4.068	133.0	9.07E-07	4.26E-06	7.35E-04	3.45E-03
					132.0	5.84E-07	2.75E-06		
					130.0	4.56E-07?	2.14E-06?		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



TEST U82      OCTOBER 2, 1968      0111 TO 0141 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 SAMPLER HT 1.5M      U= 4.6M/SEC AT 56M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI (E/Q)	CI (EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	0.0	0.00	0.000	0.000	0.0 0.0 0.0	0. 0. 0.	0. 0. 0.	0.	0.
800	123.1	2.00	-0.855	6.066	122.1 125.8 124.0	3.05E-06 1.28E-06 1.20E-06	1.40E-05 5.88E-06 5.52E-06	1.63E-04	7.50E-04
1200	124.0	2.98	.090	3.358	124.0 126.0 120.0	2.54E-06 2.22E-06 1.19E-06	1.17E-05 1.07E-05 5.46E-06	3.40E-04	1.57E-03
1600	123.6	3.23	.768	3.799	123.1 124.1 122.1	7.06E-06 4.65E-06 3.96E-06	3.25E-05 2.14E-05 1.82E-05	8.66E-04	3.98E-03
2200	124.5	3.62	.372	3.016	124.0 126.0 122.0	1.89E-06 1.61E-06 1.58E-06	8.72E-06 7.42E-06 7.25E-06	6.17E-04	2.84E-03
3200	125.8	4.80	.060	2.877	123.4 125.4 124.4	2.02E-06 2.02E-06 1.64E-06	9.31E-06 9.31E-06 7.52E-06	1.11E-03	5.12E-03
5000	128.7	6.14	-0.421	2.951	128.0 136.0 126.0	3.49E-07 3.35E-07 2.73E-07	1.60E-06 1.54E-06 1.26E-06	3.93E-04	1.81E-03
7000	132.6	4.94	-0.219	3.865	134.0 130.0 136.0	6.16E-07 3.01E-07 2.67E-07	2.83E-06 1.38E-06 1.23E-06	5.40E-04	2.49E-03
12800	134.6	4.40	.640	3.244	133.0 134.0 132.0	3.08E-07 2.96E-07 2.73E-07	1.41E-06 1.36E-06 1.26E-06	6.47E-04	2.98E-03

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

B-69

U82

SAMPLING 400M TO 7000M. NO TOWER SAMPLING. ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER.  
 CENTERLINES OF FLUORESCIN AND ZINC SULFIDE PLUMES AT SIGNIFICANTLY DIFFERENT DIRECTIONS.  
 THERMALLY VERY STABLE ATMOSPHERE. LARGE DIRECTION SHEAR WITH HEIGHT.

TEST U83      OCTOBER 3, 1968      0112 TO 0142 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 SAMPLER HT 1.5M      U= 5.2M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	112.7	2.23	-.710	3.257	114.0	5.04E-06	2.62E-05	2.17E-04	1.13E-03
					110.0	2.40E-06	1.25E-05		
					106.0	1.80E-07	9.35E-07		
800	112.1	3.16	-.415	2.595	114.5	6.83E-06	3.55E-05	7.90E-04	4.11E-03
					112.6	5.64E-06	2.93E-05		
					110.7	5.13E-06	2.67E-05		
1200	111.3	2.78	-.257	2.835	112.0	6.73E-06	3.50E-05	1.11E-03	5.77E-03
					110.0	6.24E-06	3.24E-05		
					114.0	6.18E-06	3.21E-05		
1600	111.6	2.56	-.157	3.303	110.4	1.19E-05	6.18E-05	1.85E-03	9.61E-03
					111.4	1.05E-05	5.44E-05		
					112.4	8.33E-06	4.33E-05		
2200	110.2	2.85	-.426	2.841	110.0	1.34E-06	6.95E-06	3.31E-04	1.72E-03
					112.0	1.10E-06	5.71E-06		
					114.0	5.92E-07	3.08E-06		
3200	111.3	2.60	.066	2.537	109.7	3.69E-06	1.92E-05	1.09E-03	5.68E-03
					110.7	3.31E-06	1.72E-05		
					108.8	3.28E-06	1.71E-05		
5000	112.8	2.85	-.072	3.349	112.0	6.08E-07	3.16E-06	3.93E-04	2.04E-03
					110.0	4.97E-07	2.59E-06		
					114.0	4.91E-07	2.56E-06		
7000	115.8	2.41	-.358	2.779	116.0	1.80E-06	9.34E-06	1.46E-03	7.62E-03
					118.0	1.58E-06	8.24E-06		
					114.0	1.24E-06	6.44E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U83      OCTOBER 3, 1968      0112 TO 0142 PST  
 FLUORESCENCE RELEASE FROM ELEVATION OF 56M  
 SAMPLER HT 1.5M      U = 6.6M/SEC AT 56M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV.	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	C1(E/Q)	C1(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	111.7	2.92	-1.153	6.166	110.0	2.88E-08	1.90E-07	1.69E-06	1.12E-05
					114.0	2.77E-08	1.83E-07		
					102.0	1.91E-09	1.26E-08		
800	118.7	2.22	-.258	3.802	116.4	2.33E-06	1.54E-05	1.44E-04	9.50E-04
					120.2	2.25E-06	1.49E-05		
					122.1	5.47E-07	3.61E-06		
1200	118.3	3.75	1.506	7.227	116.0	8.47E-07	5.59E-06	1.18E-04	7.81E-04
					120.0	5.56E-07	3.67E-06		
					114.0	4.42E-07	2.92E-06		
1600	118.5	3.28	.226	1.667	122.1	3.02E-06	1.99E-05	3.48E-04	2.30E-03
					116.3	2.23E-06	1.47E-05		
					114.4	1.93E-06	1.27E-05		
2200	118.6	2.41	-.150	3.168	120.0	1.11E-06	7.30E-06	2.54E-04	1.68E-03
					118.0	9.48E-07	6.26E-06		
					116.0	4.73E-07	3.12E-06		
3200	120.2	3.08	-.940	3.353	122.4	1.41E-06	9.32E-06	3.15E-04	2.08E-03
					121.5	9.87E-07	6.51E-06		
					120.5	6.95E-07	4.59E-06		
5000	120.4	2.31	-.573	4.483	122.0	1.17E-06	7.72E-06	4.78E-04	3.15E-03
					120.0	7.67E-07	5.06E-06		
					118.0	4.80E-07	3.16E-06		
7000	121.1	1.71	-.206	7.847	122.0	1.61E-06	1.06E-05	7.31E-04	4.82E-03
					120.0	9.20E-07	6.07E-06		
					118.0	1.97E-07	1.30E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

B-71

U83

SAMPLING 400M TO 12800M; NO TOWER SAMPLING. ONLY ZNS TRACER WAS DISPERSED. NO TRACER OBSERVED ON 400M OR 800M ARCS. WITH THE EXCEPTION OF THE 12800M ARC. ALL ARCS EXPOSED TO TRACER EMBRACED THE ENTIRE CROSSWIND DISTRIBUTION.

TEST U84 AUGUST 27, 1969 0140 TO 0210 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
SAMPLER HT 1.5M U = 7.1M/SEC AT 111M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	0.0	0.00	0.000	0.000	0.0 0.0 0.0	0. 0. 0.	0. 0. 0.	0.	0.
800	0.0	0.00	0.000	0.000	0.0 0.0 0.0	0. 0. 0.	0. 0. 0.	0.	0.
1600	116.3	1.43	.159	1.830	115.3 118.2 117.3	4.81E-07 3.11E-07 2.19E-07	3.41E-06 2.21E-06 1.56E-06	3.85E-05	2.74E-04
3200	114.4?	2.12?	-.371?	9.049?	113.7 115.6 114.6	6.75E-07 6.09E-07 4.64E-07	4.79E-06 4.32E-06 3.29E-06	1.26E-04?	8.91E-04?
5000	115.7	4.95	.567	2.270	114.0 112.0 110.0	1.00E-07 7.36E-08? 4.09E-08	7.12E-07 5.23E-07? 2.90E-07	6.41E-05	4.55E-04
7000	118.9	4.38	-1.865	10.310	120.0 116.0 122.0	1.44E-07 2.79E-08 1.65E-08	1.02E-06 1.98E-07 1.17E-07	5.72E-05	4.06E-04
12800	133.9X	5.36X	1.652X	5.530X	132.0 131.0 133.0	1.61E-06 7.53E-07 3.94E-07	1.14E-05 5.35E-06 2.80E-06	9.56E-04X	6.79E-03X

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



SAMPLING 400M TO 12800M; NO TOWER SAMPLING.  
 ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER DISTRIBUTIONS. NO ZNS TRACER OBSERVED ON 400M ARC.  
 SPORADIC FLUORESCIN DISPERSAL DURING FIRST 10 MIN OF TEST; OK DURING LAST 20 MIN.

TEST 085 AUGUST 28, 1969 0154 TO 0224 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
 SAMPLER HT 1.5M U= 9.7M/SEC AT 111M

DISTANCE FRGM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	EFFICIEN SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	0.0	0.00	0.000	0.000	0.0 0.0 0.0	0. 0. 0.	0. 0. 0.	0.	0.
800	107.9	3.98	.208	2.458	105.0 106.9 110.7	7.49E-08 6.69E-08 6.59E-08	7.26E-07 6.49E-07 6.39E-07	9.54E-06	9.25E-05
1600	107.6	4.89	.336	2.225	106.5 100.6 107.5	1.04E-06 6.61E-07 5.47E-07	1.01E-05 6.41E-06 5.31E-06	2.18E-04	2.11E-03
3200	108.4	3.65	-.134	2.196	106.8 109.7 107.6	8.10E-07 6.47E-07 6.40E-07	7.85E-06 6.28E-06 6.20E-06	4.03E-04	3.91E-03
5000	109.0	2.77	.815	3.177	108.0 106.0 110.0	5.91E-07? 4.34E-07 4.03E-07	5.73E-06? 4.21E-06 3.90E-06	3.09E-04	3.00E-03
7000	111.0?	4.3??	.774?	2.806?	108.0? 106.0? 110.0?	3.07E-08? 2.79E-08? 2.34E-06?	2.98E-07? 2.71E-07? 2.27E-07?	3.44E-05?	3.34E-04?
12800	114.5	2.26	-.097	1.847	116.0 112.0 117.0	7.14E-08 6.22E-08 4.38E-08	6.92E-07 6.03E-07 4.25E-07	7.94E-05	7.71E-04

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST UR5 AUGUST 28, 1969 0154 TO 0224 PST -  
 FLUORESCENCE RELEASE FROM ELEVATION OF 56M  
 SAMPLER HT 1.5M U= 8.2M/SEC AT 56M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	C1(E/Q)	C1(EU/Q)
METERS	DEG	DEG			DEG	SEC/CM	1/SQ.M	SEC/SQ.M	1/M
400	106.5	5.42	.635	2.245	102.0	1.51E-06	1.24E-05	8.52E-05	6.99E-04
					110.0	5.92E-07	4.86E-06		
					114.0	4.63E-07	3.80E-06		
800	110.9	3.75	-.645	4.422	108.8	2.78E-06	2.28E-05	3.06E-04	2.51E-03
					110.7	2.48E-06	2.03E-05		
					112.6	2.43E-06	2.00E-05		
1600	106.5	4.83	.221	2.291	102.6	4.82E-06	3.95E-05	1.47E-03	1.21E-02
					106.5	4.48E-06	3.67E-05		
					103.6	4.39E-06	3.60E-05		
3200	107.6	3.83	-.000	1.978	104.8	1.87E-06	1.54E-05	1.12E-03	9.21E-03
					103.8	1.66E-06	1.38E-05		
					110.7	1.68E-06	1.38E-05		
5000	109.5	2.90	.405	2.539	108.0	1.88E-06?	1.54E-05?	1.08E-03	8.87E-03
					110.0	1.31E-06	1.07E-05		
					106.0	1.20E-06	9.80E-06		
7000	110.6?	3.13?	.551?	3.633?	110.0?	3.36E-07?	2.75E-06?	2.94E-04?	2.41E-03?
					108.0?	2.35E-07?	1.93E-06?		
					112.0?	2.09E-07?	1.71E-06?		
12800	114.0	1.95	.066	2.729	114.0	2.95E-07	2.42E-06	3.11E-04	2.55E-03
					112.0	2.80E-07	2.29E-06		
					115.0	2.16E-07	1.77E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

B-75

085

SAMPLING 400M TO 12800M; NO TOWER SAMPLING. POSSIBLE CONTAMINATION OF ZNS ON NORTH END OF 7000M ARC.  
 ARCS GENERALLY EMBRACE CROSSWIND EXTENT OF TRACER. NO ZNS OBSERVED ON 400M OR 800M ARCS.  
 POSSIBLE FLUORESCIN CONTAMINATION ON 400 AND 800M ARCS.

TEST J86 AUGUST 29, 1969 0056 TO 0126 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
 SAMPLER HT 1.5M U = 6.2M/SEC AT 111M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	0.0	0.00	0.000	0.000	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.	0.
800	0.0	0.00	0.000	0.000	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.	0.
1600	108.9	3.47	.688	1.827	105.5 114.4 106.5	3.41E-08 3.26E-08 3.11E-08	2.11E-07 2.02E-07 1.93E-07	3.93E-06	2.44E-05
3200	110.4	2.56	-1.068	3.945	111.7 113.7 110.7	5.37E-07 1.94E-07 1.70E-07	3.33E-06 1.25E-06 1.05E-06	7.72E-05	4.79E-04
5000	107.3	4.09	-.336	2.656	108.0 110.0 106.0	5.40E-08 2.47E-08 2.26E-08	3.35E-07 1.53E-07 1.40E-07	2.90E-05	1.80E-04
7000	106.2?	6.22?	-2.584?	11.079?	108.0 104.0 110.0	2.16E-07 9.45E-08 8.58E-08	1.34E-06 5.86E-07 5.32E-07	1.29E-04?	7.99E-04?
12800	111.8	2.36	-2.925	12.972	113.0 110.0 112.0	4.49E-07 8.15E-08 7.03E-08	2.79E-06 5.05E-07 4.36E-07	1.56E-04	9.66E-04

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



TEST U86 AUGUST 29, 1969 OC56 TO 0126 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 SAMPLER HT 1.5M U = 4.9M/SEC AT 56M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	97.0?	5.81?	2.016?	11.919?	94.0?	2.42E-06?	1.19E-05?	1.37E-04?	6.71E-04?
					98.0?	2.10E-06?	1.03E-05?		
					118.0?	1.64E-07?	8.04E-07?		
800	99.8?	4.08?	3.679?	20.957?	97.1?	4.02E-06?	1.97E-05?	2.94E-04?	1.44E-03?
					99.1?	2.81E-06?	1.38E-05?		
					101.1?	2.61E-06?	1.28E-05?		
1600	97.3X	5.58X	.472X	4.896X	98.6	5.57E-06	2.73E-05	1.40E-03X	6.84E-03X
					99.6	4.31E-06	2.11E-05		
					96.6	4.11E-06	2.01E-05		
3200	101.4	5.04	-.270	3.129	101.8	2.94E-06	1.44E-05	1.63E-03	9.01E-03
					99.8	2.49E-06	1.22E-05		
					98.8	2.36E-06	1.16E-05		
5000	102.8	4.13	-.285	2.843	106.0	1.11E-06	5.44E-06	8.49E-04	4.16E-03
					100.0	9.24E-07	4.53E-06		
					102.0	8.93E-07	4.38E-06		
7000	102.4	4.14	-.293	2.731	104.0	6.46E-07	3.17E-06	7.30E-04	3.57E-03
					102.0	5.54E-07	2.71E-06		
					100.0	5.07E-07	2.49E-06		
12800	107.5	4.51	-.269	6.582	109.0	4.09E-07	2.01E-06	5.30E-04	2.60E-03
					110.0	3.60E-07	1.66E-06		
					107.0	2.45E-07	1.20E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

B-77

SAMPLING 400M TO 12800M PLUS ONE TOWER ON 3200M-ARC. TRACER DISTRIBUTION IS ERRATIC ON ALL ARCS, PARTIALLY DUE TO HEAVY DUST LOADS ON FILTERS, BUT PERHAPS ALSO DUE TO CONTAMINATION. 26 MIN OF ZNS DISPERSAL; NO FLUORESCIN DISPERSED. STRONG WIND SPEED AND DIRECTION SHEAR ABOVE 50M ELEVATION.

TEST: J87 SEPTEMBER 8, 1969 0151 TO 0217 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
SAMPLER HT 1.5M U = 6.1M/SEC AT 111M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/W	EU/Q	CI(E/W)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	85.9?	7.03?	-1.329?	3.265?	90.0? 78.0? 70.0?	3.16E-08? 5.46E-09? 5.09E-09?	1.93E-07? 3.33E-08? 3.11E-06?	1.27E-06?	7.75E-06?
800	88.6X	8.50X	.447X	2.106X	87.2? 79.0? 31.1?	1.07E-07? 8.95E-08? 8.95E-08?	6.51E-07? 5.46E-07? 5.46E-07?	1.80E-05X	1.10E-04X
1600	86.4X	7.63X	-.297X	1.653X	90.6? 93.6? 94.6?	7.87E-08? 7.57E-08? 5.60E-08?	4.80E-07? 4.62E-07? 3.42E-07?	1.57E-05X	9.59E-05X
3200	87.4X	10.85X	.534X	2.120X	106.8? 82.8? 79.8?	8.30E-08? 6.94E-08? 5.10E-08?	5.07E-07? 4.23E-07? 3.11E-07?	5.21E-05X	3.18E-04X
5000	100.2?	9.39?	-.044?	2.400?	100.0? 96.0? 112.0?	2.73E-08? 2.02E-08? 1.46E-06?	1.66E-07? 1.23E-07? 8.94E-08?	1.60E-05?	9.79E-05?
7000	109.5?	13.90?	.360?	2.897?	112.0? 102.0? 98.0?	1.30E-07? 7.83E-08? 7.64E-08?	7.95E-07? 4.78E-07? 4.66E-07?	1.84E-04?	1.12E-03?
12800	138.6?	7.03?	-.429?	2.313?	141.0? 142.0? 144.0?	4.78E-08? 3.15E-08? 2.91E-08?	2.92E-07? 1.92E-07? 1.77E-07?	8.46E-05?	5.18E-04?

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



SAMPLING 400M TO 12800M; TOWER SAMPLING AT 3200M. 115.6 DEG. NO ZNS TRACER OBSERVED CLOSER THAN 3200M ARC, AND DUST AND SAMPLER FAILURE CAUSED PROBLEMS WHERE TRACER WAS FOUND. FOR FLUORESCIN, TRACER ON 0049, OFF 0055, ON AGAIN 0132, AND FINALLY OFF 0142. THIS TEST WAS marginally SUCCESSFUL, ESPECIALLY FOR FLUORESCIN.

TEST J88 SEPTEMBER 10, 1969 0132 TO 0202 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
SAMPLER HT 1.5M U= 6.4M/SEC AT 111M

DISTANCE FROM SOURCE	CROSSWIND DISPERSSION				TREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT OF SKEW	KURT	AZIMUTH	E/Q	L/Q	CI(E/Q)	CI(L/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	0.0	0.00	0.000	0.000	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.	0.
800	0.0	0.00	0.000	0.000	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.	0.
1600	0.0	0.00	0.000	0.000	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.	0.
3200	120.2?	1.80?	.080?	1.565?	119.5? 122.4? 117.6?	6.65E-08? 5.23E-08? 2.66E-08?	4.26E-07? 3.35E-07? 1.70E-07?	7.94E-06?	5.08E-05?
5000	121.7?	2.48?	1.044?	2.287?	120.0? 126.0? 122.0?	4.02E-08? 1.49E-08? 6.61E-09?	2.57E-07? 9.56E-08? 5.51E-08?	1.11E-05?	7.13E-05?
7000	120.2?	1.63?	.433?	5.273?	120.0? 124.0? 116.0?	5.03E-08? 6.73E-09? 2.96E-09?	3.22E-07? 4.30E-08? 1.89E-08?	1.62E-05?	1.04E-04?
12800	122.0?	1.53?	-.738?	5.085?	122.0? 123.0? 121.0?	3.61E-08? 1.30E-08? 1.18E-08?	2.31E-07? 8.35E-08? 7.58E-08?	1.85E-05?	1.19E-04?

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U88 SEPTEMBER 10, 1969 049? TL 142? PST  
 FLUCRESCIN RELEASE FROM ELEVATION OF 56M  
 SAMPLER HT 1.5M U= 7.6M/SEC AT 56M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENTS SKEW KURT		AZIMUTH	E/Q	EU/Q	C1(E/Q)	C1(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	103.5X	26.19X	.336X	1.968X	94.0? 6.23E-08?	4.73E-07?	1.63E-05X	1.24E-04X	
					82.0? 4.32E-08?	3.29E-07?			
					66.0? 3.98E-08?	3.02E-07?			
800	141.0X	5.76X	.115X	2.072X	133.2? 2.29E-08?	1.74E-07?	2.47E-06X	1.87E-05X	
					142.4? 1.34E-08?	1.02E-07?			
					140.6? 1.15E-08?	8.71E-08?			
1600	116.1?	3.93?	.125?	1.875?	112.4? 1.00E-05?	7.60E-05?	1.73E-03?	1.31E-02?	
					119.2? 9.25E-06?	7.03E-05?			
					114.4? 6.60E-06?	5.02E-05?			
3200	111.2?	3.14?	.698?	4.135?	111.7? 5.20E-06?	3.95E-05?	2.00E-03?	1.52E-02?	
					112.7? 5.20E-06?	3.95E-05?			
					109.7? 5.02E-06?	3.81E-05?			
5000	114.1?	5.50?	.341?	1.888?	110.0? 2.41E-06?	1.84E-05?	1.64E-03?	1.25E-02?	
					112.0? 1.47E-06?	1.12E-05?			
					120.0? 1.36E-06?	1.04E-05?			
7000	114.6?	4.79?	.044?	2.860?	114.0? 7.85E-07?	5.97E-06?	9.96E-04?	7.57E-03?	
					116.0? 7.50E-07?	5.70E-06?			
					122.0? 7.33E-07?	5.57E-06?			
12800	118.0?	6.30?	-1.793?	8.179?	122.0? 6.20E-07?	4.72E-06?	8.04E-04?	6.11E-03?	
					117.0? 4.53E-07?	3.45E-06?			
					121.0? 3.95E-07?	3.00E-06?			

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

B-81

U88

SAMPLING 400M TO 12800M. SAMPLING AT ONLY ONE TOWER, BUT NO TRACER THEREON. NO ZNS ON 400M OR 800M ARCS. ZINC SULFIDE TRACER EMBRACED BY CROSSWIND EXTENT OF ARCS. FLUORESCIN CROSSWIND DISTRIBUTIONS SEEM TO EXTEND OFF EDGES OF ARCS FREQUENTLY, BUT CONTAMINATION IS POSSIBILITY. NEITHER TRACER OBSERVED AT 12800M ARC.

TEST U89 SEPTEMBER 11, 1969 0116 TO 0148 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
SAMPLER HT 1.5M U= 3.6M/SEC AT 111M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	0.0	0.00	0.000	0.000				0.	0.
800	0.0	0.00	0.000	0.000				0.	0.
1600	97.2	1.10	-0.884	3.870	97.6 96.6 98.6	3.86E-07 2.14E-07 1.88E-07	1.39E-06 7.69E-07 6.78E-07	2.60E-05	9.37E-05
3200	97.0	1.90	.275	2.310	95.8 98.8 96.8	4.44E-07 4.34E-07 3.49E-07	1.60E-06 1.56E-06 1.26E-06	1.19E-04	4.27E-04
5000	99.5?	2.33?	-5.785?	38.902?	100.0 98.0 94.0	5.88E-08 3.88E-09 1.76E-09	2.12E-07 1.40E-08 6.35E-09	1.07E-05?	3.85E-05?
7000	96.9?	4.66?	-1.022?	2.977?	100.0 98.0 102.0	1.51E-07 1.51E-07 1.08E-07	5.44E-07 5.44E-07 3.88E-07	1.46E-04?	5.25E-04?
12800	0.0	0.00	0.000	0.000				0.	0.

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U89 SEPTEMBER 11, 1969 0118 TO 0148 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 SAMPLER HT 1.5M U= 3.0M/SEC AT 56M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	92.9?	13.94?	-1.632?	4.341?	98.0?	2.65E-06?	7.96E-06?	1.16E-04?	3.48E-04?
					102.0?	7.96E-07?	2.39E-06?		
					62.0?	6.83E-07?	2.05E-06?		
800	100.6?	3.56?	.775?	3.866?	99.1?	5.08E-06?	1.52E-05?	2.93E-04?	8.80E-04?
					101.1?	2.47E-06?	7.42E-06?		
					108.8?	8.75E-07?	2.62E-06?		
1600	98.3?	2.88?	-1.503?	5.253?	100.6	3.13E-06	9.38E-06	4.29E-04?	1.29E-03?
					98.6	2.90E-06	8.71E-06		
					97.6	2.16E-06	6.47E-06		
3200	93.6?	5.85?	-1.880?	6.450?	95.8	2.43E-06	7.28E-06	7.62E-04?	2.29E-03?
					96.8	2.27E-06	6.82E-06		
					94.8	1.57E-06	4.70E-06		
5000	94.9?	5.42?	-.120?	4.350?	100.0	2.81E-07	8.42E-07	2.11E-04?	6.33E-04?
					96.0	2.46E-07	7.38E-07		
					94.0	1.62E-07	4.86E-07		
7000	94.6?	5.14?	-.285?	1.988?	90.0	4.30E-07	1.29E-06	3.89E-04?	1.17E-03?
					98.0	3.15E-07	9.46E-07		
					100.0	2.41E-07	7.23E-07		
12800	0.0	0.00	0.000	0.000			0.	0.	

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING 400M TO 12800M; SAMPLING ON ONE TOWER<sup>1</sup> AT 3200M. NO ZNS OBSERVED ON 400M, 800M OR 12800M ARCS. ZNS PLUME LIKELY OFF NORTH EDGE OF 7000M AND 12800M ARCS. FLUORESCIN DISPERSAL FOR ONLY 4 MIN. THUS, SIGNIFICANCE OF FLUORESCIN MEASUREMENTS IS MINIMAL.

TEST J90 SEPTEMBER 12, 1969 0223<sup>1</sup> TO 0253 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
SAMPLER HT 1.5M U = 4.1M/SEC AT 111M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	0.0	0.00	0.000	0.000	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.	0.
800	0.0	0.00	0.000	0.000	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.	0.
1600	108.2	2.89	-0.474	2.161	110.4 104.5 111.4	2.48E-07 2.02E-07 1.50E-07	1.02E-06 8.29E-07 6.16E-07	3.18E-05	1.30E-04
3200	107.9	4.53	-1.299	4.739	110.7 111.7 109.7	7.23E-07 6.93E-07 5.47E-07	2.97E-06 2.84E-06 2.24E-06	2.58E-04	1.06E-03
5000	98.5?	6.90?	-0.246?	2.940?	100.0 102.0 94.0	2.05E-07 1.61E-07 1.24E-07	8.41E-07 6.62E-07 5.08E-07	1.24E-04?	5.10E-04?
7000	95.3X	10.15X	-0.964X	2.211X	102.0X 82.0X 76.0X	2.26E-08X 4.64E-09X 4.52E-09X	9.27E-08X 1.90E-08X 1.85E-08X	8.03E-06X	3.29E-05X
12800	0.0	0.00	0.000	0.000				0.	0.

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



TEST U90 SEPTEMBER 12, 1969 0223 TO 0227 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 SAMPLER HT 1.5M U = 4.3M/SEC AT 56M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	103.6X	11.82X	-.016X	1.592X	98.0?	1.17E-07?	5.04E-07?	1.56E-05X	6.69E-05X
					114.0?	1.12E-07?	4.83E-07?		
					90.0?	8.48E-08?	3.65E-07?		
800	111.7X	6.86X	-.045X	2.281X	106.9?	2.15E-07?	9.24E-07?	2.12E-05X	9.13E-05X
					114.5?	1.74E-07?	7.46E-07?		
					122.1?	1.07E-07?	4.62E-07?		
1600	115.2?	2.22?	-5.549?	36.116?	115.3?	1.58E-05?	6.77E-05?	5.93E-04?	2.55E-03?
					116.3?	3.43E-06?	1.48E-05?		
					117.3?	9.63E-07?	4.14E-06?		
3200	112.9X	7.53X	-1.582X	4.458X	118.6?	1.42E-06?	6.11E-06?	2.76E-04X	1.19E-03X
					115.6?	8.55E-07?	3.67E-06?		
					117.6?	6.00E-07?	2.58E-06?		
5000	111.1X	9.63X	-1.317X	4.390X	118.0?	9.32E-07?	4.01E-06?	9.21E-04X	3.96E-03X
					114.0?	8.60E-07?	3.70E-06?		
					112.0?	7.64E-07?	3.28E-06?		
7000	93.6X	10.24X	-.025X	1.810X	86.0X	6.26E-08X	2.69E-07X	1.08E-04X	4.63E-04X
					92.0X	4.09E-08X	1.76E-07X		
					104.0X	3.90E-08X	1.68E-07X		
12800	93.8X	1.83X	.117X	2.407X	94.0?	1.30E-07?	5.59E-07?	1.13E-04X	6.87E-04X
					93.0?	9.39E-08?	4.04E-07?		
					91.0?	8.67E-08?	3.73E-07?		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL SAMPLING 400M TO 12800M. ONE TOWER SAMPLING ONLY AT 3200M, 115.6 DEG.  
 NO ZINC SULFIDE OBSERVED ON 400M ARC. HEAVY DUST ON 12800M LEAVES UNCERTAINTIES IN ASSAY OF ZINC SULFIDE.  
 LARGE WIND DIRECTION SHEAR (BACKING) ABOVE 304 ELEVATION.

TEST U91 SEPTEMBER 24, 1969 0144 TO 0214 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
 SAMPLER HT 1.5M U= 4.1M/SEC AT 111M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	0.0	0.00	0.000	0.000	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.	0.
800	133.4	9.54	.211	2.145	129.5 127.7 131.4	9.11E-07 7.89E-07 7.10E-07	3.74E-06 3.23E-06 2.91E-06	1.91E-04	7.82E-04
1600	131.1X	8.47X	.282X	2.975X	130.6 134.4 129.7	2.05E-06 1.56E-06 1.52E-06	6.42E-06 6.40E-06 6.24E-06	7.63E-04X	3.13E-03X
3200	124.7X	8.80X	.753X	3.862X	122.4 120.5 119.5	1.05E-06 9.40E-07 9.13E-07	4.30E-06 3.85E-06 3.74E-06	8.80E-04X	3.61E-03X
5000	121.6X	8.13X	1.003X	4.019X	122.0 120.0 116.0	1.93E-07 1.69E-07 1.65E-07	7.93E-07 6.94E-07 6.77E-07	2.26E-04X	9.27E-04X
7000	121.5?	8.30?	.168?	4.305?	122.0 120.0 124.0	3.46E-07 2.64E-07 2.30E-07	1.42E-06 1.03E-06 9.42E-07	4.07E-04?	1.67E-03?
12800	117.4?	10.32?	.665?	4.233?	110.0? 121.0? 122.0?	3.07E-08? 2.94E-08? 2.83E-08?	1.26E-07? 1.21E-07? 1.16E-07?	8.56E-05?	3.51E-04?

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U90 SEPTEMBER 12, 1969 0223 TO 0227 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 SAMPLER HT 1.5M U= 4.3M/SEC AT 56M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	EFFICIENT		AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG	COEFFICIENT	KURT	DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	103.6X	11.82X	-.016X	1.592X	98.0?	1.17E-07?	5.04E-07?	1.56E-05X	6.69E-05X
					114.0?	1.12E-07?	4.83E-07?		
					90.0?	8.48E-08?	3.65E-07?		
800	111.7X	6.86X	-.045X	2.281X	106.9?	2.15E-07?	9.24E-07?	2.12E-05X	9.13E-05X
					114.5?	1.74E-07?	7.46E-07?		
					122.1?	1.07E-07?	4.62E-07?		
1600	115.2?	2.22?	-5.549?	36.116?	115.3?	1.58E-05?	6.77E-05?	5.93E-04?	2.55E-03?
					116.3?	3.43E-06?	1.48E-05?		
					117.3?	9.63E-07?	4.14E-06?		
3200	112.9X	7.53X	-1.582X	4.458X	118.6?	1.42E-06?	6.11E-06?	2.76E-04X	1.19E-03X
					115.6?	8.55E-07?	3.67E-06?		
					117.6?	6.00E-07?	2.58E-06?		
5000	111.1X	9.63X	-1.317X	4.390X	118.0?	9.32E-07?	4.01E-06?	9.21E-04X	3.96E-03X
					114.0?	8.60E-07?	3.70E-06?		
					112.0?	7.64E-07?	3.28E-06?		
7000	93.6X	10.24X	-.025X	1.810X	86.0X	6.26E-08X	2.69E-07X	1.08E-04X	4.63E-04X
					92.0X	4.09E-08X	1.76E-07X		
					104.0X	3.90E-08X	1.68E-07X		
12800	93.8X	1.83X	.117X	2.407X	94.0?	1.30E-07?	5.59E-07?	1.13E-04X	4.87E-04X
					93.0?	9.39E-08?	4.04E-07?		
					91.0?	8.67E-08?	3.73E-07?		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

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U90

GROUND LEVEL SAMPLING 400M TO 12800M. ONE TOWER SAMPLING ONLY AT 3200M, 115.6 DEG.  
 NO ZINC SULFIDE OBSERVED ON 400M ARC. HEAVY DUST ON 12800M LEAVES UNCERTAINTIES IN ASSAY OF ZINC SULFIDE.  
 LARGE WIND DIRECTION SHEAR (BACKING) ABOVE 304 ELEVATION.

TEST U91 SEPTEMBER 24, 1969 0144 TO 0214 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
 SAMPLER HT 1.5M U= 4.1M/SEC AT 111M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	0.0	0.00	0.000	0.000	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.	0.
800	133.4	9.54	.211	2.145	129.5 127.7 131.4	9.11E-07 7.89E-07 7.10E-07	3.74E-06 3.23E-06 2.91E-06	1.91E-04	7.82E-04
1600	131.1X	8.47X	.282X	2.975X	130.6 134.4 129.7	2.05E-06 1.56E-06 1.52E-06	6.42E-06 6.40E-06 6.24E-06	7.63E-04X	3.13E-03X
3200	124.7X	8.80X	.753X	3.862X	122.4 120.5 119.5	1.05E-06 9.40E-07 9.13E-07	4.30E-06 3.85E-06 3.74E-06	8.80E-04X	3.61E-03X
5000	121.6X	8.13X	1.003X	4.019X	122.0 120.0 116.0	1.93E-07 1.69E-07 1.65E-07	7.93E-07 6.94E-07 6.77E-07	2.26E-04X	9.27E-04X
7000	121.5?	6.30?	.168?	4.305?	122.0 120.0 124.0	3.46E-07 2.64E-07 2.30E-07	1.42E-06 1.08E-06 9.42E-07	4.07E-04?	1.67E-03?
12800	117.4?	10.32?	.665?	4.233?	110.0? 121.0? 122.0?	3.07E-08? 2.94E-08? 2.83E-08?	1.26E-07? 1.21E-07? 1.16E-07?	8.56E-05?	3.51E-04?

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U91 SEPTEMBER 24, 1969 0144 TO 0214 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 SAMPLER HT 1.5M U= 3.8M/SEC AT 56M

DISTANCE FRM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	129.3	6.94	-1.158	3.391	134.0	6.29E-07	2.39E-06	3.40E-05	1.29E-04
					130.0	2.01E-07	7.64E-07		
					126.0	1.44E-07	5.49E-07		
800	136.6	8.60	-.512	2.826	140.6	3.07E-06	1.17E-05	6.76E-04	2.57E-03
					142.4	2.63E-06	9.98E-06		
					136.9	2.25E-06	8.56E-06		
1600	137.7	8.90	.012	2.198	136.4	2.73E-06	1.04E-05	1.86E-03	7.05E-03
					131.5	2.65E-06	1.01E-05		
					138.3	2.56E-06	9.73E-06		
3200	133.6X	9.01X	.021X	2.147X	140.1	1.14E-06	4.33E-06	1.53E-03X	5.82E-03X
					139.1	1.12E-06	4.26E-06		
					125.4	1.10E-06	4.19E-06		
5000	131.7X	7.82X	.021X	2.398X	132.0	1.04E-06	3.93E-06	1.68E-03X	6.39E-03X
					128.0	9.53E-07	3.62E-06		
					134.0	9.20E-07	3.50E-06		
7000	128.4X	6.83X	.360X	2.286X	124.0	8.76E-07	3.33E-06	1.16E-03X	4.42E-03X
					126.0	7.12E-07	2.71E-06		
					122.0	5.63E-07	2.14E-06		
12800	120.0	10.45	.518	3.193	122.0	1.87E-07	7.12E-07	8.00E-04	3.04E-03
					119.0	1.82E-07	6.92E-07		
					118.0	1.66E-07	6.33E-07		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

B-87

U91

GROUND LEVEL SAMPLING 400M TO 12800M; WITH POSSIBLE EXCEPTION OF FLUORESCHEIN AT 12800M, ALL ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER. TRACER DISTRIBUTIONS EXTEND ABOVE TOP OF THE SINGLE SAMPLING TOWER. NO ZINC SULFIDE OBSERVED ON 400M, 800M OR 1600M ARCS.

TEST U92 SEPTEMBER 26, 1969 0048 TO 0118 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M  
SAMPLER HT 1.5M U = 5.4M/SEC AT 111M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	0.0	0.00	0.000	0.000	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.	0.
800	0.0	0.00	0.000	0.000	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.	0.
1600	0.0	0.00	0.000	0.000	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.	0.
3200	117.8	2.92	1.768	8.754	119.5 114.6 116.6	2.18E-07 1.28E-07 9.53E-08	1.18E-06 6.91E-07 5.15E-07	3.87E-05	2.09E-04
5000	119.0	3.24	-0.613	2.910	122.0 120.0 118.0	1.17E-07 6.58E-08 4.59E-08	6.34E-07 3.55E-07 2.48E-07	5.41E-05	2.92E-04
7000	118.9	2.19	-0.372	2.713	118.0 120.0 122.0	2.37E-07 2.34E-07 1.28E-07	1.28E-06 1.26E-06 6.93E-07	1.84E-04	9.94E-04
12800	113.2	3.48	.530	3.583	114.0 108.0 113.0	8.65E-09 7.60E-09 7.60E-09	4.67E-08 4.10E-08 4.10E-08	1.45E-05	7.85E-05

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U92 SEPTEMBER 26, 1969 0048 TO 0118 PST  
 FLUORESCIN RELEASE FROM ELEVATION OF 56M  
 SAMPLER HT 1.5M U= 4.7M/SEC AT 56M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
400	104.5	3.48	-.500	2.668	106.0	2.50E-08	1.17E-07	1.34E-06	6.29E-06
					102.0	1.07E-08	5.05E-08		
					98.0	6.34E-09	2.98E-08		
800	110.1	1.54	1.476	5.148	108.8	7.61E-09	3.57E-08	4.44E-07	2.09E-06
					110.7	7.38E-09	3.47E-08		
					114.5	1.19E-09	5.61E-09		
1600	104.0	4.29	-.402	2.904	102.6	1.34E-07	6.28E-07	3.67E-05	1.73E-04
					104.5	1.25E-07	5.87E-07		
					103.6	1.16E-07	5.46E-07		
3200	107.9	3.71	-1.089	4.369	110.7	7.88E-07	3.71E-06	3.20E-04	1.50E-03
					109.7	7.19E-07	3.38E-06		
					111.7	7.19E-07	3.38E-06		
5000	107.1	2.93	-.211	3.762	106.0	1.26E-06	5.91E-06	7.48E-04	3.51E-03
					110.0	1.14E-06	5.34E-06		
					108.0	8.52E-07	4.00E-06		
7000	110.4	3.81	-.645	3.998	110.0	9.01E-07	4.23E-06	7.86E-04	3.69E-03
					112.0	6.82E-07	3.20E-06		
					108.0	4.87E-07	2.29E-06		
12800	104.3?	7.36?	1.025?	4.310?	102.0	6.89E-08	3.24E-07	1.66E-04?	7.79E-04?
					99.0	6.50E-08	3.05E-07		
					100.0	6.50E-08	3.05E-07		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

B-89

U92

GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER DISTRIBUTIONS. ALTHOUGH TRACERS TRUNCATED AT TOPS OF TOWERS, EXTRAPOLATION IS DISTINCT POSSIBILITY ON THIS TEST. RELATIVELY SMALL AMOUNT OF RHODAMINE DISPERSED LEAVES CONSIDERABLE UNCERTAINTIES IN INDIVIDUAL EXPOSURE VALUES.

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
SAMPLER HT 1.5M U= 5.8M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
200	111.8	7.29	.561	3.618	112.0	7.06E-06	4.10E-05	3.46E-04	2.01E-03
					114.0	6.55E-06	3.80E-05		
					110.0	5.90E-06	3.42E-05		
400	113.9	7.76	-.090	2.800	114.0	2.32E-06	1.34E-05	2.60E-04	1.51E-03
					118.0	1.72E-06	9.96E-06		
					106.0	1.15E-06	6.67E-06		
800	114.6	6.91	-.175	2.349	118.3	1.60E-06	9.30E-06	4.06E-04	2.35E-03
					114.5	1.46E-06	8.50E-06		
					122.1	1.42E-06	8.24E-06		
1200	114.1	6.40	.104	2.685	116.0	8.16E-07	4.73E-06	2.40E-04	1.39E-03
					112.0	7.26E-07	4.21E-06		
					108.0	6.47E-07	3.75E-06		
1600	114.8	6.83	-.072	2.333	109.5	4.11E-07	2.38E-06	1.60E-04	9.26E-04
					116.3	4.02E-07	2.33E-06		
					117.3	3.39E-07	1.97E-06		
2200	116.1	6.82	-.037	2.207	110.0	1.36E-07	7.88E-07	6.69E-05	3.88E-04
					116.0	1.18E-07	6.82E-07		
					124.0	8.98E-08	5.21E-07		
3200	114.5	6.22	-.067	2.373	113.7	1.43E-07	8.32E-07	1.17E-04	6.77E-04
					109.7	1.30E-07	7.52E-07		
					117.6	1.24E-07	7.18E-07		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



TEST V1      OCTOBER 26, 1972      0930 TO 1030 PST  
 RHODAMINE B RELEASE FROM ELEVATION OF 26M  
 SAMPLER HT 1.5M      U= 5.8M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/C	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
200	110.5	6.69	.287	4.045	106.0	5.18E-06	3.00E-05	1.60E-04	9.30E-04
					110.0	2.72E-06	1.58E-05		
					112.0	2.51E-06	1.46E-05		
400	112.6	7.87	-.121	2.146	118.0	3.93E-06	2.28E-05	5.68E-04	3.29E-03
					114.0	3.62E-06	2.10E-05		
					106.0	3.21E-06	1.86E-05		
800	113.1	7.11	.039	2.087	114.5	1.15E-06	6.69E-06	2.79E-04	1.62E-03
					108.8	1.09E-06	6.29E-06		
					106.9	9.47E-07	5.49E-06		
1200	114.2	7.12	-.133	2.271	120.0	6.00E-07	3.48E-06	2.10E-04	1.22E-03
					118.0	5.65E-07	3.28E-06		
					114.0	4.96E-07	2.88E-06		
1600	114.7	8.46	-.160	2.074	122.1	3.52E-07	2.04E-06	1.24E-04	7.20E-04
					121.2	2.25E-07	1.30E-06		
					115.3	2.04E-07	1.19E-06		
2200	115.7	6.33	-.105	2.124	118.0	2.72E-07	1.58E-06	1.36E-04	7.67E-04
					116.0	2.00E-07	1.16E-06		
					120.0	1.70E-07	9.83E-07		
3200	118.5	7.14	-.275	2.349	111.7	6.16E-08	3.57E-07	4.12E-05	2.39E-04
					119.5	5.55E-08	3.22E-07		
					122.4	5.24E-08	3.04E-07		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. FOLLOWING SOME EXTRAPOLATION AT SOUTH EDGE, ALL ARCS EMBRACE THE CROSSWIND EXTENT OF TRACER DISTRIBUTIONS. 13 OF 20 TOWERS "HIT" BY TRACERS; ALL VERTICAL DISTRIBUTIONS TRUNCATED AT TOP. ALTHO NO RAIN DURING TRACER RELEASE, PRIOR RAIN LEFT FILTERS WET; EFFECT, IF ANY, UNKNOWN.

TEST V2 NOVEMBER 9, 1972 1030 TU 1100 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
SAMPLER HT 1.5M U= 4.4M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
200	135.2	11.43	-.229	2.150	144.0	2.21E-05	9.71E-05	1.21E-03	5.31E-03
					132.0	1.28E-05	5.61E-05		
					130.0	1.17E-05	5.13E-05		
400	136.0	10.89	-.180	2.016	146.0	1.79E-05	7.86E-05	3.25E-03	1.43E-02
					142.0	1.76E-05	7.73E-05		
					130.0	1.47E-05	6.45E-05		
800	137.6	10.19	-.367	2.026	144.2	1.00E-05	4.42E-05	2.81E-03	1.24E-02
					147.8	8.05E-06	3.54E-05		
					146.0	7.28E-06	3.20E-05		
1200	136.7	9.51	-.106	2.080	144.0	4.19E-06	1.85E-05	1.77E-03	7.81E-03
					138.0	3.45E-06	1.52E-05		
					126.0	3.24E-06	1.43E-05		
1600	138.6	9.05	-.168	2.159	144.1	1.96E-06	8.61E-06	1.28E-03	5.62E-03
					146.0	1.96E-06	8.60E-06		
					147.9	1.89E-06	8.31E-06		
2200	139.0	8.75	-.181	2.127	138.0	1.28E-06	5.64E-06	1.08E-03	4.75E-03
					128.0	1.27E-06	5.60E-06		
					140.0	1.26E-06	5.53E-06		
3200	140.1	8.94	-.244	1.816	148.9	1.22E-06	5.35E-06	9.82E-04	4.32E-03
					147.9	1.07E-06	4.70E-06		
					146.9	9.26E-07	4.07E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST  
 RHODAMINE B RELEASE FROM ELEVATION OF 26M  
 SAMPLER HT 1.5M U= 4.4M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/C	EU/Q	SEC/SQ.M	1/M
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
200	130.1	10.67	.134	1.947	122.0	5.64E-06	2.48E-05	4.01E-04	1.77E-03
					126.0	5.64E-06	2.48E-05		
					144.0	3.69E-06	1.62E-05		
400	134.4	10.75	-.058	1.853	146.0	1.22E-05	5.38E-05	2.24E-03	9.84E-03
					130.0	1.13E-05	4.99E-05		
					142.0	8.98E-06	3.95E-05		
800	135.2	10.18	-.038	1.842	144.2	1.01E-05	4.43E-05	2.92E-03	1.28E-02
					146.0	7.63E-06	3.36E-05		
					124.0	7.28E-06	3.20E-05		
1200	136.6	9.77	-.076	1.901	128.0	3.87E-06	1.70E-05	1.76E-03	7.75E-03
					148.0	3.69E-06	1.62E-05		
					130.0	3.43E-06	1.51E-05		
1600	138.3	9.09	-.279	2.073	143.1	2.50E-06	1.10E-05	1.37E-03	6.03E-03
					144.1	2.50E-06	1.10E-05		
					146.9	2.06E-06	9.05E-06		
2200	138.5	8.45	-.140	2.125	142.0	1.76E-06	7.73E-06	1.20E-03	5.30E-03
					138.0	1.44E-06	6.36E-06		
					140.0	1.30E-06	5.74E-06		
3200	140.1	8.41	-.347	1.872	148.9	1.10E-06	4.85E-06	9.01E-04	3.96E-03
					147.9	1.09E-06	4.78E-06		
					146.0	8.83E-07	3.89E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

B-93

V2

KR-85 SAMPLING AT 200, 800 AND 1600M; TOWER SAMPLING AT 200 AND 800M. ALL CROSSWIND DISTRIBUTIONS TRUNCATED ON SOUTH. SIX OF TEN TOWERS "HIT", BUT DISTRIBUTIONS TRUNCATED AT TGP; MAY HAVE BEEN TRACER ON TOWER AT 800M, 112.6 DEG. BUT VERY NEAR BACKGROUND. LOW VOLTAGES ON MANY 800M SENSORS MAY HAVE LEAD TO UNDERESTIMATES OF X/Q.

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 26M  
 SAMPLER HT 1.5M U= 4.4M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
200	131.3X	10.72X	-.123X	1.944X	128.0?	5.80E-06?	2.55E-05?	5.27E-04X	2.32E-03X
					144.0?	5.15E-06?	2.26E-05?		
					122.0?	5.11E-06?	2.25E-05?		
800X	128.4X	6.86X	-.058X	1.650X	125.8X	1.98E-06X	8.72E-06X	3.53E-04X	1.55E-03X
					122.1X	1.69E-06X	7.42E-06X		
					133.2X	1.67E-06X	7.34E-06X		
1600X	122.1X	3.09X	-1.181X	3.553X	125.0X	2.22E-06X	9.76E-06X	2.02E-04X	8.90E-04X
					123.1X	1.23E-06X	5.42E-06X		
					121.2X	9.29E-07X	4.09E-06X		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. MUST ARCS TRUNCATED ON SOUTH END, BUT CENTERLINE ALWAYS OBSERVED. MOST VERTICAL DISTRIBUTIONS TRUNCATED AT TIPS OF TOWERS.

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 SAMPLER HT 1.5M U= 4.2M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
200	140.3X	9.24X	-.284X	2.670X	142.0	3.56E-05	1.50E-04	2.44E-03X	1.02E-02X
					144.0	3.46E-05	1.45E-04		
					140.0	3.42E-05	1.44E-04		
400	140.7X	6.96X	-.293X	2.752X	138.0	2.37E-05	9.95E-05	2.48E-03X	1.04E-02X
					146.0	1.85E-05	7.75E-05		
					142.0	1.57E-05	6.61E-05		
800	143.0?	7.37?	.143?	2.394?	136.8	5.78E-06	2.43E-05	1.42E-03?	5.95E-03?
					147.8	4.89E-06	2.05E-05		
					144.2	4.72E-06	1.98E-05		
1200	142.0X	6.71X	.462X	2.417X	136.0	1.50E-06	6.32E-06	4.27E-04X	1.79E-03X
					138.0	1.48E-06	6.23E-06		
					142.0	1.18E-06	4.94E-06		
1600	142.1X	6.07X	.179X	2.377X	138.3	1.11E-06	4.68E-06	5.03E-04X	2.11E-03X
					144.1	1.08E-06	4.52E-06		
					140.2	1.06E-06	4.44E-06		
2200	143.4X	6.24X	.358X	2.508X	140.0	3.66E-07	1.54E-06	2.04E-04X	8.58E-04X
					138.0	3.39E-07	1.42E-06		
					142.0	3.18E-07	1.34E-06		
3200	142.7	5.28	-.174	2.383	143.0	2.15E-07	9.05E-07	1.53E-04	6.41E-04
					139.1	1.87E-07	7.85E-07		
					144.0	1.81E-07	7.62E-07		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST  
 RHODAMINE B RELEASE FROM ELEVATION OF 26M  
 SAMPLER HT 1.5M U= 4.2M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENTS		AZIMUTH	E/C	EU/W	CI(E/W)	CI(EU/W)
METERS	DEG	DEG	SKEW	KURT	DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
200	140.1X	9.87X	-.384X	2.500X	146.0	1.46E-05	6.12E-05	9.86E-04X	4.14E-03X
					140.0	1.39E-05	5.62E-05		
					138.4	1.21E-05	5.07E-05		
400	140.9X	6.96X	-.365X	2.765X	142.0	1.96E-05	6.25E-05	2.45E-03X	1.03E-02X
					146.0	1.93E-05	6.12E-05		
					138.0	1.68E-05	7.07E-05		
800	143.8?	7.18?	.001?	2.564?	146.0	4.20E-06	1.76E-05	1.08E-03?	4.54E-03?
					144.2	4.10E-06	1.72E-05		
					147.8	4.10E-06	1.72E-05		
1200	143.4X	6.31X	.153X	2.437X	144.0	2.77E-06	1.17E-05	8.11E-04X	3.41E-03X
					146.0	2.08E-06	8.73E-06		
					140.0	2.02E-06	8.49E-06		
1600	142.7X	5.82X	.120X	2.372X	144.1	1.06E-06	4.44E-06	4.56E-04X	1.91E-03X
					146.9	1.06E-06	4.44E-06		
					141.2	9.20E-07	3.86E-06		
2200	143.5X	5.57X	.312X	2.617X	142.0	6.22E-07	2.61E-06	3.16E-04X	1.33E-03X
					144.0	5.70E-07	2.39E-06		
					140.0	5.60E-07	2.35E-06		
3200	143.0	4.58	-.182	2.465	143.0	2.19E-07	9.19E-07	1.45E-04	6.10E-04
					144.0	2.16E-07	9.06E-07		
					146.0	1.91E-07	8.03E-07		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

B-97

GROUND LEVEL AND TOWER SAMPLING 200M TO 1600M - WITH ADDITIONAL TWO TOWERS SAMPLING AT 3200M.  
 ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER. TOWER SAMPLES TRUNCATED AT TOP. ABOUT 9 CM SNOW DEPTH ON  
 GROUND DURING EXPERIMENT. THERMALLY STABLE IN LOWEST 6M, BUT NEUTRAL ABOVE.

TEST V4 DECEMBER 12, 1972 1049 TO 1120 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 SAMPLER HT 1.5M U= 2.6M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
200	132.7	5.14	2.042	8.701	130.0	6.90E-06	1.79E-05	1.12E-04	2.91E-04
					134.0	3.00E-06	7.80E-06		
					132.0	1.70E-06	4.41E-06		
800	137.1	7.62	.057	1.869	138.7	1.94E-05	5.05E-05	3.64E-03	9.46E-03
					129.5	1.22E-05	3.16E-05		
					127.7	1.20E-05	3.13E-05		
1600	136.7	6.64	-.536	2.935	138.3	1.19E-05	3.10E-05	3.21E-03	8.34E-03
					137.3	1.07E-05	2.79E-05		
					140.2	8.28E-06	2.15E-05		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



TEST V4 DECEMBER 12, 1972 1049 TO 1118 PST  
 RHODAMINE B RELEASE FROM ELEVATION OF 26M  
 SAMPLER HT 1.5M U = 2.6M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/C	E/U <sup>2</sup>	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
200	132.9X	5.96X	1.283X	6.652X	134.0?	1.29E-05?	3.36E-05?	2.00E-04X	5.19E-04X
					130.0?	9.67E-06?	2.51E-05?		
					150.0?	2.17E-06?	5.64E-06?		
800	137.1	7.21	.050	2.007	138.7	2.62E-05	6.62E-05	4.61E-03	1.20E-02
					129.5	1.63E-05	4.38E-05		
					140.6	1.53E-05	3.97E-05		
1600	136.9	6.75	-.284	2.347	138.3	1.32E-05	3.42E-05	3.65E-03	9.49E-03
					137.3	1.13E-05	2.95E-05		
					140.2	9.27E-06	2.41E-05		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. ALL ARCS EMBRACE CROSSWIND EXTENT OF DISTRIBUTION.  
 14 TOWERS "HIT" BY TRACER; ALTHOUGH DISTRIBUTIONS TRUNCATED AT TOPS OF TOWERS, EXTRAPOLATION WOULD BE  
 REASONABLE. VERTICAL CROSS SECTIONS THROUGH TOWER ARCS SHOWS SIGNIFICANT DIRECTION SHEAR OF TRACERS WITH HT.

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 SAMPLER HT 1.5M U= 4.3M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	Coefficient SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
200	102.5	6.67	-.057	2.666	104.0	2.03E-06	8.71E-06	9.72E-05	4.18E-04
					106.0	1.91E-06	8.21E-06		
					96.0	1.43E-06	6.14E-06		
400	101.6	6.54	-.081	2.554	98.0	4.72E-06	2.03E-05	3.86E-04	1.66E-03
					110.0	2.68E-06	1.15E-05		
					102.0	2.27E-06	9.74E-06		
800	101.5	6.03	-.532	2.851	103.0	9.49E-06	4.08E-05	1.84E-03	7.93E-03
					105.0	8.58E-06	3.69E-05		
					106.9	8.04E-06	3.46E-05		
1200	100.7	5.92	-.012	2.710	102.0	6.77E-06	2.91E-05	1.67E-03	7.16E-03
					100.0	5.24E-06	2.25E-05		
					98.0	4.81E-06	2.07E-05		
1600	102.3	5.93	-.029	2.466	101.6	4.28E-06	1.84E-05	1.40E-03	6.00E-03
					99.6	4.11E-06	1.77E-05		
					104.5	3.57E-06	1.54E-05		
3200	109.8	4.49	-.508	2.963	108.8	3.42E-06	1.47E-05	1.85E-03	7.96E-03
					109.7	3.33E-06	1.43E-05		
					111.7	3.06E-06	1.31E-05		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST  
 RHODAMINE B RELEASE FROM ELEVATION OF 26M  
 SAMPLER HT 1.5M U= 4.3M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT		AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG	SKEW	KURT	DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
200	101.8	6.78	.370	2.908	100.0	1.26E-06	5.42E-06	5.35E-05	2.30E-04
					98.0	9.54E-07	4.10E-06		
					102.0	8.09E-07	3.48E-06		
400	98.9	6.65	.018	2.536	98.0	3.93E-06	1.69E-05	4.92E-04	2.12E-03
					102.0	3.40E-06	1.46E-05		
					94.0	3.19E-06	1.37E-05		
800	100.0	6.57	-.282	2.360	103.0	6.19E-06	2.66E-05	1.58E-03	6.78E-03
					101.1	6.02E-06	2.59E-05		
					105.0	6.02E-06	2.59E-05		
1200	99.7	6.23	-.067	2.671	102.0	4.01E-06	1.72E-05	1.25E-03	5.36E-03
					100.0	3.91E-06	1.68E-05		
					98.0	3.22E-06	1.39E-05		
1600	101.5	6.24	-.083	2.356	102.6	3.97E-06	1.71E-05	1.66E-03	7.16E-03
					103.6	3.85E-06	1.66E-05		
					101.6	3.51E-06	1.51E-05		
3200	108.0	5.15	-.195	2.299	106.8	1.59E-06	6.82E-06	1.15E-03	4.94E-03
					111.7	1.59E-06	6.82E-06		
					105.8	1.53E-06	6.60E-06		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

B-101

KRYPTON-85 SAMPLING AT 200M, 800M AND 1600M ONLY; TOWER SAMPLING ONLY AT 200M AND 800M. ALL THREE "GROUND-LEVEL" ARCS TRUNCATED ON NORTH. ALTHOUGH 6 OF 10 OPERATING TOWERS "HIT" BY KRYPTON, TRACER DISTRIBUTIONS ARE TRUNCATED AT TOPS.

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 26M  
 SAMPLER HT 1.5M U= 4.3M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT		AZIMUTH	E/Q	EU/Q	C1(E/Q)	C1(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
200	104.2X	5.88X	-.326X	2.307X	104.0	2.73E-06	1.17E-05	8.99E-05X	3.87E-04X
					108.0	2.02E-06	8.67E-06		
					98.0	1.87E-06	8.02E-06		
900	106.7X	3.86X	1.179X	5.054X	106.9X	1.04E-05?	4.45E-05?	1.22E-03X	5.24E-03X
					105.0?	8.67E-06?	3.73E-05?		
					103.0?	8.64E-06?	3.71E-05?		
1600	112.9X	2.42X	.929X	3.199X	110.4X	1.84E-06X	7.93E-06X	2.03E-04X	8.74E-04X
					111.4X	1.30E-06X	5.60E-06X		
					113.4X	1.19E-06X	5.10E-06X		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. ALL ARCS EMBRACE CROSSWIND DISTRIBUTION OF TRACER.  
TOWERS TRUNCATE TOP OF VERTICAL DISTRIBUTION, BUT EXTRAPOLATION WOULD NOT BE UNREASONABLE.

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
SAMPLER HT 1.5M U= 6.4M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	Coefficient SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
200	117.8	4.29	.249	2.316	114.0	6.50E-06	4.16E-05	2.60E-04	1.67E-03
					116.0	6.37E-06	4.07E-05		
					118.0	5.57E-06	3.57E-05		
400	118.5	4.65	.165	2.753	114.0	5.48E-06	3.51E-05	4.19E-04	2.68E-03
					122.0	4.49E-06	2.87E-05		
					118.0	2.70E-06	1.73E-05		
800	119.1	3.90	.215	2.104	116.4	1.53E-05	9.80E-05	2.31E-03	1.48E-02
					118.3	1.50E-05	9.62E-05		
					114.5	1.20E-05	7.70E-05		
1200	118.8	3.45	.292	2.204	118.0	1.24E-05	7.93E-05	2.27E-03	1.45E-02
					116.0	1.21E-05	7.72E-05		
					122.0	7.62E-06	4.88E-05		
1600	119.1	3.27	.223	2.100	117.3	1.12E-05	7.16E-05	2.39E-03	1.53E-02
					118.2	9.34E-06	5.98E-05		
					115.3	8.79E-06	5.63E-05		
3200	118.8	2.70	.036	2.185	118.6	4.19E-06	2.68E-05	1.88E-03	1.20E-02
					116.6	3.95E-06	2.53E-05		
					120.5	3.89E-06	2.49E-05		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST  
 RHODAMINE B RELEASE FROM ELEVATION OF 26M  
 SAMPLER HT 1.5M U= 6.4M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	EFFICIENT		AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG	SKEW	KURT	DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
200	120.0	4.32	-.096	2.278	122.0	6.31E-07	4.04E-06	2.37E-05	1.52E-04
					124.0	5.41E-07	3.46E-06		
					116.0	5.27E-07	3.37E-06		
800	119.3	3.83	.142	2.094	118.3	9.89E-06	6.33E-05	1.23E-03	7.89E-03
					114.5	9.67E-06	6.19E-05		
					120.2	6.41E-06	4.10E-05		
1200	119.8	4.07	-.404	1.918	114.0	6.92E-06	4.43E-05	1.35E-03	8.62E-03
					120.0	6.81E-06	4.36E-05		
					122.0	6.81E-06	4.36E-05		
1600	118.8	3.32	.365	2.117	116.3	9.14E-06	5.85E-05	2.08E-03	1.33E-02
					117.3	8.85E-06	5.66E-05		
					115.3	8.42E-06	5.39E-05		
3200	118.2	2.62	.254	2.295	116.6	4.98E-06	3.19E-05	2.03E-03	1.30E-02
					117.6	4.72E-06	3.02E-05		
					115.6	4.59E-06	2.94E-05		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

B-105

KRYPTON-85 SAMPLING AT 200M, 800M AND 1600M ONLY; TOWER SAMPLING AT 200M AND 800M ONLY. BOTH 200M AND 800M "GROUND-LEVEL" ARCS EMBRACE CROSSWIND EXTENT OF TRACER (AS DOES 1600M ARC AFTER MODEST EXTRAPOLATION). THREE MIDDLE TOWERS AT BOTH 200M AND 800M INTERCEPT TRACER; PEAK CONCENTRATION SAMPLED, BUT TRUNCATION AT TOP.

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 26M  
 SAMPLER HT 1.5M U= 6.4M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	EFFICIENT		AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG	SKEW	KURT	DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
200	117.3	5.74	-.000	2.516	116.0	2.29E-06	1.47E-05	1.22E-04	7.80E-04
					114.0	2.26E-06	1.45E-05		
					122.0	2.24E-06	1.43E-05		
800	119.1	4.21	.150	2.608	118.3	1.15E-05	7.38E-05	1.91E-03	1.22E-02
					116.4?	1.05E-05?	6.73E-05?		
					120.2	9.97E-06	6.38E-05		
1600	119.3?	3.44?	.229?	2.278?	117.3	1.00E-05	6.41E-05	2.41E-03?	1.54E-02?
					116.3	9.31E-06	5.96E-05		
					118.2	8.94E-06	5.72E-05		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.





GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. AFTER MODEST EXTRAPOLATION OF ZNS TO SOUTH, ALL ARCS EMBRACE THE CROSSWIND EXTENT OF THIS TRACER. EIGHTEEN OF TWENTY TOWERS "HIT" IN THIS TEST DURING UNSTABLE CONDITIONS, BUT ALL DISTRIBUTIONS TRUNCATED AT TOPS OF TOWERS. MOST UNSTABLE CONDITIONS OF THIS FIELD SERIES.

TEST V7 SEPTEMBER 25, 1973 1201 TO 1231 PST  
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
SAMPLER HT 1.5M U= 4.2M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
200	137.3	15.38?	-.280?	2.376?	138.0	1.95E-05	8.18E-05	1.71E-03?	7.19E-03?
					136.0	1.60E-05	6.70E-05		
					134.0	1.47E-05	6.17E-05		
400	137.8	14.91?	-.492?	2.459?	146.0	5.09E-06	2.14E-05	8.53E-04?	3.58E-03?
					138.0	3.68E-06	1.55E-05		
					154.0	2.76E-06	1.16E-05		
800	135.0	15.03	-.391	2.010	149.6	1.03E-06	4.31E-06	4.14E-04	1.74E-03
					144.2	8.91E-07	3.74E-06		
					118.3	8.70E-07	3.65E-06		
1200	135.2	14.32?	-.342	1.994	152.0	2.98E-07	1.25E-06	1.31E-04	5.51E-04
					140.0	2.65E-07	1.11E-06		
					154.0	2.10E-07	8.82E-07		
1600	133.5	13.68	-.338	1.877	143.1	1.58E-07	6.62E-07	8.53E-05	3.58E-04
					145.1	1.37E-07	5.74E-07		
					141.2	1.35E-07	5.66E-07		
3200	125.0	7.66	.009	2.559	120.5	2.12E-08	8.92E-08	1.77E-05	7.42E-05
					130.3	2.07E-08	8.71E-08		
					129.3	2.06E-08	8.65E-08		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

ALTHOUGH SAMPLING AT 200, 800 AND 1600M, DIFFUSION WAS SO GREAT THAT KRYPTON DETECTED WITH CONFIDENCE ONLY AT 200M. ALL 5 TOWERS AT 200M HIT BY TRACER BUT TRUNCATED BADLY AT TOP IN ALL CASES. GROUND LEVEL SAMPLING ALSO TRUNCATED AT SOUTH. ESTIMATE AT 122 DEG BASED ON SIMILARITY BETWEEN ZNS AND KRYPTON CROSSWIND DISTRIBUTIONS.

TEST V7 SEPTEMBER 25, 1973 1201 TO 1231 PST  
 KRYPTON-85 RELEASE FROM ELEVATION OF 26M  
 SAMPLER HT 1.5M U= 4.2M/SEC AT 26M

DISTANCE FRM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/G	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
200	132.0X	11.86X	-.704X	2.472X	138.0	2.04E-05	8.55E-05	1.36E-03X	5.71E-03X
					136.0	1.95E-05	8.20E-05		
					142.0	1.82E-05	7.64E-05		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

B-109

V7

GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. ONLY ZINC SULFIDE TRACER RELEASED. ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER DISTRIBUTION. ABOUT HALF OF TWENTY TOWERS EXPOSED TO TRACER, BUT ALL VERTICAL DISTRIBUTIONS TRUNCATED AT TOPS OF TOWERS. TOTAL "Q" KNOWN, BUT RATE OF TRACER EMISSION WAS LIKELY NOT CONSTANT.

TEST V8 NOVEMBER 28, 1973 1132 TO 1142 PST  
 ZINC SULFIDE RELEASE FROM ELEVATION OF 26M  
 SAMPLER HT 1.5M U= 3.0M/SEC AT 26M

DISTANCE FROM SOURCE	CROSSWIND DISTRIBUTION				THREE MAXIMUM EXPOSURES			CROSSWIND INTEGRATED VALUES	
	MEAN	STAND DEV	COEFFICIENT SKEW	KURT	AZIMUTH	E/Q	EU/Q	CI(E/Q)	CI(EU/Q)
METERS	DEG	DEG			DEG	SEC/CU.M	1/SQ.M	SEC/SQ.M	1/M
200	131.6	3.96	.048	2.955	130.0	9.88E-05	2.97E-04	2.98E-03	8.93E-03
					128.0	6.70E-05	2.01E-04		
					132.0	6.67E-05	2.00E-04		
400	131.7	4.25	.158	2.474	130.0	5.08E-05	1.52E-04	3.32E-03	9.95E-03
					138.0	2.36E-05	7.08E-05		
					134.0	2.28E-05	6.83E-05		
800	132.6	4.28	.078	2.240	131.4	2.63E-05	7.88E-05	3.94E-03	1.18E-02
					129.5	2.20E-05	6.61E-05		
					135.0	2.18E-05	6.55E-05		
1200	134.5	3.61	-.638	4.626	134.0	5.14E-05	1.54E-04	5.10E-03	1.53E-02
					136.0	1.95E-05	5.85E-05		
					138.0	1.64E-05	4.93E-05		
1600	134.4	3.71	-.206	2.374	133.5	1.99E-05	5.97E-05	4.61E-03	1.38E-02
					134.4	1.92E-05	5.75E-05		
					137.3	1.75E-05	5.24E-05		
3200	137.3	2.97	-.238	2.835	137.1	8.52E-06	2.56E-05	3.24E-03	9.73E-03
					138.1	8.38E-06	2.51E-05		
					139.1	7.02E-06	2.11E-05		

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

APPENDIX C

METEOROLOGICAL DATA

Missing data in Appendix C are indicated by 999.

TABLE C-1. TEMPERATURE (DEG F) FOR PERIOD OF TRACER RELEASE.

TFST	ELEVATION									METERS FEET
	0.91 3	6.1 20	15.2 50	30.5 100	45.7 150	61.0 200	76.2 250	91.4 300	122 400	
U1	59.2	999	60.7	60.9	61.0	61.4	62.0	62.8	64.4	
U2	64.8	999	69.9	71.2	71.5	71.9	72.5	73.3	74.5	
U3	71.3	999	72.9	73.2	73.4	73.5	73.6	73.9	75.1	
U4	62.7	999	63.7	64.0	64.3	64.3	64.2	64.2	64.8	
U1	63.8	999	68.7	70.7	73.9	75.6	75.8	76.0	76.1	
U2	52.7	999	52.7	52.1	51.7	51.5	51.4	51.5	52.9	
U3	60.2	999	58.0	57.0	56.2	55.6	55.2	55.2	55.3	
U4	56.2	999	52.8	51.6	50.9	50.5	50.2	50.2	50.2	
U5	42.2	999	43.1	43.2	999	999	999	999	999	
U56	60.2	999	61.4	62.3	63.4	63.7	63.8	63.9	64.0	
U57	62.3	999	67.5	68.2	68.3	68.2	68.1	68.1	68.4	
U58	61.5	999	62.8	63.2	63.5	63.4	63.2	63.1	63.2	
U59	52.7	999	54.0	54.0	54.1	54.1	54.1	54.1	54.1	
U60	53.5	999	57.0	57.6	58.2	58.5	58.8	59.1	59.9	
U61	65.9	999	66.3	66.3	66.3	66.3	66.3	66.3	66.4	
U62	60.5	999	60.4	60.1	60.0	59.9	59.8	59.7	59.5	
U63	65.4	999	66.4	66.6	66.8	67.0	67.4	68.2	70.3	
U64	62.8	999	68.4	70.5	72.8	73.9	74.3	74.6	74.8	
U65	61.5	999	62.0	62.0	62.1	62.1	62.1	62.0	61.9	
U66	49.7	999	50.8	52.3	52.5	52.5	52.5	52.4	52.3	
U67	59.0	999	59.2	59.2	59.4	59.6	59.6	59.6	59.3	
U68	57.3	999	58.4	58.7	58.8	58.9	59.0	59.0	59.1	
U69	65.0	999	65.7	65.6	65.7	65.8	65.9	66.1	66.8	
U70	70.2	999	70.4	70.3	70.4	70.4	70.4	70.4	70.5	
U71	61.3	999	62.6	62.6	62.8	62.9	62.9	63.0	63.0	
U72	65.8	999	67.5	67.9	68.3	68.6	69.0	70.3	72.4	
U73	68.5	999	69.3	69.4	69.8	70.0	70.0	70.2	70.4	
U74	61.7	999	63.6	64.0	64.4	64.9	65.5	66.2	67.2	
U75	56.4	999	61.5	61.8	64.5	65.4	65.9	66.4	67.6	
U76	56.7	999	57.2	57.5	57.9	58.0	58.1	58.2	58.5	
U77	61.8	999	62.1	62.1	62.2	62.1	62.0	62.0	62.4	
U78	54.3	999	53.9	53.8	53.7	53.6	53.4	53.1	53.7	
U79	49.3	999	51.0	51.8	52.4	53.1	53.3	53.3	53.5	
U80	57.4	999	63.0	64.1	65.5	66.4	67.0	67.6	68.6	
U81	62.4	999	63.3	63.7	64.2	64.6	64.8	64.9	65.4	
U82	48.3	999	53.0	54.6	55.7	56.1	56.0	55.8	56.1	
U83	46.0	999	50.6	52.1	54.1	55.8	56.5	56.6	57.0	
U84	56.3	999	57.8	58.5	58.8	59.0	59.0	59.0	58.9	
U85	59.4	999	58.5	59.0	59.5	59.8	60.1	60.4	61.1	
U86	53.6	999	57.2	59.0	59.4	59.5	59.5	59.5	59.2	
U87	67.6	999	72.2	73.0	73.5	73.9	74.4	75.0	75.9	
U88	70.3	999	71.4	72.3	74.3	75.6	75.9	76.0	76.1	
U89	74.5	999	79.6	80.4	80.6	80.6	80.4	80.3	80.2	
U90	70.7	999	77.1	77.3	77.5	77.6	77.4	77.4	77.4	
U91	54.1	999	55.8	56.9	57.1	57.0	56.7	56.6	56.5	
U92	52.4	999	56.8	57.2	57.6	57.9	57.9	58.2	59.1	
V1	55.5	53.8	52.5	52.1	51.4	50.9	50.8	50.8	50.3	
V2	42.7	42.6	42.2	41.7	41.4	41.2	41.0	40.8	40.0	
V3	49.9	49.2	48.5	47.8	47.4	47.1	46.9	46.7	46.3	
V4	18.5	19.2	19.0	18.3	18.0	17.8	17.6	17.4	17.1	
V5	67.1	70.0	71.1	72.0	73.0	74.4	75.9	76.2	76.4	
V6	61.4	62.2	62.6	63.1	63.9	64.7	65.0	65.0	65.1	
V7	70.1	68.2	66.9	66.0	65.4	64.9	64.6	64.4	64.0	
V8	41.4	41.6	40.6	40.5	40.2	39.9	39.6	39.4	39.0	

FIGURE C-1. Vertical profiles of temperature. Letters designate height and type of tracer release.

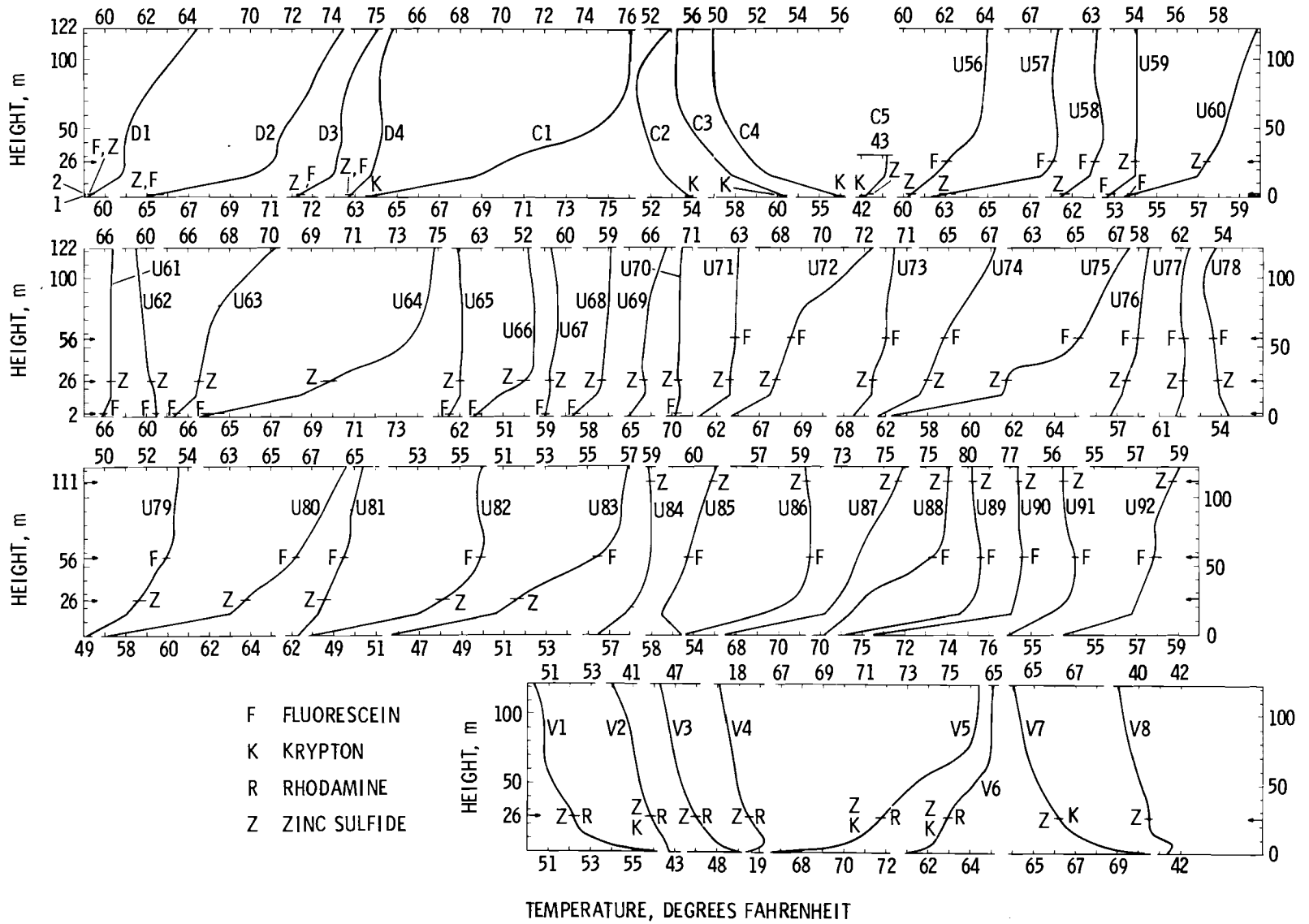
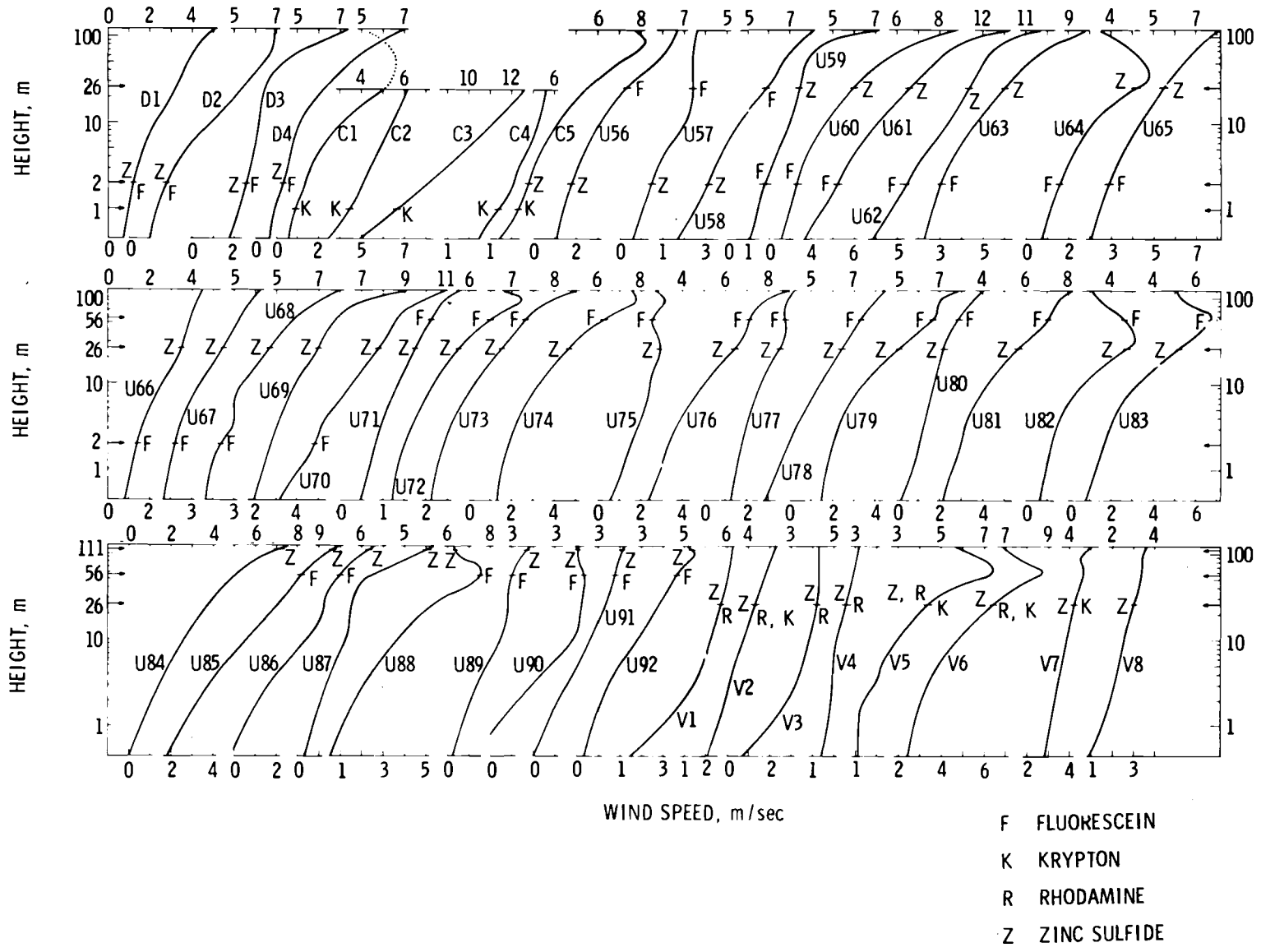




TABLE C-2. WIND SPEED (M/SEC) FOR PERIOD OF TRACER RELEASE.

	ELEVATION											
	PRIMARILY BEW CUPS						PRIMARILY AEROVANES					
	.76	1.5	3.0	6.1	12.2	24.4	15.2	30.5	61.0	91.4	122	METERS
TEST	2.5	5	10	20	40	80	50	100	200	300	400	FEET
<del>U1</del>	<del>0.9</del>	<del>1.1</del>	<del>1.4</del>	<del>1.8</del>	<del>2.5</del>	<del>3.2</del>	<del>2.7</del>	<del>3.4</del>	<del>3.9</del>	<del>4.5</del>	<del>5.1</del>	
U2	1.2	1.6	2.2	3.0	4.3	5.3	4.6	5.6	6.6	6.9	6.5	
U3	2.0	2.4	2.8	3.0	3.2	3.5	3.3	3.6	4.7	6.0	7.3	
<del>U4</del>	<del>0.9</del>	<del>1.2</del>	<del>1.5</del>	<del>1.8</del>	<del>2.3</del>	<del>3.2</del>	<del>2.5</del>	<del>3.5</del>	<del>4.8</del>	<del>5.9</del>	<del>7.0</del>	
U5	0.8	1.2	1.6	2.3	3.5	5.0	4.0	5.5	5.8	5.2	4.2	
U6	3.1	3.9	4.4	5.0	5.6	6.1	5.8	6.3	999	999	999	
<del>U7</del>	<del>6.0</del>	<del>7.6</del>	<del>8.9</del>	<del>10.2</del>	<del>11.5</del>	<del>12.6</del>	<del>12.0</del>	<del>13.0</del>	<del>999</del>	<del>999</del>	<del>999</del>	
U8	2.0	3.8	4.4	4.9	5.3	5.6	5.5	5.7	999	999	999	
U9	2.1	2.6	3.0	3.6	4.4	5.4	4.7	5.9	7.5	8.2	7.7	
<del>U56</del>	<del>1.3</del>	<del>1.6</del>	<del>2.0</del>	<del>2.6</del>	<del>3.3</del>	<del>4.2</del>	<del>3.6</del>	<del>4.6</del>	<del>6.0</del>	<del>6.4</del>	<del>6.7</del>	
U57	0.9	1.3	1.7	2.4	3.2	3.4	3.3	3.4	3.4	3.5	3.6	
U58	2.7	2.9	3.4	4.0	4.8	5.8	5.1	6.1	6.9	7.6	8.2	
<del>U59</del>	<del>1.4</del>	<del>1.8</del>	<del>2.1</del>	<del>2.6</del>	<del>3.1</del>	<del>3.4</del>	<del>3.2</del>	<del>3.5</del>	<del>3.9</del>	<del>5.0</del>	<del>7.1</del>	
U60	0.8	1.2	1.5	2.1	2.8	3.8	3.1	4.2	5.7	7.1	8.8	
U61	4.2	5.0	5.5	6.4	7.4	8.5	7.7	8.8	10.1	11.5	13.3	
<del>U62</del>	<del>4.4</del>	<del>5.2</del>	<del>5.8</del>	<del>6.8</del>	<del>7.6</del>	<del>8.3</del>	<del>7.8</del>	<del>8.5</del>	<del>9.2</del>	<del>10.1</del>	<del>11.7</del>	
U63	2.5	2.9	3.3	4.0	4.8	5.9	5.1	6.2	7.5	8.7	9.8	
U64	1.0	1.4	1.8	2.5	3.4	5.0	4.0	5.7	5.3	4.5	3.4	
<del>U65</del>	<del>2.3</del>	<del>2.7</del>	<del>3.2</del>	<del>3.8</del>	<del>4.6</del>	<del>5.4</del>	<del>4.9</del>	<del>5.7</del>	<del>6.7</del>	<del>7.4</del>	<del>8.0</del>	
U66	1.0	1.3	1.6	2.1	2.8	3.5	3.1	3.6	3.9	4.2	4.5	
U67	1.8	2.1	2.4	2.9	3.6	4.4	3.9	4.6	5.3	5.6	6.2	
<del>U68</del>	<del>1.3</del>	<del>2.1</del>	<del>2.9</del>	<del>3.0</del>	<del>3.7</del>	<del>4.6</del>	<del>4.0</del>	<del>4.9</del>	<del>6.0</del>	<del>6.8</del>	<del>7.9</del>	
U69	2.2	2.6	3.0	3.5	4.1	4.8	4.4	5.0	5.8	7.2	9.0	
U70	2.7	4.6	5.0	5.9	6.8	7.7	7.1	7.9	8.7	9.6	10.9	
<del>U71</del>	<del>1.2</del>	<del>1.5</del>	<del>1.9</del>	<del>2.3</del>	<del>2.9</del>	<del>3.4</del>	<del>3.1</del>	<del>3.5</del>	<del>4.2</del>	<del>4.8</del>	<del>5.5</del>	
U72	1.6	1.9	2.3	2.9	3.6	4.4	3.9	4.6	6.2	7.5	6.6	
U73	2.4	2.7	3.1	3.7	4.5	5.4	4.7	5.7	6.7	7.6	9.1	
<del>U74</del>	<del>1.5</del>	<del>1.7</del>	<del>2.1</del>	<del>2.7</del>	<del>3.5</del>	<del>4.5</del>	<del>3.8</del>	<del>4.7</del>	<del>6.5</del>	<del>7.8</del>	<del>7.6</del>	
U75	0.9	1.3	1.8	2.3	2.5	2.9	2.6	2.9	2.5	3.1	2.6	
U76	2.7	3.2	3.7	4.4	5.3	6.4	5.6	6.6	7.2	7.8	8.9	
<del>U77</del>	<del>1.4</del>	<del>1.6</del>	<del>1.9</del>	<del>2.2</del>	<del>2.8</del>	<del>3.5</del>	<del>3.0</del>	<del>3.7</del>	<del>2.7</del>	<del>3.5</del>	<del>4.1</del>	
U78	3.2	3.8	4.2	4.9	5.6	6.4	5.8	6.6	7.4	8.0	6.5	
U79	1.6	1.9	2.2	2.8	3.8	5.0	4.2	5.5	6.8	6.9	7.9	
<del>U80</del>	<del>0.5</del>	<del>0.9</del>	<del>1.2</del>	<del>1.5</del>	<del>1.8</del>	<del>2.1</del>	<del>1.9</del>	<del>2.3</del>	<del>2.9</del>	<del>3.6</del>	<del>4.0</del>	
U81	2.4	2.8	3.1	3.7	4.4	5.5	4.7	5.9	7.1	7.4	8.2	
U82	0.8	1.1	1.4	2.0	3.0	4.5	3.4	5.1	4.5	3.5	3.1	
<del>U83</del>	<del>1.1</del>	<del>1.5</del>	<del>1.9</del>	<del>2.5</del>	<del>3.6</del>	<del>5.1</del>	<del>4.1</del>	<del>5.6</del>	<del>6.7</del>	<del>5.4</del>	<del>5.1</del>	
U84	0.5	0.9	1.5	2.1	2.9	3.7	3.1	4.0	5.1	6.2	7.6	
U85	2.4	3.0	3.8	4.8	5.8	7.0	6.2	7.3	8.3	9.1	10.0	
<del>U86</del>	<del>0.0</del>	<del>0.8</del>	<del>1.6</del>	<del>2.6</del>	<del>3.7</del>	<del>4.2</del>	<del>4.0</del>	<del>4.3</del>	<del>5.0</del>	<del>5.7</del>	<del>6.6</del>	
U87	0.6	1.0	1.4	1.8	2.3	2.5	2.4	2.6	3.6	5.4	6.3	
U88	0.4	1.3	2.1	3.0	3.6	5.2	4.2	5.8	7.6	6.5	6.3	
<del>U89</del>	<del>0.4</del>	<del>0.9</del>	<del>1.4</del>	<del>2.0</del>	<del>2.5</del>	<del>2.8</del>	<del>2.7</del>	<del>2.8</del>	<del>3.1</del>	<del>3.4</del>	<del>3.8</del>	
U90	0.0	0.9	1.9	3.0	4.0	4.2	4.1	4.3	4.3	4.1	4.1	
U91	0.2	0.9	1.5	2.2	2.8	3.3	2.9	3.4	3.8	4.0	4.2	
<del>U92</del>	<del>0.4</del>	<del>0.9</del>	<del>1.5</del>	<del>2.2</del>	<del>3.0</del>	<del>3.7</del>	<del>3.2</del>	<del>4.0</del>	<del>4.8</del>	<del>5.5</del>	<del>5.2</del>	
V1	2.4	3.5	4.5	5.0	5.4	5.7	5.5	5.8	6.1	6.2	6.3	
V2	2.4	2.8	3.2	3.5	3.8	4.3	4.0	4.5	4.9	5.1	5.3	
V3	1.6	2.5	3.3	3.6	3.9	4.2	4.0	4.2	4.5	4.3	4.3	
V4	1.6	1.8	1.9	2.0	2.2	2.5	2.3	2.7	2.9	3.1	3.2	
V5	1.1	1.2	1.9	2.3	3.2	4.2	3.5	4.6	7.4	6.4	5.7	
V6	2.6	2.9	3.4	4.0	5.0	6.2	5.4	6.7	8.8	7.0	6.8	
V7	2.9	3.2	3.4	3.7	3.9	4.2	4.0	4.3	4.6	4.5	5.0	
V8	1.3	1.8	2.1	2.4	2.6	3.0	2.7	3.1	3.4	3.4	3.6	

FIGURE C-2. Vertical profiles of wind speed. Letters designate height and type of tracer release.



F FLUORESCHEIN  
 K KRYPTON  
 R RHODAMINE  
 Z ZINC SULFIDE

TABLE C-3. WIND DIRECTION (DEG) FOR PERIOD OF TRACER RELEASE.

TEST	AEROVANES								ELEVATION		BECKMAN-WHITLEY VANES					
	2.1	15.2	30.5	45.7	61.0	91.4	122	METERS	.76	1.5	3.0	6.1	12.2	24.4		
	7	50	100	150	200	300	400	FEET	2.5	5	10	20	40	80		
D1	281	291	289	999	278	999	264	278	277	281	284	295	297			
D2	283	289	290	999	295	999	304	283	285	284	266	293	295			
D3	301	290	283	999	278	999	273	999	999	999	999	999	999			
D4	273	270	274	999	282	999	284	251	252	253	254	270	279			
C1	291	298	303	999	323	999	341	293	294	296	298	306	308			
C2	999	999	999	999	999	999	999	311	315	310	310	312	306			
C3	999	999	999	999	999	999	999	306	310	305	306	308	302			
C4	999	999	999	999	999	999	999	315	318	314	315	317	307			
C5	301	297	303	999	305	320	306	999	299	295	296	302	298			
U56	241	251	261	999	267	999	269	233	236	235	236	251	262			
U57	290	292	294	999	294	999	290	288	291	292	292	297	299			
U58	277	274	276	999	277	999	277	278	280	278	277	282	281			
U59	250	251	262	999	277	999	290	235	236	236	234	241	251			
U60	301	313	317	999	315	999	300	301	302	304	307	313	319			
U61	293	293	296	999	298	999	290	293	293	293	293	296	299			
U62	290	282	285	999	287	999	283	286	286	286	285	286	288			
U63	289	287	291	999	296	999	296	269	272	276	283	291	302			
U64	277	290	304	999	313	999	316	291	291	291	290	293	296			
U65	258	257	262	999	267	999	273	259	258	258	258	259	263			
U66	257	262	268	999	271	999	266	245	248	252	258	266	275			
U67	267	261	266	999	270	999	279	264	264	264	262	265	270			
U68	268	284	289	999	292	999	298	287	287	286	285	288	291			
U69	278	272	278	999	283	999	295	274	274	273	272	275	278			
U70	301	297	299	999	299	999	299	299	299	298	299	300	301			
U71	259	259	265	999	276	999	286	260	260	258	257	262	268			
U72	290	292	298	999	302	999	308	290	289	288	289	294	299			
U73	302	302	299	999	302	999	300	302	302	302	303	304	305			
U74	289	302	300	999	302	999	308	292	291	291	292	298	301			
U75	231	275	271	999	295	999	315	222	230	237	247	260	272			
U76	257	255	250	999	258	999	268	260	259	256	253	253	257			
U77	296	293	290	999	291	999	280	296	298	294	294	296	298			
U78	316	313	311	999	311	999	318	313	311	311	313	314	313			
U79	309	309	309	999	313	999	325	307	307	305	310	310	300			
U80	286	294	309	999	310	999	308	270	279	288	299	305	304			
U81	294	302	296	999	304	999	303	299	297	296	297	299	302			
U82	284	304	302	999	316	999	338	267	277	285	294	305	310			
U83	283	297	292	999	311	999	324	282	284	287	291	296	301			
V1	295	288	291	291	289	999	292	999	999	999	999	999	999			
V2	324	317	318	320	320	999	319	999	999	999	999	999	999			
V3	325	323	322	326	324	999	328	999	999	999	999	999	999			
V4	325	321	325	999	327	999	328	999	999	999	999	999	999			
V5	273	286	290	300	304	999	319	265	275	268	270	281	285			
V6	299	299	298	305	305	999	316	301	300	298	295	296	296			
V7	313	313	316	321	318	999	314	320	999	999	999	999	999			
V8	317	315	313	318	319	999	329	314	309	312	311	310	309			

TABLE C-3. WIND DIRECTION (DEG) FOR PERIOD OF TRACER RELEASE (CONTINUED).

---- TFST	AEROVANES							ELEVATION		BECKMAN-WHITLEY VANES					
	2.1 7	15.2 50	30.5 100	45.7 150	61.0 200	91.4 300	122 400	METERS FEET	2 6.6	4 13.1	8 26.2	16 52.5	32 105	46 157	
U84	288	293	304	999	300	309	300		267	273	277	289	999	999	
U85	290	289	295	999	291	298	287		275	290	282	289	999	298	
U86	254	266	286	279	999	298	291		249	251	257	275	999	300	
U87	216	238	248	260	270	299	301		180	177	184	199	256	285	
U88	287	294	288	295	305	308	309		273	275	279	290	298	306	
U89	242	264	279	265	268	270	271		237	247	263	286	283	284	
U90	283	287	288	280	281	285	288		280	281	284	293	297	298	
U91	325	328	333	315	310	297	285		288	290	294	304	309	310	
U92	269	285	296	294	300	304	305		253	260	270	285	298	305	

FIGURE C-3. Vertical profiles of wind direction. Letters designate height and type of tracer release. Dashed curves are from Beckman and Whitley vanes; solid curves are from Aerovanes.

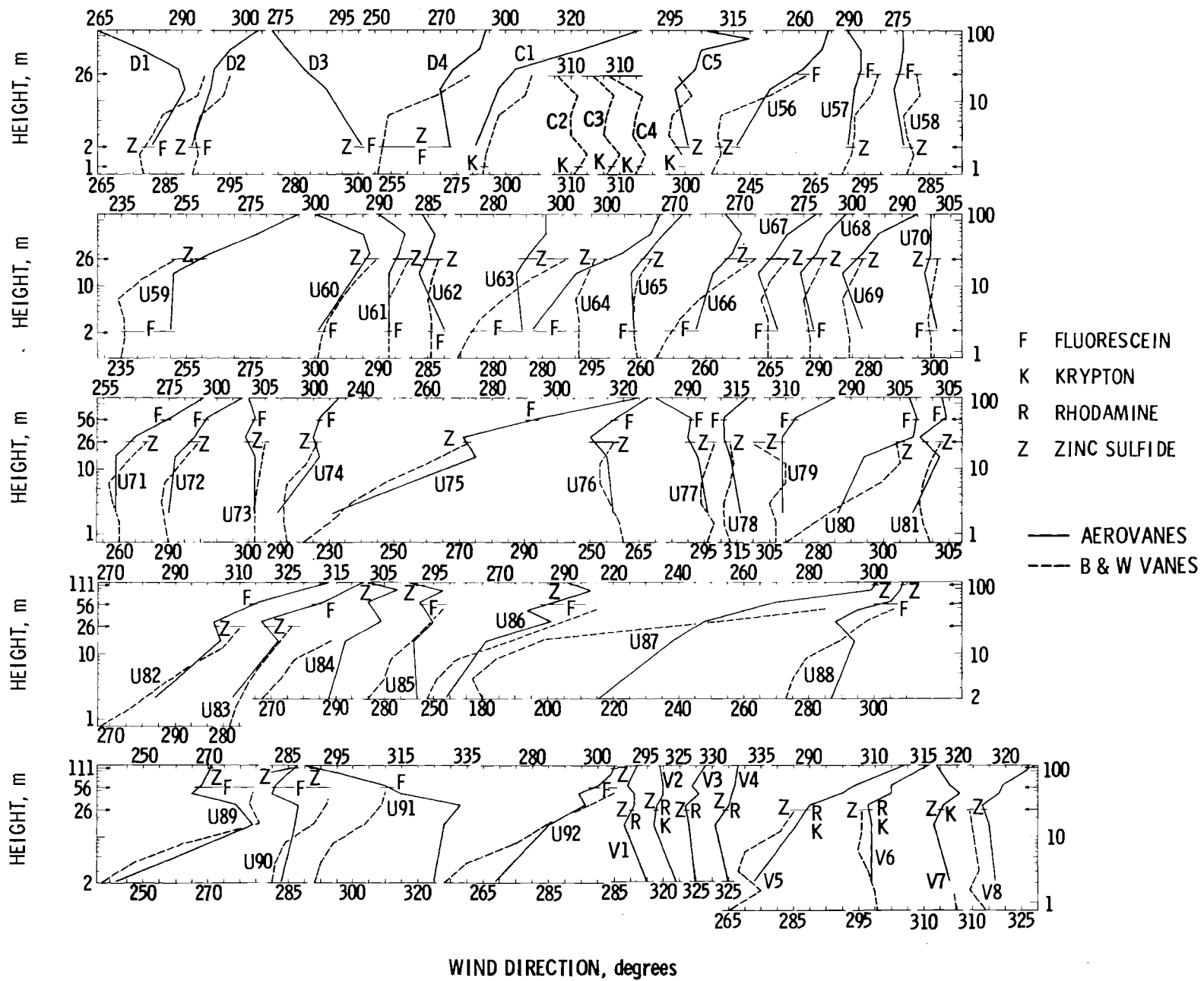


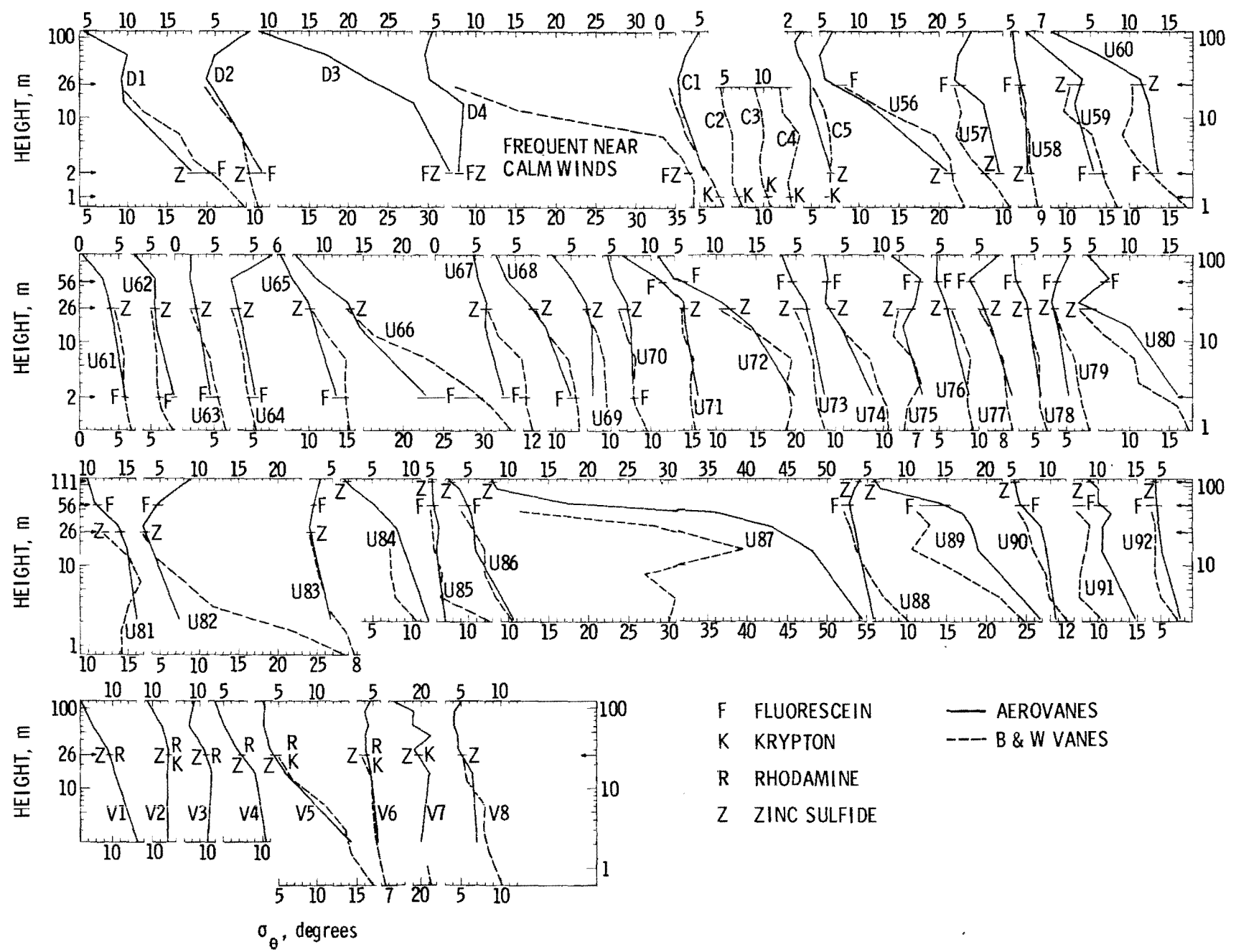
TABLE C-4. WIND DIRECTION STANDARD DEVIATION (DEG) FOR PERIOD OF TRACER RELEASE.

TFST	AEROVANES								ELEVATION		BECKMAN-WHITLEY VANES					
	2.1	15.2	30.5	45.7	61.0	91.4	122	METERS	.76	1.5	3.0	6.1	12.2	24.4		
	7	50	100	150	200	300	400	FEET	2.5	5	10	20	40	80		
D1	15.9	9.6	9.3	999	9.9	999	4.4		24.7	22.0	10.1	16.6	11.9	9.2		
D2	10.9	5.9	4.0	999	4.9	999	9.4		10.5	9.6	9.0	8.3	5.9	3.6		
D3	32.7	28.2	22.4	999	17.3	999	8.6		999	999	999	999	999	999		
D4	7.8	8.5	4.2	999	3.6	999	4.5		37.3	37.3	35.8	33.4	15.5	7.3		
C1	5.5	2.6	2.3	999	3.2	999	4.8		8.0	6.7	5.1	3.3	2.3	1.4		
C2	999	999	999	999	999	999	999		7.3	6.1	6.1	6.1	5.1	4.7		
C3	999	999	999	999	999	999	999		10.9	9.8	9.6	10.1	9.7	8.9		
C4	999	999	999	999	999	999	999		13.6	13.1	13.8	14.6	12.3	12.0		
C5	7.4	4.9	4.9	999	3.3	2.9	3.7		999	7.3	7.5	7.3	6.7	5.2		
U56	21.0	11.2	5.8	999	5.1	999	6.7		23.2	21.9	21.4	19.5	13.5	8.2		
U57	9.5	7.6	4.0	999	4.4	999	6.1		10.9	8.9	6.1	4.2	4.8	4.0		
U58	7.1	6.8	6.1	999	5.5	999	5.2		8.4	7.8	7.3	7.3	6.4	6.1		
U59	13.3	11.0	12.0	999	8.3	999	4.8		16.4	14.9	14.2	13.2	9.7	10.3		
U60	13.6	12.3	11.3	999	5.9	999	0.0		17.1	13.8	10.9	9.1	10.3	10.3		
U61	5.7	4.4	3.8	999	3.0	999	0.5		6.6	5.9	5.6	5.7	5.2	4.6		
U62	7.9	5.7	5.5	999	5.5	999	3.0		7.9	6.2	5.8	5.8	5.4	5.1		
U63	4.5	3.2	2.7	999	2.0	999	2.1		6.5	5.8	5.0	4.5	3.3	2.2		
U64	5.2	3.6	2.9	999	2.2	999	7.4		5.3	4.6	4.0	3.7	3.2	2.3		
U65	13.6	10.8	10.0	999	7.4	999	6.5		15.3	14.8	14.7	14.8	12.4	10.5		
U66	22.8	14.5	13.0	999	9.0	999	6.4		33.6	31.0	27.3	23.0	16.2	13.2		
U67	8.5	6.2	6.4	999	5.4	999	4.8		12.1	11.4	11.3	10.8	7.8	6.6		
U68	11.9	8.8	6.7	999	3.9	999	2.7		13.0	12.8	12.3	11.6	9.2	7.6		
U69	7.7	7.6	6.8	999	5.0	999	2.8		9.7	9.4	9.3	9.1	8.3	6.9		
U70	7.8	7.5	7.0	999	5.3	999	4.6		9.6	8.1	7.7	8.0	6.9	6.0		
U71	15.7	14.2	13.9	999	11.1	999	6.5		15.4	14.9	14.7	15.2	13.8	13.7		
U72	19.8	14.4	10.8	999	5.0	999	2.9		18.8	19.5	18.9	19.5	15.3	10.7		
U73	8.6	6.9	6.2	999	4.3	999	3.2		8.6	7.7	7.3	7.2	6.2	4.9		
U74	8.6	4.7	2.7	999	2.9	999	2.5		10.5	10.4	9.2	8.3	5.4	3.3		
U75	7.9	5.4	6.9	999	7.6	999	4.0		5.6	6.0	7.7	6.7	4.2	4.8		
U76	8.7	6.6	5.7	999	4.6	999	4.7		9.2	8.7	8.6	8.9	7.8	6.7		
U77	9.1	6.5	5.3	999	3.8	999	7.4		9.2	8.6	8.3	7.9	6.7	5.1		
U78	5.7	4.5	3.9	999	2.4	999	2.3		6.5	5.7	5.5	5.5	4.6	4.1		
U79	5.3	3.9	3.1	999	3.8	999	5.2		7.8	7.0	6.4	5.9	4.5	3.5		
U80	16.4	9.9	3.4	999	7.2	999	4.7		17.5	16.1	11.1	10.5	6.6	3.7		
U81	16.1	14.9	13.8	999	10.8	999	10.0		14.2	14.2	15.0	16.6	15.2	12.2		
U82	7.4	4.1	2.9	999	4.9	999	9.1		28.7	21.8	11.6	8.2	4.6	2.9		
U83	4.7	2.6	2.0	999	2.6	999	3.5		7.7	6.6	4.3	3.6	2.8	2.1		
V1	13.1	10.3	9.5	999	7.5	999	6.2		999	999	999	999	999	999		
V2	12.0	11.9	12.1	999	11.2	999	9.3		999	999	999	999	999	999		
V3	10.0	10.5	9.5	999	7.6	999	8.2		999	999	999	999	999	999		
V4	10.4	9.0	6.6	999	5.0	999	3.9		999	999	999	999	999	999		
V5	14.3	5.9	3.9	3.5	3.1	3.2	3.1		17.1	14.3	13.5	11.1	6.9	5.1		
V6	5.7	4.7	4.1	4.1	4.4	4.0	4.7		6.5	5.7	5.2	5.1	4.9	3.7		
V7	20.0	21.1	19.2	21.2	18.9	19.1	16.6		21.1	999	999	999	999	999		
V8	7.0	6.4	4.7	4.6	4.2	4.2	5.0		10.2	8.6	7.8	8.0	5.8	5.2		

TABLE C-4. WIND DIRECTION STANDARD DEVIATION (DEG) FOR PERIOD OF TRACER RELEASE (CONTINUED).

TEST	AEROVANES							ELEVATION		BECKMAN-WHITLEY VANES					
	2.1 7	15.2 50	30.5 100	45.7 150	61.0 200	91.4 300	122 400	METERS	FEET	2	4	8	16	32	46
U84	12.0	9.1	7.9	999	4.9	2.5	1.5			10.5	7.9	7.3	7.2	999	999
U85	7.1	6.0	6.3	999	5.6	5.5	5.4			12.7	6.6	6.7	5.7	999	5.3
U86	10.7	5.9	5.7	5.3	999	3.8	2.5			10.5	8.4	7.1	7.0	999	4.1
U87	54.4	48.2	43.0	36.1	17.3	8.6	8.0			30.0	31.0	27.2	39.5	28.2	11.4
U88	5.8	3.9	3.4	2.9	2.8	3.4	4.1			10.2	7.1	5.2	3.7	2.8	2.1
U89	26.8	19.0	18.2	16.9	14.0	6.7	5.8			24.7	21.6	16.6	10.7	12.9	11.2
U90	10.7	9.5	8.8	7.1	6.1	5.7	5.5			12.1	9.8	9.4	7.8	7.1	5.9
U91	14.8	10.5	10.6	11.6	10.0	10.1	8.7			10.8	7.7	7.8	8.5	8.9	7.3
U92	7.4	5.1	4.7	4.5	4.4	4.3	4.3			7.1	4.9	4.2	4.3	4.3	3.8

FIGURE C-4. Vertical profiles of wind direction standard deviation. Letters designate height and type of tracer release. Dashed curves are from Beckman and Whitley vanes; solid curves are from Aerovanes.







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