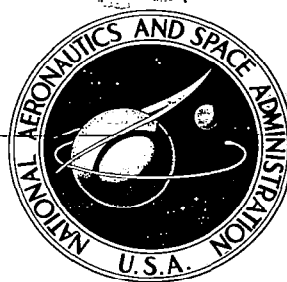


**NASA CONTRACTOR
REPORT**

NASA CR-557



NASA CR

0099476



TECH LIBRARY KAFB, NM

COPIES DESTROYED
JAN 1968
KIRTLAND AFB, NM

AIR RADIATION TABLES:

SPECTRAL DISTRIBUTION FUNCTIONS FOR MOLECULAR BAND SYSTEMS

by Richard A. Allen

Prepared by

AVCO CORPORATION

Everett, Mass.

for

ADVANCED RESEARCH PROJECTS AGENCY

and

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION • WASHINGTON, D. C. • AUGUST 1966



0099476

AIR RADIATION TABLES:
SPECTRAL DISTRIBUTION FUNCTIONS
FOR MOLECULAR BAND SYSTEMS

By Richard A. Allen

Distribution of this report is provided in the interest of
information exchange. Responsibility for the contents
resides in the author or organization that prepared it.

Prepared under Contract Nos. DA-01-021-AMC-12005(Z) and NASw-748 by
AVCO CORPORATION
Everett, Mass.

for

ADVANCED RESEARCH PROJECTS AGENCY

and

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

For sale by the Clearinghouse for Federal Scientific and Technical Information
Springfield, Virginia 22151 - Price \$3.25

TABLE OF CONTENTS

	<u>Page</u>
List of Definitions	-v-
Abstract	-vii-

SECTION I - INTRODUCTION

Molecular Band Radiation Calculation Procedure	I 1-6
Acknowledgment	I 7
Figure Showing Relationship Between Computer Output and Molecular Band Structure	I 9
Table of Spectral Constants	I 10-14
References	I 15-16

SECTION II - COMPUTER OUTPUT

CN (Violet)	II 1-4
CN (Red)	II 5-7
N ₂ (1+)	II 8-20
N ₂ (2+)	II 21-25
N ₂ (Birge Hopfield b ² Π - X Σ ⁺)	II 26-34
N ₂ (Birge Hopfield b' ¹ Σ ⁺ - X ¹ Σ ⁺)	II 35-47
N ₂ (Lyman Birge Hopfield)	II 48-64
N ₂ ⁺ (1-)	II 65-82
N ₂ ⁺ (Meinel)	II 83-85
NO β	II 86-94
NO γ	II 95-99
NO (Ogawa)	II 100-102
O ₂ (Schumann Runge)	II 103-122

SECTION III - GRAPHS OF SPECTRAL DISTRIBUTIONS

CN (Violet)	III 1-4
CN (Red)	III 5-8
N ₂ (1+)	III 9-12
N ₂ (2+)	III 13-16
N ₂ (Birge Hopfield b ² Π - X ¹ Σ ⁺)	III 17-20
N ₂ (Birge Hopfield b' ¹ Σ ⁺ - X ¹ Σ ⁺)	III 21-24
N ₂ (Lyman Birge Hopfield)	III 25-28
N ₂ ⁺ (1-)	III 29-32
N ₂ ⁺ (Meinel)	III 33-36
NO β	III 37-40
NO γ	III 41-44
NO (Ogawa)	III 45-48
O ₂ (Schumann Runge)	III 49-52

LIST OF DEFINITIONS

(The primes and double primes refer to emitting and absorbing states respectively).

- a_o = first Bohr radius
- B_e = rotational constant for the equilibrium position of the molecule
- B_v = rotational constant for a given vibrational state
- c = speed of light
- e = charge of the electron in e.s.u.
- f = absorption oscillator strength and is defined by the expression
$$f = \int_0^{\infty} \sigma_{\tilde{\nu}} d\tilde{\nu} / \pi r_o$$
- g = electronic degeneracy

- h = Planck's constant
- I = intensity
- J = rotational quantum number
- k = Boltzmann constant
- N = concentration of molecules in molecules per cm^3
- N_1 = upper vibrational state
- N_2 = lower vibrational state (N_1 and N_2 are the notations used in the arrays of Condon factors)
- Q_r = rotational partition function
- Q_v = vibrational partition function
- $q_{v'v''}$ = Condon factor for the transition from v' to v''
- R_{∞} = Rydberg constant for infinite mass
- $\left| \frac{R(\bar{r})}{e a_o} \right|^2$ = electronic transition moment in atomic mass units. (Assumed to be independent of inter-nuclear separation, $\bar{r}$, in this report).

- r_o = classical electron radius
 T = temperature in $^{\circ}\text{Kelvin}$
 T_e = electronic temperature
 T_r = rotational temperature
 T_v = vibrational temperature
 V = volume in cm^3
 v = vibrational quantum number
 α = rotational decay constant as defined in expression (7) and shown diagrammatically in Figure 1.
 α_e = vibration rotation interaction constant
 λ = wavelength
 $\tilde{\nu}$ = wavenumber
 $\tilde{\nu}_e$ = effective wavenumber for emission of a molecular band system
 $\tilde{\nu}_{e,v'}$ = effective wavenumber for emission for transitions from one vibrational level, v'
 $\tilde{\nu}_{oo}$ = wavenumber for the 0,0 vibrational transition
 $\sigma_{\tilde{\nu}}$ = absorption cross section per molecule
 τ_e = radiative lifetime for spontaneous emission from an electronic state
 ϕ = spectral distribution function as defined in expression (6) and Figure 1.
 $\Delta\phi$ = contribution to the spectral distribution function at the band origin of a given vibrational transition as shown in Figure 1.
 ϕ_1 = the value of ϕ as shown in Figure 1 and is the value of ϕ just off the edge of a vibrational band head. It is the contribution of all transitions to ϕ at the wavelength of the band head and not including the band head.
 $\phi_2 = \phi_1 + \Delta\phi$
 Ω = solid angle in steradians
 $\omega_e = \left\{ \begin{array}{l} \omega_{ex_e} \\ \omega_{ey_e} \end{array} \right\}$ = vibrational constants

ABSTRACT

Calculated spectral distributions are given in computer output and graphical form for the following diatomic molecular band systems found in air: CN (Violet), (Red); N_2 (1+), (2+), ($b^1\Pi \rightarrow X$), ($b^1\Sigma \rightarrow X$), (Lyman Birge Hopfield); N_2^+ (1-), (Meinel); NO (β), (γ), (Ogawa), and O_2 (Schumann-Runge). The calculations are carried out for 3, 5, 8, and 11,000°K. A smeared rotational line model is used and also the assumption is made that the electronic transition moments are independent of internuclear separation.

MOLECULAR BAND RADIATION

For the purposes of making radiation calculations for diatomic molecular band systems, the expression given by Keck et al¹, and Patch² for smeared rotational lines is found useful. This expression is for the radiation intensity emitted from an optically thin gas sample at thermodynamic equilibrium and is

$$\frac{dI}{dV d\Omega d\lambda} = \frac{\pi r_o \cdot 2hc^2}{3 R_\infty} \left| \frac{R(\bar{r})}{e a_o} \right|^2 N'' \phi \tilde{\nu}^6 \frac{hc}{k T_r} \exp \left[-\frac{hc \tilde{\nu}_{oo}}{k T_e} \right] = \quad (1)$$

$$3.19 \times 10^{-34} \left| \frac{R(\bar{r})}{e a_o} \right|^2 N'' \phi \tilde{\nu}^6 \frac{hc}{k T_r} \exp \left[-\frac{hc \tilde{\nu}_{oo}}{k T_e} \right] \frac{w}{\text{cm}^3 - \mu - \text{ster}}$$

The absorption oscillator strength for a band system is a function of wavelength and is related to the matrix element by the expression,

$$f = \left(\frac{\tilde{\nu}}{3 R_\infty} \right) \left| \frac{R(\bar{r})}{e a_o} \right|^2 \quad (2)$$

As used in formulas (1) and (2), the electronic transition moment, $\left| \frac{R(\bar{r})}{e a_o} \right|^2$ is related to the radiative lifetime, τ_e , for spontaneous emission, from an electronic state by the following expression:

$$\frac{1}{\tau_e} = \frac{8\pi^2 r_o c \tilde{\nu}_e^3 g''}{3 R_\infty g'} \left| \frac{R(\bar{r})}{e a_o} \right|^2 \quad (3)$$

where $\tilde{\nu}_e$ is given by the following expression:

$$\tilde{\nu}_e^3 = \frac{\sum_{v'} \sum_{v''} N_{v'}' \tilde{\nu}^3 q_{v'v''}}{\sum N_{v'}'} \quad (4)$$

The electronic transition moment is also related to the radiative lifetime for spontaneous emission from a given vibrational level, $\tau_{e, v'}$, by Equation (3), except that $\tilde{\nu}_e$ is replaced by $\tilde{\nu}_{e, v'}$ and

$$\tilde{\nu}_{e, v'}^3 = \sum_{v''} \tilde{\nu}^3 q_{v'v''} \quad (5)$$

Note should be made that the electronic transition moment has been defined differently by various authors,^{3,4,5,6} the differences occurring in the way that the electronic degeneracies appear in the expression (3) that relates the lifetime for spontaneous emission to the electronic transition moment. We have chosen the definition adopted by Keck et al.³.

ϕ is the spectral distribution function and gives the vibrational rotational structure of the band system.

$$\phi = \frac{k T_r}{h c} \frac{1}{Q_v'' Q_r'' (B_v' - B_v'')} \sum_{\epsilon_v' \geq 0} q_{v'v''} \exp \left[-\frac{\epsilon_{v'}}{k T_v} - \frac{\epsilon_{r'}}{k T_r} \right] \quad (6)$$

where: $Q_v'' = [1 - \exp(-h c \omega_e''/k T_v)]^{-1}$ is the vibrational partition function for the absorbing state;

$Q_r'' = k T_r / h c B_e''$ is the rotational partition function for the absorbing state;

$q_{v'v''}$ is the Condon factor for the transition from v' to v'' ;

$\tilde{\nu}_v = \omega_e (v + 1/2) - \omega_e x_e (v + 1/2)^2 + \omega_e y_e (v + 1/2)^3$ is the wave number of the v th vibrational level;

$\tilde{\nu}_{v'v''} = \tilde{\nu}_{00} + (\tilde{\nu}_{v'} - \tilde{\nu}_{0'}) - \tilde{\nu}_{v''} - \tilde{\nu}_{0''}$ is the wave number for the vibrational transition between states v' and v'' ;

$\epsilon_{v'} = hc (\tilde{\nu}_{v'} - \tilde{\nu}_{0'})$ is the vibrational energy relative to the ground vibrational state for the emitting state;

$\epsilon_{r'} = B_{v'} / (B_{v'} - B_{v''}) hc (\tilde{\nu} - \tilde{\nu}_{v',v''})$ is the rotational energy for the emitting state, with the approximation made that the rotational quantum number, J , does not change in a given transition.

In a transition, J can change by $+1, 0$ or -1 giving R, Q and P branches, respectively. However, for increasing rotational temperatures where high J values are more heavily weighted or where the spectrum is observed with coarse resolution, the effect of $\Delta J = \pm 1$ is reduced and the band structure can be assumed to consist of only $\Delta J = 0$ transitions. The degree to which this approximation matches the detailed calculations for the rotational structure is discussed in reference 7. Although $\phi \tilde{\nu}^6$ lacks detail within an interval $\Delta \tilde{\nu} \approx B_e^2 / \Delta B_e$ of the band heat, it gives a good description of the vibrational structure for wavelength resolutions greater than approximately $5 \text{ \AA}$ and for temperatures above 2000°K .

ϕ and related parameters were calculated for the various molecular band systems of air. The input to the program were the spectroscopic constants listed in Table I and the Franck Condon factors given in array form at the beginning of each section containing the computer output for a particular band system. The computer output are in pages II-1 through II-122 and are for all the band systems listed in Table I. Note should be made that computer output contains zeros for several $\phi \tilde{\nu}^6$ entries. The reason for this is that the program, because of memory limitations, was written such that when $\frac{\epsilon_{r'}}{k T_r}$ was greater than 7, $\exp - \frac{\epsilon_{r'}}{k T_r}$ was assumed to be zero.

The relationship between the tabulated parameters and molecular band spectra is shown in Fig. 1, and is self explanatory. The interaction of vibration with the rotational structure was taken into account and the effect is reflected in the α column of the computer output. α at a given temperature varies slightly from one vibrational transition to another and is given by the following expression:

$$\alpha = \frac{B_{v'}}{(B_{v'} - B_{v''})} \frac{hc}{k T_r} \quad (7)$$

where B_v is given by

$$B_v = B_e - \alpha_e (v + 1/2) \quad (8)$$

$\Delta\phi$, the contribution at the band origin from a given vibrational transition is given by

$$\Delta\phi = Q_{v''} \frac{B_{v''}}{(B_{v'} - B_{v''})} q_{v',v''} \exp\left[-\frac{hc(\tilde{\nu}_{v'} - \tilde{\nu}_{o'})}{k T_v}\right] \quad (9)$$

$\Delta\phi$ is a function of the vibrational temperature while α is a function of the rotational temperature. Consequently, the computer output given in this publication can be easily used to calculate spectral distributions for non-equilibrium temperature environments by combining the $\Delta\phi$'s at the vibrational temperature with the α 's determined by the rotational temperature.

In most cases, there is little data giving internuclear separation dependence for the electronic transition moment, $\left|\frac{R(r)}{e a_0}\right|^2$, consequently none has been assumed for the purposes of calculating the spectral distributions. Also, for the molecules for which calculations were carried out, the assumption has been made that the probability for the transition between two vibrational levels is independent of the rotational state of the molecule. Attention should be given reference 8 regarding this effect. Using the above assumptions $\phi \tilde{\nu}^6$ should give a fairly good description of the spectrum of diatomic molecular radiation and graphs of this parameter versus wavelength graphs are given in pages III-1 through III-52. It should be noted that ϕ varies exponentially with $\tilde{\nu}$, however for ease of plotting, it was assumed that $\phi \tilde{\nu}^6$ behaves exponentially with λ between successive vibrational transitions.

The last column of the computer output of pages I-1 through II-122 labelled $\int \phi \tilde{\nu}^6 d\lambda \text{ cm}^{-5}$ is a running integral. The final is the integral over all wavelengths and is also given on the graphs of pages III-1 through III-52.

This column of running integrals is designed to be useful for calculating what fraction of the total radiation from a molecular band system contributes in a given band pass. If used in conjunction with calculations of spectrally integrated fluxes, such as Reference 9, then the absolute intensity in a given band pass can be readily estimated.

The integral $\int_0^{\infty} \phi \lambda^{-6}$ can also be used to calculate $\tilde{\nu}_e$ which is needed in expression (3) to relate the radiative lifetime of the electronic state to the transition moment. The total radiation from a band system can be expressed

$$\frac{dI}{dV d\Omega} = \frac{N' hc \tilde{\nu}_e}{4\pi \tau_e} \quad (10)$$

and is an alternative expression to (1) integrated overall wavelengths.

$$\frac{N'}{N''} = \frac{Q'_r Q'_v g'}{Q''_r Q''_v g''} \exp\left[-\frac{hc \tilde{\nu}_{oo}}{k T_e}\right] \quad (11)$$

If no internuclear separation dependence is assumed and the proper substitutions made between (1), (10) and (11), the following expression for $\tilde{\nu}_e$ results:

$$\tilde{\nu}_e = \left(\frac{Q''_r Q''_v}{Q'_r Q'_v} \frac{hc}{k T_r} \int_0^{\infty} \phi \lambda^{-6} d\lambda \right)^{1/4} \quad (12)$$

$\tilde{\nu}_e$'s at four temperatures were calculated and are given in Table I. In Ref. 9 $\tilde{\nu}_{oo}$ was the wavenumber which was used in expression (3) to relate the electronic transition moment to the radiative lifetime and this same procedure was adopted. It is seen, however, that in several cases $\tilde{\nu}_e$ is quite different than $\tilde{\nu}_{oo}$ notably for the (Birge Hopfield) (NO β) and O₂ (S.R.) systems.

$\tilde{\nu}_e$ should increase or shift to the blue for increasing temperature. However, if the array of Franck Condon factors is not complete, than $\tilde{\nu}_e$

will calculate to shift to the red. This effect is seen in the $\tilde{\nu}_e$ values calculated for the N_2 (Birge Hopfield #1) and NO (λ) systems. The degree to which the Franck Condon factor array is complete can be seen by how nearly the sums over v' and v'' given with the arrays, approach unity.

ACKNOWLEDGMENT

Credit is given to many members of the Avco-Everett Research Laboratory, especially A. Fairbairn, J. C. Keck, R. Taylor and K. Wray, who gave many helpful suggestions. Special credit should be given to R. Johnson who was mainly responsible for writing the computer program and to R. Spindler of Avco/RAD who kindly provided the Franck Condon factors for the Birge Hopfield $b'^1 \Sigma \rightarrow X$ transition.

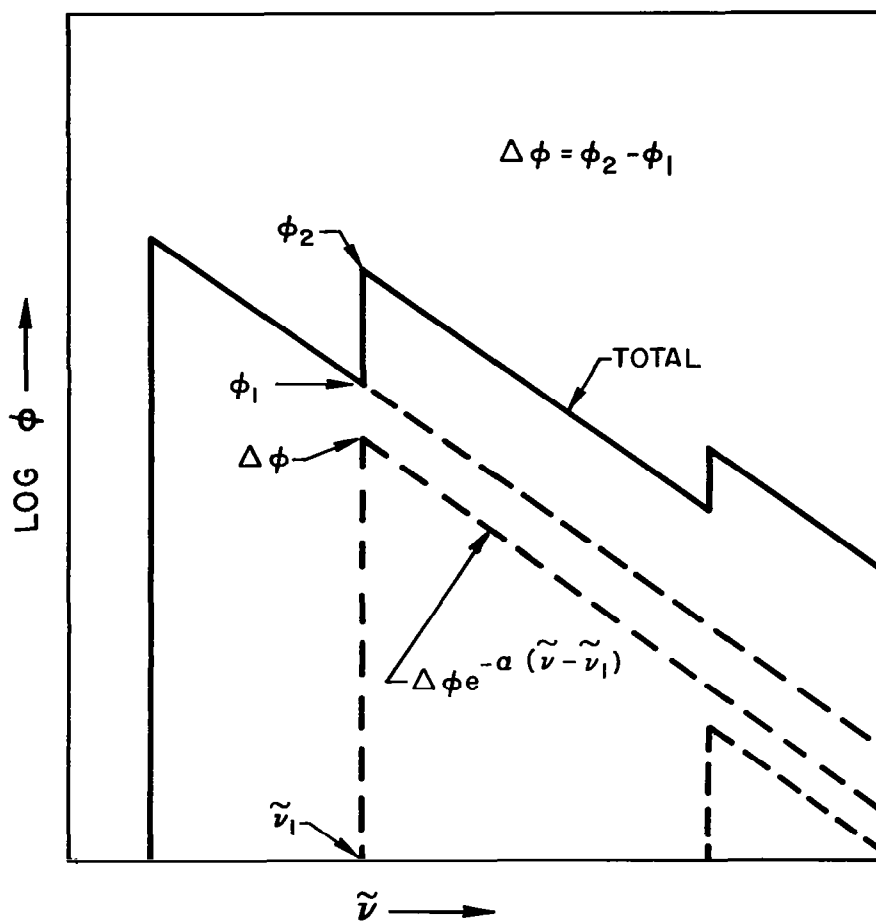


Fig. 1 Diagram showing the relationship between the information contained in the computer output and molecular band structure. The calculation uses a smeared rotational line model and also the approximation which assumes $\Delta J = 0$, for all vibrational rotational transitions.

Table I

(ω_e , ω_x , ω_y , a_e , B_e and $\tilde{\nu}$ are in units of cm^{-1} . References are in order of - spectroscopic constants: Franck Condon factors: Oscillator strength.)

CN (VIOLET)

	Desig.	g	ω_e	$\omega_e x_e$	$\omega_e y_e$	a_e	B_e
Upper	$B^2 \Sigma^+$	2	2164.13	20.25	0.0	0.02215	1.9701
Lower	$X^2 \Sigma^+$	2	2068.705	13.144	0.0	0.01735	1.8996

$$\tilde{\nu}_{00} = 25797.85$$

$$\begin{array}{l} \text{Recommended} \\ \text{Values} \end{array} \left\{ \begin{array}{l} \left| \frac{R}{e a_0} \right|^2 = .346 \\ f_{00} = .027 \\ \tau = 8.5 \times 10^{-8} \text{ sec} \end{array} \right.$$

Refs. - 6:10:11

$T_{r,v} \times 10^{-3} \text{ } ^\circ\text{K}$	$\tilde{\nu}_e$
2	25905.1
5	26333.6
8	26634.8
11	26675.4

CN (RED)

	Desig.	g	ω_e	$\omega_e x_e$	$\omega_e y_e$	a_e	B_e
Upper	$A^2 \Pi$	4	1814.43	12.883	0.0	0.01746	1.7165
Lower	$X^2 \Sigma^+$	2	2068.71	13.144	0.0	0.01735	1.8996

$$\tilde{\nu}_{00} = 9114.59$$

$$\begin{array}{l} \text{Recommended} \\ \text{Values} \end{array} \left\{ \begin{array}{l} \left| \frac{R}{e a_0} \right|^2 = .254 \\ f_{00} = 6.95 \times 10^{-3} \\ \tau = 5.12 \times 10^{-6} \text{ sec} \end{array} \right.$$

Refs. - 6:12:13

$T_{r,v} \times 10^{-3} \text{ } ^\circ\text{K}$	$\tilde{\nu}_e$
2	8102.0
5	8200.2
8	7915.0
11	7559.8

Table I (cont.)

N₂ (1+)

	Desig.	g	ω_e	$\omega_e x_e$	$\omega_e y_e$	a_e	B_e
Upper	B ³ Π	6	1734.11	14.47	0.0	0.0184	1.6380
Lower	A ³ Σ ⁺	3	1460.37	13.891	-0.025	0.013	1.440

$\tilde{\nu}_{oo} = 9557.0$

$T_{r,v} \times 10^{-3} \text{ } ^\circ\text{K} \quad \tilde{\nu}_e$

$$\text{Recommended Values} \left\{ \begin{array}{l} \left| \frac{R}{e a_o} \right|^2 = .1 \text{ (1.0 in air)} \\ f_{oo} = .003 \\ \tau = 1.1 \times 10^{-5} \text{ sec} \end{array} \right.$$

2	9158.5
5	10631.7
8	11922.0
11	12866.9

Refs. - 6:14:15

N₂ (2+)

	Desig.	g	ω_e	$\omega_e x_e$	$\omega_e y_e$	a_e	B_e
Upper	C ³ Π	6	2035.1	17.08	-2.15	0.0197	1.8259
Lower	B ³ Π	6	1734.11	14.47	0.0	0.0184	1.6380

$\tilde{\nu}_{oo} = 29670.6$

$T_{r,v} \times 10^{-3} \text{ } ^\circ\text{K} \quad \tilde{\nu}_e$

$$\text{Recommended Values} \left\{ \begin{array}{l} \left| \frac{R}{e a_o} \right|^2 = .7 \\ f_{oo} = .06 \\ \tau = 2.7 \times 10^{-8} \text{ sec} \end{array} \right.$$

2	29227.0
5	29292.6
8	28689.6
11	27990.8

Refs. - 6:14:3

N₂ (BIRGE-HOPFIELD #1)

	Desig.	g	ω_e	$\omega_e x_e$	$\omega_e y_e$	a_e	B_e
Upper	b ² Π	4	698.0	3.5	0.0	0.0	1.41
Lower	X ¹ Σ ⁺	1	2357.78	14.08	-0.02	0.01802	1.999

$\tilde{\nu}_{oo} = 99097.2$

$T_{r,v} \times 10^{-3} \text{ } ^\circ\text{K} \quad \tilde{\nu}_e$

Refs. - 16:17

2	71964.0
5	70879.8
8	66490.6
11	62899.1

Table I (cont.)

N₂ (BIRGE-HOPFIELD #2)

	Desig.	g	ω_e	$\omega_e x_e$	$\omega_e y_e$	a_e	B_e
Upper	b ¹ Σ^+	1	751.64	4.82	0.0	0.0048	1.154
Lower	X ¹ Σ^+	1	2357.78	14.08	-0.02	0.01802	1.999

$$\tilde{\nu}_{00} = 103672.1$$

$$\begin{array}{l} \text{Recommended} \\ \text{Values} \end{array} \left\{ \begin{array}{l} \left| \frac{R}{e a_0} \right|^2 = 4.4 \\ f_{00} = .43 \\ \tau = .71 \times 10^{-9} \text{ sec} \end{array} \right.$$

$T_{r,v} \times 10^{-3} \text{ } ^\circ\text{K}$	$\tilde{\nu}_e$
2	68140.2
5	72437.6
8	71637.3
11	69543.6

Refs. - 18:19:20:25

N₂ (LYMAN BIRGE-HOPFIELD)

	Desig.	g	ω_e	$\omega_e x_e$	$\omega_e y_e$	a_e	B_e
Upper	a ¹ Π	2	1693.90	13.97	0.0	0.0173	1.617
Lower	X ¹ Σ^+	1	2357.78	14.08	-0.02	0.01802	1.999

$$\tilde{\nu}_{00} = 68948.3$$

$$\begin{array}{l} \text{Recommended} \\ \text{Values} \end{array} \left\{ \begin{array}{l} \left| \frac{R}{e a_0} \right|^2 = 1.77 \times 10^{-5} \\ f_{00} = .37 \times 10^{-5} \\ \tau = 1.7 \times 10^{-4} \text{ sec} \end{array} \right.$$

$T_{r,v} \times 10^{-3} \text{ } ^\circ\text{K}$	$\tilde{\nu}_e$
2	59350.0
5	60503.5
8	60618.2
11	60174.1

Refs. - 18:17:21

N₂⁺ (1-)

	Desig.	g	ω_e	$\omega_e x_e$	$\omega_e y_e$	a_e	B_e
Upper	B ² Σ^+	2	2419.84	23.19	-0.5375	0.0195	2.083
Lower	X ² Σ^+	2	2207.19	16.136	-0.0400	0.020	1.932

$$\tilde{\nu}_{00} = 25566.0$$

$$\begin{array}{l} \text{Recommended} \\ \text{Values} \end{array} \left\{ \begin{array}{l} \left| \frac{R}{e a_0} \right|^2 = .45 \\ f_{00} = .035 \\ \tau = .67 \times 10^{-7} \text{ sec} \end{array} \right.$$

$T_{r,v} \times 10^{-3} \text{ } ^\circ\text{K}$	$\tilde{\nu}_e$
2	25284.9
5	25808.7
8	26443.2
11	26998.2

Refs. - 6:14:3

Table I (cont.)

N₂⁺ (MEINEL)

	Desig.	g	ω_e	$\omega_e x_e$	$\omega_e y_e$	a_e	B_e
Upper	A ² Π	4	1902.84	14.91	0.0	0.0	1.74
Lower	X ² Σ^+	2	2207.19	16.14	-0.04	0.02	1.932

 $\tilde{\nu}_{00} = 9002.0$

$$\begin{aligned} \text{Recommended} & \left\{ \left| \frac{R}{e a_0} \right|^2 = .45 \right. \\ \text{Values} & \left\{ \begin{aligned} f_{00} &= .012 \\ \tau &= 3 \times 10^{-6} \text{ sec} \end{aligned} \right. \end{aligned}$$

Refs. - 14;14;21

 $T_{r,v} \times 10^{-3} \text{ } ^\circ\text{K} \quad \tilde{\nu}_e$

2	7889.1
5	8224.0
8	8117.1
11	7870.1

NO β

	Desig.	g	ω_e	$\omega_e x_e$	$\omega_e y_e$	a_e	B_e
Upper	B ² Π	4	1038.0	7.603	0.0967	0.01525	1.127
Lower	X ² Π	4	1904.0	13.97	-0.0012	0.0178	1.7046

 $\tilde{\nu}_{00} = 45440.0$

$$\begin{aligned} \text{Recommended} & \left\{ \left| \frac{R}{e a_0} \right|^2 = .08 \right. \\ \text{Values} & \left\{ \begin{aligned} f_{00} &= .01 \\ \tau &= .67 \times 10^{-6} \text{ sec} \end{aligned} \right. \end{aligned}$$

Refs. - 6;22;3

 $T_{r,v} \times 10^{-3} \text{ } ^\circ\text{K} \quad \tilde{\nu}_e$

2	29074.8
5	29215.2
8	27755.3
11	26215.8

NO γ

	Desig.	g	ω_e	$\omega_e x_e$	$\omega_e y_e$	a_e	B_e
Upper	A ² Σ^+	2	2371.3	14.48	-0.28	0.0164	1.9952
Lower	X ² Π	4	1904.0	13.97	-0.0012	0.0178	1.7046

 $\tilde{\nu}_{00} = 44138.0$

$$\begin{aligned} \text{Recommended} & \left\{ \left| \frac{R}{e a_0} \right|^2 = .025 \right. \\ \text{Values} & \left\{ \begin{aligned} f_{00} &= .003 \\ \tau &= 1.16 \times 10^{-7} \text{ sec} \end{aligned} \right. \end{aligned}$$

Refs. - 6;22;3

 $T_{r,v} \times 10^{-3} \text{ } ^\circ\text{K} \quad \tilde{\nu}_e$

2	42250.3
5	42128.7
8	41633.3
11	40911.5

Table I (cont.)

NO (OGAWA)

	Desig.	g	ω_e	$\omega_e x_e$	$\omega_e y_e$	a_e	B_e
Upper	$b^4 \Sigma^-$	4	1168.0	13.3	0.0	0.0208	1.422
Lower	$a^4 \Pi$	8	1019.0	12.8	0.0	0.0198	1.220

$$\tilde{\nu}_{00} = 11514.0$$

$$T_{r,v} \times 10^{-3} \text{ } ^\circ\text{K} \quad \tilde{\nu}_e$$

2	11131.2
5	11417.2
8	11253.0
11	11051.4

Refs. - 23;24

O₂ (SCHUMANN RUNGE)

	Desig.	g	ω_e	$\omega_e x_e$	$\omega_e y_e$	a_e	B_e
Upper	$B^3 \Sigma^-$	3	700.36	8.002	-0.3753	0.011	0.819
Lower	$X^3 \Sigma^-$	3	1580.36	12.073	0.0546	0.01579	1.4456

$$\tilde{\nu}_{00} = 49363.1$$

$$T_{r,v} \times 10^{-3} \text{ } ^\circ\text{K} \quad \tilde{\nu}_e$$

$$\begin{array}{l} \text{Recommended} \\ \text{Values} \end{array} \left\{ \begin{array}{l} \left| \frac{R}{e a_o} \right|^2 = 0.5 \\ f_{00} = .075 \\ \tau = .82 \times 10^{-8} \text{ sec} \end{array} \right.$$

2	28035.6
5	29808.8
8	29012.0
11	27668.6

Refs. - 6;17;3

REFERENCES

1. Keck, J. C., Camm, J. C., Kivel, B., and Wentink, T., Jr., "Radiation from Hot Air" Part II, Avco-Everett Research Laboratory Research Report 42, *Annals of Phys.*, 7, 1-38 (May 1959).
2. Patch, R. W., Shackleford, W. L. and Penner, S. S., "Approximate Spectral Absorption Coefficient Calculations for Electronic Band Systems belonging to Diatomic Molecules", *J. Quant. Spect. Rad. Transf.* 2, 263-271 (1962).
3. Keck, J. C., Allen, R. A., and Taylor, R. L., "Electronic Transition Moments for Air Molecules", Avco-Everett Research Laboratory Research Report 149, *J. Quant. Spect. Rad. Transf.* 3, 335-353, (Oct. - Dec. 1963).
4. Mulliken, R. S., "Intensities of Electronic Transitions in Molecular Spectra", *J. Chem. Phys.* 7, 14-21 (Jan. 1939).
5. Nicholls, R. W., "Transition Probabilities of Aeronomically Important Spectra", *Annals of Phys.*, 20, 144-181 (April - June 1964).
6. Herzberg, G., Molecular Spectra and Molecular Structure, Vol. I Spectra of Diatomic Molecules (Van Nostrand Co., Inc., New York 1950).
7. Allen, R. A., "Nonequilibrium Shock Front Rotational, Vibrational and Electronic Temperature Measurements", Avco-Everett Research Laboratory Research Report 186, *J. Quant. Spect. Rad. Transf.* 5, 511, (1965).
8. Learner, R. C. M., "The Influence of Vibration-Rotation Interaction on Intensities in the Electronic Spectra of Diatomic Molecules", *Proc. Royal Society of London*, A269, 311 (1962).
9. Allen, R. A., "Air Radiation Graphs: Spectrally Integrated Fluxes Including Line Contributions and Self Absorption", Avco-Everett Research Laboratory Research Report 230 (Sept. 1965). NASA CR-
10. Wentink, T., Jr., Davis, J., Isaacson, L., and Spindler, R., "Electronic Oscillator Strengths of Diatomic Molecules", Avco Corporation Research and Advanced Development Division Technical Memorandum 64-33 (July 1964).
11. Bennet, R. C., and Dalby, F. W., "Experimental Oscillator Strength of the Violet System of CN", *J. Chem. Phys.* 36, 399 (Jan. 1962).
12. Fraser, P. A., Jarman, W. R., and Nicholls, R. W., "Transition Probabilities of Molecular Band System, Part VI, The University of Western Ontario Scientific Report No. 10, p. 4, (July 1, 1953).

13. Jeunehomme, M., "Oscillator Strength of the CN Red System", J. Chem. Phys. 42, No. 12, (June 1965).
14. Nicholls, R. W., "Franck-Condon Factors to High Vibrational Quantum Numbers I: N_2 and N_2^+ ", J. Res. Nat. Bur. Stand. 65A, No. 5, 451-460 (September-October 1961).
15. Wray, K. L., and Connolly, T. J., "Nitrogen and Air Radiation in the Near IR", Avco Everett Research Laboratory Research Report 200, J. Quant. Spect. Rad. Transf. 5, 111-123 (Jan-Feb. 1965).
16. Lofthus, A., "The Molecular Spectrum of Nitrogen", University of Physics, University of Oslo Spectroscopic Report No. 2, (December 1960).
17. Nicholls, R. W., "Laboratory Astrophysics", J.Q.S.R.T. 2, 433-439 (1962).
18. Wilkinson, P. G. and Houk, N. B., "Emission Spectra of Nitrogen in the Vacuum Ultraviolet", J. Chem. Phys. 24, 528-534, (March 1956).
19. Spindler, R., Avco Corporation Research and Development, Private Communication.
20. Allen, R. A., Textoris, A., and Wilson, J., "Measurement of the Free-Bound and Free-Free Continua of Nitrogen, Oxygen and Air", Avco Everett Research Laboratory Research Report 195, (September 1964).
21. Nicholls, R. W., "Transition Probabilities of Aeronomically Important Spectra", Annales De Geophysique, 20, No. 2 (April-June 1964).
22. Nicholls, R. W., "Franck-Condon Factors to High Vibrational Quantum Numbers II: SiO, MgO, SrO, AlO, VO, NO", J. Res. Nat. Bur. Stand. 66A, 227 (1963).
23. Ogawa, M., "The Band Spectrum of Nitric Oxide in the Near Infrared Region", Science of Light, 3 No. 1, 39 (1954).
24. Childs, D. R., "Vibrational Wave Functions and Overlap Integrals of Various Band Systems", Avco Everett Research Laboratory Research Report 145, J. Quant. Spect. Rad. Transf. 4, 283-290, (March-April 1964).
25. Wray, K. L., and Teare, J. D., "A Shock Tube Study of the Kinetics of Nitric Oxide at High Temperatures", Avco Everett Research Laboratory Research Report 95, J. Chem. Phys. 36, 2582-2596, (May, 1962).

CN VIOLET

CN VIOLET

N1/N2	0	1	2	3	4	5	6	7	8	9
0	9.2000E-01	7.3000E-02	5.0000E-03	0.	0.	0.	0.	0.	0.	0.
1	7.9000E-02	7.8700E-01	1.7100E-01	1.4000E-02	0.	0.	0.	0.	0.	0.
2	1.0000E-03	1.3700E-01	6.9100E-01	1.4700E-01	2.4000E-02	0.	0.	0.	0.	0.
3	0.	3.0000E-03	1.8000E-01	6.2500E-01	1.6300E-01	2.9000E-02	0.	0.	0.	0.
4	0.	0.	3.0000E-03	2.1100E-01	5.7000E-01	1.7100E-01	4.5000E-02	0.	0.	0.
5	0.	0.	0.	3.0000E-03	2.0800E-01	5.2900E-01	2.0400E-01	5.6000E-02	0.	0.
6	0.	0.	0.	0.	2.9000E-02	2.3200E-01	4.9000E-01	2.3800E-01	5.0000E-02	0.
7	0.	0.	0.	0.	5.0000E-03	3.7000E-02	2.1300E-01	4.5000E-01	2.1300E-01	5.4000E-02
8	0.	0.	0.	0.	0.	2.0000E-03	3.8000E-02	2.1000E-01	4.3000E-01	2.1000E-01
9	0.	0.	0.	0.	0.	0.	1.0000E-02	5.0000E-02	2.3000E-01	4.3100E-01
10	0.	0.	0.	0.	0.	0.	0.	1.6000E-02	5.5000E-02	2.1000E-01
11	0.	0.	0.	0.	0.	0.	0.	0.	2.0000E-02	7.0000E-02
12	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.0000E-02
13	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.0000E-02
10.0000E-01 10.0000E-01 10.0000E-01 10.0000E-01 9.4500E-01 10.0000E-01 10.0000E-01 10.0000E-01 9.9800E-01 9.4500E-01										

N1/N2	10	11	12	13	14
0	0.	0.	0.	0.	9.9800E-01
1	0.	0.	0.	0.	1.0010E 00
2	0.	0.	0.	0.	10.0000E-01
3	0.	0.	0.	0.	10.0000E-01
4	0.	0.	0.	0.	10.0000E-01
5	0.	0.	0.	0.	10.0000E-01
6	0.	0.	0.	0.	1.0050E 00
7	1.8000E-02	0.	0.	0.	10.0000E-01
8	8.0000E-02	3.0000E-02	0.	0.	10.0000E-01
9	2.0000E-01	9.0000E-02	2.0000E-02	0.	1.0010E 00
10	3.7600E-01	2.2000E-01	9.0000E-02	3.0000E-02	9.9700E-01

SPECTRAL DISTRIBUTION FUNCTION AND RELATED PARAMETERS, CN VIOLET

2000 °K									
V' V"	$\tilde{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	$\phi_1, \tilde{\nu}^6, \text{cm}^{-6}$	$\phi_2, \tilde{\nu}^6, \text{cm}^{-6}$	a, cm	$\int \phi \tilde{\nu}^6 d\lambda \text{ cm}^{-5}$	
7 10	20511.6	4861.1	1.150E-05	1.150E-05	0.	8.714E 20	1.479E-07	0.	
8 11	20532.1	4846.0	9.980E-06	9.980E-06	3.575E 20	7.898E 20	1.505E-02	1.505E-02	1.505E-02
9 12	20578.5	4835.9	5.937E-06	1.037E-06	3.877E 20	6.877E 20	1.645E-02	1.645E-02	1.645E-02
10 13	20710.7	4826.4	4.050E-06	4.050E-06	2.832E 20	1.196E 20	1.732E-02	1.732E-02	1.732E-02
11 14	20728.7	4826.7	3.147E-06	9.411E-06	2.422E 20	2.497E 20	1.032E-02	1.032E-02	1.032E-02
0 2	21709.1	4602.0	6.493E-02	6.493E-02	5.020E 13	7.137E 24	1.371E-02	2.194E 14	2.194E 14
1 3	21873.1	4571.8	5.540E-02	4.389E-02	1.216E 24	6.023E 24	1.422E-02	9.601E 17	9.601E 17
2 4	21902.7	4567.0	2.766E-02	1.791E-02	1.151E 24	3.133E 24	1.478E-02	1.679E 18	1.679E 18
3 5	22009.0	4529.3	1.167E-02	5.976E-03	6.976E 23	1.290E 24	1.440E-02	1.440E-02	1.440E-02
4 6	22167.2	4506.7	4.801E-03	1.957E-03	3.395E 23	5.730E 23	1.610E-02	2.177E 18	2.177E 18
5 7	22266.1	4491.1	2.075E-01	6.210E-04	1.793E 23	2.553E 23	1.687E-02	2.730E 18	2.730E 18
6 8	22376.9	4476.5	9.236E-04	1.476E-04	9.653E 22	1.144E 23	1.775E-02	2.751E 18	2.751E 18
7 9	22377.4	4468.6	4.480E-04	4.358E-05	5.342E 22	5.687E 22	1.875E-02	2.759E 18	2.759E 18
12 14	22406.8	4462.9	2.911E-04	1.798E-07	3.683E 22	1.684E 22	2.695E-02	2.761E 18	2.761E 18
8 10	22411.7	4462.0	2.872E-04	2.872E-04	3.407E 22	3.407E 22	1.940E-02	2.762E 18	2.762E 18
11 13	22439.3	4450.4	2.154E-04	4.484E-07	2.737E 22	2.742E 22	2.468E-02	2.763E 18	2.763E 18
9 11	22451.6	4450.0	2.179E-04	6.076E-06	2.636E 22	2.713E 22	2.124E-02	2.763E 18	2.763E 18
10 12	22457.7	4450.4	1.950E-04	1.30E-06	2.655E 22	2.489E 22	2.261E-02	2.763E 18	2.763E 18
0 1	21757.4	4705.8	1.212E 00	1.212E 00	5.95E 13	2.21E 26	1.649E-02	2.266E 18	2.266E 18
1 2	21862.7	4190.6	6.746E-01	4.65E-01	3.864E 25	1.445E 26	1.728E-02	2.215E 19	2.215E 19
2 3	21956.2	4174.3	2.709E-01	1.111E-01	2.604E 25	5.11E 25	1.814E-02	3.444E 19	3.444E 19
3 4	22035.1	4160.5	1.036E-01	3.794E-01	1.802E 25	1.794E 25	1.916E-02	3.602E 19	3.602E 19
13 14	22044.4	4151.0	8.786E-02	2.789E-02	1.645E 25	1.699E 25	5.216E-02	3.695E 19	3.695E 19
4 5	22100.7	4147.1	4.148E-02	6.717E-02	6.717E 24	8.127E 24	2.031E-02	3.759E 19	3.759E 19
12 13	22107.5	4146.1	3.673E-02	6.170E-02	7.112E 24	7.112E 24	4.174E-02	3.767E 19	3.767E 19
5 6	22150.8	414.6	1.777E-02	2.742E-03	3.720E 24	1.803E 24	2.164E-02	3.805E 19	3.805E 19
11 12	22150.8	4139.7	1.729E-02	1.687E-06	3.434E 24	3.434E 24	1.730E-02	3.808E 19	3.808E 19
6 7	22157.4	4136.3	1.709E-02	2.008E-06	3.434E 24	2.313E-02	1.732E-02	3.808E 19	3.808E 19
10 11	22157.4	4131.1	1.777E-02	6.413E-06	1.744E 24	1.452E 24	1.318E-02	3.827E 19	3.827E 19
7 8	22170.1	4130.6	7.044E-01	2.317E-04	1.172E 24	1.416E 24	2.503E-02	3.827E 19	3.827E 19
9 9	22170.1	4130.6	6.819E-01	1.400E-04	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
13 13	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
0 0	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
12 12	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
1 1	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
11 11	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
2 2	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
10 10	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
3 3	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
4 4	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
6 6	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
7 7	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
8 8	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
9 9	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
10 10	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
11 11	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
12 12	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
13 13	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
14 14	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
15 15	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
16 16	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
17 17	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
18 18	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
19 19	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
20 20	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
21 21	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
22 22	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
23 23	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
24 24	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
25 25	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
26 26	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
27 27	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
28 28	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
29 29	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
30 30	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
31 31	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
32 32	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
33 33	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
34 34	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
35 35	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
36 36	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
37 37	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
38 38	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
39 39	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
40 40	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
41 41	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
42 42	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
43 43	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
44 44	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
45 45	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
46 46	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
47 47	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
48 48	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
49 49	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19
50 50	22170.1	4130.6	6.819E-01	6.819E-01	1.172E 24	1.172E 24	2.503E-02	3.827E 19	3.827E 19

SPECTRAL DISTRIBUTION FUNCTION AND RELATED PARAMETERS, CN VIOLET

5000 °K									
V' V''	$\tilde{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	$\phi_1, \tilde{\nu}^6, \text{cm}^{-6}$	$\phi_2, \tilde{\nu}^6, \text{cm}^{-6}$	a, cm	$\int \phi \tilde{\nu}^6 d\lambda \text{ cm}^{-5}$	
7 10	20511.6	4861.1	2.23E-05	2.11E-05	0.	2.13E 23	1.479E-07	0.	
8 11	20532.1	4846.0	2.23E-05	2.23E-05	1.509E 23	6.272E 23	1.505E-02		2.574E 16
9 12	20552.6	4831.0	2.23E-05	2.23E-05	1.509E 23	6.272E 23	1.505E-02		6.125AE 16
10 13	20573.1	4816.0	2.23E-05	2.11E-05	3.131E 23	4.041E 23	3.131E-02		8.727E 16
11 14	20593.6	4801.0	2.23E-05	2.23E-05	3.626E 23	4.041E 23	7.179E-03		1.133E 17
0 2	21179.3	4672.4	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		2.23E 17
1 3	21199.8	4657.1	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		1.127E 17
2 4	21220.3	4641.8	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		2.773E 16
3 5	21240.8	4626.5	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		4.23E 16
4 6	21261.3	4611.2	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		6.404E 16
5 7	21281.8	4595.9	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		7.069E 16
6 8	21302.3	4580.6	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		7.734E 16
7 9	21322.8	4565.3	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		8.400E 16
8 10	21343.3	4549.9	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		9.065E 16
9 11	21363.8	4534.6	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		9.730E 16
10 12	21384.3	4519.3	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		1.039E 17
11 13	21404.8	4504.0	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		1.105E 17
12 14	21425.3	4488.7	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		1.171E 17
13 15	21445.8	4473.4	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		1.237E 17
14 16	21466.3	4458.1	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		1.303E 17
15 17	21486.8	4442.8	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		1.369E 17
16 18	21507.3	4427.5	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		1.435E 17
17 19	21527.8	4412.2	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		1.501E 17
18 20	21548.3	4396.9	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		1.567E 17
19 21	21568.8	4381.6	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		1.633E 17
20 22	21589.3	4366.3	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		1.699E 17
21 23	21609.8	4351.0	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		1.765E 17
22 24	21630.3	4335.7	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		1.831E 17
23 25	21650.8	4320.4	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		1.897E 17
24 26	21671.3	4305.1	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		1.963E 17
25 27	21691.8	4289.8	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		2.029E 17
26 28	21712.3	4274.5	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		2.095E 17
27 29	21732.8	4259.2	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		2.161E 17
28 30	21753.3	4243.9	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		2.227E 17
29 31	21773.8	4228.6	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		2.293E 17
30 32	21794.3	4213.3	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		2.359E 17
31 33	21814.8	4198.0	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		2.425E 17
32 34	21835.3	4182.7	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		2.491E 17
33 35	21855.8	4167.4	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		2.557E 17
34 36	21876.3	4152.1	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		2.623E 17
35 37	21896.8	4136.8	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		2.689E 17
36 38	21917.3	4121.5	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		2.755E 17
37 39	21937.8	4106.2	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		2.821E 17
38 40	21958.3	4090.9	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		2.887E 17
39 41	21978.8	4075.6	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		2.953E 17
40 42	21999.3	4060.3	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		3.019E 17
41 43	22019.8	4045.0	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		3.085E 17
42 44	22040.3	4029.7	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		3.151E 17
43 45	22060.8	4014.4	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		3.217E 17
44 46	22081.3	3999.1	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		3.283E 17
45 47	22101.8	3983.8	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		3.349E 17
46 48	22122.3	3968.5	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		3.415E 17
47 49	22142.8	3953.2	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		3.481E 17
48 50	22163.3	3937.9	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		3.547E 17
49 51	22183.8	3922.6	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		3.613E 17
50 52	22204.3	3907.3	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		3.679E 17
51 53	22224.8	3892.0	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		3.745E 17
52 54	22245.3	3876.7	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		3.811E 17
53 55	22265.8	3861.4	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		3.877E 17
54 56	22286.3	3846.1	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		3.943E 17
55 57	22306.8	3830.8	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		4.009E 17
56 58	22327.3	3815.5	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		4.075E 17
57 59	22347.8	3800.2	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		4.141E 17
58 60	22368.3	3784.9	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		4.207E 17
59 61	22388.8	3769.6	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		4.273E 17
60 62	22409.3	3754.3	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		4.339E 17
61 63	22429.8	3739.0	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		4.405E 17
62 64	22450.3	3723.7	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		4.471E 17
63 65	22470.8	3708.4	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		4.537E 17
64 66	22491.3	3693.1	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		4.603E 17
65 67	22511.8	3677.8	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		4.669E 17
66 68	22532.3	3662.5	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		4.735E 17
67 69	22552.8	3647.2	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		4.801E 17
68 70	22573.3	3631.9	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		4.867E 17
69 71	22593.8	3616.6	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		4.933E 17
70 72	22614.3	3601.3	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		5.000E 17
71 73	22634.8	3586.0	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		5.066E 17
72 74	22655.3	3570.7	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		5.132E 17
73 75	22675.8	3555.4	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		5.198E 17
74 76	22696.3	3540.1	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		5.264E 17
75 77	22716.8	3524.8	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		5.330E 17
76 78	22737.3	3509.5	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		5.396E 17
77 79	22757.8	3494.2	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		5.462E 17
78 80	22778.3	3478.9	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		5.528E 17
79 81	22798.8	3463.6	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		5.594E 17
80 82	22819.3	3448.3	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		5.660E 17
81 83	22839.8	3433.0	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		5.726E 17
82 84	22860.3	3417.7	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		5.792E 17
83 85	22880.8	3402.4	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		5.858E 17
84 86	22901.3	3387.1	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		5.924E 17
85 87	22921.8	3371.8	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		5.990E 17
86 88	22942.3	3356.5	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		6.056E 17
87 89	22962.8	3341.2	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		6.122E 17
88 90	22983.3	3325.9	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		6.188E 17
89 91	23003.8	3310.6	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		6.254E 17
90 92	23024.3	3295.3	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		6.320E 17
91 93	23044.8	3280.0	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		6.386E 17
92 94	23065.3	3264.7	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		6.452E 17
93 95	23085.8	3249.4	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		6.518E 17
94 96	23106.3	3234.1	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		6.584E 17
95 97	23126.8	3218.8	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		6.650E 17
96 98	23147.3	3203.5	2.23E-05	2.23E-05	2.23E 23	2.23E 23	2.23E-03		

SPECTRAL DISTRIBUTION FUNCTION AND RELATED PARAMETERS, CN VIOLET

		8000 °K									
V'	V*	$\tilde{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	$\phi_1, \tilde{\nu}^{\circ}, \text{cm}^{-1}$	$\phi_2, \tilde{\nu}^{\circ}, \text{cm}^{-1}$	α, cm	$\int \phi \tilde{\nu}^{\circ} d\lambda \text{ cm}^{-5}$		
7	10	20571.6	4441.1	8.810E-03	8.430E-03	0.	0.4927 23	3.740E-03	0.		
8	11	20632.1	4446.8	1.011E-02	1.108E-02	0.427E 23	1.197E 24	1.920E-03	0.420E 16		
9	12	20678.5	4455.9	2.077E-02	5.618E-03	1.164E 24	1.624E 24	4.113E-03	2.464E 17		
10	13	20710.7	4468.4	2.479E-02	6.484E-03	1.495E 24	1.958E 24	4.331E-03	3.413E 17		
11	14	20722.7	4472.2	2.620E-02	5.363E-03	1.829E 24	2.096E 24	4.591E-03	4.204E 17		
0	2	21734.3	4400.0	2.619E-02	2.779E-02	4.592E 22	2.976E 24	3.427E-03	1.655E 18		
1	3	21875.1	4471.6	2.742E-02	5.512E-02	1.949E 24	1.798E 24	3.552E-03	2.197E 18		
2	4	21957.7	4464.0	1.150E-01	6.767E-02	4.413E 24	1.107E 25	3.695E-03	3.393E 18		
3	5	22008.0	4455.3	1.400E-01	5.011E-02	4.141E 24	1.601E 25	3.950E-03	4.371E 18		
4	6	22189.2	4408.7	1.653E-01	6.704E-02	1.173E 25	1.973E 25	4.024E-03	8.735E 18		
5	7	22266.1	4401.1	1.860E-01	6.159E-02	1.478E 25	2.250E 25	4.218E-03	1.182E 19		
6	8	22329.9	4474.5	1.850E-01	4.104E-02	1.784E 25	2.293E 25	4.498E-03	1.416E 19		
7	9	22377.4	4468.8	1.853E-01	3.346E-02	1.907E 25	2.327E 25	4.609E-03	1.619E 19		
12	14	22406.4	4462.9	1.751E-01	1.112E-02	2.079E 25	2.235E 25	4.737E-03	1.748E 19		
8	10	22411.7	4467.0	2.031E-01	3.748E-02	2.172E 25	2.652E 25	4.976E-03	1.769E 19		
9	11	22431.8	4458.4	2.401E-01	1.602E-02	2.403E 25	2.667E 25	4.170E-03	1.659E 19		
10	12	22431.7	4458.4	2.595E-01	2.287E-02	2.981E 25	3.111E 25	5.702E-03	1.707E 19		
0	1	23755.4	4206.6	4.028E-01	4.721E-01	1.359E 23	3.455E 25	4.123E-03	3.446E 19		
1	2	23862.9	4190.4	9.007E-01	5.161E-01	1.681E 23	1.681E 26	4.310E-03	4.322E 19		
2	3	23956.2	4174.3	1.170E 00	5.141E-01	1.145E 26	2.117E 26	4.540E-03	1.688E 19		
3	4	24035.1	4160.5	1.210E 00	4.175E-01	1.527E 26	2.332E 26	4.701E-03	3.569E 19		
4	5	24106.4	4151.0	1.270E 00	2.358E-02	2.763E 26	2.398E 26	1.948E-02	4.292E 19		
5	6	24100.7	4149.3	1.255E 00	3.246E-01	1.024E 26	2.460E 26	5.078E-03	1.193E 20		
6	7	24107.5	4149.1	1.267E 00	5.670E-02	2.370E 26	2.480E 26	1.093E-02	1.232E 20		
7	8	24106.8	4149.0	1.300E 00	2.705E-01	2.498E 26	5.408E 26	2.491E 20	1.418E 20		
8	9	24146.3	4139.7	1.339E 00	6.730E-02	2.528E 26	2.661E 26	4.449E-03	1.455E 20		
9	10	24167.1	4136.6	1.361E 00	2.252E-01	2.270E 26	2.730E 26	5.798E-03	1.545E 20		
10	11	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
11	12	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
12	13	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
13	14	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
14	15	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
15	16	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
16	17	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
17	18	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
18	19	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
19	20	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
20	21	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
21	22	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
22	23	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
23	24	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
24	25	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
25	26	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
26	27	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
27	28	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
28	29	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
29	30	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
30	31	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
31	32	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
32	33	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
33	34	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
34	35	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
35	36	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
36	37	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
37	38	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
38	39	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
39	40	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
40	41	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
41	42	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
42	43	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
43	44	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
44	45	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
45	46	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
46	47	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
47	48	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
48	49	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
49	50	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
50	51	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
51	52	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
52	53	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
53	54	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
54	55	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
55	56	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
56	57	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
57	58	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
58	59	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
59	60	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
60	61	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
61	62	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
62	63	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
63	64	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
64	65	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
65	66	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
66	67	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
67	68	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
68	69	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
69	70	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
70	71	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
71	72	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
72	73	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
73	74	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
74	75	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26	2.364E 26	2.202E-03	1.609E 20		
75	76	24171.1	4136.6	1.371E 00	2.700E-01	2.364E 26					

CN RED								
N1/N2	0	1	2	3	4	5	6	
0	4.9900E-01	3.7000E-01	1.1100E-01	1.8000E-02	2.0000E-03	0.	0.	10.0000E-01
1	3.2100E-01	4.6000E-02	3.4800E-01	2.2300E-01	5.5000E-02	7.0000E-03	0.	10.0000E-01
2	1.2600E-01	2.4200E-01	1.2000E-02	2.0900E-01	2.8800E-01	0.	0.	8.7700E-01
3	4.0000E-02	1.9500E-01	1.0000E-01	8.9000E-02	0.	0.	0.	4.2400E-01
4	1.1000E-02	9.4000E-02	1.8400E-01	0.	0.	0.	0.	2.3900E-01
5	3.0000E-03	3.6000E-02	0.	0.	0.	0.	0.	3.9000E-02
6	0.	0.	0.	0.	0.	0.	0.	0.
	10.0000E-01	9.8300E-01	7.5500E-01	5.3900E-01	3.4500E-01	7.0000E-03	0.	

SPECTRAL DISTRIBUTION FUNCTION AND RELATED PARAMETERS, CN RED

2000°K									
V' V"	$\tilde{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	$\phi_1, \tilde{\nu}^e, \text{cm}^{-1}$	$\phi_2, \tilde{\nu}^e, \text{cm}^{-1}$	a, cm	$\int \phi \tilde{\nu}^e d\lambda \text{ cm}^{-5}$	
6 0	19460.1	5136.7	0.	0.	0.	0.	-4.005E-03	0.	
6 0	17800.2	5617.5	3.122E-05	3.122E-05	0.	0.	-4.937E-20	-4.937E-03	0.
6 1	17417.7	5741.3	6.002E-04	0.	1.670E 20	1.670E 20	-4.267E-03	-5.491E 14	
6 0	16114.7	6205.5	4.115E-04	4.115E-04	0.	7.200E 21	-4.658E-03	5.591E 14	
5 1	15757.8	6346.1	4.740E-04	3.967E-04	1.196E 21	7.269E 21	-4.600E-03	5.242E 13	
6 2	15401.5	6472.9	9.172E-05	0.	1.224E 21	1.224E 21	-4.594E-03	1.019E 16	
3 0	14603.3	6852.2	5.505E-03	5.505E-03	6.914E 18	4.916E 22	-5.056E-02	1.121E 16	
4 1	14072.2	7106.2	4.777E-03	3.741E-03	8.017E 21	4.707E 22	-5.000E-03	4.403E 18	
5 2	13741.7	7277.1	9.107E-04	0.	6.131E 21	6.131E 21	-4.997E-03	7.722E 16	
6 1	13411.7	7456.2	1.742E-04	0.	1.014E 21	1.014E 21	-4.889E-03	8.228E 16	
2 0	12666.2	7895.1	6.535E-07	6.535E-07	0.	2.407E 23	-5.109E-03	6.238E 16	
3 1	12340.9	8040.0	4.083E-02	2.871E-02	4.324E 22	1.456E 23	-5.405E-03	3.202E 17	
4 2	12059.1	8294.6	1.553E-07	7.831E-03	2.363E 22	4.767E 22	-5.358E-03	4.582E 17	
5 3	11751.9	8506.3	2.010E-03	0.	7.823E 22	7.823E 22	-5.338E-03	5.052E 17	
6 4	11444.1	8735.0	5.697E-04	0.	1.283E 21	1.283E 21	-5.277E-03	5.133E 17	
1 0	10903.3	9171.6	6.431E-01	6.431E-01	2.609E 19	1.081E 24	-6.061E-03	2.147E 17	
2 1	10623.7	9412.9	2.431E-01	1.351E-01	1.499E 23	3.464E 23	-5.994E-03	1.492E 18	
3 2	10344.7	9664.8	6.300E-02	1.584E-02	5.778E 22	7.720E 22	-5.970E-03	2.115E 18	
4 3	10066.3	9934.2	1.184E-02	0.	1.232E 22	1.232E 22	-5.864E-03	2.207E 18	
5 4	9788.3	10214.3	2.234E-03	0.	1.705E 21	1.705E 21	-5.788E-03	2.544E 18	
6 5	9510.9	10514.3	2.819E-04	0.	2.101E 20	2.101E 20	-5.733E-03	2.226E 18	
0 0	9114.6	10971.4	3.964E 00	3.964E 00	0.	2.274E 24	-6.708E-03	2.226E 18	
1 1	8840.8	11274.6	6.231E-01	9.000E-02	3.500E 23	3.984E 23	-6.635E-03	5.400E 18	
2 2	8607.6	11617.6	1.582E-01	7.244E-03	6.138E 22	6.431E 22	-6.563E-03	6.024E 18	
3 3	8354.9	11969.0	4.444E-07	1.529E-02	9.915E 21	1.512E 22	-6.490E-03	6.125E 18	
4 4	8124.7	12342.7	8.360E-03	0.	2.368E 21	2.368E 21	-6.418E-03	6.125E 18	
5 5	7891.0	12737.2	7.564E-04	0.	1.768E 20	1.768E 20	-6.346E-03	5.154E 18	
6 6	7599.9	13156.1	1.230E-06	0.	2.381E 19	2.381E 19	-6.274E-03	6.154E 18	
0 1	7374.1	13546.2	7.471E-02	7.219E 00	5.277E 21	5.140E 21	-6.202E-03	7.544E 18	
1 2	6844.7	14619.8	1.424E 00	8.278E-01	6.136E 22	1.456E 23	-7.329E-03	6.699E 18	
2 3	6117.8	15110.8	4.046E-01	1.185E-01	2.250E 22	3.413E 22	-7.242E-03	7.327E 18	
3 4	6311.3	14546.2	7.471E-02	5.277E 21	5.277E 21	5.140E 21	-7.148E-03	7.544E 18	
4 5	6105.4	16219.4	1.481E-02	0.	8.132E 20	8.132E 20	-7.088E-03	7.423E 18	
5 6	5940.1	16834.6	2.111E-03	0.	9.274E 19	9.274E 19	-7.008E-03	7.425E 18	
0 2	5686.0	18776.9	1.060E 00	1.060E 00	1.785E 22	1.785E 22	-6.940E-03	7.544E 18	
1 3	4854.9	20597.9	7.401E-01	2.647E 21	1.033E 22	1.033E 22	-6.859E-03	7.409E 18	
2 4	4654.2	21448.9	3.631E-01	2.111E-01	1.545E 21	3.690E 21	-6.809E-03	7.530E 18	
3 5	4454.1	22481.3	7.112E-02	5.558E 20	5.558E 20	5.558E 20	-6.804E-03	7.546E 18	
4 6	4254.1	23506.7	1.407E-02	8.311E 19	8.311E 19	7.914E 19	-6.791E-03	7.544E 18	
0 3	3984.2	24611.6	1.944E-01	1.944E-01	0.	1.615E 20	-6.737E-03	7.548E 18	
1 4	2891.1	34586.6	7.001E-01	1.673E-01	2.205E 19	1.169E 20	-9.747E-04	7.590E 18	
2 5	2716.9	36800.0	1.407E-02	1.594E 19	1.594E 19	1.594E 19	-9.104E-03	7.551E 18	
3 6	2543.1	39325.1	7.886E-03	0.	2.133E 18	2.133E 18	-9.081E-03	7.551E 18	
0 4	1102.7	90690.6	2.466E-02	2.466E-02	0.	4.432E 16	-1.000E-02	7.551E 18	
1 5	954.0	124618.4	2.456E-02	2.359E-02	1.736E 15	2.152E 16	-1.004E-02	7.551E 18	
2 6	806.0	124074.2	5.852E-03	0.	1.604E 15	1.604E 15	-1.054E-02	7.551E 18	

***** SPECTRAL DISTRIBUTION FUNCTION AND RELATED PARAMETERS, CN RED *****

5000°K									
V' V"	$\tilde{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	$\phi_1, \tilde{\nu}^e, \text{cm}^{-1}$	$\phi_2, \tilde{\nu}^e, \text{cm}^{-1}$	a, cm	$\int \phi \tilde{\nu}^e d\lambda \text{ cm}^{-5}$	
6 0	19460.1	5136.7	0.	0.	0.	0.	-1.607E-03	0.	
5 0	17800.2	5617.5	7.456E-04	7.654E-04	0.	2.415E 22	-1.724E-03	0.	
6 1	17417.7	5741.3	3.959E-04	0.	1.105E 22	1.105E 22	-1.705E-03	0.072E 16	
6 0	16114.7	6205.5	4.916E-03	4.874E-03	7.331E 20	8.609E 22	-1.705E-03	3.788E 16	
5 1	15757.8	6346.1	1.226E-02	9.727E-03	3.874E 22	1.077E 23	-1.842E-03	1.210E 17	
6 2	15401.5	6472.9	6.349E-03	0.	6.474E 22	8.474E 22	-1.827E-03	3.105E 17	
3 0	14603.3	6852.2	3.210E-02	1.115E-02	8.975E 21	2.871E 23	-2.022E-03	4.529E 17	
4 1	14072.2	7106.2	6.431E-02	4.431E-02	1.781E 23	4.722E 23	-2.000E-03	7.801E 17	
5 2	13741.7	7277.1	1.135E-02	0.	2.111E 23	2.111E 23	-1.978E-03	1.133E 18	
6 1	13411.7	7456.2	1.610E-02	0.	9.156E 22	9.156E 22	-1.956E-03	1.917E 18	
2 0	12666.2	7895.1	1.784E-01	1.747E-01	1.499E 22	7.365E 23	-2.207E-03	1.778E 18	
3 1	12340.9	8040.0	2.431E-01	1.675E-01	3.247E 23	9.042E 23	-2.183E-03	2.755E 18	
4 2	12059.1	8294.6	2.228E-01	7.276E-02	3.993E 23	6.841E 23	-2.159E-03	4.014E 18	
5 3	11751.9	8506.3	1.149E-01	0.	3.026E 23	3.026E 23	-2.135E-03	5.016E 18	
6 4	11444.1	8735.0	5.930E-02	0.	1.355E 23	1.355E 23	-2.111E-03	5.401E 18	
1 0	10903.3	9171.6	8.036E-01	8.036E-01	3.038E 22	1.381E 24	-2.425E-03	5.782E 18	
2 1	10623.7	9412.9	7.702E-01	3.613E-01	6.098E 23	1.120E 24	-2.399E-03	8.030E 18	
3 2	10344.7	9664.8	4.875E-01	6.967E-02	4.876E 23	5.974E 23	-2.372E-03	9.960E 18	
4 3	10066.3	9934.2	2.497E-01	0.	2.598E 23	2.598E 23	-2.346E-03	1.104E 19	
5 4	9788.3	10214.3	1.281E-01	0.	1.127E 23	1.127E 23	-2.319E-03	1.154E 19	
6 5	9510.9	10514.3	6.580E-02	0.	4.870E 22	4.870E 22	-2.293E-03	1.176E 19	
0 0	9114.6	10971.4	7.315E 00	2.240E 00	1.445E 22	1.327E 24	-2.683E-03	1.189E 19	
1 1	8840.8	11274.6	1.240E 00	1.240E 00	5.475E 23	6.280E 23	-2.675E-03	1.469E 19	
2 2	8607.6	11617.6	6.781E-01	1.943E-02	2.479E 23	2.758E 23	-2.625E-03	1.609E 19	
3 3	8354.9	11969.0	4.316E-01	6.459E-02	1.178E 23	1.467E 23	-2.598E-03	1.674E 19	
4 4	8107.7	12342.7	2.704E-01	0.	6.243E 22	6.243E 22	-2.567E-03	1.710E 19	
5 5	7851.0	12737.2	1.125E-01	0.	2.634E 22	2.634E 22	-2.538E-03	1.727E 19	
6 6	7599.9	13156.1	5.741E-02	0.	1.107E 22	1.107E 22	-2.509E-03	1.734E 19	
0 1	7374.1	13546.2	1.872E 00	1.838E 00	1.760E 21	2.342E 23	-2.964E-03	1.739E 19	
1 2	6844.7	14619.8	1.489E 00	1.019E 00	9.813E 22	2.049E 23	-2.932E-03	1.832E 19	
2 3	6117.8	15110.8	3.389E 00	3.702E-01	8.540E 22	1.167E 23	-2.899E-03	1.880E 19	
3 4	6105.4	16219.4	7.125E-01	0.	4.864E 22	4.864E 22	-2.867E-03	1.922E 19	
4 5	6105.4	16219.4	3.477E-01	0.	2.020E 22	2.020E 22	-2.835E-03	1.940E 19	
5 6	5940.1	16834.6	1.808E-01	0.	8.338E 21	8.338E 21	-2.803E-03	1.949E 19	
0 2	5686.0	18776.9	6.310E-01	6.168E-01	2.369E 20	1.054E 22	-3.310E-03	1.955E 19	
1 3	4854.9	20597.9	1.054E 00	7.331E-01	4.252E 21	1.385E 22	-3.274E-03	1.960E 19	
2 4	4654.2	21448.9	1.110E 00	6.433E-01	5.551E 21	1.129E 22	-3.238E-03	1.968E 19	
3 5	4454.1	22481.3	5.701E-01	0.	4.508E 21	4.508E 21	-3.202E-03	1.976E 19	
4 6	4254.1	23506.7	3.012E-01	0.	1.768E 21	1.768E 21	-3.166E-03	1.979E 19	
0 3	3984.2	24611.6	1.184E-01	1.184E-01	9.843E 19	3.748E 21	-3.148E-03	1.981E 19	
1 4	2891.1	34586.6	7.025E-01	7.025E-01	3.482E 19	1.543E 20	-3.107E-03	1.981E 19	
2 5	2716.9	36800.0	1.383E-01	0.	5.563E 19	5.563E 19	-3.666E-03	1.981E 19	
3 6	2543.1	39325.1	7.215E-02	0.	1.950E 19	1.950E 19	-3.624E-03	1.981E 19	
0 4	1102.7	90690.6	2.423E-02	1.423E-02	4.810E 14	2.620E 16	-4.277E-03	1.981E 19	
1 5	954.0	124618.4	3.695E-02	2.246E-02	5.048E 15	2.786E 16	-4.277E-03	1.981E 19	
2 6	806.0	124074.2	1.960E-02	0.	5.373E 15	5.373E 15	-4.224E-03	1.981E 19	

***** SPECTRAL DISTRIBUTION FUNCTION AND RELATED PARAMETERS, CN RED *****

8000°K									
V'	V"	$\tilde{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	$\phi_1 \tilde{\nu}^5, \text{cm}^{-6}$	$\phi_2 \tilde{\nu}^5, \text{cm}^{-6}$	a, cm	$\int \phi \tilde{\nu}^5 d\lambda \text{ cm}^{-5}$
6	0	15440.1	5134.7	0.	0.	0.	0.	-1.001E-03	0.
5	0	17811.2	4617.3	1.352E-03	1.352E-03	0.	0.	-1.078E-03	0.
6	1	17417.7	4741.3	6.951E-04	0.	2.500E 22	2.500E 22	-1.066E-03	4.089E 16
4	0	16114.7	6205.5	7.317E-03	7.317E-03	3.850E 21	1.295E 23	-1.164E-03	6.232E 16
5	1	15757.8	6344.1	2.204E-02	1.711E-02	7.481E 22	3.378E 23	-1.151E-03	2.321E 17
6	2	15401.5	6492.9	1.461E-02	0.	1.952E 23	1.952E 23	-1.137E-03	6.132E 17
3	0	14441.3	6947.9	4.276E-02	3.813E-02	4.128E 22	1.818E 23	-1.204E-03	1.053E 18
4	1	14077.2	7106.2	7.741E-02	6.574E-02	2.194E 23	7.260E 23	-1.250E-03	1.531E 18
2	0	13711.7	7277.1	6.104E-02	0.	4.164E 23	4.164E 23	-1.236E-03	2.481E 18
6	1	13411.7	7459.2	4.093E-02	0.	2.382E 23	2.382E 23	-1.222E-03	3.051E 18
5	2	12663.2	7895.1	1.934E-01	1.773E-01	6.655E 22	7.987E 23	-1.380E-03	3.636E 18
3	1	12363.9	8019.0	4.267E-01	1.988E-01	4.543E 23	1.164E 24	-1.356E-03	4.823E 18
4	2	12099.1	8216.6	3.517E-01	1.366E-01	6.006E 23	1.000E 24	-1.349E-03	6.537E 18
5	3	11751.9	8509.1	2.326E-01	0.	6.126E 23	6.126E 23	-1.334E-03	8.403E 18
6	4	11464.1	8719.0	1.537E-01	0.	3.465E 23	3.465E 23	-1.319E-03	9.455E 18
1	0	10943.3	9111.6	7.477E-01	6.743E-01	1.273E 23	1.270E 24	-1.257E-03	1.039E 19
2	1	10671.7	9412.9	6.747E-01	1.606E-01	7.068E 23	1.214E 24	-1.449E-03	1.260E 19
1	2	10344.7	9564.1	6.747E-01	1.090E-01	6.423E 23	8.268E 23	-1.482E-03	1.507E 19
4	1	10096.3	9844.2	4.444E-01	0.	4.428E 23	4.428E 23	-1.466E-03	1.874E 19
5	2	9740.3	10216.1	2.731E-01	0.	2.587E 23	2.582E 23	-1.450E-03	1.773E 19
6	3	9511.2	10544.3	1.933E-01	0.	1.435E 23	1.435E 23	-1.433E-03	1.811E 19
1	0	9181.4	11111.6	1.587E-01	1.584E 00	6.475E 22	9.475E 22	-1.425E-03	2.875E 19
1	1	8860.4	11745.6	1.213E 00	1.046E-01	5.164E 23	5.871E 23	-1.459E-03	2.104E 19
2	2	8601.6	11617.6	8.156E-01	1.711E-02	3.277E 23	3.317E 23	-1.461E-03	2.251E 19
3	3	8354.9	11947.0	6.416E-01	1.272E 23	2.182E 23	2.182E 23	-1.463E-03	2.538E 19
4	4	8107.7	12341.6	4.234E-01	1.196E 23	1.196E 23	1.196E 23	-1.465E-03	2.399E 19
5	5	7931.0	12717.2	2.716E-01	0.	6.574E 22	6.574E 22	-1.566E-03	2.434E 19
6	6	7759.9	13151.6	1.831E-01	0.	3.585E 22	1.957E 22	-1.552E-03	2.455E 19
1	0	7477.2	14110.3	1.245E 00	2.245E 00	2.245E 21	1.704E 23	-1.452E-03	2.274E 19
1	2	6844.7	14609.8	1.701E 00	6.677E-01	9.712E 22	1.813E 23	-1.832E-03	2.514E 19
1	4	6817.8	15117.6	1.551E 00	3.757E-01	1.297E 23	1.297E 23	-1.472E-03	2.601E 19
1	2	6574.1	15696.2	1.031E 00	7.427E 22	6.927E 22	6.927E 22	-1.792E-03	2.652E 19
4	5	6319.4	16219.4	6.715E-01	0.	3.889E 22	3.889E 22	-1.772E-03	2.682E 19
5	6	6043.1	16856.8	4.643E-01	0.	1.952E 22	1.952E 22	-1.752E-03	2.699E 19
6	7	5909.0	17216.4	4.169E-01	4.267E-01	1.467E 21	6.600E 21	-2.009E-03	2.718E 19
1	3	5679.9	17894.9	3.596E-01	6.151E-01	4.407E 21	1.252E 22	-2.409E-03	2.727E 19
2	4	5465.2	18656.9	1.675E 00	5.777E-01	6.556E 21	1.224E 22	-2.024E-03	2.731E 19
3	5	5265.1	19561.3	2.084E-01	0.	6.280E 21	6.280E 21	-2.001E-03	2.760E 19
4	6	5074.5	20644.7	3.167E-01	0.	3.180E 21	3.180E 21	-1.978E-03	2.745E 19
5	7	4891.2	21841.5	1.747E-01	7.761E-02	3.926E 19	1.010E 20	-2.143E-03	2.760E 19
6	8	4715.1	23215.5	1.655E-01	1.739E-01	4.109E 19	1.481E 20	-2.317E-03	2.759E 19
1	4	4547.7	24781.0	1.201E 00	3.	6.851E 19	6.851E 19	-2.291E-03	2.751E 19
2	5	4384.1	26592.1	1.145E-01	3.	1.097E 19	1.097E 19	-2.265E-03	2.751E 19
3	6	4122.7	28666.0	1.132E-02	9.345E-01	6.253E 15	2.385E 16	-2.700E-03	2.751E 19
4	7	3964.0	30981.6	3.377E-02	7.427E-02	6.828E 15	2.547E 16	-2.670E-03	2.751E 19
5	8	3810.0	33576.2	7.361E-02	0.	6.253E 15	6.253E 15	-2.640E-03	2.751E 19

***** SPECTRAL DISTRIBUTION FUNCTION AND RELATED PARAMETERS, CN RED *****

11,000°K									
V'	V"	$\tilde{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	$\phi_1 \tilde{\nu}^5, \text{cm}^{-6}$	$\phi_2 \tilde{\nu}^5, \text{cm}^{-6}$	a, cm	$\int \phi \tilde{\nu}^5 d\lambda \text{ cm}^{-5}$
6	0	15440.1	5134.7	0.	0.	0.	0.	-1.782E-04	0.
5	0	17811.2	4617.3	1.577E-03	1.577E-03	0.	0.	-1.737E-04	0.
6	1	17417.7	4741.3	1.177E-03	0.	2.266E 22	2.266E 22	-1.769E-04	5.030E 16
4	0	16114.7	6205.5	7.317E-03	7.317E-03	7.179E 21	1.475E 23	-1.846E-04	1.280E 17
5	1	15757.8	6344.1	2.204E-02	1.711E-02	4.219E 22	1.991E 23	-1.874E-04	2.701E 17
6	2	15401.5	6492.9	1.461E-02	0.	2.982E 23	2.982E 23	-1.873E-04	6.645E 17
3	0	14441.3	6947.9	4.276E-02	3.813E-02	7.476E 22	4.113E 23	-1.919E-04	1.423E 18
4	1	14077.2	7106.2	7.741E-02	6.574E-02	2.652E 23	8.090E 23	-1.902E-04	1.966E 18
5	2	13711.7	7277.1	6.104E-02	0.	5.702E 23	5.702E 23	-1.891E-04	3.081E 18
6	3	13411.7	7459.2	4.093E-02	0.	3.331E 23	3.331E 23	-1.870E-04	3.833E 18
1	0	12663.2	7895.1	1.934E-01	1.810E-01	1.262E 23	7.484E 23	-1.901E-03	4.763E 18
3	1	12363.9	8019.0	4.267E-01	1.964E-01	5.014E 23	1.202E 24	-1.924E-04	5.975E 18
4	2	12099.1	8216.6	3.517E-01	1.466E-01	7.855E 23	1.216E 24	-1.914E-04	7.950E 18
5	3	11751.9	8509.1	2.326E-01	0.	7.727E 23	7.727E 23	-1.905E-04	1.009E 19
6	4	11464.1	8719.0	1.537E-01	0.	4.694E 23	4.694E 23	-1.893E-04	1.144E 19
1	0	10943.3	9111.6	6.983E-01	5.614E-01	2.133E 23	1.166E 24	-1.102E-03	1.289E 19
2	1	10671.7	9412.9	6.117E-01	1.324E-01	7.316E 23	1.210E 24	-1.090E-03	1.512E 19
3	2	10344.7	9564.1	7.305E-01	1.295E 01	7.623E 23	8.994E 23	-1.078E-03	1.758E 19
4	3	10096.3	9844.2	5.404E-01	0.	5.622E 23	5.622E 23	-1.066E-03	1.964E 19
5	4	9740.3	10216.1	4.090E-01	0.	3.518E 23	3.518E 23	-1.054E-03	2.078E 19
6	5	9511.2	10544.3	2.767E-01	0.	2.193E 23	2.193E 23	-1.042E-03	2.159E 19
1	1	8601.6	11617.6	1.401E 00	1.209E 00	1.106E 23	8.051E 23	-1.227E-03	2.231E 19
2	2	8354.9	11947.0	1.120E 00	6.705E-02	5.000E 23	5.422E 23	-1.206E-03	2.432E 19
3	3	8107.7	12341.6	7.790E-02	1.790E-02	3.362E 23	3.435E 23	-1.193E-03	2.575E 19
4	4	7891.0	12717.2	4.234E-01	1.047E-01	2.421E 23	2.478E 23	-1.180E-03	2.670E 19
5	5	7691.2	13151.6	3.167E-01	0.	1.507E 23	1.507E 23	-1.167E-03	2.763E 19
6	6	7477.2	13696.2	1.938E-01	0.	9.138E 22	9.138E 22	-1.154E-03	2.917E 19
1	0	7159.9	14110.3	2.954E-01	0.	5.691E 22	5.691E 22	-1.141E-03	3.022E 19
2	1	6944.7	14609.8	1.137E 00	7.402E-01	1.966E 22	1.427E 23	-1.147E-03	3.086E 19
1	2	6644.7	15117.6	1.564E 00	7.224E-01	8.652E 22	1.608E 23	-1.133E-03	3.200E 19
2	3	6344.7	15696.2	1.498E 00	3.414E-01	9.716E 22	1.298E 23	-1.118E-03	3.297E 19
3	4	6043.1	16219.4	1.103E 00	0.	7.567E 22	7.567E 22	-1.103E-03	3.374E 19
4	5	5740.3	16856.8	8.223E-01	0.	4.517E 22	4.517E 22	-1.089E-03	3.508E 19
5	6	5465.2	17456.8	6.100E-01	0.	2.680E 22	2.680E 22	-1.074E-03	3.607E 19
6	7	5265.1	18061.3	4.234E-01	3.564E-01	1.311E 21	8.115E 21	-1.059E-03	3.671E 19
1	3	4854.9	20547.9	5.977E-01	5.121E-01	5.042E 21	1.175E 22	-1.048E-03	3.716E 19
2	4	4652.7	21865.4	1.184E 00	5.199E-01	6.790E 21	1.208E 22	-1.042E-03	3.724E 19
3	5	4454.1	23504.7	1.251E-01	0.	6.914E 21	6.914E 21	-1.035E-03	3.753E 19
4	6	4254.5	25304.7	6.604E-01	0.	3.918E 21	3.918E 21	-1.039E-03	3.719E 19
5	7	4066.2	26213.6	1.741E-01	5.914E-02	9.547E 19	1.464E 20	-1.046E-03	3.747E 19
6	8	3881.4	28215.5	1.741E-01	1.417E-01	7.757E 19	1.675E 20	-1.056E-03	3.748E 19
1	4	3716.9	30406.0	1.070E-01	0.	8.328E 19	8.328E 19	-1.066E-03	3.747E 19
2	5	3563.1	32613.6	1.564E-01	0.	4.230E 19	4.230E 19	-1.047E-03	3.747E 19
3	6	3410.7	35072.1	7.211E-02	7.505E-03	2.427E 18	3.974E 18	-1.066E-03	3.748E 19
4	7	3260.0	37840.7	1.327E-02	1.240E-02	2.402E 18	2.402E 18	-1.042E-03	3.748E 19
5	8	3110.0	40816.2	7.869E-02	0.	7.864E 15	7.864E 15	-1.020E-03	3.748E 19

N₂ FIRST POSITIVE

N1/N2	0	1	2	3	4	5	6	7	8	9
0	3.3816E-01	3.2480E-01	1.8996E-01	8.8567E-02	3.6486E-02	1.3990E-02	5.1465E-03	1.3513E-03	5.5953E-04	2.3477E-04
1	4.0645E-01	2.3100E-03	1.0321E-01	1.7820E-01	1.4502E-01	8.6473E-02	4.3670E-02	1.9997E-02	8.6259E-03	3.5591E-03
2	1.9746E-01	2.1203E-01	1.1320E-01	1.2048E-03	7.7240E-02	1.2750E-01	1.1271E-01	7.4955E-02	4.2471E-02	2.1815E-02
3	5.0143E-02	2.9871E-01	3.8683E-02	1.6230E-01	3.2267E-02	9.0504E-03	6.9100E-02	1.0094E-01	9.0789E-02	5.5351E-02
4	7.1905E-03	1.3180E-01	2.7381E-01	1.8065E-03	1.1388E-01	8.8227E-02	5.2273E-03	1.7777E-02	5.3507E-02	4.5448E-02
5	5.8713E-04	2.7286E-02	2.1065E-01	1.8081E-01	4.7796E-02	4.2616E-02	1.3567E-01	3.9289E-02	1.2238E-02	2.4533E-02
6	2.6156E-05	2.9248E-03	6.1481E-02	2.6054E-01	8.3053E-02	1.0404E-01	3.1711E-03	8.3781E-02	6.3571E-02	1.2333E-02
7	5.6982E-07	1.6132E-04	8.4620E-03	1.0650E-01	2.7061E-01	1.9163E-02	1.2905E-01	6.7482E-03	3.9451E-02	7.7327E-02
8	4.7221E-09	4.1737E-06	5.6752E-04	1.8566E-02	1.5609E-01	2.4380E-01	2.7659E-05	1.1586E-01	3.6330E-02	3.3521E-01
9	6.5074E-12	3.9626E-08	1.7188E-05	1.4947E-03	3.4197E-02	2.0292E-01	1.9185E-01	1.5939E-02	7.5522E-02	5.7727E-02
10	2.7802E-15	6.0522E-11	1.8482E-07	5.2408E-05	3.2741E-03	5.9689E-02	2.4021E-01	1.2991E-01	5.2188E-02	3.7545E-02
11	8.1140E-16	3.3224E-14	3.0349E-10	6.3215E-07	1.3176E-04	6.2985E-03	8.2650E-02	2.5301E-01	7.2055E-02	4.7732E-02
12	2.5148E-16	9.0349E-16	2.1370E-13	1.1012E-09	1.7690E-06	2.8895E-04	1.0992E-02	1.1398E-01	2.6978E-01	2.5506E-02
13	5.9625E-17	1.6620E-16	4.3337E-16	1.0512E-12	3.2357E-09	4.2896E-06	5.7172E-04	1.7773E-02	1.7795E-01	2.3751E-01
14	3.4245E-16	4.4756E-17	4.5621E-16	9.7232E-16	4.0476E-12	8.1628E-09	9.3348E-06	1.3435E-03	2.7218E-02	1.4258E-01
15	1.7005E-16	2.5344E-16	2.7160E-17	4.1387E-16	2.8052E-15	1.2846E-11	1.8585E-08	1.5557E-05	1.7849E-03	3.4215E-02
16	5.1720E-18	7.4160E-17	2.2234E-16	4.9038E-17	6.3948E-17	4.5515E-14	3.4427E-11	3.7813E-08	3.4803E-05	2.3727E-03
17	2.0782E-16	1.5676E-17	2.1122E-16	5.4009E-16	2.1696E-15	2.4366E-15	2.1664E-13	5.3321E-11	7.2030E-08	5.1314E-05
18	1.8889E-16	1.2423E-16	2.4354E-17	9.1758E-17	1.2590E-16	3.5970E-16	3.0809E-17	4.8996E-13	1.9965E-10	1.2574E-07
19	1.0678E-17	1.1379E-16	1.9019E-17	2.6078E-16	9.9179E-16	3.8594E-15	4.2273E-15	8.3215E-15	1.7193E-12	4.3255E-10
20	7.5363E-17	2.8873E-18	3.7751E-16	2.6077E-15	9.2651E-17	9.5416E-17	9.2691E-16	1.7885E-15	1.7898E-14	1.1235E-12
21	1.7325E-16	2.6883E-17	4.2656E-16	4.0688E-16	4.6754E-16	3.9655E-15	3.9524E-15	2.1349E-15	7.6603E-17	3.5194E-03
1.0000E-00	1.0000E-00	1.0000E-00	1.0000E-00	1.0000E-00	1.0000E-00	1.0001E-00	1.0001E-00	1.0001E-00	1.0001E-00	1.0001E-00
N1/N2	10	11	12	13	14	15	16			
0	8.4031E-05	3.0383E-05	1.1135E-05	4.1473E-06	1.5779E-06	6.0831E-07	2.4019E-07	9.9999E-01		
1	1.4631E-03	5.9070E-04	2.3802E-04	9.6271E-05	3.9251E-05	1.6185E-05	6.7658E-06	10.3000E-01		
2	1.0529E-02	4.8845E-03	2.2119E-03	9.8815E-04	4.3920E-04	1.9525E-04	8.7217E-05	9.9992E-01		
3	3.9171E-02	2.1871E-02	1.1508E-02	5.8243E-03	2.8759E-03	1.3495E-03	6.7625E-04	9.9937E-01		
4	7.5106E-02	5.5103E-02	3.5667E-02	2.1275E-02	1.2016E-02	6.5431E-03	3.4791E-03	9.9520E-01		
5	5.8198E-02	7.0564E-02	6.3384E-02	4.7949E-02	3.2525E-02	2.0514E-02	1.2313E-02	9.9373E-01		
6	2.4600E-03	2.8099E-02	5.2611E-02	6.0394E-02	5.4340E-02	4.2250E-02	2.9867E-02	9.9486E-01		
7	3.8328E-02	2.7384E-03	6.4003E-03	7.9121E-02	4.7031E-07	5.2119E-02	4.7183E-02	8.3040E-01		
8	6.0770E-02	5.7211E-02	1.8520E-02	8.6772E-05	9.5049E-03	2.8339E-02	4.1643E-02	7.7568E-01		
9	3.1940E-04	3.3048E-02	5.9448E-02	3.7289E-02	7.9625E-03	3.6806E-04	1.1202E-02	7.4340E-01		
10	8.3700E-02	1.3068E-02	9.5758E-03	4.6033E-02	4.8138E-02	2.2815E-02	3.0276E-03	7.4533E-01		
11	9.0118E-03	7.8966E-02	3.5274E-02	6.6872E-05	2.9442E-02	4.6325E-02	3.5766E-02	7.4279E-01		
12	1.1086E-01	2.6171E-05	5.8457E-02	5.4227E-02	5.7104E-02	7.8299E-03	3.3974E-02	7.4509E-01		
13	4.6872E-03	1.1561E-01	9.3424E-03	3.2354E-02	6.1513E-02	2.0820E-02	1.3633E-04	6.6831E-01		
14	2.3145E-01	7.7329E-04	1.0292E-01	2.9820E-02	1.0861E-02	5.5268E-02	3.6818E-02	6.7856E-01		
15	2.1544E-01	1.9452E-01	1.3301E-02	7.8290E-02	5.2260E-02	5.5460E-04	3.9360E-02	6.3454E-01		
16	5.3947E-02	2.4432E-01	1.5158E-01	3.6337E-02	4.9346E-02	6.8675E-02	2.7424E-03	6.1007E-01		
17	4.4801E-03	7.1852E-02	2.6718E-01	1.0776E-01	6.3288E-02	2.3488E-02	7.4348E-02	6.1226E-01		
18	1.0294E-04	6.6745E-03	9.2613E-02	2.8243E-01	6.7723E-02	8.7269E-02	6.1701E-03	5.4298E-01		
19	2.1785E-07	1.6584E-04	9.6153E-03	1.1595E-01	2.8900E-01	3.5244E-02	1.0409E-01	5.5407E-01		
20	8.8458E-10	3.5155E-07	2.5781E-04	1.3450E-02	1.4143E-01	2.8644E-01	1.2813E-02	4.5439E-01		
21	7.4958E-12	1.7175E-09	5.4388E-07	3.8848E-04	1.8331E-02	1.6845E-01	2.7497E-01	4.5214E-01		
1.0001E-00	1.0001E-00	1.0001E-00	1.0001E-00	1.0001E-00	1.0510E-00	9.7492E-01	7.7087E-01			

2000°K									
$V^+ V^-$	$\bar{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	$\phi_1 \bar{\nu}^6, \text{cm}^{-6}$	$\phi_2 \bar{\nu}^6, \text{cm}^{-6}$	a, cm	$\int \phi \bar{\nu}^6 d\lambda \text{ cm}^{-5}$	
14 10	11320.6	8633.5	4.2307E-01	4.4087E-08	8.9238E 23	8.9238E 23	6.7704E-03	6.7779E 18	
11 12	11413.6	8761.5	2.3082E-01	6.4397E-07	5.0981E 23	5.0982E 23	6.8916E-03	5.4700E 18	
7 7	11451.3	8732.6	1.8011E-01	1.0686E-05	4.0512E 23	4.0512E 23	6.8514E-03	5.6017E 18	
2 1	11505.9	8691.2	2.2515E-01	9.9190E-02	2.9224E 23	5.2238E 23	6.7587E-03	6.2040E 18	
12 13	11713.9	8536.9	5.7000E-02	4.9138E-07	1.4726E 23	1.4726E 23	7.0077E-03	6.2111E 18	
8 8	11748.7	8511.6	5.0960E-02	4.9138E-07	1.4135E 23	1.4140E 23	6.9155E-03	6.2316E 18	
3 2	11768.7	8511.6	5.0960E-02	4.9138E-07	1.1913E 23	1.3402E 23	6.9155E-03	6.2316E 18	
9 9	11900.0	8340.3	2.8192E-03	1.3270E-05	3.0592E 22	3.0431E 22	7.1746E-03	6.5501E 18	
4 3	11990.7	8322.9	8.8043E-03	2.1581E-07	2.6487E 22	2.6488E 22	7.2380E-03	6.5631E 18	
13 14	12015.0	8118.7	2.3460E-03	5.5624E-06	7.9449E 21	9.4435E 21	7.1100E-03	6.3846E 18	
5 4	12232.1	8175.2	2.8192E-03	7.3046E-04	6.9967E 21	7.9652E 21	7.3559E-03	6.3846E 18	
10 10	12259.6	8156.8	1.5903E-03	7.6769E-08	5.5530E 21	5.5539E 21	7.4336E-03	6.3909E 18	
6 5	12473.0	8017.3	8.6341E-04	5.1104E-04	1.2515E 21	3.2511E 21	7.2871E-03	6.3919E 18	
11 11	12529.7	7981.0	5.7817E-04	2.2133E-08	9.8858E 20	9.8857E 20	7.6450E-03	6.3930E 18	
15 16	12620.6	7823.6	2.4447E-04	2.2489E-04	5.2787E 20	1.4775E 21	7.4678E-03	6.3942E 18	
7 6	12713.5	7865.6	3.4990E-04	5.8844E-07	4.7857E-02	3.0522E 21	7.7618E-03	6.3946E 18	
12 12	12800.4	7812.3	1.8051E-04	5.8844E-07	4.0529E 21	4.6734E 21	7.2258E-03	6.3952E 18	
2 0	12938.4	7719.7	9.0313E-02	7.0477E-05	4.2639E 21	4.2673E 21	7.6626E-03	6.4380E 18	
8 7	12953.9	7600.1	3.8573E-02	1.2661E-07	1.9225E 21	1.9225E 21	7.9013E-03	6.4417E 18	
13 13	13071.7	7550.1	3.8573E-02	1.2661E-07	1.0797E 21	3.5861E 21	7.7394E-03	6.4117E 18	
3 1	13153.2	7579.1	5.1249E-02	1.7069E-05	2.7030E 21	2.7039E 21	7.8731E-03	6.7506E 18	
9 8	13194.2	7494.0	1.0091E-01	1.0087E-02	1.4064E 22	1.6254E 22	8.2410E-03	6.9294E 18	
14 14	13344.0	7481.1	1.7069E-02	1.6899E-08	9.6304E 22	1.0212E 23	7.5749E-03	6.9409E 18	
4 2	13367.0	7481.1	2.8476E-02	2.9829E-06	1.0110E 23	1.1012E 23	8.1012E-03	6.9897E 18	
10 9	13473.4	7463.4	1.7197E-02	2.9829E-06	3.5102E-10	2.6195E 22	7.7693E-03	7.0403E 18	
5 3	13580.1	7363.7	8.8613E-03	3.0441E-03	3.6486E 22	5.5808E 22	8.5145E-03	7.0501E 18	
15 15	13617.2	7343.6	6.6920E-03	3.5102E-10	2.6195E 22	2.8195E 22	8.3495E-03	7.0610E 18	
11 10	13675.4	7312.4	4.3107E-03	2.6655E-07	2.8195E 22	1.5474E 22	7.9791E-03	7.1947E 18	
6 4	13792.5	7250.3	2.2477E-03	4.6858E-04	1.2248E 22	1.5749E 21	8.8151E-03	7.0786E 18	
16 16	13891.7	7198.6	1.0540E-03	7.7511E-10	5.7058E 21	5.7058E 21	6.6205E-03	7.0745E 18	
12 11	13916.8	7185.7	7.8546E-04	3.7048E-05	3.0165E 21	3.2496E 21	8.2061E-03	7.0814E 18	
7 5	14004.9	7160.6	4.3690E-04	4.1218E-08	8.4570E 20	6.6046E 20	8.0177E-03	7.0888E 18	
13 12	14158.3	7063.0	1.0504E-04	1.8739E-08	5.5295E 20	5.5294E 20	8.4525E-03	7.0830E 18	
8 6	14216.1	7044.3	6.6928E-05	5.2593E-08	9.1738E 19	9.2207E 19	9.2453E-03	7.0832E 18	
14 13	14400.7	6944.1	1.0339E-05	4.1134E-06	7.5402E 19	1.2505E 20	7.7210E-03	7.0832E 18	
9 7	14427.5	6931.2	1.2474E-05	4.1134E-06	8.8593E-03	8.524E 22	6.8003E-03	7.0833E 18	
3 0	14585.7	6856.0	8.8615E-03	4.6449E-06	5.6714E 22	5.6759E 22	9.0147E-03	7.1007E 18	
11 8	14618.9	6822.1	5.5348E-03	3.7713E-08	5.4602E 22	5.4603E 22	9.6072E-03	7.1020E 18	
15 14	14644.0	6793.8	4.9501E-03	4.9501E-03	2.0519E 22	2.0519E 22	8.3060E-03	7.1226E 18	
4 1	14771.5	6769.8	3.6112E-03	2.9320E-06	5.2913E 22	5.2944E 22	9.3372E-03	7.1490E 18	
11 9	14850.5	6733.8	4.9501E-03	2.0761E-08	3.9329E 22	3.9329E 22	1.0010E-02	7.1490E 18	
10 15	14888.3	6716.7	2.5966E-03	3.9394E-03	2.3027E 22	2.3027E 22	8.5505E-03	7.1626E 18	
5 2	14956.4	6686.1	1.4220E-06	2.8643E-09	2.8643E 22	2.8643E 22	9.6930E-03	7.1874E 18	
12 10	15062.2	6659.1	9.6434E-09	1.6113E 22	1.6113E 22	1.6113E 22	1.0461E-02	7.1942E 18	
17 16	15131.8	6639.3	2.4543E-03	1.8593E-04	1.8593E 21	1.8593E 21	8.8146E-03	7.1947E 18	
6 3	15140.6	6604.8	2.4039E-03	1.6393E-03	1.5256E 22	1.5256E 22	1.0088E-02	7.2070E 18	
13 11	15274.5	6556.9	9.9103E-04	5.8284E-07	1.1588E 22	1.1595E 22	1.0003E-02	7.2090E 18	
7 4	15324.1	6525.7	1.1805E-03	5.8284E-07	7.6979E 21	7.6979E 21	1.0520E-02	7.2147E 18	
14 12	15487.2	6456.9	2.7187E-04	2.0883E-07	3.7486E 21	3.7486E 21	9.4241E-03	7.2149E 18	
8 5	15507.1	6448.7	4.1385E-04	1.8593E-04	1.8593E 21	1.8593E 21	9.7737E-03	7.2171E 18	
11 7	15609.8	6373.6	5.2718E-05	1.1136E 21	1.1136E 21	1.1136E 21	1.1022E-02	7.2303E 18	
13 13	15700.7	6369.1	1.1446E-04	6.5488E-08	1.7212E 21	1.7222E 21	1.0102E-02	7.2177E 18	
10 7	15872.3	6300.3	3.4551E-05	1.3151E-05	5.5291E 20	5.5291E 20	1.1580E-02	7.2178E 18	
16 14	15954.7	6285.4	2.2825E-05	1.7438E-08	3.7090E 20	3.7090E 20	1.0593E-02	7.2181E 18	
17 15	16130.4	6228.7	8.1354E-06	2.7570E-06	9.1202E 19	1.9391E 20	1.0593E-02	7.2181E 18	
4 0	16204.0	6199.5	3.4304E-06	3.5953E-06	8.0362E 19	8.0362E 19	1.2215E-02	7.2180E 18	
12 9	16231.3	6171.3	4.5816E-06	4.5816E-06	6.2945E 19	6.2945E 19	1.2215E-02	7.2180E 18	
18 16	16347.0	6157.7	3.3787E-04	4.2244E-07	6.1843E 21	6.1843E 21	1.1070E-02	7.2189E 18	
5 1	16360.9	6117.3	1.2314E-04	4.1969E-10	2.3474E 21	2.3474E 21	1.2247E-02	7.2247E 18	
13 10	16420.1	6112.1	4.8085E-04	5.7254E-04	2.0769E 21	1.3059E 22	9.5052E-03	7.2206E 18	
6 2	16516.9	6090.1	3.8897E-04	2.7472E-08	7.6234E 21	7.6234E 21	1.1611E-02	7.2229E 18	
14 11	16603.4	6054.4	5.9203E-04	4.3625E-04	3.1628E 21	1.2020E 22	9.8498E-03	7.2247E 18	
3 3	16603.4	6022.9	2.5487E-04	1.8403E-09	5.3395E 21	5.3395E 21	1.2224E-02	7.2273E 18	
15 12	16787.2	5956.9	1.2310E-04	2.6152E-04	2.8092E 21	8.4191E 21	1.0228E-02	7.2282E 18	
8 4	16820.7	5943.0	2.1858E-04	1.3577E-04	2.7597E 21	2.7597E 21	1.2524E-02	7.2303E 18	
16 13	16971.8	5892.1	4.7834E-05	1.5387E-08	1.1428E 21	1.1431E 21	1.3733E-02	7.2320E 18	
9 5	16980.7	5889.0	1.0760E-04	6.4022E-05	1.0447E 21	2.3799E 21	1.1115E-02	7.2320E 18	
10 6	17134.5	5836.2	4.8178E-05	2.8156E-05	5.0680E 20	5.0680E 20	1.1639E-02	7.2327E 18	
17 14	17157.2	5828.5	3.7277E-05	1.1725E-08	5.0506E 20	5.0506E 20	1.4678E-02	7.2328E 18	
11 7	17288.0	5786.4	2.0034E-05	1.1736E-05	2.2153E 20	5.3486E 20	1.2231E-02	7.2330E 18	
18 15	17343.6	5765.8	1.0379E-05	7.3185E-09	2.8227E 20	2.8240E 20	1.2903E-02	7.2331E 18	
12 8	17441.5	5733.4	7.8436E-06	4.6009E-06	2.8091E 19	2.8091E 19	1.1737E-02	7.2332E 18	
19 16	17531.2	5704.1	2.4943E-06	4.0551E-09	7.2246E 19	7.2414E 19	1.3746E-02	7.2332E 18	
13 9	17595.2	5683.4	2.9170E-06	1.7954E-06	3.3281E 19	6.6557E 19	1.4571E-02	7.2332E 18	
14 10	17749.1	5634.1	1.0123E-06	6.6320E-07	1.0814E 19	3.1651E 19	1.0703E-02	7.2332E 18	
5 0	17793.4	5620.0	1.4358E-05	1.3998E-05	1.7169E 19	4.6141E 20	1.5621E-02	7.2335E 18	
12 11	17903.4	5585.5	4.6586E-06	2.3536E-07	1.4566E 20	1.5342E 20	1.1138E-02	7.2335E 18	
6 1	17921.4	5579.9	2.7547E-05	2.3727E-05	2.3727E 20	1.0584E 21	1.1666E-02	7.2335E 18	
7 2	18048.4	5540.6	3.0021E-05	2.3920E-05	2.3160E 20	9.5041E 20	1.6871E-02	7.2335E 18	
16 12	18058.3	5537.4	2.7406E-05	7.9665E-08	9.4765E 20	9.5265E 20	1.2377E-02	7.2337E 18	
8 3	18174.7	5502.2	2.5877E-05	1.8735E-05	2.5749E 20	5.9005E 20	1.8383E-02	7.2338E 18	
17 13	18213.9	5490.3	1.6161E-05	2.5343E-08	5.8913E 20	6.8857E 20	1.2884E-02	7.2339E 18	
9 4	18300.3	5464.4	1.8334E-05	1.2625E-05	2.1445E 20	2.4115E 20	1.0742E-02	7.2340E 18	
18 14	18370.4	5443.5	7.5827E-06	7.3573E-09	2.4115E 20	4.5024E 20	1.3622E-02	7.2340E 18	
10 5	18429.4	5427.3	1.1501E-05	7.1311E-06	1.4823E 20	1.1937E 20	2.2611E-02	7.2341E 18	
19 15	18527.9	5397.3	4.9507E-06	1.8308E-09	1.1929E 20	1.6870E 20	1.4473E-02	7.2341E 18	
11 6	18550.2	5390.8	6.5791E-06	4.4066E-06	8.8522E 19	2.6830E 20	1.4494E 20	7.2341E 18	
12 7	18674.9	5354.8	3.5288E-06	2.4022E-06	1.7106E 19	1.2609E 20	2.5659E-02	7.2342E 18	
20 16	18688.5	5351.4	2.9616E-06	3.3074E-10	1.2607E 19	7.9558E 19	1.6534E-02	7.2342E 18	
13 8	18799.4	5319.3	1.8045E-06	1.2674E-06	2.3710E 19	4.9980E 19	1.4034E-02	7.2342E 18	
14 9	18924.1	5284.3	8.9240E-07	6.5396E-07	1.0952E 19	4.9980E 19	1.9740E-02	7.2342E 18	
15 10	19049.1	5249.6	2.0575E-07	1.6812E-07	1.8703E 18	1.0276E 19	2.1807E-02	7.2342E 18	
16 11	19174								

		2000 °K									
V' V"	$\bar{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	$\phi_1, \bar{\nu}^6, \text{cm}^{-6}$	$\phi_2, \bar{\nu}^6, \text{cm}^{-6}$	a, cm	$\int \phi \bar{\nu}^6 d\lambda \text{ cm}^{-5}$			
13 6	21295.0	4695.9	1.1425E-08	8.7983E-09	2.4499E 17	1.0655E 18	2.9316E-02	7.2342E 18			
14 7	21361.7	4681.3	9.0173E-09	7.2649E-09	1.6652E 17	8.5682E 17	3.4371E-02	7.2342E 18			
15 8	21428.4	4666.7	6.9551E-09	5.9490E-09	9.7407E 16	6.7335E 17	4.1768E-02	7.2342E 18			
16 9	21495.2	4652.2	5.4548E-09	4.9802E-09	4.6813E 16	5.3806E 17	5.2630E-02	7.2342E 18			
17 10	21562.3	4637.7	4.6640E-09	4.4749E-09	1.6672E 16	4.6640E 17	7.5739E-02	7.2342E 18			
18 11	21629.8	4623.3	4.0818E-09	4.3548E-09	2.7587E 15	4.9991E 17	1.3148E-01	7.2342E 18			
19 12	21697.9	4608.7	1.2335E-08	1.2335E-08	0.	1.2872E 18	5.1335E-01	7.2342E 18			
8 0	22388.0	4466.7	8.8698E-12	8.8698E-12	0.	1.1169E 15	2.2159E-02	7.2342E 18			
9 1	22429.2	4459.5	3.2343E-11	2.8781E-11	4.5377E 14	4.1180E 15	2.4652E-02	7.2342E 18			
10 2	22464.4	4450.5	8.6086E-11	5.1855E-11	1.5627E 15	8.4934E 15	2.7866E-02	7.2342E 18			
11 3	22508.8	4442.7	9.9668E-11	7.7066E-11	2.9395E 15	1.2952E 16	3.2168E-02	7.2342E 18			
12 4	22547.6	4435.1	1.2486E-10	9.4831E-11	3.9455E 15	1.6405E 16	3.8223E-02	7.2342E 18			
13 5	22585.9	4427.5	1.3889E-10	1.0771E-10	4.1400E 15	1.8438E 16	4.7378E-02	7.2342E 18			
14 6	22623.9	4420.1	1.4580E-10	1.1994E-10	3.4681E 15	1.9551E 16	6.2831E-02	7.2342E 18			
15 7	22661.7	4412.7	1.5812E-10	1.4204E-10	2.2041E 15	2.1443E 16	9.4486E-02	7.2342E 18			
16 8	22699.5	4405.4	2.2718E-10	2.2105E-10	8.3888E 14	3.1079E 16	1.9591E-01	7.2342E 18			
9 0	23861.7	4190.6	6.0575E-15	6.0575E-15	0.	1.2658E 12	3.5442E-02	7.2342E 18			
10 1	23873.9	4188.7	3.1783E-14	2.7334E-14	8.2387E 11	5.8849E 12	4.2773E-02	7.2342E 18			
11 2	23885.2	4186.7	8.2892E-14	6.3029E-14	3.6883E 12	1.5392E 13	5.4294E-02	7.2342E 18			
12 3	23895.7	4184.9	1.6547E-13	1.1697E-13	9.0298E 12	3.0826E 13	7.5031E-02	7.2342E 18			
13 4	23905.5	4183.1	2.9890E-13	2.1365E-13	1.5910E 13	5.5784E 13	1.2342E-01	7.2342E 18			
14 5	23914.9	4181.5	7.2891E-13	6.1572E-13	2.1174E 13	1.3636E 14	3.6535E-01	7.2342E 18			
12 2	25272.0	3956.9	6.1875E-16	6.1875E-16	0.	1.6119E 11	2.0298E 00	7.2342E 18			
11 1	25289.7	3954.2	2.2307E-17	2.2307E-17	0.	9.8359E 09	1.1392E-01	7.2342E 18			
10 0	25306.4	3951.6	3.9378E-18	2.7239E-18	3.1893E 08	1.0943E 09	9.1981E-02	7.2342E 18			

SPECTRAL DISTRIBUTION FUNCTION AND RELATED PARAMETERS, N2 FIRST POSITIVE

5000 °K

$V' V''$	$\bar{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	$\phi_1 \bar{\nu}^6, \text{cm}^{-6}$	$\phi_2 \bar{\nu}^6, \text{cm}^{-6}$	a, cm	$\int \phi \bar{\nu}^6 d\lambda \text{ cm}^{-5}$
0 7	122.9	814000.1	2.9328E-03	2.9328E-03	0.	1.0082E 10	1.6371E-03	0.
5 14	341.6	292746.8	6.5553E-03	4.5053E-03	3.2569E 12	1.0414E 13	1.5501E-03	2.0829E 07
3 11	393.3	254290.4	1.3966E-02	7.9240E-03	2.2347E 13	5.1654E 13	1.5995E-03	8.0455E 09
1 8	596.7	160148.6	1.8935E-02	8.4440E-03	4.4657E 14	8.2215E 14	1.6497E-03	1.5703E 11
6 15	875.3	114245.9	1.5573E-02	3.7677E-03	5.3094E 15	7.0039E 15	1.5610E-03	1.3986E 12
4 12	895.4	111679.3	2.3265E-02	6.1858E-03	7.7721E 15	1.1991E 16	1.6115E-03	1.5880E 12
2 9	1056.7	93757.9	3.0880E-02	1.3110E-02	2.6030E 16	4.5637E 16	1.6628E-03	4.8125E 12
0 6	1385.1	72198.8	2.7060E-02	8.6234E-03	1.3017E 17	1.9105E 17	1.7150E-03	2.1997E 13
5 13	1398.3	71515.0	3.3504E-02	7.0311E-03	1.9799E 17	2.5065E 17	1.6241E-03	2.3324E 13
7 16	1410.2	70912.8	3.5520E-02	2.7322E-03	2.5837E 17	2.7986E 17	1.5725E-03	2.4858E 13
3 10	1538.9	64979.9	4.3822E-02	1.5025E-02	3.8255E 17	5.8213E 17	1.6765E-03	4.4335E 13
1 7	1828.0	54704.0	4.7887E-02	2.0726E-02	1.0135E 18	1.7869E 18	1.7298E-03	1.2420E 14
6 14	1902.1	52574.5	4.7199E-02	5.1352E-03	2.0013E 18	2.2445E 18	1.6371E-03	1.6449E 14
4 11	2011.6	49711.6	5.2824E-02	1.3403E-02	2.6124E 18	3.5054E 18	1.6707E-03	2.3389E 14
2 8	2270.9	44024.6	6.1605E-02	2.7465E-02	4.6828E 18	8.4500E 18	1.7452E-03	4.6488E 14
7 15	2406.8	41548.3	5.2029E-02	3.2017E-03	9.4915E 18	1.0114E 19	1.6506E-03	6.8780E 14
5 12	2484.8	40244.2	5.5404E-02	9.8608E-03	1.0720E 19	1.3041E 19	1.7055E-03	8.2364E 14
0 5	2676.0	37368.7	6.4829E-02	2.4848E-02	1.4683E 19	2.3838E 19	1.8006E-03	1.2223E 15
3 9	2714.0	36846.2	8.6754E-02	2.6072E-02	2.4249E 19	3.4668E 19	1.7613E-03	1.3478E 15
8 14	2814.6	34511.6	6.2968E-02	1.6773E-03	3.7432E 19	3.8456E 19	1.6648E-03	2.2554E 15
6 13	2958.8	33797.7	6.4172E-02	6.0619E-03	3.8988E 19	4.3055E 19	1.7209E-03	2.4521E 15
1 6	3090.2	32360.0	9.9064E-02	4.8031E-02	4.4438E 19	8.6271E 19	1.8180E-03	3.0215E 15
4 10	3157.3	31672.8	1.0738E-01	1.9405E-02	8.7095E 19	1.0632E 20	1.7782E-03	3.6873E 15
7 14	3433.6	29124.0	6.8732E-02	3.0722E-03	1.0760E 20	1.2626E 20	1.7370E-03	4.6225E 15
2 7	3504.3	28536.8	1.1212E-01	5.1495E-02	1.1226E 20	2.0761E 20	1.9361E-03	7.0821E 15
1 5	3607.1	27770.0	1.0584E-01	1.1675E-02	2.0532E 20	3.3078E 20	1.7955E-03	8.6668E 15
8 15	3909.4	25517.2	6.1922E-02	1.2153E-03	2.1673E 20	2.2172E 20	1.7538E-03	1.5388E 16
3 8	3918.2	25521.7	1.0025E-01	3.9102E-02	2.2055E 20	3.6276E 20	1.8551E-03	1.3715E 16
0 4	3995.6	25027.0	1.5592E-01	6.8895E-02	3.5447E 20	5.6447E 20	1.8953E-03	1.5487E 16
6 12	4065.3	24720.0	1.7822E-01	5.6229E-03	6.2316E 20	6.4781E 20	1.8138E-03	1.4202E 16
4 9	4332.3	23082.3	1.0983E-01	2.2972E-02	5.7432E 20	7.6261E 20	1.8746E-03	2.7454E 16
1 5	4381.2	22824.8	2.0148E-01	1.0188E-01	7.0939E 20	1.4250E 21	1.9157E-03	9.9302E 16
9 14	4386.4	22797.6	1.9883E-01	3.1812E-04	1.4211E 21	1.4234E 21	1.7714E-03	2.9588E 16
7 13	4490.3	22270.2	1.6630E-01	2.0281E-03	1.3465E 21	1.1632E 21	1.8329E-03	3.6999E 16
5 10	4746.7	21067.3	1.1283E-01	1.0288E-02	1.1731E 21	1.2926E 21	1.4956E-03	4.2268E 16
2 6	4766.5	20979.9	1.9118E-01	8.2481E-02	1.2747E 21	2.2420E 21	1.9371E-03	5.3386E 16
8 14	4936.2	20258.6	1.3872E-01	4.3515E-04	2.0005E 21	2.0006E 21	1.4529E-03	6.8590E 16
3 7	5151.5	19411.7	1.3860E-01	4.6605E-02	1.7194E 21	2.5905E 21	1.5959E-03	8.4468E 16
6 11	5161.5	19374.3	1.3918E-01	3.2067E-03	2.5710E 21	2.6316E 21	1.9172E-03	8.5434E 16
0 3	5343.7	18713.8	2.7609E-01	1.7808E-01	2.2818E 21	6.4289E 21	2.0006E-03	1.0166E 17
9 15	5383.1	18576.7	2.5543E-01	1.1174E-05	3.2150E 21	6.2153E 21	1.8738E-03	1.1032E 17
5 8	5536.8	18061.7	2.0737E-01	1.8693E-02	5.6346E 21	9.9730E 21	1.9825E-03	1.4031E 17
7 12	5576.0	17931.3	1.9201E-01	4.7684E-04	5.7619E 21	5.7626E 21	1.9406E-03	1.4796E 17
1 4	5700.8	17541.4	3.3136E-01	1.8103E-01	5.1604E 21	1.1374E 22	2.0245E-03	1.5927E 17
10 16	5831.1	17144.9	2.5532E-01	6.1494E-05	1.0035E 22	1.0037E 22	1.8958E-03	2.1122E 17
5 9	6021.7	16886.9	2.1700E-01	4.6314E-03	9.1834E 21	9.3831E 21	2.0074E-03	2.3643E 17
8 13	5922.9	16686.4	1.8872E-01	4.2542E-06	8.7424E 21	8.7429E 21	1.9638E-03	2.5459E 17
2 5	6057.4	16508.6	2.6553E-01	9.7882E-02	8.3118E 22	2.4047E 22	2.0407E-03	2.5669E 17
6 10	6307.0	15855.0	1.6064E-01	3.0072E-04	1.0093E 22	1.0112E 22	2.0332E-03	3.4527E 17
9 14	6409.8	15601.0	1.3082E-01	2.5928E-04	9.0554E 21	9.0734E 21	1.9898E-03	3.6957E 17
3 6	6413.8	15591.5	1.6393E-01	3.4133E-02	9.0149E 21	1.1411E 22	2.0782E-03	3.7046E 17
4 11	6494.0	14941.02	9.3167E-02	2.1877E-02	8.1733E 21	8.1733E 21	2.0803E-03	3.7046E 17
0 2	6720.0	14881.0	4.9635E-01	4.0016E-01	8.1206E 21	4.5739E 22	2.1180E-03	3.9377E 17
4 7	6769.9	14771.3	4.5258E-01	5.6607E-03	4.3024E 22	4.3569E 22	2.1040E-03	4.8802E 17
15 15	6827.8	14645.0	4.0121E-01	4.0733E-02	4.0596E 22	4.0649E 22	2.0513E-03	4.6732E 17
1 3	7048.8	14186.8	4.9013E-01	2.3806E-01	3.0918E 22	6.0118E 22	2.1464E-03	7.0437E 17
8 12	7079.4	14125.4	4.6027E-01	9.7574E-04	5.7819E 22	5.7942E 22	2.0889E-03	7.4252E 17
5 8	7126.0	14033.1	4.1891E-01	2.4906E-07	5.4590E 22	5.4590E 22	2.1333E-03	9.2646E 17
11 16	7246.9	13799.0	3.2304E-01	5.2763E-04	4.6716E 22	4.6742E 22	2.0531E-03	9.1088E 17
2 4	7377.0	13555.6	3.0975E-01	6.4724E-02	3.9491E 22	4.9923E 22	2.1763E-03	1.0157E 18
9 13	7466.5	13393.1	2.5718E-01	1.3071E-03	4.4315E 22	4.4562E 22	2.1190E-03	1.0922E 18
6 9	7482.2	13365.0	2.5042E-01	1.6943E-03	4.3642E 22	4.3940E 22	2.1641E-03	1.1204E 18
3 5	7704.7	12970.0	1.6046E-01	4.7996E-03	3.2562E 22	3.3556E 22	2.2078E-03	1.2514E 18
7 10	7838.7	12757.2	1.2382E-01	3.2978E-03	2.7961E 22	2.8726E 22	2.1966E-03	1.3195E 18
10 14	7854.5	12711.5	1.2083E-01	1.1328E-03	2.8107E 22	2.8373E 22	2.1508E-03	1.3426E 18
4 6	8032.1	12450.0	8.4437E-02	1.7701E-03	2.2198E 22	2.2671E 22	2.2413E-03	1.3977E 18
0 1	8124.5	12308.5	8.1749E-02	7.4830E-01	1.9900E 22	2.3513E 23	2.2901E-03	1.4278E 18
8 11	8195.6	12201.7	7.0094E-01	3.7502E-03	2.1124E 23	2.1222E 23	2.2310E-03	1.6660E 18
11 15	8243.6	12130.7	6.2973E-01	7.3843E-04	1.9739E 23	1.9762E 23	2.1845E-03	1.8113E 18
5 7	8359.3	11962.7	4.9423E-01	8.3539E-03	1.6579E 23	1.6854E 23	2.2762E-03	2.1159E 18
1 2	8425.2	11869.2	5.7442E-01	1.4808E-01	1.5249E 23	2.0544E 23	2.2830E-03	2.2659E 18
9 12	8553.1	11691.7	4.3290E-01	2.2527E-03	1.6860E 23	1.6948E 23	2.2674E-03	2.5970E 18
12 16	8633.7	11582.5	3.6137E-01	3.7018E-04	1.4952E 23	1.4967E 23	2.2401E-03	2.7711E 18
6 8	8686.5	11512.2	3.3076E-01	9.8625E-03	1.3768E 23	1.4211E 23	2.1111E-03	2.8721E 18
8 3	8725.1	11461.3	3.0428E-01	1.0861E-03	1.3376E 23	1.3424E 23	2.3195E-03	2.9423E 18
10 13	8911.3	11221.8	2.0103E-01	1.1794E-03	1.0009E 23	1.0059E 23	2.3059E-03	3.2221E 18
7 9	9013.7	11094.2	1.6676E-01	1.4127E-01	8.9442E 22	8.9497E 22	2.3523E-03	3.3388E 18
3 4	9024.3	11081.2	1.8127E-01	1.8443E-02	8.7944E 22	9.7906E 22	2.3572E-03	3.3514E 18
11 14	9270.3	10797.1	1.0405E-01	4.4072E-04	6.5761E 22	6.6047E 22	2.4688E-03	3.5894E 18
4 5	9323.1	10776.1	1.2458E-01	3.2263E-02	6.0622E 22	8.1809E 22	2.3970E-03	3.6280E 18
8 10	9341.3	10705.2	1.2321E-01	3.7498E-03	7.9757E 22	8.1852E 22	2.3939E-03	3.6449E 18
0 0	9557.0	10463.5	9.1342E-01	8.3854E-01	5.7054E 22	6.9598E 22	2.3999E-03	3.8112E 18
5 6	9621.5	10393.4	8.0775E-01	2.4948E-02	6.2103E 23	6.4082E 23	2.4392E-03	4.2728E 18
12 15	9630.4	10383.8	7.9087E-01	9.2811E-05	6.3084E 23	6.3091E 23	2.3904E-03	4.3336E 18
9 11	9669.3	10342.1	7.2198E-01	1.3603E-03	5.8893E 23	5.9004E 23	2.4383E-03	4.5881E 18
1 1	9829.7	10173.3	4.9535E-01	3.5730E-03	4.4561E 23	4.4853E 23	2.4403E-03	2.4953E 18
6 7	9919.8	10080.9	4.1167E-01	1.2476E-02	3.0041E 23	3.0225E 23	2.4860E-03	3.8868E 18
13 16	9991.6	10008.4	3.4656E-01	1.177E-06	3.4482E 23	3.4483E 23	2.368E-03	6.1037E 18
10 12	9997.8	10002.2	3.4175E-01	2.6577E-04	3.4103E 23	3.4130E 23	2.4851E-03	6.1248E 18
2 2	10101.4	9715.6	3.7656E-01	1.1024E-01	2.6930E 23	4.0005E 23	2.6030E-03	6.4442E 18
7 8	10218.0	9786.7	2.8792E-01	3.9911E-03	3.2315E 23	3.2769E 23	2.5183E-03	6.8513E 18
11 13	10327.0	9683.1	2.2087E-01	1.2631E-06	2.6790E 23	2.6790E 23	2.5935E-03	7.1581E 18
3 3	10372.3	9643.0	2.29834E-01	3.7151E-03	2.6004E 23	2.6004E 23	2.5268E-03	7.2569E 18
8 9	10516.3	9509.0	2.0097E-01	5.6113E-04	2.8326E 23	2.8402E 23	2.5823E-03	7.6967E 18
4 4	10642.7	9396.2	1.9906E-01	4.5186E-02	2.2360E 23	2.2826E 23	2.2764E-03	7.9820E 18
12 14	10657.1	9383.4	1.9277E-01	4.6896E-04	2.2432E 23	2.24		

		5000 °K											
V'	V"	$\bar{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	ϕ_1, cm^{-1}	$\bar{\nu}^e, \text{cm}^{-1}$	ϕ_2, cm^{-1}	$\bar{\nu}^e, \text{cm}^{-1}$	a, cm	$f\phi\bar{\nu}^e d\lambda \text{ cm}^{-5}$		
14	16	11320.6	8833.5	0.2578E-01	2.3192E-04	1.3166E 24	1.3171E 24	2.7081E-03	0.5475E 18				
11	12	11413.6	8761.5	4.9159E-01	7.3189E-04	1.0851E 24	1.0856E 24	1.0409E 19	1.0409E 19				
7	7	11451.3	8732.6	4.4617E-01	7.4607E-04	1.0044E 24	1.0048E 24	2.7400E-03	1.0711E 19				
2	1	11505.7	8691.2	6.1097E-01	2.2423E-01	8.9731E 23	1.4170E 24	2.6712E-03	1.1509E 19				
12	13	11713.9	8536.9	3.5407E-01	7.7534E-04	9.1273E 23	9.1273E 23	2.8235E-03	1.2477E 19				
8	8	11720.6	8532.0	3.5053E-01	2.6730E-03	9.0177E 23	9.0870E 23	2.8031E-03	1.2922E 19				
5	2	11748.7	8511.4	3.5156E-01	9.4057E-02	8.4506E 23	9.2457E 23	2.7242E-03	1.3102E 19				
9	9	11990.0	8340.3	1.8920E-01	3.3478E-03	5.5217E 23	5.6212E 23	2.8701E-03	1.4342E 19				
4	3	11990.7	8339.8	1.8962E-01	7.8207E-04	5.6126E 23	5.6359E 23	2.7848E-03	1.4344E 19				
13	14	12051.0	8322.9	1.7830E-01	6.1159E-04	5.3485E 23	5.3669E 23	2.8095E-03	1.4437E 19				
5	4	12232.1	8175.2	1.1387E-01	1.3426E-02	3.3647E 23	3.8144E 23	2.8476E-03	1.5071E 19				
10	10	12259.6	8156.8	1.0857E-01	2.8004E-03	3.5908E 23	3.6081E 23	2.9424E-03	1.5139E 19				
14	15	12317.2	8118.7	9.3407E-02	3.8630E-04	3.2497E 23	3.2632E 23	2.9735E-03	1.5271E 19				
4	5	12473.0	8017.3	8.0734E-02	1.9143E-02	2.3123E 23	3.0401E 23	2.9148E-03	1.5532E 19				
11	11	12529.7	7981.0	7.0260E-02	1.8135E-03	2.6485E 23	2.7187E 23	3.0203E-03	1.5655E 19				
15	16	12620.6	7923.6	5.4963E-02	1.9521E-04	2.2131E 23	2.2210E 23	3.0530E-03	1.5790E 19				
7	6	12713.5	7865.6	5.8302E-02	1.5702E-02	1.7989E 23	2.4602E 23	2.9871E-03	1.5912E 19				
12	12	12800.4	7812.3	4.6611E-02	9.2854E-04	2.0095E 23	2.0504E 23	3.1047E-03	1.6031E 19				
2	0	12938.4	7778.9	2.5954E-01	2.2802E-01	1.4794E 23	1.2170E 24	2.8903E-03	1.6177E 19				
8	7	12953.9	7719.7	2.5764E-01	9.4123E-03	1.1729E 24	1.2174E 24	3.1065E-03	1.6288E 19				
13	13	13071.7	7650.1	1.8370E-01	3.5901E-04	9.1405E 23	9.1644E 23	3.1064E-03	1.7025E 19				
3	1	13153.2	7602.7	3.6540E-01	2.2028E-01	7.5150E 23	1.8922E 24	2.9577E-03	1.7479E 19				
9	8	13194.2	7579.1	3.2831E-01	4.1064E-03	1.7094E 24	1.1322E 24	3.1492E-03	1.7844E 19				
14	14	13344.0	7494.0	2.1172E-01	8.5043E-05	1.1948E 24	1.1953E 24	3.2964E-03	1.9076E 19				
2	2	13367.0	7461.1	3.2802E-01	1.1617E-01	1.1286E 24	1.6712E 24	3.0300E-03	1.9226E 19				
10	9	13434.7	7433.4	2.6770E-01	1.4404E-03	1.4508E 24	1.5705E 24	3.4801E-03	2.0044E 19				
5	5	13580.1	7363.7	2.3102E-01	5.5951E-02	1.0081E 24	1.4490E 24	3.1077E-03	2.0931E 19				
13	15	13615.2	7345.7	2.0817E-01	5.0959E-06	1.3175E 24	1.1375E 24	3.4503E-03	2.1210E 19				
11	10	13675.4	7312.4	1.7373E-01	2.3115E-04	1.1394E 24	1.1394E 24	3.1394E-03	2.1394E 19				
6	4	13792.5	7250.3	1.3910E-01	1.6891E-02	8.4135E 23	9.5764E 23	3.1916E-03	2.2202E 19				
13	16	13891.7	7189.7	1.0301E-01	1.1833E-05	7.4067E 23	7.4067E 23	3.5264E-03	2.2639E 19				
12	11	13916.6	7185.7	9.5594E-02	4.6643E-07	6.9442E 23	6.9442E-03	3.6732E-03	2.2732E 19				
7	5	14004.5	7140.6	7.5143E-02	2.5847E-03	5.4887E 23	5.6839E 23	3.2874E-03	2.3311E 19				
13	12	14120.1	7064.0	4.2108E-01	1.1688E-04	3.7008E 23	3.7999E 23	3.5671E 01	2.3577E 19				
8	6	14216.3	7034.3	3.9580E-02	2.5016E-06	2.5016E 23	2.5016E 23	3.1810E-03	2.3475E 19				
14	13	14400.7	6944.1	2.2848E-02	2.6466E-04	2.0141E 23	2.0372E 23	3.6980E-03	2.3709E 19				
9	7	14512.2	6877.2	2.2094E-02	1.0378E-03	1.8919E 23	1.9927E 23	3.4884E-03	2.3734E 19				
3	0	14585.7	6850.0	5.4392E-02	4.0731E-02	1.0712E 23	1.0712E 23	3.2312E-03	2.3857E 19				
10	8	14638.9	6831.1	4.8003E-02	2.1872E-03	4.5186E 23	4.7321E 23	3.6059E-03	2.3978E 19				
15	14	14640.0	6828.7	4.7643E-02	3.3236E-04	4.6657E 23	4.6985E 23	3.8423E-03	2.3989E 19				
1	1	14771.0	6749.1	1.0907E-01	6.4762E-01	6.4762E 23	6.4762E 23	3.2312E-03	2.3857E 19				
11	9	14850.5	6733.8	8.0441E-02	2.5433E-03	8.3533E 23	8.6281E 23	3.7347E-03	2.4560E 19				
16	15	14886.3	6716.7	7.1297E-02	1.1695E-04	7.7305E 23	7.7651E 23	4.0040E-03	2.4700E 19				
5	2	14956.4	6686.1	1.2931E-01	7.2408E-01	7.2408E 23	7.4478E 23	3.2312E-03	2.3857E 19				
12	10	15062.2	6639.0	9.7801E-02	2.2438E-03	1.0575E 24	1.0837E 24	3.8772E-03	2.5499E 19				
17	16	15133.8	6607.7	7.3128E-02	2.5164E-04	8.7553E 23	8.7553E 23	4.1844E-03	2.5800E 19				
6	3	15140.8	6604.0	1.3087E-01	5.9099E-02	6.6091E 23	5.7279E 24	3.5245E-03	2.5911E 19				
13	11	15274.5	6546.9	8.1942E-02	1.6527E-03	1.0453E 24	1.0643E 24	4.0350E-03	2.6579E 19				
4	12	15324.1	6525.7	1.1115E-01	4.0920E-02	9.1594E 23	1.4458E 24	3.6425E-03	2.6789E 19				
7	4	15487.9	6468.1	1.5687E-01	1.0509E-02	1.0972E 23	1.2561E 24	4.2511E-03	2.7572E 19				
9	5	15507.1	6448.7	8.4266E-02	2.4831E-02	8.2646E 23	1.1717E 24	3.7694E-03	2.6588E 19				
15	13	15689.8	6373.6	5.6723E-02	1.3300E-02	5.4777E 23	8.4617E 23	3.9099E-03	2.8302E 19				
10	7	15700.7	6370.0	5.5700E-02	5.1770E-04	8.4807E 23	8.4807E 23	4.4086E-03	2.8339E 19				
10	7	15872.3	6300.3	3.5461E-02	6.1964E-03	4.6793E 23	4.6793E 23	4.2877E 19	2.8773E 19				
16	14	15915.1	6283.4	3.0481E-02	2.6622E-04	4.9099E 23	4.9531E 23	4.6319E-03	2.8863E 19				
13	11	16054.7	6209.6	2.3909E-02	2.3909E-02	3.4022E 23	4.2359E-03	4.2359E-03	2.9079E 19				
17	15	16130.4	6199.5	1.5441E-02	9.3826E-05	2.7034E 23	2.7202E 23	4.6884E-03	2.9150E 19				
4	0	16204.0	6171.3	1.5903E-02	4.2255E-03	2.1140E 23	2.8789E 23	3.6773E-03	2.9237E 19				
13	12	16237.7	6160.7	1.6202E-02	6.6800E-04	2.5712E 23	2.6943E 23	4.4283E-03	2.9271E 19				
18	16	16347.0	6117.3	1.9765E-03	1.8490E-05	1.8490E 23	1.8560E 23	5.1780E-03	3.0732E 19				
5	1	16360.9	6112.1	1.9765E-02	1.0524E-02	7.7899E-05	3.0929E 23	3.1082E 23	4.6443E-03	2.9449E 19			
13	10	16420.1	6080.1	1.5858E-02	1.0524E-02	1.0524E-02	2.2305E 23	2.2305E 23	4.5053E 19				
6	2	16516.9	6054.4	2.6712E-02	1.5724E-02	1.5724E-02	4.0013E 23	4.0013E 23	4.8094E-03	2.9779E 19			
14	11	16603.4	6022.9	1.9109E-02	3.2900E-02	1.8259E-02	3.1433E 23	3.7065E 23	4.0914E-03	2.9779E 19			
7	3	16672.2	5986.9	2.0841E-02	1.1624E-02	1.1624E-02	4.4049E 23	4.4049E 23	4.7485E-03	3.1884E 19			
8	4	16876.7	5943.0	3.5945E-02	1.8133E-02	4.0429E 23	8.1587E 23	4.2592E-03	3.0077E 19				
15	13	16876.7	5943.0	1.9932E-02	2.3491E-02	4.7072E 23	4.7634E 23	4.5493E-03	3.0396E 19				
0	5	16980.7	5889.2	3.5359E-02	1.4326E-02	1.4326E-02	4.4049E 23	4.4049E 23	4.7485E-03	3.1884E 19			
10	6	17134.5	5836.2	3.1475E-02	1.2535E-02	4.6114E 23	7.9651E 23	4.6557E-03	3.0747E 19				
17	14	17157.2	5820.5	2.8761E-02	3.0599E-04	7.2584E 23	7.3365E 23	5.8712E-03	3.0806E 19				
11	7	17288.0	5746.4	2.6271E-02	1.7846E-02	1.7846E-02	7.0010E 23	6.8931E-03	3.1356E 19				
18	15	17343.6	5765.8	2.0612E-02	3.2243E-04	5.5212E 23	5.6028E 23	6.1811E-03	3.1172E 19				
12	8	17441.5	5733.4	2.0466E-02	7.3864E-03	3.6823E 23	5.7617E 23	5.1614E-03	3.1320E 19				
19	16	17515.2	5725.1	1.7515E-02	2.7806E-02	2.7806E-02	4.2426E 23	4.6885E-03	3.1545E 19				
13	9	17595.2	5683.4	1.5049E-02	5.0911E-03	2.9547E 23	4.4545E 23	4.7022E-03	3.1530E 19				
14	10	17749.1	5636.1	1.0273E-02	3.1374E-03	2.1683E 23	3.2117E 23	5.8283E-03	3.1687E 19				
5	0	17793.4	5610.0	8.1879E-03	2.5778E-04	2.5804E 23	2.6402E 23	6.2810E-03	3.1727E 19				
15	11	17903.4	5585.5	6.8024E-03	2.0759E-03	1.5555E 23	2.2430E 23	4.7485E-03	3.1790E 19				
6	1	17921.4	5579.9	7.0144E-03	8.5529E-04	7.0407E 23	2.3241E 23	4.4631E-03	3.1811E 19				
8	2	18064.8	5560.4	6.2244E-03	1.6701E-03	1.2225E 23	1.8009E 23	4.6861E-03	3.1878E 19				
16	12	18058.3	5537.6	1.1861E-03	1.2162E-03	1.7235E 23	2.1453E 23	4.7485E-03	3.1884E 19				
17	13	18											

		5000 °K									
V'	V''	$\tilde{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	ϕ_1	$\tilde{\nu}^6, \text{cm}^{-6}$	ϕ_2	$\tilde{\nu}^6, \text{cm}^{-6}$	a, cm	$\int \phi \tilde{\nu}^6 d\lambda \text{ cm}^{-5}$
13	6	21295.0	4695.9	3.7394E-05	2.4948E-05	1.1606E 21	3.4871E 21	1.1726E-02	3.2839E 19		
14	7	21361.7	4681.3	5.4468E-05	3.6559E-05	1.7017E 21	5.1755E 21	1.3748E-02	3.2839E 19		
15	8	21428.4	4666.7	7.5708E-05	5.2470E-05	2.2498E 21	7.3295E 21	1.6707E-02	3.2840E 19		
16	9	21495.2	4652.2	1.0322E-04	7.6030E-05	2.8117E 21	1.0181E 22	2.1452E-02	3.2841E 19		
17	10	21562.3	4637.7	1.4470E-04	1.1678E-04	2.8116E 21	1.4548E 22	3.0295E-02	3.2842E 19		
18	11	21629.8	4623.3	2.3695E-04	2.1389E-04	2.3616E 21	2.4284E 22	5.2591E-02	3.2842E 19		
19	12	21697.9	4608.7	9.1632E-04	9.0603E-04	1.0738E 21	9.5620E 22	2.1653E-01	3.2844E 19		
8	0	22388.0	4466.7	1.1846E-09	1.1846E-09	0.	1.4916E 17	8.8637E-03	3.2844E 19		
9	1	22429.2	4458.5	8.0837E-09	7.2611E-09	1.0473E 17	1.0292E 18	9.8607E-03	3.2844E 19		
10	2	22469.4	4450.5	3.0809E-08	2.5348E-08	7.0269E 17	3.9648E 18	1.1115E-02	3.2844E 19		
11	3	22508.8	4442.7	8.6883E-08	6.6832E-08	2.6077E 18	1.1299E 19	1.2867E-02	3.2844E 19		
12	4	22547.6	4435.1	2.0335E-07	1.4964E-07	7.0583E 18	2.6721E 19	1.5289E-02	3.2844E 19		
13	5	22585.9	4427.5	4.2217E-07	3.0542E-07	1.5498E 19	5.6042E 19	1.8951E-02	3.2844E 19		
14	6	22623.9	4420.1	8.1983E-07	6.0358E-07	2.8998E 19	1.0993E 20	2.5132E-02	3.2844E 19		
15	7	22661.7	4412.7	1.5982E-06	1.2528E-06	4.6784E 19	2.1647E 20	3.7794E-02	3.2844E 19		
16	8	22699.5	4405.4	3.8241E-06	3.3746E-06	6.1493E 19	5.2315E 20	7.8765E-02	3.2844E 19		
9	0	23861.7	4190.8	1.7301E-12	1.7301E-12	0.	3.1935E 14	1.4177E-02	3.2844E 19		
10	1	23873.9	4188.7	1.4621E-11	1.2805E-11	2.6744E 14	2.8516E 15	1.7109E-02	3.2844E 19		
11	2	23885.2	4186.7	6.6508E-11	5.4659E-11	2.2002E 15	1.2349E 16	2.1718E-02	3.2844E 19		
12	3	23895.7	4184.9	2.3803E-10	1.8645E-10	9.9530E 15	4.4315E 16	3.0012E-02	3.2844E 19		
13	4	23905.5	4183.1	7.8670E-10	6.0982E-10	3.3757E 16	1.4682E 17	4.9367E-02	3.2844E 19		
14	5	23914.9	4181.5	3.6195E-09	3.0985E-09	9.7458E 16	6.7710E 17	7.4631E-01	3.2844E 19		
12	2	25272.0	3956.9	9.7636E-13	9.7636E-13	0.	2.5436E 14	6.1032E-01	3.2844E 19		
11	1	25289.7	3954.2	1.9345E-14	1.9345E-14	0.	5.0609E 12	6.9570E-02	3.2844E 19		
10	0	25306.4	3951.6	7.3202E-15	1.2819E-15	1.5860E 12	1.9227E 12	3.6793E-02	3.2844E 19		

II-16

8000 °K									
V' V"	$\tilde{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	$\phi_1 \tilde{\nu}^6, \text{cm}^{-6}$	$\phi_2 \tilde{\nu}^6, \text{cm}^{-6}$	a, cm	$\int \phi \tilde{\nu}^6 d\lambda \text{ cm}^{-5}$	
13 6	21205.0	4609.9	2.4275E-04	1.4378E-04	9.2293E 21	2.2617E 22	7.1290E-03	8.2884E 19	
14 7	21361.7	4601.3	3.9253E-04	2.4318E-04	1.4191E 22	3.7238E 22	8.5927E-03	8.2887E 19	
15 8	21428.4	4606.7	6.3104E-04	4.0158E-04	2.2215E 22	6.1031E 22	1.0442E-02	8.2891E 19	
16 9	21695.2	4652.2	1.0073E-03	6.6744E-04	3.3027E 22	9.8863E 22	1.3407E-02	8.2898E 19	
17 10	21562.3	4637.7	1.6228E-03	1.1722E-03	4.5263E 22	1.6309E 23	1.8915E-02	8.2908E 19	
18 11	21629.8	4623.3	2.9801E-03	2.4473E-03	5.4564E 22	1.0517E 23	1.2872E-02	8.2722E 19	
19 12	21697.9	4608.7	1.2227E-02	1.1780E-02	4.6707E 22	1.2753E 24	1.3513E-01	8.2942E 19	
8 0	22308.0	4466.7	4.4405E-08	3.1803E-09	5.1911E 18	5.4915E 18	4.5398E-04	8.3092E 19	
9 1	22429.2	4458.5	5.9042E-08	2.2854E-08	4.6072E 18	7.5170E 18	6.1629E-04	8.3092E 19	
10 2	22469.4	4450.5	1.2485E-07	9.3244E-08	4.0672E 18	1.6067E 19	6.7654E-03	8.3092E 19	
11 3	22508.8	4442.7	3.7590E-07	2.8642E-07	1.1637E 19	4.4888E 19	8.0422E-03	8.3092E 19	
12 4	22547.6	4435.1	1.0234E-06	7.4483E-07	3.6609E 19	1.3448E 20	9.5588E-03	8.3092E 19	
13 5	22585.9	4427.5	2.4827E-06	1.7601E-06	3.5856E 19	3.2951E 20	1.1845E-02	8.3092E 19	
14 6	22623.9	4420.1	5.6497E-06	4.0148E-06	2.1922E 20	7.5750E 20	1.5708E-02	8.3092E 19	
15 7	22661.7	4412.7	1.2888E-05	9.5883E-06	4.4689E 20	1.7457E 21	2.1622E-02	8.3092E 19	
16 8	22699.5	4405.4	3.5498E-05	2.9624E-05	8.0352E 20	4.9562E 21	4.8978E-02	8.3092E 19	
9 0	23861.7	4190.8	5.4654E-12	5.4454E-12	0.	1.0057E 15	8.8605E-03	8.3092E 19	
10 1	23873.9	4188.7	5.2213E-11	4.7325E-11	9.0491E 14	9.6675E 14	1.0693E-02	8.3092E 19	
11 2	23885.2	4186.7	2.8062E-10	2.3425E-10	8.6110E 15	5.2107E 16	1.3973E-02	8.3092E 19	
12 3	23895.7	4184.9	1.1634E-09	9.1871E-10	4.5557E 16	2.1659E 17	1.8758E-02	8.3092E 19	
13 4	23905.5	4183.1	4.4702E-09	3.4914E-09	1.8268E 17	8.3429E 17	3.0854E-02	8.3092E 19	
14 5	23914.9	4181.5	2.4056E-08	2.0610E-08	6.4460E 17	4.5037E 18	9.1337E-02	8.3092E 19	
12 2	25272.0	3956.9	4.8599E-12	4.8599E-12	0.	1.2661E 15	5.0645E-01	8.3092E 19	
11 1	25288.7	3954.2	8.2906E-14	8.2906E-14	0.	2.1639E 13	4.3481E-02	8.3092E 19	
10 0	25306.4	3951.6	4.4761E-14	4.7155E-15	1.0518E 13	1.1757E 13	2.2995E-02	8.3092E 19	

		11,000 °K									
V' V"	$\bar{\nu}$, cm ⁻¹	λ , Å	ϕ_2	$\Delta\phi$	ϕ_1	$\bar{\nu}$, cm ⁻¹	ϕ_2 , cm ⁻⁶	ϕ_1 , cm ⁻⁶	a, cm	$\int \phi \bar{\nu}^6 d\lambda$ cm ⁻⁵	
14 15	11322.6	8931.5	6.107E-01	1.212E-02	1.181E-04	1.350E-04	1.350E-04	1.350E-04	1.251E-03	1.562E-19	
11 12	11411.3	8761.1	5.185E-01	5.470E-03	1.311E-04	1.323E-04	1.323E-04	1.323E-04	1.253E-03	1.642E-19	
7 7	11485.1	8732.7	5.190E-01	2.216E-03	1.291E-04	1.296E-04	1.296E-04	1.296E-04	1.255E-03	1.580E-19	
7 7	11505.9	8691.2	1.424E-01	1.923E-01	1.252E-04	1.257E-04	1.257E-04	1.257E-04	1.257E-04	1.733E-19	
12 13	11711.9	8536.9	5.106E-01	7.212E-03	1.481E-04	1.521E-04	1.521E-04	1.521E-04	1.273E-03	1.678E-19	
8 8	11722.6	8522.7	5.162E-01	1.011E-02	1.493E-04	1.517E-04	1.517E-04	1.517E-04	1.274E-03	1.685E-19	
3 2	11741.7	8511.6	5.161E-01	2.401E-02	1.491E-04	1.517E-04	1.517E-04	1.517E-04	1.274E-03	1.687E-19	
9 9	11792.0	8461.3	4.414E-01	1.557E-02	1.331E-04	1.331E-04	1.331E-04	1.331E-04	1.274E-03	2.264E-19	
4 3	11991.7	8339.9	4.488E-01	1.127E-01	1.176E-04	1.176E-04	1.176E-04	1.176E-04	1.275E-03	2.265E-19	
12 14	12015.0	8322.3	4.486E-01	7.045E-03	1.178E-04	1.178E-04	1.178E-04	1.178E-04	1.275E-03	2.268E-19	
5 4	12212.1	8175.2	3.721E-01	2.432E-02	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.275E-03	2.677E-19	
10 10	12255.9	8156.6	3.736E-01	1.011E-02	1.059E-04	1.059E-04	1.059E-04	1.059E-04	1.274E-03	2.500E-19	
14 15	12311.2	8111.7	4.435E-01	5.476E-03	1.059E-04	1.059E-04	1.059E-04	1.059E-04	1.274E-03	2.245E-19	
6 5	12472.0	8017.3	3.457E-01	4.501E-02	1.134E-04	1.134E-04	1.134E-04	1.134E-04	1.274E-03	2.671E-19	
11 11	12522.7	7981.6	3.349E-01	1.157E-02	1.251E-04	1.251E-04	1.251E-04	1.251E-04	1.272E-03	2.717E-19	
15 14	12527.6	7974.6	3.349E-01	1.157E-02	1.251E-04	1.251E-04	1.251E-04	1.251E-04	1.272E-03	2.717E-19	
5 4	12712.5	7866.4	3.193E-01	4.705E-02	1.167E-04	1.167E-04	1.167E-04	1.167E-04	1.271E-03	2.750E-19	
12 12	12802.4	7812.1	2.449E-01	4.637E-03	1.155E-04	1.155E-04	1.155E-04	1.155E-04	1.271E-03	2.928E-19	
2 0	12936.6	7725.1	4.443E-01	1.163E-01	1.163E-04	1.163E-04	1.163E-04	1.163E-04	1.271E-03	3.003E-19	
8 7	12954.9	7719.7	4.443E-01	1.163E-01	1.163E-04	1.163E-04	1.163E-04	1.163E-04	1.271E-03	3.003E-19	
11 11	13011.7	7680.1	4.441E-01	1.163E-01	1.163E-04	1.163E-04	1.163E-04	1.163E-04	1.271E-03	3.003E-19	
3 1	13151.2	7619.7	6.137E-01	2.452E-01	1.101E-04	1.101E-04	1.101E-04	1.101E-04	1.271E-03	3.003E-19	
5 4	13154.2	7619.1	6.137E-01	2.452E-01	1.101E-04	1.101E-04	1.101E-04	1.101E-04	1.271E-03	3.003E-19	
14 14	13164.2	7616.0	6.137E-01	2.452E-01	1.101E-04	1.101E-04	1.101E-04	1.101E-04	1.271E-03	3.003E-19	
10 9	13167.0	7616.0	6.137E-01	2.452E-01	1.101E-04	1.101E-04	1.101E-04	1.101E-04	1.271E-03	3.003E-19	
16 4	13434.7	7461.4	6.108E-01	4.414E-01	1.011E-04	1.011E-04	1.011E-04	1.011E-04	1.271E-03	3.544E-19	
10 9	13586.1	7361.7	6.126E-01	1.011E-01	1.011E-04	1.011E-04	1.011E-04	1.011E-04	1.271E-03	3.544E-19	
16 4	13611.2	7341.7	6.126E-01	1.011E-01	1.011E-04	1.011E-04	1.011E-04	1.011E-04	1.271E-03	3.544E-19	
11 10	13675.4	7311.4	5.427E-01	1.727E-01	1.127E-04	1.127E-04	1.127E-04	1.127E-04	1.271E-03	4.142E-19	
7 4	13792.5	7225.1	5.018E-01	3.441E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	4.637E-19	
13 11	13891.7	7131.7	4.710E-01	2.710E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	4.637E-19	
12 11	13911.6	7111.7	4.710E-01	2.710E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	4.637E-19	
7 5	14004.5	7046.6	3.144E-01	1.714E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	4.637E-19	
14 14	14011.7	7046.6	3.144E-01	1.714E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	4.637E-19	
8 7	14211.1	6946.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
14 13	14311.7	6846.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
7 6	14431.7	6746.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
10 8	14431.7	6746.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
14 16	14431.7	6746.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
4 3	14711.5	6546.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
11 9	14802.5	6446.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
16 15	14802.5	6446.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
5 2	14924.6	6346.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
12 10	15012.2	6246.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
17 10	15111.7	6146.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
6 4	15147.6	6111.7	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
13 11	15174.5	6086.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
17 6	15174.5	6086.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
14 12	15482.2	5886.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
8 5	15507.1	5846.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
8 4	15601.1	5746.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
15 12	15701.7	5646.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
16 7	15872.3	5546.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
16 6	15911.1	5511.7	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
11 8	16055.4	5411.7	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
17 15	16131.6	5346.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
12 9	16237.3	5246.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
10 16	16342.6	5146.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
5 1	16361.1	5111.7	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
12 17	16521.1	4946.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
6 2	16516.5	4946.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
15 11	16501.1	4911.7	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
7 5	16677.1	4786.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
15 12	16703.2	4746.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
8 4	16761.1	4686.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
16 13	16971.6	4546.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
9 5	16981.7	4511.7	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
16 6	17011.1	4486.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
17 14	17157.2	4386.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
11 7	17281.0	4286.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
12 8	17311.1	4246.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
12 8	17441.1	4146.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
15 11	17531.1	4046.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
13 9	17591.2	3986.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
14 10	17741.1	3846.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
5 0	17792.4	3806.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
11 11	17901.6	3706.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
6 1	17921.4	3676.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
7 2	17921.4	3676.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
16 12	18091.1	3546.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03	5.018E-19	
8 3	18174.7	3446.1	2.401E-01	4.401E-01	1.111E-04	1.111E-04	1.111E-04	1.111E-04	1.271E-03		

11,000 °K										
V' V"	$\tilde{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	ϕ_1	$\tilde{\nu}^6, \text{cm}^{-6}$	$\phi_2 \tilde{\nu}^6, \text{cm}^{-6}$	a, cm	$\int \phi \tilde{\nu}^6 d\lambda \text{ cm}^{-5}$	
13 C	21295.0	4735.3	3.2207E-06	2.2E-06	3.2207E-06	2.2E-06	2.2E-06	2.2E-06	2.2E-06	2.2E-06
14 F	21361.7	4681.5	1.1643E-03	2.1E-06	1.1643E-03	2.1E-06	2.1E-06	2.1E-06	2.1E-06	2.1E-06
15 F	21428.4	4646.7	1.7270E-03	3.1E-06	1.7270E-03	3.1E-06	3.1E-06	3.1E-06	3.1E-06	3.1E-06
16 G	21459.2	4632.7	2.7633E-03	1.6E-06	2.7633E-03	1.6E-06	1.6E-06	1.6E-06	1.6E-06	1.6E-06
17 1C	21562.3	4597.7	4.5567E-03	3.1E-06	4.5567E-03	3.1E-06	3.1E-06	3.1E-06	3.1E-06	3.1E-06
18 11	21629.4	4572.4	4.7550E-03	6.4E-06	4.7550E-03	6.4E-06	6.4E-06	6.4E-06	6.4E-06	6.4E-06
19 12	21697.5	4549.7	3.6533E-02	3.6E-06	3.6533E-02	3.6E-06	3.6E-06	3.6E-06	3.6E-06	3.6E-06
E L	21732.5	4536.7	3.1133E-06	6.4E-06	3.1133E-06	6.4E-06	6.4E-06	6.4E-06	6.4E-06	6.4E-06
9 I	21729.2	4538.9	2.1439E-06	6.4E-06	2.1439E-06	6.4E-06	6.4E-06	6.4E-06	6.4E-06	6.4E-06
10 J	22069.6	4490.5	2.7156E-06	1.5E-06	2.7156E-06	1.5E-06	1.5E-06	1.5E-06	1.5E-06	1.5E-06
11 J	22088.6	4482.7	2.0317E-06	3.0E-06	2.0317E-06	3.0E-06	3.0E-06	3.0E-06	3.0E-06	3.0E-06
12 G	22047.5	4495.1	3.0676E-06	1.3E-06	3.0676E-06	1.3E-06	1.3E-06	1.3E-06	1.3E-06	1.3E-06
13 A	22065.5	4492.9	3.0554E-06	1.2E-06	3.0554E-06	1.2E-06	1.2E-06	1.2E-06	1.2E-06	1.2E-06
14 A	22073.7	4490.1	1.2714E-05	3.0E-06	1.2714E-05	3.0E-06	3.0E-06	3.0E-06	3.0E-06	3.0E-06
15 J	22061.7	4492.7	3.0676E-06	1.3E-06	3.0676E-06	1.3E-06	1.3E-06	1.3E-06	1.3E-06	1.3E-06
16 A	22095.5	4485.5	2.0407E-05	1.6E-06	2.0407E-05	1.6E-06	1.6E-06	1.6E-06	1.6E-06	1.6E-06
9 C	22061.7	4490.1	1.2714E-05	3.0E-06	1.2714E-05	3.0E-06	3.0E-06	3.0E-06	3.0E-06	3.0E-06
10 F	22073.4	4492.7	1.2714E-05	3.0E-06	1.2714E-05	3.0E-06	3.0E-06	3.0E-06	3.0E-06	3.0E-06
11 J	22085.2	4485.2	5.4671E-10	6.0E-06	5.4671E-10	6.0E-06	6.0E-06	6.0E-06	6.0E-06	6.0E-06
12 F	22095.7	4485.9	3.2163E-05	1.7E-06	3.2163E-05	1.7E-06	1.7E-06	1.7E-06	1.7E-06	1.7E-06
13 G	22095.5	4492.7	3.0676E-06	1.3E-06	3.0676E-06	1.3E-06	1.3E-06	1.3E-06	1.3E-06	1.3E-06
14 G	22114.5	4471.5	4.1518E-06	6.4E-06	4.1518E-06	6.4E-06	6.4E-06	6.4E-06	6.4E-06	6.4E-06
12 J	22272.0	4456.9	3.0726E-12	1.0E-06	3.0726E-12	1.0E-06	1.0E-06	1.0E-06	1.0E-06	1.0E-06
11 I	25215.7	3784.2	1.5030E-13	1.4E-06	1.5030E-13	1.4E-06	1.4E-06	1.4E-06	1.4E-06	1.4E-06
10 C	25306.4	3751.6	2.250E-15	1.4E-06	2.250E-15	1.4E-06	1.4E-06	1.4E-06	1.4E-06	1.4E-06

N ₂ SECOND POSITIVE									
N1/N2	0	1	2	3	4	5	6	7	8
0	4.4929E-01	3.2870E-01	1.4691E-01	5.2258E-02	1.6345E-02	4.7260E-03	1.2949E-03	3.4632E-04	9.2427E-05
1	3.8986E-01	1.8685E-02	2.0376E-01	2.0027E-01	1.1238E-01	4.8391E-02	1.7904E-02	6.3242E-03	1.7045E-03
2	1.3494E-01	3.2232E-01	3.2988E-02	5.9570E-02	1.6138E-01	1.4274E-01	8.3030E-02	3.8599E-02	1.5642E-02
3	2.3630E-02	2.5146E-01	1.6304E-01	1.1812E-01	1.8410E-03	8.8906E-02	1.3450E-01	1.3624E-01	6.1610E-02
4	7.1905E-03	6.9566E-02	3.0342E-01	4.7523E-02	1.5698E-01	1.4160E-02	2.7388E-02	9.4550E-02	1.1250E-01
	9.9991E-01	9.9073E-01	8.5012E-01	4.7774E-01	4.4893E-01	2.9892E-01	2.6612E-01	2.5076E-01	1.8975E-01
N1/N2	10	11	12	13	14	15	16	17	18
0	5.9777E-06	1.5275E-06	3.4014E-07	9.9745E-03	2.5519E-08	5.5466E-09	1.6780E-09	4.2921E-10	1.0925E-10
1	1.7024E-04	4.9252E-05	1.4075E-05	3.9912E-06	1.1265E-06	3.1711E-07	8.9119E-08	2.5012E-08	7.0048E-09
2	2.0181E-03	6.7377E-04	2.1835E-04	6.9311E-05	2.1688E-05	6.7206E-06	2.0690E-06	6.3413E-07	1.9314E-07
3	1.2816E-02	5.0889E-03	1.9106E-03	6.8923E-04	2.4164E-04	8.3002E-05	2.8101E-05	9.4178E-06	3.1341E-06
4	4.6144E-02	2.2924E-02	1.0317E-02	4.3321E-03	1.7409E-03	6.6710E-04	2.5045E-04	9.2257E-05	3.3524E-05
	6.1154E-02	2.8737E-02	1.2460E-02	5.0947E-03	1.9954E-03	7.5715E-04	2.8071E-04	1.0233E-04	3.5859E-05
N1/N2	20	21							
0	6.8697E-12	1.6833E-12	10.0000E-01						
1	5.4183E-10	1.4846E-10	10.0000E-01						
2	1.7929E-08	5.4207E-09	1.0000E-00						
3	3.4236E-07	1.1258E-07	1.0000E-00						
4	4.3127E-06	1.5344E-06	1.0000E-00						
	4.6735E-06	1.6526E-06							

8000 °K

SPECTRAL DISTRIBUTION FUNCTION AND RELATED PARAMETERS, N2 SECOND POSITIVE

11,000 °K

$V' - V''$	$\tilde{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	$\phi_1 \tilde{\nu}^6, \text{cm}^{-6}$	$\phi_2 \tilde{\nu}^6, \text{cm}^{-6}$	a, cm	$\int \phi \tilde{\nu}^6 d\lambda \text{ cm}^{-5}$
0 27	1065.6	27272.3	3.118E-12	3.113E-12	0.	4.540E-06	4.2761E-04	0.
1 25	1932.4	15222.1	5.435E-11	5.429E-11	1.137E-08	2.749E-09	4.2441E-04	1.2510E-04
2 23	2221.1	13509.0	4.902E-11	4.896E-11	1.412E-08	3.274E-09	4.2427E-04	2.4805E-05
3 21	3095.0	12270.8	3.706E-10	3.696E-10	3.662E-07	1.072E-08	4.2373E-04	2.3777E-06
4 19	3464.4	11230.0	2.478E-09	2.468E-09	2.070E-07	4.402E-08	4.2347E-04	1.0740E-07
5 17	3873.9	10380.0	1.713E-08	1.703E-08	3.766E-07	2.164E-08	4.2319E-04	3.0027E-07
6 15	4291.1	9479.6	1.272E-07	1.262E-07	3.847E-07	1.040E-07	4.2290E-04	1.7566E-08
7 13	4618.5	8765.8	2.087E-07	2.077E-07	1.036E-06	2.755E-08	4.2261E-04	4.4621E-08
8 12	5000.7	8997.9	4.097E-07	4.087E-07	2.752E-06	1.643E-07	4.2232E-04	8.7504E-08
9 10	5395.3	8359.7	8.850E-07	8.840E-07	1.860E-06	2.154E-07	4.2198E-04	9.4293E-09
10 9	5747.9	7773.4	1.780E-06	1.770E-06	3.675E-06	1.129E-07	4.2169E-04	5.4333E-09
11 8	6160.7	7302.7	3.711E-06	3.701E-06	7.073E-06	1.301E-06	4.2139E-04	7.7183E-10
12 7	6550.6	6845.4	6.260E-06	6.250E-06	1.043E-05	1.972E-06	4.2109E-04	1.0913E-11
13 6	6941.5	6401.2	1.055E-05	1.045E-05	1.536E-05	2.815E-06	4.2079E-04	2.1071E-10
14 5	7324.5	6061.1	1.738E-05	1.728E-05	2.418E-05	4.094E-06	4.2049E-04	5.7689E-10
15 4	7699.2	5724.1	2.738E-05	2.728E-05	3.613E-05	5.914E-06	4.2019E-04	1.1022E-11
16 3	8075.7	5391.7	4.132E-05	4.122E-05	5.261E-05	8.491E-06	4.1989E-04	1.4950E-11
17 2	8451.1	5061.1	6.220E-05	6.210E-05	7.671E-05	1.250E-05	4.1959E-04	2.1102E-11
18 1	8824.5	4732.1	9.024E-05	9.014E-05	1.094E-04	1.814E-05	4.1929E-04	1.0913E-11
19 0	9195.9	4405.1	1.272E-04	1.262E-04	1.507E-04	2.594E-05	4.1899E-04	1.0709E-12
20 0	9567.3	4080.1	1.738E-04	1.728E-04	2.073E-04	3.675E-05	4.1869E-04	1.1022E-11
21 0	9938.7	3757.1	2.738E-04	2.728E-04	2.418E-04	5.261E-05	4.1839E-04	1.4950E-11
22 0	10309.1	3436.1	4.132E-04	4.122E-04	3.613E-04	7.671E-05	4.1809E-04	2.1102E-11
23 0	10679.5	3117.1	6.220E-04	6.210E-04	5.261E-04	1.094E-04	4.1779E-04	1.0913E-11
24 0	11049.9	2800.1	9.024E-04	9.014E-04	7.671E-04	1.507E-04	4.1749E-04	1.0709E-12
25 0	11420.3	2485.1	1.272E-03	1.262E-03	1.094E-03	2.073E-04	4.1719E-04	1.1022E-11
26 0	11790.7	2172.1	1.738E-03	1.728E-03	1.507E-03	2.815E-04	4.1689E-04	1.4950E-11
27 0	12161.1	1861.1	2.738E-03	2.728E-03	2.073E-03	3.675E-04	4.1659E-04	2.1102E-11
28 0	12531.5	1552.1	4.132E-03	4.122E-03	3.613E-03	5.261E-04	4.1629E-04	1.0913E-11
29 0	12901.9	1245.1	6.220E-03	6.210E-03	5.261E-03	7.671E-04	4.1599E-04	1.0709E-12
30 0	13272.3	938.1	9.024E-03	9.014E-03	7.671E-03	1.094E-03	4.1569E-04	1.1022E-11
31 0	13642.7	633.1	1.272E-02	1.262E-02	1.094E-02	1.507E-03	4.1539E-04	1.4950E-11
32 0	14013.1	328.1	1.738E-02	1.728E-02	1.507E-02	2.073E-03	4.1509E-04	2.1102E-11
33 0	14383.5	25.1	2.738E-02	2.728E-02	2.073E-02	2.815E-03	4.1479E-04	1.0913E-11
34 0	14753.9	0.	4.132E-02	4.122E-02	3.613E-02	3.675E-03	4.1449E-04	1.0709E-12
35 0	15124.3	0.	6.220E-02	6.210E-02	5.261E-02	5.261E-03	4.1419E-04	1.1022E-11
36 0	15494.7	0.	9.024E-02	9.014E-02	7.671E-02	7.671E-03	4.1389E-04	1.4950E-11
37 0	15865.1	0.	1.272E-01	1.262E-01	1.094E-01	1.094E-02	4.1359E-04	2.1102E-11
38 0	16235.5	0.	1.738E-01	1.728E-01	1.507E-01	1.507E-02	4.1329E-04	1.0913E-11
39 0	16605.9	0.	2.738E-01	2.728E-01	2.073E-01	2.073E-02	4.1299E-04	1.0709E-12
40 0	16976.3	0.	4.132E-01	4.122E-01	3.613E-01	3.675E-02	4.1269E-04	1.1022E-11
41 0	17346.7	0.	6.220E-01	6.210E-01	5.261E-01	5.261E-02	4.1239E-04	1.4950E-11
42 0	17717.1	0.	9.024E-01	9.014E-01	7.671E-01	7.671E-02	4.1209E-04	2.1102E-11
43 0	18087.5	0.	1.272E-00	1.262E-00	1.094E-00	1.094E-01	4.1179E-04	1.0913E-11
44 0	18457.9	0.	1.738E-00	1.728E-00	1.507E-00	1.507E-01	4.1149E-04	1.0709E-12
45 0	18828.3	0.	2.738E-00	2.728E-00	2.073E-00	2.073E-01	4.1119E-04	1.1022E-11
46 0	19198.7	0.	4.132E-00	4.122E-00	3.613E-00	3.675E-01	4.1089E-04	1.4950E-11
47 0	19569.1	0.	6.220E-00	6.210E-00	5.261E-00	5.261E-01	4.1059E-04	2.1102E-11
48 0	19939.5	0.	9.024E-00	9.014E-00	7.671E-00	7.671E-01	4.1029E-04	1.0913E-11
49 0	20309.9	0.	1.272E-01	1.262E-01	1.094E-01	1.094E-01	4.0999E-04	1.0709E-12
50 0	20680.3	0.	1.738E-01	1.728E-01	1.507E-01	1.507E-01	4.0969E-04	1.1022E-11
51 0	21050.7	0.	2.738E-01	2.728E-01	2.073E-01	2.073E-01	4.0939E-04	1.4950E-11
52 0	21421.1	0.	4.132E-01	4.122E-01	3.613E-01	3.675E-01	4.0909E-04	2.1102E-11
53 0	21791.5	0.	6.220E-01	6.210E-01	5.261E-01	5.261E-01	4.0879E-04	1.0913E-11
54 0	22161.9	0.	9.024E-01	9.014E-01	7.671E-01	7.671E-01	4.0849E-04	1.0709E-12
55 0	22532.3	0.	1.272E-00	1.262E-00	1.094E-00	1.094E-00	4.0819E-04	1.1022E-11
56 0	22902.7	0.	1.738E-00	1.728E-00	1.507E-00	1.507E-00	4.0789E-04	1.4950E-11
57 0	23273.1	0.	2.738E-00	2.728E-00	2.073E-00	2.073E-00	4.0759E-04	2.1102E-11
58 0	23643.5	0.	4.132E-00	4.122E-00	3.613E-00	3.675E-00	4.0729E-04	1.0913E-11
59 0	24013.9	0.	6.220E-00	6.210E-00	5.261E-00	5.261E-00	4.0699E-04	1.0709E-12
60 0	24384.3	0.	9.024E-00	9.014E-00	7.671E-00	7.671E-00	4.0669E-04	1.1022E-11
61 0	24754.7	0.	1.272E-01	1.262E-01	1.094E-01	1.094E-01	4.0639E-04	1.4950E-11
62 0	25125.1	0.	1.738E-01	1.728E-01	1.507E-01	1.507E-01	4.0609E-04	2.1102E-11
63 0	25495.5	0.	2.738E-01	2.728E-01	2.073E-01	2.073E-01	4.0579E-04	1.0913E-11
64 0	25865.9	0.	4.132E-01	4.122E-01	3.613E-01	3.675E-01	4.0549E-04	1.0709E-12
65 0	26236.3	0.	6.220E-01	6.210E-01	5.261E-01	5.261E-01	4.0519E-04	1.1022E-11
66 0	26606.7	0.	9.024E-01	9.014E-01	7.671E-01	7.671E-01	4.0489E-04	1.4950E-11
67 0	26977.1	0.	1.272E-00	1.262E-00	1.094E-00	1.094E-00	4.0459E-04	2.1102E-11
68 0	27347.5	0.	1.738E-00	1.728E-00	1.507E-00	1.507E-00	4.0429E-04	1.0913E-11
69 0	27717.9	0.	2.738E-00	2.728E-00	2.073E-00	2.073E-00	4.0399E-04	1.0709E-12
70 0	28088.3	0.	4.132E-00	4.122E-00	3.613E-00	3.675E-00	4.0369E-04	1.1022E-11
71 0	28458.7	0.	6.220E-00	6.210E-00	5.261E-00	5.261E-00	4.0339E-04	1.4950E-11
72 0	28829.1	0.	9.024E-00	9.014E-00	7.671E-00	7.671E-00	4.0309E-04	2.1102E-11
73 0	29199.5	0.	1.272E-01	1.262E-01	1.094E-01	1.094E-01	4.0279E-04	1.0913E-11
74 0	29569.9	0.	1.738E-01	1.728E-01	1.507E-01	1.507E-01	4.0249E-04	1.0709E-12
75 0	29940.3	0.	2.738E-01	2.728E-01	2.073E-01	2.073E-01	4.0219E-04	1.1022E-11
76 0	30310.7	0.	4.132E-01	4.122E-01	3.613E-01	3.675E-01	4.0189E-04	1.4950E-11
77 0	30681.1	0.	6.220E-01	6.210E-01	5.261E-01	5.261E-01	4.0159E-04	2.1102E-11
78 0	31051.5	0.	9.024E-01	9.014E-01	7.671E-01	7.671E-01	4.0129E-04	1.0913E-11
79 0	31421.9	0.	1.272E-00	1.262E-00	1.094E-00	1.094E-00	4.0099E-04	1.0709E-12
80 0	31792.3	0.	1.738E-00	1.728E-00	1.507E-00	1.507E-00	4.0069E-04	1.1022E-11
81 0	32162.7	0.	2.738E-00	2.728E-00	2.073E-00	2.073E-00	4.0039E-04	1.4950E-11
82 0	32533.1	0.	4.132E-00	4.122E-00	3.613E-00	3.675E-00	4.0009E-04	2.1102E-11
83 0	32903.5	0.	6.220E-00	6.210E-00	5.261E-00	5.261E-00	3.9979E-04	1.0913E-11
84 0	33273.9	0.	9.024E-00	9.014E-00	7.671E-00	7.671E-00	3.9949E-04	1.0709E-12
85 0	33644.3	0.	1.272E-01	1.262E-01	1.094E-01	1.094E-01	3.9919E-04	1.1022E-11
86 0	34014.7	0.	1.738E-01	1.728E-01	1.507E-01	1.507E-01	3.9889E-04	1.4950E-11
87 0	34385.1	0.	2.738E-01	2.728E-01	2.073E-01	2.073E-01	3.9859E-04	2.1102E-11
88 0	34755.5	0.	4.132E-01	4.122E-01	3.613E-01	3.675E-01	3.9829E-04	1.0913E-11
89 0	35125.9	0.	6.220E-01	6.210E-01	5.261E-01	5.261E-01	3.9799E-04	1.0709E-12
90 0	35496.3	0.	9.024E-01	9.014E-01	7.671E-01	7.671E-01	3.9769E-04	1.1022E-11
91 0	35866.7	0.	1.272E-00	1.262E-00	1.094E-00	1.094E-00	3.9739E-04	1.4950E-11
92 0	36237.1	0.	1.738E-00	1.728E-00	1.507E-00	1.507E-00	3.9709E-04	2.1102E-11
93 0	36607.5	0.	2.738E-00	2.728E-00	2.073E-00	2.073E-00	3.9679E-04	1.0913E-11
94 0	36977.9	0.	4.132E-00	4.122E-00	3.613E-00	3.675E-00	3.9649E-04	1.0709E-12
95 0	37348.3	0.	6.220E-00	6.210E-00	5.261E-00	5.261E-00	3.9619E-04	1.1022E-11
96 0	37718.7	0.	9.024E-00	9.014E-00	7.671E-00	7.671E-00	3.9589E-04	1.4950E-11
97 0	38089.1	0.	1.272E-01	1.262E-01	1.094E-01	1.094E-01	3.9559E-04	2.1102E-11
98 0	38459.5	0.	1.738E-01	1.728E-01	1.507E-01	1.507E-01	3.9529E-04	1.0913E-11
99 0	38829.9	0.	2.738E-01	2.728E-01	2.073E-01	2.073E-01	3.9499E-04	1.0709E-12
100 0	39200.3	0.	4.132E-01	4.122E-01	3.613E-01	3.675E-01	3.9469E-04	1.1022E-11

N ₂ BIRGE-HOPFIELD (B ⁺ -X [*])*†									
N1/N2	0	1	2	3	4	5	6	7	8
0	4.3881E-03	1.5565E-02	3.5315E-02	6.1489E-02	8.9245E-02	1.1226E-01	1.2539E-01	1.2528E-01	1.1588E-01
1	2.6580E-02	6.3335E-02	9.6915E-02	1.0657E-01	8.7773E-02	5.3917E-02	1.6163E-02	2.5719E-04	8.4419E-03
2	7.8505E-02	1.1127E-01	9.6939E-02	4.5375E-02	5.7324E-03	4.4362E-03	3.2143E-02	5.7932E-02	5.8701E-02
3	1.4955E-01	1.0009E-01	2.9981E-02	2.3413E-04	2.6639E-02	5.5279E-02	4.6307E-02	1.5302E-02	1.4521E-05
4	2.0448E-01	3.5604E-02	9.7769E-04	4.1285E-02	5.3766E-02	2.2671E-02	1.7431E-05	1.7303E-02	4.2592E-02
5	2.1069E-01	1.5269E-04	3.6592E-02	5.6653E-02	1.0649E-02	4.0231E-03	3.4643E-02	3.4936E-02	1.2412E-02
	6.7419E-01	3.2602E-01	2.9672E-01	3.1161E-01	2.7380E-01	2.4959E-01	2.5467E-01	2.5601E-01	2.3814E-01
N1/N2	10	11	12	13	14	15	16	17	18
0	7.5875E-02	5.4636E-02	3.6545E-02	2.2749E-02	1.3195E-02	7.1357E-03	3.5985E-03	1.5917E-03	7.4095E-04
1	6.2855E-02	8.3738E-02	9.0374E-02	8.3427E-02	6.7782E-02	4.9289E-02	3.2415E-02	1.7411E-02	1.2629E-02
2	9.8873E-03	7.2767E-05	1.2898E-02	3.9838E-02	6.6116E-02	8.0369E-02	7.9348E-02	6.5730E-02	4.9051E-02
3	4.2251E-02	5.1715E-02	3.6022E-02	1.1320E-02	3.0632E-07	1.1593E-02	3.8358E-02	6.4377E-02	1.7349E-02
4	1.2613E-02	1.0168E-04	1.6100E-02	4.0750E-02	4.6355E-02	2.8178E-02	5.7821E-03	1.2237E-03	1.9606E-02
5	2.1221E-02	3.9799E-02	2.8379E-02	5.0315E-03	2.8351E-03	2.4983E-02	4.4019E-02	3.8065E-02	1.5000E-02
	2.2470E-01	2.3006E-01	2.2032E-01	2.0312E-01	1.9628E-01	2.0155E-01	2.0352E-01	1.9150E-01	1.7239E-01
N1/N2	20	21	22	23	24	25	26	27	
0	1.1441E-04	4.0207E-05	1.3080E-05	3.9291E-06	1.0866E-06	2.7565E-07	6.3882E-08	1.3477E-08	1.0001E-08
1	2.4602E-03	1.0418E-03	4.0513E-04	1.4452E-04	4.7207E-05	1.4088E-05	3.8298E-06	9.4472E-07	1.0001E-07
2	1.8737E-02	9.8863E-03	4.7218E-03	2.0452E-03	8.0391E-04	2.8663E-04	9.2566E-05	2.7013E-05	1.0001E-05
3	6.0145E-02	4.2070E-02	2.5855E-02	1.4100E-02	6.8629E-03	2.9919E-03	1.1698E-03	4.1322E-04	9.9991E-04
4	7.0450E-02	7.6065E-02	6.6386E-02	4.8807E-02	3.0929E-02	1.7123E-02	8.3489E-03	3.5313E-03	9.7806E-03
5	9.6300E-03	3.7098E-02	6.3977E-02	7.5602E-02	6.9487E-02	5.2537E-02	3.3641E-02	1.8553E-02	9.8551E-01
	1.6154E-01	1.6620E-01	1.6136E-01	1.4070E-01	1.0813E-01	7.7953E-02	4.3255E-02	2.2592E-02	

2000 °K											
V' V'	$\tilde{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	ϕ_1	$\tilde{\nu}^e, \text{cm}^{-1}$	ϕ_2^e, cm^{-1}	a, cm	$f\phi\tilde{\nu}^e d\lambda \text{ cm}^{-5}$		
1 16	65989.3	1515.5	1.0897E-01	9.3510E-02	1.2761E 27	8.49934E 27	-3.4777E-03	1.7300E 23			
3 17	65482.6	1527.1	9.2610E-02	7.3569E-02	1.5012E 27	7.3016E 27	-3.7008E-03	1.7336E 23			
C 14	65292.3	1531.6	6.3256E-02	1.7066E-02	7.5139E 27	4.8961E 27	-3.4777E-03	1.7372E 23			
5 18	64586.2	1538.8	2.1724E-02	6.9582E-03	1.5638E 27	2.0879E 27	-3.4981E-03	1.7393E 23			
2 17	64605.6	1541.1	1.5844E-01	1.2411E-01	1.0613E 27	1.0255E 28	-3.7008E-03	1.7399E 23			
4 18	64321.2	1554.7	3.7622E-02	1.4653E-02	1.6265E 27	2.0642E 27	-3.4981E-03	1.7453E 23			
1 17	64121.6	1559.5	7.6859E-02	3.9052E-02	1.2238E 27	5.3283E 27	-3.7008E-03	1.7462E 23			
3 18	63651.2	1571.1	1.0808E-01	9.3322E-02	0.8083E 26	7.1062E 27	-3.2681E-03	1.7491E 23			
C 17	63430.6	1576.5	5.3265E-02	8.4406E-03	2.9182E 27	3.4692E 27	-3.2681E-03	1.7531E 23			
5 19	63183.1	1582.7	2.0389E-02	1.1329E-04	1.2900E 27	1.7972E 27	-4.2490E-03	1.7530E 23			
2 18	62974.2	1588.0	1.0564E-01	9.6634E-02	5.6328E 26	6.5903E 27	-3.9681E-03	1.7535E 23			
4 19	62520.1	1599.5	5.5957E-02	3.8508E-02	1.0421E 27	3.3417E 27	-4.2490E-03	1.7550E 23			
1 18	62290.2	1605.4	5.5652E-02	3.4244E-02	1.2549E 27	3.2532E 27	-3.9681E-03	1.7582E 23			
3 19	61856.1	1616.8	1.0508E-01	9.5764E-02	5.2371E 26	5.8827E 27	-4.2490E-03	1.7599E 23			
C 18	61559.7	1623.4	4.0118E-02	3.9244E-03	1.9773E 27	2.1917E 27	-3.9681E-03	1.7622E 23			
5 20	61412.5	1628.3	2.3338E-02	5.0878E-03	8.7903E 26	1.2520E 27	-4.6193E-03	1.7630E 23			
2 19	61173.1	1634.7	7.5382E-02	6.7124E-02	4.3276E 26	3.9503E 27	-4.2490E-03	1.7635E 23			
4 20	60746.5	1646.1	7.2294E-02	5.9969E-02	6.1952E 26	3.6338E 27	-4.2490E-03	1.7659E 23			
1 19	60489.1	1653.2	4.0333E-02	1.8297E-02	1.0794E 27	1.9757E 27	-4.6193E-03	1.7680E 23			
3 20	60276.5	1664.5	8.9454E-02	8.2904E-02	3.0804E 26	4.2008E 27	-4.2490E-03	1.7699E 23			
C 19	59758.1	1672.3	2.9184E-02	1.1023E-03	1.1193E 27	1.1972E 27	-4.6193E-03	1.7702E 23			
5 21	59672.5	1675.8	3.5850E-02	2.1116E-02	6.6522E 26	1.6166E 27	-4.6193E-03	1.7709E 23			
2 20	59402.5	1683.4	5.1703E-02	4.2033E-02	4.2488E 26	2.2717E 27	-5.0323E-03	1.7720E 23			
4 21	59109.5	1694.6	7.8035E-02	6.9757E-02	3.4950E 26	3.2947E 27	-5.0323E-03	1.7720E 23			
1 20	58718.9	1703.0	2.7282E-02	9.0274E-03	7.4820E 26	1.1182E 27	-4.6193E-03	1.7734E 23			
3 21	58339.5	1714.1	6.6777E-02	6.2475E-02	1.6961E 26	2.6327E 27	-5.0323E-03	1.7740E 23			
C 20	58027.7	1723.3	1.4626E-02	6.9014E-04	5.3204E 26	5.5839E 26	-4.6193E-03	1.7752E 23			
5 22	57763.3	1725.2	5.0155E-02	3.9543E-02	4.0245E 26	1.9021E 27	-5.5263E-03	1.7759E 23			
2 21	57662.5	1734.2	3.1742E-02	2.3894E-02	3.6703E 26	1.7403E 27	-5.0323E-03	1.7761E 23			
4 22	57366.3	1745.2	7.1359E-02	6.6110E-02	1.8547E 26	2.5256E 27	-5.5263E-03	1.7767E 23			
1 21	56578.5	1755.0	1.6294E-02	4.1185E-03	4.1863E 26	5.5786E 26	-5.0323E-03	1.7779E 23			
3 22	56303.3	1765.8	4.4171E-02	4.1693E-02	8.1728E 25	1.4569E 27	-5.5263E-03	1.7782E 23			
C 21	56287.5	1776.6	6.9287E-03	2.6130E-04	2.1705E 26	2.2034E 26	-6.1279E-03	1.7789E 23			
5 23	56269.3	1776.7	5.8081E-02	1.2352E-02	2.1721E 26	1.8440E 26	-6.1279E-03	1.7797E 23			
2 22	55953.3	1787.2	2.0166E-02	1.2352E-02	2.3857E 26	6.1884E 26	-6.1279E-03	1.7800E 23			
4 23	55622.0	1797.9	5.6325E-02	5.3286E-02	1.7391E-03	1.8594E 26	-5.5263E-03	1.7807E 23			
1 22	55269.3	1809.3	8.2642E-03	2.4927E-02	3.3825E 25	7.2023E 26	-6.1279E-03	1.7809E 23			
3 23	54952.0	1819.8	2.6156E-02	4.2308E-05	9.8898E 25	1.6679E 27	-6.1279E-03	1.7812E 23			
5 24	54637.6	1830.2	5.6045E-02	5.2234E-02	1.0814E 26	1.4910E 27	-5.5263E-03	1.7814E 23			
C 22	54578.2	1832.2	3.7694E-02	4.2308E-05	1.0814E 26	1.4910E 27	-6.1279E-03	1.7814E 23			
2 24	54275.0	1842.5	1.0618E-02	5.8845E-03	1.2099E 26	2.7141E 26	-6.1279E-03	1.7824E 23			
4 24	53974.6	1852.7	3.9005E-02	1.7459E-02	3.8240E 25	8.1606E 25	-6.1279E-03	1.7824E 23			
1 23	53591.0	1866.0	3.4480E-01	1.3459E-02	1.1626E 25	3.2038E 26	-6.1279E-03	1.7824E 23			
3 24	53304.6	1876.0	1.3966E-02	1.3459E-02	4.6278E 25	1.0323E 27	-6.1279E-03	1.7829E 23			
5 25	53021.3	1886.0	4.6460E-02	4.4668E-02	3.9512E 26	3.9579E 26	-6.1279E-03	1.7830E 23			
C 23	52900.0	1896.4	1.8060E-02	3.0399E-05	3.9512E 26	3.9579E 26	-6.1279E-03	1.7830E 23			
2 25	52627.6	1900.1	4.7388E-03	2.5959E-03	4.6110E 25	1.0063E 26	-6.1279E-03	1.7830E 23			
4 25	52358.5	1909.9	2.4022E-02	2.3351E-02	1.3821E 25	4.9490E 26	-7.8335E-03	1.7831E 23			
1 24	51943.6	1925.2	1.1764E-03	2.6466E-04	1.8265E 25	2.3106E 25	-6.1279E-03	1.7833E 23			
3 25	51688.3	1934.7	6.7742E-03	6.6060E-03	3.2294E 24	1.2927E 26	-7.8335E-03	1.7833E 23			
5 26	51436.3	1944.2	3.3615E-02	3.2690E-02	1.7126E 25	6.2251E 26	-9.0998E-03	1.7833E 23			
C 24	51252.6	1951.1	6.3744E-03	9.3261E-06	1.1537E 26	1.1554E 26	-7.8335E-03	1.7836E 23			
2 26	51011.3	1960.3	1.7441E-03	1.0301E-03	1.2664E 25	3.7494E 24	-9.0998E-03	1.7836E 23			
4 26	50773.3	1969.5	1.3309E-02	1.3071E-02	4.0803E 24	2.8802E 26	-9.0998E-03	1.7836E 23			
1 25	50327.3	1987.0	3.1360E-04	8.2817E-05	3.7494E 24	5.0795E 24	-9.0998E-03	1.7837E 23			
3 26	50103.3	1995.9	3.0094E-03	2.9657E-03	6.9114E 23	4.7608E 25	-9.0998E-03	1.7837E 23			
5 27	49822.6	2004.7	2.1651E-02	2.1250E-02	6.1704E 24	3.3356E 26	-1.0855E-02	1.7839E 23			
C 25	49636.3	2014.7	1.5130E-03	2.6639E-06	2.2588E 25	2.2628E 25	-9.0998E-03	1.7839E 23			
2 27	49426.3	2023.2	5.3881E-04	3.8193E-04	2.2873E 24	7.8557E 25	-1.0855E-02	1.7839E 23			
4 27	49219.6	2031.7	6.7051E-03	6.6492E-03	8.2914E 23	9.5317E 25	-1.0855E-02	1.7839E 23			
1 26	48742.3	2051.6	6.3980E-05	2.5847E-05	5.1137E 23	8.5799E 23	-1.0855E-02	1.7839E 23			
3 27	48546.6	2059.8	1.2303E-03	1.2258E-03	5.8602E 22	1.6111E 25	-9.0998E-03	1.7839E 23			
C 26	48051.3	2081.1	6.2458E-06	7.0877E-07	6.8156E 22	7.6881E 22	-1.0855E-02	1.7839E 23			
2 27	47872.4	2088.9	1.3151E-04	1.1375E-04	1.6778E 21	1.5830E 24	-1.0855E-02	1.7839E 23			
4 27	47188.6	2114.2	7.5152E-06	7.5152E-06	0.	0.	-1.0855E-02	1.7839E 23			
C 27	46497.6	2156.7	1.7625E-07	1.7625E-07	0.	0.	-1.0855E-02	1.7839E 23			

5000 °K										
V' V''	$\tilde{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	$\phi_1, \tilde{\nu}^6, \text{cm}^{-6}$	$\phi_2, \tilde{\nu}^6, \text{cm}^{-6}$	a, cm	$\int \phi \tilde{\nu}^6 d\lambda, \text{cm}^{-5}$		
1 16	65983.3	1515.5	1.8059E-01	7.5722E-02	8.6548E 27	1.4904E 28	-1.3911E-03	3.9265E 23		
3 17	65482.6	1527.1	1.9727E-01	1.0720E-01	7.1016E 27	1.5553E 28	-1.4827E-03	3.9386E 23		
C 16	65292.3	1531.6	1.6029E-01	1.0255E-02	1.1624E 28	1.2419E 28	-1.3911E-03	3.9265E 23		
5 18	64584.2	1538.8	1.2077E-01	1.8025E-02	7.7528E 27	9.1102E 27	-1.5072E-03	3.9518E 23		
2 17	64605.6	1543.1	7.2818E-01	1.3502E-01	6.9012E 27	1.6903E 28	-1.4827E-03	3.9552E 23		
4 16	64121.6	1559.5	1.5186E-01	4.7819E-02	7.2302E 27	1.0599E 28	-1.5872E-03	3.9690E 23		
1 17	64161.2	1559.5	1.5186E-01	4.7819E-02	7.2318E 27	1.0596E 28	-1.4827E-03	3.9731E 23		
C 17	63430.6	1576.5	1.5539E-01	5.0843E-03	9.7896E 27	1.0121E 28	-1.4827E-03	3.9881E 23		
5 19	63103.1	1582.7	1.0607E-01	7.9347E-04	6.7294E 27	8.7481E 27	-1.7076E-03	1.9932E 23		
2 18	62574.2	1588.0	1.8186E-01	1.0513E-01	4.7859E 27	1.1343E 28	-1.5872E-03	3.9862E 23		
4 15	62552.1	1594.5	1.6356E-01	7.4928E-02	5.3169E 27	9.7916E 27	-1.7076E-03	4.0054E 23		
1 18	62290.2	1605.4	1.6033E-01	7.7730E-02	4.5772E 27	8.1910E 27	-1.5872E-03	4.0102E 23		
3 15	61850.1	1616.8	2.0824E-01	1.3954E-01	3.8460E 27	1.1658E 28	-1.7076E-03	4.0187E 23		
C 18	61559.2	1623.4	1.3887E-01	2.3583E-01	7.4581E 27	7.5869E 27	-1.5872E-03	4.0229E 23		
5 20	61412.5	1628.3	1.1473E-01	1.3160E-02	5.4681E 27	6.1551E 27	-1.8477E-03	4.0281E 23		
2 15	61173.1	1634.7	1.4948E-01	7.3024E-02	4.0066E 27	7.8333E 27	-1.7076E-03	4.0293E 23		
4 15	60745.5	1646.1	1.8928E-01	1.1669E-01	3.6490E 27	9.5142E 27	-1.8477E-03	4.0359E 23		
1 15	60689.1	1653.2	1.3355E-01	1.4817E-02	5.8112E 27	6.5402E 27	-1.7076E-03	4.0409E 23		
3 20	60679.5	1664.5	1.8512E-01	1.7080E-01	3.0247E 27	8.7057E 27	-1.8477E-03	4.0460E 23		
C 15	59798.1	1672.3	1.1182E-01	1.0230E-03	5.0659E 27	5.1127E 27	-1.7076E-03	4.0512E 23		
5 21	59672.5	1675.8	1.4367E-01	5.4700E-02	4.0167E 27	6.4804E 27	-2.0129E-03	4.0528E 23		
2 20	59402.5	1683.4	1.3190E-01	4.5727E-02	3.7862E 27	5.7953E 27	-1.8477E-03	4.0567E 23		
4 21	59004.5	1694.6	1.9870E-01	1.3573E-01	2.6613E 27	8.3921E 27	-2.0129E-03	4.0612E 23		
1 20	58710.5	1703.0	1.1941E-01	7.3102E-03	4.5947E 27	4.8943E 27	-1.8477E-03	4.0684E 23		
3 21	58335.5	1716.1	1.6774E-01	9.1013E-02	2.2165E 27	5.4295E 27	-2.0129E-03	4.0702E 23		
C 20	58027.5	1723.3	7.9798E-02	4.1474E-04	3.0306E 27	3.0464E 27	-1.8477E-03	4.0742E 23		
5 22	57663.3	1725.7	1.7267E-01	1.0244E-01	2.6635E 27	3.2333E 27	-2.2105E-03	4.0747E 23		
2 21	57482.5	1734.2	1.1716E-01	2.5994E-02	3.3513E 27	4.3068E 27	-2.0129E-03	4.0790E 23		
4 22	57300.3	1745.2	1.8355E-01	1.2864E-01	1.9437E 27	6.4968E 27	-2.2105E-03	4.0823E 23		
1 21	56778.5	1755.0	9.4488E-02	3.3350E-03	3.1192E 27	3.2333E 27	-2.0129E-03	4.0868E 23		
3 22	56630.3	1765.8	1.0515E-01	6.0752E-02	1.4643E 27	3.4881E 27	-2.2105E-03	4.0892E 23		
C 21	56287.5	1776.6	4.9664E-02	1.5703E-04	1.5749E 27	1.5795E 27	-2.0129E-03	4.0916E 23		
5 23	56285.0	1776.7	1.8709E-01	1.3271E-01	1.7022E 27	5.7896E 27	-2.4512E-03	4.0918E 23		
2 22	55953.3	1787.2	9.6206E-02	1.3481E-02	2.5368E 27	2.9523E 27	-2.2105E-03	4.0939E 23		
4 23	55622.0	1797.9	1.4785E-01	1.0368E-01	1.3078E 27	4.3782E 27	-2.4512E-03	4.0981E 23		
1 22	55264.3	1809.3	6.4320E-02	1.4083E-03	1.7932E 27	1.8334E 27	-2.2105E-03	4.1014E 23		
3 23	54952.0	1815.8	6.6238E-02	3.6322E-02	8.2316E 26	1.8239E 27	-2.4512E-03	4.1027E 23		
5 24	54637.4	1830.2	1.6602E-01	1.3531E-01	8.1708E 26	4.4169E 27	-2.7506E-03	4.1050E 23		
C 22	54578.1	1832.2	1.4160E-01	5.5471E-05	3.7412E 27	3.7427E 27	-2.2105E-03	4.1048E 23		
2 23	54275.0	1842.5	6.9051E-02	6.4017E-03	1.6014E 27	1.7651E 27	-2.4512E-03	4.1074E 23		
4 24	53974.6	1852.7	1.0384E-01	7.2887E-02	7.6532E 26	2.5674E 27	-2.7506E-03	4.1086E 23		
1 23	53591.0	1866.0	3.7103E-02	5.5077E-04	8.6589E 26	8.7894E 26	-2.4512E-03	4.1107E 23		
3 24	53304.6	1876.0	1.6534E-02	1.9612E-02	3.8820E 26	8.3809E 26	-2.7506E-03	4.1113E 23		
5 25	53021.3	1888.0	1.1203E-01	1.1519E-01	3.7418E 26	7.4335E 27	-3.1340E-03	4.1136E 23		
C 23	52650.6	1890.4	9.0863E-02	1.8260E-05	1.9908E 27	1.9912E 27	-2.4512E-03	4.1129E 23		
2 24	52627.6	1900.1	4.2015E-02	2.7914E-03	8.3334E 26	8.9265E 26	-2.7506E-03	4.1142E 23		
4 25	52359.3	1909.9	8.3913E-02	4.5435E-02	3.8009E 26	1.3168E 27	-3.1340E-03	4.1148E 23		
1 24	51943.6	1925.2	1.7718E-02	1.9958E-04	3.4410E 26	3.4802E 26	-2.7506E-03	4.1159E 23		
3 25	51880.3	1934.7	1.7655E-02	9.6270E-03	1.5309E 26	3.3668E 26	-3.1340E-03	4.1162E 23		
5 26	51436.3	1944.2	9.2729E-02	8.4682E-02	1.4402E 26	1.7172E 27	-3.6309E-03	4.1184E 23		
C 24	51252.4	1951.1	4.7897E-02	5.6044E-06	8.8808E 26	8.8810E 26	-3.1340E-03	4.1172E 23		
2 25	51111.3	1960.1	2.1274E-02	1.1207E-03	3.5509E 26	3.7468E 26	-3.1340E-03	4.1170E 23		
4 26	50773.3	1985.5	3.4454E-02	2.5434E-02	1.5457E 26	5.9030E 26	-3.6309E-03	4.1180E 23		
1 25	50322.3	1987.0	6.9325E-03	6.7063E-05	1.1156E 26	1.1265E 26	-3.1340E-03	4.1185E 23		
3 26	50103.3	1995.4	7.3722E-03	4.1214E-03	4.8263E 25	1.1663E 26	-3.6309E-03	4.1186E 23		
5 27	49882.6	2004.7	5.8357E-02	5.5048E-02	5.0079E 25	8.9905E 26	-4.3418E-03	4.1188E 23		
C 25	49836.3	2014.7	2.0258E-02	1.6008E-06	3.0293E 26	3.0293E 26	-3.6309E-03	4.1192E 23		
2 26	49420.3	2023.2	8.5769E-03	4.1550E-04	1.1899E 26	1.2505E 26	-3.6309E-03	4.1194E 23		
4 27	49214.6	2031.7	1.8490E-02	1.2931E-02	5.0600E 25	2.3445E 26	-4.3418E-03	4.1194E 23		
1 26	48742.3	2051.6	2.1041E-03	2.0910E-05	2.7935E 25	2.8214E 25	-3.6309E-03	4.1196E 23		
3 27	48594.9	2059.8	2.7030E-03	1.7862E-03	1.2005E 25	3.5366E 25	-4.3418E-03	4.1196E 23		
C 26	48551.3	2081.1	2.9124E-04	4.2592E-07	3.1597E 24	3.5884E 24	-3.6309E-03	4.1197E 23		
2 27	47872.6	2088.0	2.7127E-04	1.4792E-04	1.6172E 24	3.3377E 24	-4.3418E-03	4.1197E 23		
1 27	47186.4	2115.2	1.8359E-05	6.0856E-06	1.3552E 23	2.0271E 23	-4.3418E-03	4.1197E 23		
C 27	46497.6	2150.7	7.7539E-07	1.0551E-07	6.7657E 21	7.8361E 21	-4.3418E-03	4.1197E 23		

8000 °K									
V' V"	$\tilde{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	$\phi_1 \tilde{\nu}^6, \text{cm}^{-6}$	$\phi_2 \tilde{\nu}^6, \text{cm}^{-6}$	a, cm	$\int \phi \tilde{\nu}^6 d\lambda \text{ cm}^{-5}$	
1 16	65583.3	1515.5	2.2547E-01	5.7167E-02	1.3890E 28	1.8608E 28	-8.6444E-04	4.9175E 23	
3 17	65482.6	1527.1	2.4050E-01	9.3734E-02	1.1571E 28	1.4986E 28	-9.2669E-04	4.9347E 23	
C 16	65592.3	1531.6	2.1055E-01	7.1861E-03	1.5744E 28	1.6305E 28	-8.6344E-04	4.9424E 23	
5 18	64584.2	1538.8	1.7839E-01	1.8199E-02	1.2084E 28	1.3434E 28	-9.9202E-04	4.9520E 23	
2 17	64805.6	1543.1	2.6182E-01	1.0974E-01	1.1745E 28	1.9345E 28	-9.2669E-04	4.9578E 23	
4 18	64121.2	1554.7	1.0845E-01	2.6800E-02	1.1943E 28	1.3841E 28	-9.9202E-04	4.9757E 23	
1 17	64121.6	1559.5	1.9880E-01	3.6101E-02	1.1309E 28	1.3816E 28	-9.2669E-04	4.9817E 23	
C 17	63630.6	1576.5	2.0468E-01	3.5626E-03	1.1927E-01	8.5130E 27	-1.6505E 28	-9.9202E-04	4.9944E 23
3 18	63651.2	1571.1	2.4818E-01	1.1927E-01	1.1927E-01	1.3098E 28	-9.2669E-04	5.0024E 23	
5 15	63183.1	1582.7	1.6197E-01	2.4631E-04	1.0288E 28	1.0309E 28	-1.0672E-03	5.0097E 23	
2 18	62974.2	1588.0	2.1814E-01	8.5446E-02	8.2702E 27	1.3605E 28	-9.9202E-04	5.0145E 23	
4 15	62920.1	1599.5	2.1894E-01	7.0428E-02	8.3923E 27	1.2598E 28	-1.0672E-03	5.0270E 23	
1 18	62290.2	1605.4	1.8856E-01	2.0935E-02	9.7917E 27	1.1015E 28	-9.9202E-04	5.0366E 23	
3 15	61895.1	1616.8	2.4344E-01	1.2201E-01	6.7976E 27	1.3628E 28	-1.0672E-03	5.0435E 23	
C 18	61559.2	1623.4	1.8955E-01	1.6525E-03	1.0265E 28	1.035E 28	-9.9202E-04	5.0513E 23	
5 20	61412.5	1628.3	1.6955E-01	1.3307E-02	8.3819E 27	9.0958E 27	-1.1548E-03	5.0560E 23	
2 15	61173.1	1634.7	1.9149E-01	5.9353E-02	6.9247E 27	1.0035E 28	-1.0672E-03	5.0610E 23	
4 20	60749.5	1646.1	2.3244E-01	1.0984E-01	6.1704E 27	1.1683E 28	-1.1548E-03	5.0701E 23	
1 15	60489.1	1653.2	1.8579E-01	1.1866E-02	8.5529E 27	9.1008E 27	-1.0672E-03	5.0772E 23	
3 20	60079.5	1664.5	2.2430E-01	1.0563E-01	5.5810E 27	1.0548E 28	-1.1548E-03	5.0853E 23	
5 21	59678.1	1672.3	1.6417E-01	7.1682E-04	7.4735E 27	7.5003E 27	-1.0672E-03	5.0923E 23	
2 20	59402.5	1675.8	1.9785E-01	5.5229E-02	6.4391E 27	8.9326E 27	-1.2581E-03	5.0947E 23	
C 21	59018.5	1683.4	1.8187E-01	3.7167E-02	6.2577E 27	7.9907E 27	-1.1548E-03	5.1005E 23	
4 21	58604.5	1684.6	2.4292E-01	1.2758E-01	4.8848E 27	1.0257E 28	-1.2581E-03	5.1076E 23	
1 20	58118.5	1703.0	1.7640E-01	5.5189E-03	7.0041E 27	7.2303E 27	-1.1548E-03	5.1147E 23	
3 21	58135.5	1714.1	1.9122E-01	7.9599E-02	4.4009E 27	7.5391E 27	-1.2581E-03	5.1210E 23	
C 20	58021.5	1723.3	1.3072E-01	2.9081E-04	4.9793E 27	4.9704E 27	-1.1548E-03	5.1267E 23	
5 22	57663.3	1725.2	2.2626E-01	1.0343E-01	4.5825E 27	8.5048E 27	-1.3816E-03	5.1276E 23	
2 21	57462.5	1734.2	1.7286E-01	2.1127E-02	5.5777E 27	6.3543E 27	-1.2581E-03	5.1339E 23	
4 22	57300.1	1745.2	2.2528E-01	1.2091E-01	3.8956E 27	8.1192E 27	-1.3816E-03	5.1391E 23	
1 21	56578.5	1755.0	1.5156E-01	2.5178E-03	5.1000E 27	5.1862E 27	-1.2581E-03	5.1457E 23	
3 22	56630.3	1765.8	1.4839E-01	5.3121E-02	3.1422E 27	4.8993E 27	-1.3816E-03	5.1501E 23	
C 21	56287.5	1776.6	6.3447E-02	1.1003E-04	2.9684E 27	2.9719E 27	-1.2581E-03	5.1543E 23	
5 23	56289.3	1776.7	2.2711E-01	1.3399E-01	2.9608E 27	1.2210E 27	-1.5320E-03	5.1593E 23	
2 22	55553.3	1787.2	1.5107E-01	1.0957E-02	4.2955E 27	4.6359E 27	-1.3816E-03	5.1607E 23	
4 23	55622.0	1797.9	1.9093E-01	9.7456E-02	2.7608E 27	5.6859E 27	-1.5320E-03	5.1644E 23	
1 22	55249.3	1809.3	1.1931E-01	1.0632E-03	3.2165E 27	3.2468E 27	-1.3816E-03	5.1690E 23	
3 23	54552.0	1819.8	1.0284E-01	3.1760E-02	1.9572E 27	2.8317E 27	-1.5320E-03	5.1717E 23	
5 24	54437.6	1830.2	2.0073E-01	1.3682E-01	1.7058E 27	5.3403E 27	-1.7191E-03	5.1740E 23	
C 22	54378.3	1832.2	1.8204E-01	3.8889E-05	4.8106E 27	6.8116E 27	-1.3816E-03	5.1750E 23	
2 23	54275.0	1842.5	1.1569E-01	5.7032E-03	2.8244E 27	2.9574E 27	-1.5320E-03	5.1788E 23	
4 24	53974.6	1852.7	1.1913E-01	6.8510E-02	1.7462E 27	3.4401E 27	-1.7191E-03	5.1812E 23	
1 23	53551.0	1866.0	7.3582E-02	4.1581E-04	1.7332E 27	1.7431E 27	-1.5320E-03	5.1840E 23	
3 24	53304.6	1876.0	6.2612E-02	1.7149E-02	1.0429E 27	1.4363E 27	-1.7191E-03	5.1859E 23	
5 25	53021.3	1884.0	1.5517E-01	1.1610E-01	8.6352E 26	3.4476E 27	-1.5320E-03	5.1870E 23	
C 23	52505.0	1890.4	1.2341E-01	1.2801E-05	2.7041E 27	2.7044E 27	-1.5320E-03	5.1883E 23	
2 24	52627.6	1900.1	7.5093E-02	2.2688E-03	1.5664E 27	1.6146E 27	-1.7191E-03	5.1904E 23	
4 25	52158.3	1909.9	8.8559E-02	4.2707E-02	9.4466E 26	1.8265E 27	-1.9584E-03	5.1916E 23	
1 25	51949.6	1925.2	4.0131E-02	1.9047E-04	7.8531E 26	7.8827E 26	-1.7191E-03	5.1934E 23	
3 25	51688.3	1934.7	3.2955E-02	8.4178E-03	4.6792E 26	6.2845E 26	-1.9584E-03	5.1940E 23	
5 26	51436.3	1944.7	1.0577E-01	8.5502E-02	3.7537E 26	1.9587E 27	-2.2750E-03	5.1945E 23	
C 24	51292.6	1951.1	7.0548E-02	3.9270E-06	1.2707E 27	1.2787E 27	-1.7191E-03	5.1956E 23	
2 25	51011.3	1960.3	4.2718E-02	9.1088E-04	7.2956E 26	7.4561E 26	-1.9584E-03	5.1965E 23	
4 26	50773.3	1969.5	4.9020E-02	2.3906E-02	4.3025E 26	8.3981E 26	-2.2750E-03	5.1970E 23	
1 26	50327.3	1987.0	1.8100E-02	5.0630E-05	2.9329E 26	2.9411E 26	-1.9584E-03	5.1979E 23	
3 26	50103.3	1995.9	1.4775E-02	3.1788E-03	1.7396E 26	2.1317E 26	-2.2750E-03	5.1981E 23	
5 27	49882.6	2004.7	6.4542E-02	5.5580E-02	1.3808E 26	9.9439E 26	-2.7136E-03	5.1983E 23	
C 25	49636.3	2014.7	3.3659E-02	1.1217E-06	5.0337E 26	5.0338E 26	-1.9584E-03	5.1990E 23	
2 26	49426.3	2023.2	1.9582E-02	3.3771E-04	2.8057E 26	2.8549E 26	-2.2750E-03	5.1994E 23	
4 27	49219.6	2031.7	2.3517E-02	1.2155E-02	1.6154E 26	3.3433E 26	-2.7136E-03	5.1995E 23	
1 26	48742.3	2051.6	6.1649E-03	1.5801E-05	8.7884E 25	8.8096E 25	-2.7136E-03	5.1999E 23	
3 27	48509.7	2059.8	6.4035E-03	1.5418E-03	5.1486E 25	7.1893E 25	-2.7136E-03	5.2000E 23	
C 26	48051.3	2081.1	1.4069E-03	2.9845E-07	1.7314E 25	1.7317E 25	-2.2750E-03	5.2000E 23	
2 27	47872.6	2088.9	9.8788E-04	1.1616E-04	1.0493E 25	1.1891E 25	-2.7136E-03	5.2001E 23	
1 27	47188.6	2115.2	1.1842E-04	4.5944E-06	1.2548E 24	1.3079E 24	-2.7136E-03	5.2001E 23	
C 27	46497.6	2156.7	1.0062E-05	7.4215E-08	1.0093E 23	1.0168E 23	-2.7136E-03	5.2001E 23	

		11,000 °K									
V' V"	$\tilde{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	$\phi_1 \tilde{\nu}^6, \text{cm}^{-6}$	$\phi_2 \tilde{\nu}^6, \text{cm}^{-6}$	a, cm	$\int \phi \tilde{\nu}^6 d\lambda \text{ cm}^{-5}$			
1 16	65683.3	1515.5	2.5536E-01	4.5182E-02	1.7329E 28	2.1074E 28	-6.3232E-04	5.3820E 23			
2 17	65682.6	1527.1	2.6728E-01	7.9947E-02	1.4801E 28	2.1073E 28	-6.7396E-04	5.4025E 23			
3 18	65752.3	1531.6	2.4249E-01	5.5145E-03	1.8360E 28	1.8767E 28	-6.3232E-04	5.4113E 23			
5 18	64984.7	1536.8	2.1611E-01	1.6648E-02	1.5033E 28	1.6275E 28	-7.2147E-04	5.6235E 23			
2 17	64805.6	1543.1	2.6294E-01	9.0009E-02	1.4780E 28	2.0959E 28	-6.7396E-04	5.4300E 23			
4 1E	64321.2	1556.7	2.3001E-01	2.3504E-02	1.4424E 28	1.4288E 28	-7.2147E-04	5.4506E 23			
1 17	64121.6	1559.5	2.3047E-01	2.8659E-02	1.4027E 28	1.4601E 28	-6.7396E-04	5.4578E 23			
3 1E	63651.2	1571.1	2.7031E-01	1.0122E-01	1.1245E 28	1.976E 28	-7.2147E-04	5.4923E 23			
C 17	63430.6	1576.5	2.5536E-01	2.7339E-03	1.5151E 28	1.5329E 28	-6.7396E-04	5.4909E 23			
9 15	63183.1	1582.7	1.9905E-01	2.6845E-04	1.2647E 28	1.2684E 28	-7.7618E-04	5.4971E 23			
2 1E	62974.2	1588.0	2.4284E-01	7.0145E-02	1.0771E 28	1.5146E 28	-7.2147E-04	5.4971E 23			
4 15	62500.1	1599.5	2.3000E-01	6.1766E-02	1.0588E 28	1.4276E 28	-7.7618E-04	5.5117E 23			
1 1E	62290.2	1605.4	2.1955E-01	1.6619E-02	1.1894E 28	1.2825E 28	-7.7618E-04	5.5145E 23			
3 15	61850.1	1616.8	2.6391E-01	1.0155E-01	1.1984E 28	1.2054E 28	-7.2147E-04	5.5405E 23			
C 1E	61559.2	1623.4	2.2063E-01	1.2681E-03	1.0317E 28	1.0963E 28	-8.3988E-04	5.5405E 23			
5 2C	61112.5	1628.3	2.0436E-01	1.2056E-02	1.0317E 28	1.0963E 28	-8.3988E-04	5.5405E 23			
2 15	61173.1	1634.7	2.1972E-01	4.8725E-02	8.9099E 27	1.2878E 28	-8.3988E-04	5.5634E 23			
4 2C	60746.5	1646.1	2.5562E-01	9.6189E-02	8.0632E 27	1.0648E 28	-7.7618E-04	5.5715E 23			
1 15	60489.1	1657.2	2.1778E-01	8.8800E-03	1.0233E 28	1.1654E 28	-8.3988E-04	5.5810E 23			
3 2C	60779.5	1664.5	2.4782E-01	8.9640E-02	7.4388E 27	9.0840E 27	-7.7618E-04	5.5827E 23			
C 15	55708.1	1672.3	1.9824E-01	5.5008E-04	8.0947E 27	1.0354E 28	-9.1496E-04	5.5927E 23			
1 2C	55672.5	1675.8	2.2933E-01	5.0037E-02	8.0947E 27	1.0354E 28	-9.1496E-04	5.5927E 23			
2 2C	55422.4	1683.4	2.1405E-01	3.0511E-02	8.0641E 27	9.4047E 27	-8.3988E-04	5.6085E 23			
4 21	55005.4	1694.6	2.6654E-01	1.1181E-01	6.5794E 27	1.1254E 28	-9.1496E-04	5.6240E 23			
1 2C	55718.9	1703.0	2.1176E-01	4.3811E-03	8.4597E 27	8.4792E 27	-9.1496E-04	5.6168E 23			
3 21	55339.4	1714.1	2.2703E-01	6.7551E-02	8.0233E 27	8.6865E 27	-9.1496E-04	5.6117E 23			
C 2C	58227.5	1723.3	1.6777E-01	2.2301E-04	6.3964E 27	6.4049E 27	-1.0048E-03	5.6329E 23			
5 22	57643.3	1725.2	2.5231E-01	9.1703E-02	6.0155E 27	9.5687E 27	-9.1496E-04	5.6403E 23			
2 21	57662.5	1734.2	2.0851E-01	1.7344E-02	7.0269E 27	7.6644E 27	-9.1496E-04	5.6473E 23			
4 22	57300.3	1745.2	2.5535E-01	1.0604E-01	5.2849E 27	6.4971E 27	-9.1496E-04	5.6546E 23			
1 21	56478.5	1755.0	1.6987E-01	1.3988E-03	6.4288E 27	5.9800E 27	-1.0048E-03	5.6607E 23			
3 22	56400.3	1765.8	1.6130E-01	4.5081E-02	4.4631E 27	4.1434E 27	-9.1496E-04	5.6641E 23			
C 21	56287.5	1776.6	1.3037E-01	8.4436E-05	4.1347E 27	7.9944E 27	-1.0048E-03	5.6731E 23			
5 23	56285.0	1776.7	2.5544E-01	1.2139E-01	4.1347E 27	5.7487E 27	-1.0048E-03	5.6782E 23			
2 22	55953.3	1787.2	1.8733E-01	8.9953E-03	3.9428E 27	6.4738E 27	-1.0048E-03	5.6843E 23			
4 23	55622.0	1797.9	2.1862E-01	8.5469E-02	3.9428E 27	4.3075E 27	-1.0048E-03	5.6881E 23			
1 22	55265.2	1804.3	1.5112E-01	8.4403E-04	2.8953E-02	2.9720E 27	-1.1142E-03	5.6881E 23			
3 22	54550.0	1816.8	1.3488E-01	2.6953E-02	2.5641E 27	5.8570E 27	-1.2203E-03	5.6923E 23			
5 24	54637.0	1830.2	2.2015E-01	1.2377E-01	2.5641E 27	5.4295E 27	-1.0048E-03	5.6924E 23			
C 22	54578.3	1832.2	2.0542E-01	2.9828E-05	5.4287E 27	3.1919E 27	-1.1142E-03	5.6970E 23			
2 21	54275.0	1842.5	1.4834E-01	4.2715E-03	3.6827E 27	4.0717E 27	-1.2503E-03	5.7003E 23			
4 24	53974.6	1852.7	1.4648E-01	6.0083E-02	2.5862E 27	4.0717E 27	-1.1142E-03	5.7045E 23			
1 23	53551.0	1866.0	1.0448E-01	3.3009E-04	2.4813E 27	2.0379E 27	-1.2503E-03	5.7066E 23			
3 24	53304.6	1876.0	8.8837E-02	1.4553E-02	1.7041E 27	3.7440E 27	-1.4243E-03	5.7083E 23			
5 25	53021.3	1886.0	1.0606E-01	1.0537E-01	1.4048E 27	3.1412E 27	-1.1142E-03	5.7086E 23			
C 23	52500.0	1890.4	1.4335E-01	9.8231E-06	3.1412E 27	2.1554E 27	-1.2503E-03	5.7123E 23			
2 24	52627.6	1900.1	1.0145E-01	1.8620E-03	2.1158E 27	1.5944E 27	-1.4243E-03	5.7141E 23			
4 25	52358.3	1909.4	1.0829E-01	3.7454E-02	1.4594E 27	2.2310E 27	-1.2503E-03	5.7166E 23			
1 24	51943.6	1925.2	6.1697E-02	1.1961E-04	1.2095E 27	1.2119E 27	-1.4243E-03	5.7167E 23			
3 25	51688.3	1934.7	5.0745E-02	7.1438E-03	8.3128E 26	9.6752E 26	-1.6545E-03	5.7183E 23			
5 26	51436.3	1944.2	1.1345E-01	7.7462E-02	6.8652E 26	2.1010E 27	-1.2503E-03	5.7196E 23			
C 24	51252.4	1951.1	8.5118E-02	3.0136E-06	1.5428E 27	1.5428E 27	-1.4243E-03	5.7208E 23			
2 25	51011.3	1960.3	5.9219E-02	7.4775E-04	1.0303E 27	1.0434E 27	-1.4243E-03	5.7215E 23			
4 26	50773.3	1966.5	6.1871E-02	2.0964E-02	7.0005E 26	1.0600E 27	-1.6545E-03	5.7215E 23			
1 26	50507.3	1972.0	3.0513E-02	4.0192E-05	4.0515E 26	4.9580E 26	-1.4243E-03	5.7228E 23			
3 26	50103.3	1995.9	2.4646E-02	1.2067E-03	3.3932E 26	3.9005E 26	-1.6545E-03	5.7232E 23			
5 27	49882.6	2004.7	8.7843E-02	5.0355E-02	2.4634E 26	1.0421E 27	-1.6545E-03	5.7235E 23			
C 25	49636.3	2011.7	4.2697E-02	8.0680E-07	6.1794E 26	6.1799E 26	-1.4243E-03	5.7243E 23			
2 26	49426.3	2023.2	2.9132E-02	2.7724E-04	4.2059E 26	4.2473E 26	-1.6545E-03	5.7244E 23			
4 27	49219.6	2031.7	3.0549E-02	1.0660E-02	2.8150E 26	4.3306E 26	-1.9735E-03	5.7251E 23			
1 26	48742.3	2051.6	1.2313E-02	1.2544E-05	1.6496E 26	1.6512E 26	-1.6545E-03	5.7256E 23			
3 27	48544.6	2059.8	9.8771E-03	1.3755E-03	1.1199E 26	1.2934E 26	-1.9735E-03	5.7251E 23			
C 26	48051.3	2081.1	3.7402E-03	2.7903E-07	4.6034E 26	4.6034E 26	-1.6545E-03	5.7259E 23			
2 27	47772.6	2098.9	2.7400E-03	9.3363E-05	3.2082E 25	3.3230E 25	-1.9735E-03	5.7259E 23			
1 27	47188.6	2115.2	4.6676E-04	3.6472E-06	7.3216E 24	7.3614E 24	-1.9735E-03	5.7260E 23			
C 21	46457.6	2150.7	1.5539E-04	5.6952E-08	1.5698E 24	1.5703E 24	-1.9735E-03	5.7260E 23			

N₂ BIRGE - HOPFIELD #2

N1/N2	0	1	2	3	4	5	6	7	8	9
0	2.0298E-07	2.8777E-06	2.1127E-05	1.0629E-04	4.0975E-04	1.2845E-03	3.3959E-03	7.7570E-03	1.5573E-02	2.7024E-02
1	2.6730E-06	3.3360E-05	2.1406E-04	9.3240E-04	3.0755E-03	8.1289E-03	1.7790E-02	3.2868E-02	5.1799E-02	5.9823E-02
2	1.7955E-05	1.9609E-04	1.0910E-03	4.0705E-03	1.1317E-02	2.4683E-02	4.3319E-02	6.1657E-02	7.0526E-02	5.2512E-02
3	8.2009E-05	7.7837E-04	3.7203E-03	1.1731E-02	2.6947E-02	4.7015E-02	6.2864E-02	6.2902E-02	4.3333E-02	1.3353E-02
4	8.1621E-04	5.7082E-03	1.9416E-02	4.1301E-02	5.8782E-02	5.4685E-02	2.8089E-02	3.3550E-03	4.3266E-03	2.7579E-02
5	8.1621E-04	5.7082E-03	1.9416E-02	4.1301E-02	5.8782E-02	5.4685E-02	2.8089E-02	3.3550E-03	4.3266E-03	2.7579E-02
6	1.9753E-03	1.1680E-02	3.2716E-02	5.4754E-02	5.6204E-02	3.0497E-02	3.3941E-03	5.3768E-03	2.8472E-02	5.3129E-02
7	4.1756E-03	2.0618E-02	4.6510E-02	5.8460E-02	3.8222E-02	6.7582E-03	3.2450E-03	2.5159E-02	3.3477E-02	1.2274E-02
8	7.8693E-03	3.1966E-02	5.6300E-02	4.9402E-02	1.5330E-02	4.4573E-04	2.0803E-02	3.3395E-02	1.3756E-02	1.1752E-04
9	1.3428E-02	4.4068E-02	5.0316E-02	3.1096E-02	1.2497E-03	1.2206E-02	3.2519E-02	1.3583E-02	5.7837E-03	1.4395E-02
10	2.1002E-02	5.4448E-02	5.0853E-02	1.2091E-02	2.7968E-03	2.7517E-02	2.5764E-02	2.1137E-03	9.0064E-03	2.5435E-02
11	3.0403E-02	6.0527E-02	3.6134E-02	1.0743E-03	1.5507E-02	3.1408E-02	9.1027E-03	2.9072E-03	2.3436E-02	1.5492E-02
12	4.1068E-02	6.0503E-02	1.9192E-02	1.9289E-02	2.8256E-02	2.1290E-02	6.5934E-05	1.5201E-02	2.2392E-02	2.3555E-03
13	5.2111E-02	5.4035E-02	5.8145E-02	1.1963E-02	3.1057E-02	6.7096E-03	5.5769E-03	2.4390E-02	8.5042E-03	2.5425E-03
14	6.2470E-02	4.2436E-02	9.6706E-05	2.5092E-02	2.3132E-02	3.6169E-05	1.7804E-02	1.8432E-02	6.3154E-05	1.5835E-02
15	7.1092E-02	2.8330E-02	2.9082E-03	3.1191E-02	1.0462E-02	4.6051E-03	2.3718E-02	5.7660E-03	5.5532E-03	2.3429E-02
	3.0733E-01	4.2104E-01	3.5280E-01	3.7549E-01	3.8133E-01	3.3215E-01	3.2574E-01	3.2474E-01	3.3383E-01	3.7525E-01
N1/N2	10	11	12	13	14	15	16	17	18	19
0	4.4655E-02	6.4836E-02	8.5631E-02	1.0331E-01	1.1422E-01	1.1601E-01	1.0843E-01	9.3357E-02	7.5104E-02	5.5232E-02
1	8.0043E-02	7.6641E-02	5.8796E-02	3.2665E-02	9.4409E-03	1.3393E-06	9.1731E-03	1.3191E-02	5.1891E-02	3.4328E-02
2	3.9357E-02	1.3045E-02	1.0314E-04	9.0640E-03	3.2869E-02	5.3154E-02	5.4181E-02	3.5195E-02	1.3435E-02	4.3475E-03
3	2.7924E-05	9.2504E-03	3.2784E-02	4.6806E-02	3.6678E-02	1.2708E-02	2.5648E-06	1.2328E-02	3.7724E-02	2.1314E-02
4	3.8517E-02	2.1965E-02	1.6359E-03	6.9084E-03	2.9220E-02	3.4484E-02	1.4595E-02	1.2478E-05	1.5488E-02	1.5539E-02
5	3.8517E-02	2.1965E-02	1.6359E-03	6.9084E-03	2.9220E-02	3.4484E-02	1.4595E-02	1.2478E-05	1.5488E-02	1.5539E-02
6	1.4591E-02	5.9612E-07	1.4414E-02	3.2312E-02	2.2702E-02	2.1997E-03	6.4758E-03	2.3377E-02	3.0367E-02	8.5635E-03
7	2.9758E-04	1.7732E-02	3.0455E-02	1.4135E-02	7.6106E-06	1.5014E-02	3.0012E-02	1.5920E-02	5.4640E-05	1.3570E-02
8	1.7449E-02	2.8393E-02	1.0263E-02	7.6421E-04	1.9145E-02	2.6238E-02	7.0063E-03	2.4571E-03	2.2456E-02	2.5739E-02
9	2.7338E-02	9.8686E-03	1.0534E-03	1.9713E-02	2.7864E-02	3.3460E-03	5.6867E-03	2.4591E-02	1.6919E-02	1.7313E-03
10	1.2232E-02	4.2870E-04	1.8014E-02	2.1496E-02	2.4624E-03	7.0508E-03	2.3804E-02	1.1838E-02	3.5117E-04	1.7774E-02
11	3.4655E-05	1.4344E-02	2.1770E-02	3.2331E-03	6.1737E-03	2.2427E-02	9.9405E-03	9.7018E-04	1.8893E-02	1.7521E-02
12	8.7583E-03	2.2294E-02	5.8351E-03	3.7002E-03	2.0786E-02	1.3527E-02	7.5512E-04	1.8880E-02	1.5473E-02	4.4954E-05
13	2.0745E-02	1.0693E-02	9.2403E-04	1.8013E-02	1.3004E-02	1.0935E-04	1.5572E-02	1.3438E-02	8.6437E-05	1.3131E-02
14	1.6843E-02	1.5853E-04	1.3007E-02	1.5464E-02	3.3503E-04	1.1758E-02	1.6720E-02	6.3122E-04	1.0857E-02	1.1421E-02
15	4.1088E-03	6.0111E-03	1.8754E-02	3.1277E-03	6.5449E-03	1.7935E-02	2.4966E-03	7.1911E-03	1.7648E-02	2.2231E-03
	3.6351E-01	3.1763E-01	3.1508E-01	3.3862E-01	3.6567E-01	3.6744E-01	3.1945E-01	2.3915E-01	3.4448E-01	3.7522E-01
N1/N2	20	21	22							
0	3.6591E-02	2.2743E-02	1.3009E-02	9.8751E-01						
1	9.2536E-02	8.6647E-02	7.0701E-02	8.8041E-01						
2	1.1502E-02	3.9508E-02	6.8883E-02	6.4726E-01						
3	3.9374E-02	1.4406E-02	1.1359E-04	5.6815E-01						
4	3.3585E-02	1.0473E-02	4.6871E-04	4.8539E-01						
5	3.3585E-02	1.0473E-02	4.6871E-04	4.8539E-01						
6	1.2278E-03	2.1923E-02	3.7224E-02	4.8028E-01						
7	3.1520E-02	1.9765E-02	6.5639E-04	4.3915E-01						
8	4.6811E-03	4.3772E-03	2.6385E-02	4.2419E-01						
9	1.3093E-02	2.7250E-02	1.0741E-02	4.0865E-01						
10	2.2118E-02	2.7719E-03	7.1258E-03	3.7946E-01						
11	4.2072E-04	1.2051E-02	2.3507E-02	3.7867E-01						
12	1.3795E-02	2.0019E-02	1.8663E-03	3.5451E-01						
13	1.7947E-02	8.8097E-04	1.0688E-02	3.4049E-01						
14	9.7395E-04	1.0202E-02	1.8541E-02	3.3729E-01						
15	8.0266E-03	1.7755E-02	1.4274E-03	3.1740E-01						
	3.6098E-01	3.2125E-01	2.9201E-01							

$\Delta\phi \quad \phi$ II-44

11,000°K

V'	V''	$\bar{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	ϕ_1	$\bar{\nu}^e, \text{cm}^{-1}$	$\phi_2 \bar{\nu}^e, \text{cm}^{-1}$	a, cm	$f\phi \bar{\nu}^e d\lambda, \text{cm}^{-1}$
4	13	7564.6	1295.9	3.4271E-01	1.3502E-02	8.5940E 28	3.9543E 28	-2.3204E-04	5.0032E 23	
3	12	7601.4	1253.0	3.4115E-01	1.8007E-02	8.6104E 28	9.0769E 28	-2.3168E-04	5.0209E 23	
5	11	76026.5	1255.9	3.8478E-01	3.7466E-02	8.5807E 28	9.0908E 28	-2.1930E-04	5.0647E 23	
4	14	76198.6	1255.9	3.8478E-01	3.7466E-02	8.5807E 28	9.0908E 28	-2.1930E-04	5.0647E 23	
14	16	79278.0	1255.9	3.7344E-01	3.4296E-03	8.5929E 28	9.3465E 28	-2.2977E-04	5.0836E 23	
14	14	79347.4	1260.3	3.7174E-01	6.6868E-03	8.5940E 28	9.4271E 28	-2.3315E-04	5.0883E 23	
3	12	79529.9	1260.3	3.7529E-01	9.1500E-03	8.5940E 28	9.4271E 28	-2.3315E-04	5.0883E 23	
2	12	79508.6	1264.4	3.5974E-01	6.4273E-05	8.6042E 28	8.8040E 28	-2.3144E-04	5.1259E 23	
13	16	79761.3	1264.7	3.3719E-01	5.3290E-01	7.2942E 28	8.0899E 28	-2.3261E-04	5.1700E 23	
13	16	79761.3	1264.7	3.3719E-01	5.3290E-01	7.2942E 28	8.0899E 28	-2.3261E-04	5.1700E 23	
7	14	79872.5	1271.1	3.3341E-01	7.9178E-01	7.4052E 28	7.2053E 28	-2.3507E-04	5.1814E 23	
13	14	79854.9	1273.7	3.2747E-01	3.4931E-03	7.6674E 28	7.6069E 28	-2.3762E-04	5.1977E 23	
12	16	79939.2	1273.7	3.2747E-01	3.4931E-03	7.6674E 28	7.6069E 28	-2.3762E-04	5.1977E 23	
4	12	78135.0	1279.8	3.3677E-01	1.8835E-04	7.6598E 28	7.6631E 28	-2.1549E-04	5.2490E 23	
12	16	78123.3	1280.0	3.3719E-01	1.4016E-03	7.6621E 28	7.6016E 28	-2.3315E-04	5.2505E 23	
13	16	78058.6	1280.0	3.3719E-01	1.4016E-03	7.6621E 28	7.6016E 28	-2.3315E-04	5.2505E 23	
6	14	77588.3	1282.7	3.3786E-01	9.5929E-03	7.3460E 28	7.6016E 28	-2.3884E-04	5.2671E 23	
17	17	78276.8	1284.9	3.5220E-01	2.6182E-07	7.2433E 28	7.8282E 28	-2.4008E-04	5.2686E 23	
17	17	78276.8	1284.9	3.5220E-01	2.6182E-07	7.2433E 28	7.8282E 28	-2.4008E-04	5.2686E 23	
14	17	77516.8	1290.1	3.3084E-01	1.2786E-04	8.4746E 28	8.4492E 28	-2.3170E-04	5.3274E 23	
14	16	77454.9	1290.2	3.0222E-01	2.7180E-03	8.4345E 28	8.4934E 28	-2.3840E-04	5.3300E 23	
13	16	77395.3	1290.2	3.0222E-01	2.7180E-03	8.4345E 28	8.4934E 28	-2.3840E-04	5.3300E 23	
5	14	77294.5	1295.3	3.4975E-01	1.3626E-02	8.1703E 28	8.4008E 28	-2.4174E-04	5.3539E 23	
2	13	77107.1	1296.9	3.8567E-01	5.9133E-03	7.9474E 28	8.1059E 28	-2.4339E-04	5.3844E 23	
10	16	78853.4	1301.2	3.7098E-01	7.1133E-03	7.9472E 28	7.8447E 28	-2.4339E-04	5.4178E 23	
7	15	78735.6	1302.9	3.6819E-01	5.8672E-03	7.4641E 28	7.5260E 28	-2.4304E-04	5.4309E 23	
4	14	78591.1	1305.6	3.6599E-01	1.0585E-02	7.1844E 28	7.4666E 28	-2.4478E-04	5.5208E 23	
15	18	76291.8	1310.8	3.7083E-01	3.5016E-03	7.2429E 28	7.3121E 28	-2.4009E-04	5.4806E 23	
12	17	76273.3	1311.1	3.7378E-01	5.4956E-03	7.2400E 28	7.1799E 28	-2.4270E-04	5.4935E 23	
12	17	76273.3	1311.1	3.7378E-01	5.4956E-03	7.2400E 28	7.1799E 28	-2.4270E-04	5.4935E 23	
3	15	76065.5	1314.6	3.5963E-01	9.4763E-04	6.9371E 28	6.9555E 28	-2.4605E-04	5.5198E 23	
6	14	75976.0	1317.9	3.6368E-01	1.0195E-02	6.6949E 28	6.9415E 28	-2.4747E-04	5.5379E 23	
11	17	75873.7	1322.1	3.6105E-01	2.7893E-03	6.6450E 28	6.9404E 28	-2.4574E-04	5.5606E 23	
8	15	75832.7	1322.2	3.4778E-01	2.7053E-02	6.6450E 28	6.9404E 28	-2.4574E-04	5.5606E 23	
8	15	75832.7	1322.2	3.4778E-01	2.7053E-02	6.6450E 28	6.9404E 28	-2.4574E-04	5.5606E 23	
2	15	75732.7	1327.7	3.4193E-01	1.6192E-02	7.1898E 28	7.6815E 28	-2.4910E-04	5.6106E 23	
9	14	75715.3	1330.6	3.4196E-01	2.0747E-02	7.1791E 28	7.5813E 28	-2.4979E-04	5.6301E 23	
10	14	75705.3	1330.6	3.4196E-01	2.0747E-02	7.1791E 28	7.5813E 28	-2.4979E-04	5.6301E 23	
13	17	74591.7	1333.5	3.4095E-01	3.6100E-01	7.1215E 28	7.243E 28	-2.4804E-04	5.6515E 23	
13	17	74589.0	1333.5	3.4095E-01	3.6100E-01	7.1215E 28	7.243E 28	-2.4804E-04	5.6515E 23	
12	17	74589.0	1333.5	3.4095E-01	3.6100E-01	7.1215E 28	7.243E 28	-2.4804E-04	5.6515E 23	
15	14	74490.8	1342.4	3.3596E-01	4.0797E-04	6.645E 28	6.627E 28	-2.5013E-04	5.7117E 23	
12	18	74441.8	1343.3	3.0545E-01	1.8100E-01	6.6453E 28	6.6277E 28	-2.5013E-04	5.7117E 23	
15	14	74367.7	1345.7	3.2449E-01	1.0195E-02	6.6453E 28	6.6277E 28	-2.5013E-04	5.7117E 23	
9	17	74363.5	1345.2	3.9454E-01	9.2517E-07	6.6181E 28	6.654E 28	-2.5202E-04	5.7321E 23	
6	14	74174.6	1348.2	3.9246E-01	2.9645E-03	6.1202E 28	6.6009E 28	-2.5319E-04	5.7512E 23	
9	17	74159.7	1350.7	3.9519E-01	3.1870E-03	6.1202E 28	6.6009E 28	-2.5319E-04	5.7512E 23	
14	16	73683.7	1353.4	3.6700E-01	3.8573E-03	5.9271E 28	6.9045E 28	-2.5184E-04	5.7834E 23	
11	18	73605.8	1356.9	3.6847E-01	5.9550E-03	5.937E 28	6.9235E 28	-2.5356E-04	5.7972E 23	
11	18	73605.8	1356.9	3.6847E-01	5.9550E-03	5.937E 28	6.9235E 28	-2.5356E-04	5.7972E 23	
8	17	73617.6	1357.4	3.4640E-01	8.1371E-04	6.2577E 28	7.1843E 28	-2.5525E-04	5.8166E 23	
13	16	73680.8	1357.4	3.4142E-01	7.0835E-03	6.8794E 28	6.9192E 28	-2.5697E-04	5.8309E 23	
13	16	73680.8	1357.4	3.4142E-01	7.0835E-03	6.8794E 28	6.9192E 28	-2.5697E-04	5.8309E 23	
15	17	73619.7	1357.4	3.4142E-01	7.0835E-03	6.8794E 28	6.9192E 28	-2.5697E-04	5.8309E 23	
15	17	73619.7	1357.4	3.4142E-01	7.0835E-03	6.8794E 28	6.9192E 28	-2.5697E-04	5.8309E 23	
15	17	73619.7	1357.4	3.4142E-01	7.0835E-03	6.8794E 28	6.9192E 28	-2.5697E-04	5.8309E 23	
15	17	73619.7	1357.4	3.4142E-01	7.0835E-03	6.8794E 28	6.9192E 28	-2.5697E-04	5.8309E 23	
15	17	73619.7	1357.4	3.4142E-01	7.0835E-03	6.8794E 28	6.9192E 28	-2.5697E-04	5.8309E 23	
15	17	73619.7	1357.4	3.4142E-01	7.0835E-03	6.8794E 28	6.9192E 28	-2.5697E-04	5.8309E 23	
15	17	73619.7	1357.4	3.4142E-01	7.0835E-03	6.8794E 28	6.9192E 28	-2.5697E-04	5.8309E 23	
15	17	73619.7	1357.4	3.4142E-01	7.0835E-03	6.8794E 28	6.9192E 28	-2.5697E-04	5.8309E 23	
15	17	73619.7	1357.4	3.4142E-01	7.0835E-03	6.8794E 28	6.9192E 28	-2.5697E-04	5.8309E 23	
15	17	73619.7	1357.4	3.4142E-01	7.0835E-03	6.8794E 28	6.9192E 28	-2.5697E-04	5.8309E 23	
15	17	73619.7	1357.4	3.4142E-01	7.0835E-03	6.8794E 28	6.9192E 28	-2.5697E-04	5.8309E 23	
15	17	73619.7	1357.4	3.4142E-01	7.0835E-03	6.8794E 28	6.9192E 28	-2.5697E-04	5.8309E 23	
15	17	73619.7	1357.4	3.4142E-01	7.0835E-03	6.8794E 28	6.9192E 28	-2.5697E-04	5.8309E 23	
15	17	73619.7	1357.4	3.4142E-01	7.0835E-03	6.8794E 28	6.9192E 28	-2.5697E-04	5.8309E 23	
15	17	73619.7	1357.4	3.4142E-01	7.0835E-03	6.8794E 28	6.9192E 28	-2.5697E-04	5.8309E 23	
15	17	73619.7	1357.4	3.4142E-01	7.0835E-03	6.8794E 28	6.9192E 28	-2.5697E-04	5.8309E 23	
15	17	73619.7	1357.4	3.4142E-01	7.0835E-03	6.8794E 28	6.9192E 28	-2.5697E-04	5.8309E 23	
15	17	73619.7	1357.4	3.4142E-01	7.0835E-03	6.8794E 28	6.9192E 28	-2.5697E-04	5.8309E 23	
15	17	73619.7	1357.4	3.4142E-01	7.0835E-03	6.8794E 28	6.9192E 28	-2.5697E-04	5.8309E 23	
15	17	73619.7	1357.4	3.4142E-01	7.0835E-03	6.8794E 28	6.9192E 28	-2.5697E-04	5.8309E 23	
15	17	73619.7	1357.4	3.4142E-01	7.0835E-03	6.8794E 28	6.9192E 28	-2.5697E-04	5.8309E 23	
15	17	73619.7	1357.4	3.4142E-01	7.0835E-03	6.8794E 28	6.9192E 28	-2.5697E-04	5.8309E 23	
15	17	73619.7	1357.4	3.4142E-01	7.0835E-03	6.8794E 28	6.9192E 28	-2.5697E-04	5.8309E 23	
15	17	73619.7	1357.4	3.4142E-01	7.0835E-03	6.8794E 28	6.9192E 28	-2.5697E-04	5.8309E 23	
15	17	73619.7	1357.4	3.4142E-01	7.0835E-03	6.8794E 28	6.9192E 28	-2.5697E-04	5.8309E 23	
15	17	73619.7	1357.4	3.4142E-01	7.0835E-03	6.8794E 28	6.9192E 28	-2.5697E-04	5.8309E 23	
15	17	73619.7	1357.4	3.4142E-01	7.0835E-03	6.8794E 28	6.9192E 28	-2.5697E-04	5.8309E 23	
15	17	73619.7	1357.4	3.4142E-01	7.0835E-03	6.8794E 28	6.9192E 28	-2.5697E-04	5.8309E 23	
15	17	73619.7	1357.4	3.4142E-01	7.0835E-03	6.8794E 28	6.9192E 28	-2.5697E-04	5.8309E 23	
15	17	73619.7	1357.4	3.4142E-01	7.0835E-03	6.8794E 28	6.9192E 28	-2.5697E-04	5.8309E 23	
15	17	73619.7	1357.4	3.4142E-01	7.0835E-03	6.8794E 28	6.9192E 28	-2.5697E-04	5.8309E 23	
15	17	73619.7	1357.4	3.4142E-01	7.0835E-03	6.8794E 28	6.9192E 28	-2.5697E-04	5.8309E 23	
15	17	73619.7	1357.4	3.4142E-01	7.0835E-03	6.8794E 28	6.9192E 28	-2.5697E-04	5.8309E 23	

N₂ LYMAN - BIRGE - HOPFIELD

N₂ LYMAN - BIRGE - HOPFIELD

N1/N2	0	1	2	3	4	5	6	7	8	9
0	4.3147E-02	1.5170E-01	2.4766E-01	2.4924E-01	1.7313E-01	8.8079E-02	3.3993E-02	1.3317E-02	2.3917E-03	4.4535E-04
1	1.1623E-01	1.9315E-01	8.0487E-02	4.0177E-04	8.7320E-02	1.8538E-01	1.7516E-01	1.3324E-01	4.2495E-02	1.2894E-02
2	1.1724E-01	9.6767E-02	3.2760E-03	1.0744E-01	8.5983E-02	8.5541E-04	6.4509E-02	1.5601E-01	1.5142E-01	2.3352E-03
3	1.8348E-01	1.2119E-02	7.5543E-02	6.9312E-02	3.6061E-03	9.5107E-02	6.5801E-02	1.4414E-04	7.4397E-02	1.5324E-01
4	1.6026E-01	6.3914E-03	9.6609E-02	5.8118E-04	7.7442E-02	3.7353E-02	1.5685E-02	7.5572E-02	3.5152E-02	4.1573E-03
5	1.2140E-01	4.7060E-02	4.6680E-02	3.3922E-02	5.5701E-02	8.3644E-03	7.8822E-02	7.9121E-03	4.0748E-02	4.5354E-04
6	8.2871E-02	8.5619E-02	4.5193E-03	7.2885E-02	2.7951E-03	6.3473E-02	1.4346E-02	4.3420E-02	5.3321E-02	4.3134E-03
7	5.2304E-02	9.9714E-02	5.7959E-03	5.6582E-02	1.1774E-02	4.6938E-02	1.7779E-02	5.1309E-02	1.5344E-03	5.5531E-02
8	3.1090E-02	9.2157E-02	3.3721E-02	1.8257E-02	5.3397E-02	4.2086E-03	5.4345E-02	4.1475E-03	5.3329E-02	5.7512E-04
9	1.7644E-02	7.3457E-02	6.1052E-02	1.3147E-04	5.4846E-02	9.2341E-03	1.7713E-02	1.5387E-02	3.5585E-02	1.1735E-02
10	9.6688E-03	5.4852E-02	7.3781E-02	9.7471E-03	2.7452E-02	3.4179E-02	5.3804E-03	4.7431E-02	4.4200E-04	4.3333E-02
11	5.1456E-03	3.5298E-02	7.1676E-02	3.2004E-02	4.5490E-03	4.9173E-02	4.9041E-03	3.4460E-02	1.1415E-02	4.5111E-04
12	2.6517E-03	7.7297E-02	6.6437E-02	5.1007E-02	1.1577E-03	3.2993E-02	2.5601E-02	2.8283E-03	4.1568E-02	4.1107E-03
13	1.3780E-03	1.3592E-02	4.6733E-02	5.7538E-02	1.5777E-02	1.3705E-02	4.2734E-02	2.3212E-03	3.7117E-02	1.1577E-02
14	6.4962E-04	7.9172E-03	3.2942E-02	5.7472E-02	3.1418E-02	2.5376E-04	3.4721E-02	2.4303E-02	5.4744E-03	1.5749E-02
15	3.5254E-04	4.5294E-03	2.2268E-02	5.0057E-02	4.4474E-02	4.2768E-03	1.5705E-02	1.5333E-02	7.8834E-03	4.1333E-02
16	1.7686E-04	2.5446E-03	1.4443E-02	3.9684E-02	4.7779E-02	1.6781E-02	3.0392E-02	1.3344E-02	1.3341E-02	7.3355E-03
	9.4580E-01	9.4688E-01	9.7713E-01	9.0975E-01	7.8570E-01	6.9226E-01	6.9233E-01	6.5044E-01	6.7444E-01	5.3372E-01

N1/N2	10	11	12	13	14	15	16	17	18	19
0	6.5884E-05	7.7400E-06	7.1926E-07	5.2477E-08	2.9709E-09	1.2832E-10	4.1105E-12	9.3345E-14	3.3515E-15	1.3131E-17
1	2.7685E-03	5.2658E-04	7.2502E-05	7.7577E-06	6.4253E-07	4.3087E-08	1.9605E-09	7.3570E-11	1.3323E-12	4.3375E-14
2	3.7173E-02	1.0603E-02	2.2534E-03	3.6286E-04	4.4589E-05	4.1814E-06	2.4740E-07	1.5357E-08	5.2732E-10	1.7311E-11
3	1.4325E-01	7.1175E-02	3.7733E-02	6.4242E-03	1.2847E-03	1.6106E-04	1.9191E-05	1.5250E-06	8.4447E-08	3.3353E-09
4	1.0847E-01	1.6260E-01	1.1787E-01	5.3039E-02	1.6319E-02	3.5966E-03	5.8124E-04	6.1558E-05	5.1594E-06	5.2335E-07
5	7.9576E-03	3.9113E-02	1.4016E-01	1.4985E-01	8.7152E-02	3.2616E-02	6.4426E-03	1.5662E-03	2.1160E-04	4.5329E-05
6	7.8737E-02	5.1442E-02	1.6276E-03	8.7172E-02	1.5686E-01	1.2213E-01	5.6318E-02	1.7212E-02	3.6717E-03	3.5345E-04
7	1.5376E-02	3.2095E-02	8.3544E-02	1.1954E-02	3.1952E-02	1.3391E-01	1.4800E-01	8.5723E-02	3.1173E-02	1.5735E-03

8	3.1436E-02	5.3586E-02	1.0426E-03	7.3166E-02	4.9484E-02	1.9439E-03	8.9062E-02	1.5545E-01	1.1542E-01	5.3317E-02
9	5.0739E-02	1.2464E-03	6.3084E-02	1.2393E-02	3.4393E-02	7.8477E-02	7.5768E-03	4.3354E-02	1.4013E-01	1.1173E-01
10	1.8434E-03	4.9046E-02	1.1514E-02	3.5553E-02	4.4981E-02	3.7797E-02	7.6180E-02	3.7769E-02	7.4487E-03	1.5529E-03
11	2.2571E-02	2.6987E-02	1.8394E-02	4.0959E-02	5.2590E-03	6.1266E-02	4.1036E-03	4.5677E-02	6.8721E-02	1.1544E-03
12	4.3320E-02	5.4143E-04	4.5667E-02	6.3378E-05	5.0482E-02	3.2684E-03	4.6140E-02	3.3377E-02	1.5331E-02	7.3755E-02
13	1.6377E-02	2.8647E-02	1.0683E-02	3.3026E-02	1.2956E-02	3.5547E-02	2.5337E-02	1.5466E-02	5.4513E-02	3.1227E-02
14	1.5736E-04	3.6255E-02	4.5241E-03	3.3505E-02	7.7452E-03	3.6421E-02	9.5526E-03	4.5588E-02	2.3058E-04	5.5134E-02
15	1.6663E-02	1.1055E-02	3.0416E-02	2.8417E-03	3.6895E-02	9.0014E-04	4.3821E-02	1.1832E-03	4.3017E-02	4.3725E-03
16	3.2518E-02	3.9481E-04	3.0054E-02	8.7665E-03	2.1659E-02	1.7875E-02	1.7293E-02	2.4593E-02	1.3935E-02	2.3575E-02
	6.0941E-01	5.7932E-01	5.8766E-01	5.4948E-01	5.5747E-01	5.2682E-01	5.2702E-01	5.3254E-01	4.9873E-01	4.7312E-01

N1/N2	20	21	22	23	24	25	26	27
0	4.3574E-16	4.8245E-16	1.0952E-16	1.1648E-15	2.7283E-16	6.8761E-16	1.8359E-15	2.3131E-16
1	4.1986E-16	8.6253E-16	4.5937E-16	1.5854E-16	9.8175E-16	2.1269E-16	2.3687E-16	4.3335E-16
2	3.5988E-13	1.8946E-15	8.4255E-17	6.9250E-16	9.1179E-17	1.7731E-18	1.1287E-17	2.1375E-15
3	1.1838E-10	2.3433E-12	3.3098E-14	3.4683E-15	1.1776E-15	2.3454E-16	1.0360E-15	1.2129E-15
4	1.9017E-08	6.3003E-10	1.3674E-11	2.6901E-13	5.5744E-15	7.6479E-16	4.3130E-16	2.2953E-16
5	1.5064E-06	7.7871E-08	2.8156E-09	6.8393E-11	1.2525E-12	8.1166E-15	1.9217E-15	1.7040E-15
6	6.1776E-05	4.9073E-06	2.7756E-07	1.0921E-08	2.8774E-10	5.2210E-12	5.7443E-14	3.1333E-15
7	1.3748E-03	1.6784E-04	1.4720E-05	8.8267E-07	3.7741E-08	1.6816E-09	2.3109E-11	1.5562E-13
8	1.4532E-02	2.5438E-03	3.9011E-04	3.7718E-05	2.5518E-06	1.1851E-07	3.6551E-09	6.9987E-11
9	7.5755E-02	2.5231E-02	5.6135E-03	8.6061E-04	9.1460E-05	6.7469E-06	3.4248E-07	1.7363E-08
10	1.5492E-01	1.0330E-01	4.0497E-02	1.0285E-02	1.7656E-03	2.3824E-04	1.6856E-05	9.2148E-07
11	6.1404E-02	1.5085E-01	1.2947E-01	6.0438E-02	1.7612E-02	3.3944E-03	4.4294E-04	3.9248E-05
12	3.0142E-02	2.2846E-02	1.7880E-01	1.4715E-01	4.8181E-02	2.8335E-02	6.1512E-03	8.3962E-04
13	6.4021E-02	5.0343E-02	1.4290E-03	9.3245E-02	1.5734E-01	1.3966E-01	4.2991E-02	1.3555E-02
14	1.2476E-02	3.3442E-02	7.3625E-02	3.9385E-03	5.3209E-02	1.5075E-01	1.3357E-01	6.1571E-02
15	3.4975E-02	3.8010E-02	7.2387E-03	7.7082E-02	2.4771E-02	1.9622E-02	1.2914E-01	1.5192E-01
16	3.2328E-02	9.6230E-03	5.5729E-02	5.1842E-04	5.9387E-02	5.2688E-02	1.5734E-03	9.5082E-02
	4.8194E-01	4.3665E-01	4.4331E-01	3.9556E-01	3.3836E-01	3.6444E-01	3.1399E-01	3.2116E-01

2000 °K									
V	V'	$\tilde{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	$\phi_1, \tilde{\nu}^6, \text{cm}^{-6}$	$\phi_2, \tilde{\nu}^6, \text{cm}^{-6}$	a, cm	$\int \phi \tilde{\nu}^6 d\lambda, \text{cm}^{-5}$
13	24	40581.9	2464.2	1.3314E-05	9.3971E-07	5.5271E 22	5.9458E 22	-5.7179E-03	2.9653E 22
8	20	40424.0	2473.8	1.0151E-05	1.4511E-05	2.0246E 22	8.3566E 22	-6.6242E-03	2.9653E 22
2	15	40339.3	2479.0	1.4035E-05	7.1833E-06	4.7017E 22	4.3039E 22	-7.7277E-03	2.9653E 22
14	25	40268.3	2483.3	9.2842E-06	3.5006E-07	3.8092E 22	3.9585E 22	-5.6498E-03	2.9653E 22
9	21	40126.4	2492.1	1.2391E-05	8.8679E-06	1.4711E 22	5.1725E 22	-6.5759E-03	2.9653E 22
3	16	40057.5	2496.4	1.3191E-05	5.2201E-06	3.2320E 22	5.4407E 22	-7.7104E-03	2.9653E 22
15	26	39958.1	2502.6	6.6231E-06	1.1895E-07	2.6474E 22	2.6959E 22	-5.5214E-03	2.9653E 22
10	22	39831.7	2510.6	7.8486E-06	5.1101E-06	1.0937E 22	3.1345E 22	-6.5271E-03	2.9653E 22
4	17	39777.9	2514.0	1.1834E-05	6.1545E-06	2.1766E 22	4.6087E 22	-7.6627E-03	2.9653E 22
16	27	39651.2	2522.0	4.7031E-06	3.5811E-08	1.8138E 22	1.8278E 22	-5.7255E-03	2.9653E 22
11	23	39539.9	2529.1	4.9218E-06	2.7935E-06	8.1326E 21	1.8820E 22	-6.4779E-03	2.9653E 22
5	18	39500.6	2531.6	9.8605E-06	6.0843E-06	1.4344E 22	3.7456E 22	-7.1415E-03	2.9653E 22
12	24	39251.2	2547.7	3.0649E-06	1.4540E-06	5.8907E 21	1.1208E 22	-6.4283E-03	2.9653E 22
6	19	39225.8	2549.3	7.9211E-06	5.3437E-06	9.3899E 21	2.8895E 22	-7.5659E-03	2.9653E 22
13	25	38965.6	2566.4	1.9023E-06	7.2199E-07	4.1311E 21	6.0582E 21	-6.3782E-03	2.9653E 22
0	14	38957.1	2566.9	1.8267E-06	4.2440E-06	6.3721E 21	4.3885E 21	-8.0444E-03	2.9653E 22
7	20	38953.6	2567.2	6.0550E-06	4.2731E-06	6.2253E 21	2.1154E 22	-7.5167E-03	2.9653E 22
1	15	38701.2	2583.9	1.0815E-06	1.1376E-07	3.1845E 21	3.6343E 21	-6.8977E-03	2.9653E 22
8	21	38684.0	2585.0	4.1102E-06	3.1057E-06	3.1850E 21	1.3774E 22	-7.4570E-03	2.9653E 22
14	26	38683.3	2585.1	4.4357E-06	3.4210E-07	1.3717E 22	1.4863E 22	-6.3276E-03	2.9653E 22
2	16	38447.4	2601.0	1.0755E-06	2.9856E-07	2.5096E 21	3.4739E 21	-8.8505E-03	2.9653E 22
9	22	38417.2	2603.0	3.0515E-06	2.7387E 21	9.8101E 21	7.4169E 21	-7.4169E-03	2.9653E 22
15	27	38404.4	2603.9	2.9248E-06	1.5439E-07	8.8806E 21	9.3839E 21	-6.2765E-03	2.9653E 22
3	17	38195.8	2618.1	1.0901E-06	4.7835E-07	1.9275E 21	3.4128E 21	-8.0208E-03	2.9653E 22
10	23	38153.4	2621.1	2.2301E-06	1.4481E-06	2.4162E 21	2.4162E 21	-6.2953E-03	2.9653E 22
4	18	37964.4	2635.3	1.0821E-06	6.1688E-07	1.3890E 21	1.2337E 21	-8.7545E-03	2.9653E 22
11	24	37892.6	2639.0	1.6038E-06	9.0873E-07	2.0575E 21	4.7478E 21	-7.7319E-03	2.9653E 22
5	19	37699.6	2652.5	1.0439E-06	6.8042E-07	1.0434E 21	2.9988E 21	-8.7056E-03	2.9653E 22
12	25	37614.9	2657.0	1.6140E-06	1.2847E 21	1.2847E 21	1.6483E 21	-7.6483E-03	2.9653E 22
6	20	37455.3	2669.9	9.5090E-07	6.6652E-07	7.8520E 20	2.6255E 21	-8.6557E-03	2.9653E 22
13	26	37380.5	2675.2	8.2478E-07	3.1632E-07	1.3872E 21	2.2501E 21	-7.2109E-03	2.9653E 22
0	14	37321.6	2681.9	8.1627E-07	8.1627E-07	1.6478E 21	2.9662E 21	-8.0662E-03	2.9653E 22
14	27	37129.6	2693.3	5.7866E-07	1.7656E-07	1.0535E 21	1.7571E 21	-7.1581E-03	2.9653E 22
0	15	37035.3	2700.1	2.7431E-07	1.6111E-09	7.0369E 20	7.0784E 20	-1.0392E-02	2.9653E 22
12	22	36974.8	2706.5	6.4580E-07	4.8202E-07	4.3242E 20	1.9455E 21	-1.9455E-03	2.9653E 22
1	16	36809.4	2716.7	1.7223E-07	7.3952E-09	4.1002E 20	4.2841E 20	-1.0347E-02	2.9653E 22
9	23	36738.9	2721.9	4.7746E-07	3.8242E-07	2.3371E 20	1.1791E 21	-8.5045E-03	2.9653E 22
3	17	36585.7	2733.3	1.4793E-07	1.2333E-07	3.1006E 20	3.5476E 20	-1.0303E-02	2.9653E 22
10	24	36506.0	2739.3	3.5604E-07	2.8200E-07	1.7525E 20	8.4272E 20	-8.4272E-03	2.9653E 22
3	18	36364.3	2749.9	1.1883E-07	3.2537E-08	2.4578E 20	3.2101E 20	-1.0254E-02	2.9653E 22
11	25	36276.3	2756.6	2.6236E-07	1.9880E-07	1.4484E 20	5.9791E 20	-8.4004E-03	2.9653E 22
4	19	36145.4	2766.6	1.3209E-07	4.6493E-08	1.9107E 20	2.9457E 20	-1.0209E-02	2.9653E 22
12	26	36049.8	2773.9	1.7037E-07	1.3478E-07	1.2203E 20	4.1785E 20	-8.3474E-03	2.9653E 22
5	20	35929.0	2783.3	1.2448E-07	6.5553E-08	1.4613E 20	2.6778E 20	-1.0162E-02	2.9653E 22
13	27	35826.8	2791.2	1.3662E-07	8.8265E-08	1.0224E 20	2.8971E 20	-1.2793E-02	2.9653E 22
6	21	35715.3	2799.9	1.1364E-07	6.1178E-08	1.0889E 20	2.3587E 20	-1.0114E-02	2.9653E 22
7	22	35504.4	2816.6	7.6153E-08	6.0270E-08	3.1816E 19	1.5254E 20	-1.0065E-02	2.9653E 22
2	16	35283.4	2833.1	4.4802E-08	5.5001E-08	1.4802E 19	1.0316E 19	-1.0316E-02	2.9653E 22
0	16	35143.4	2843.5	1.0393E-08	6.0992E-11	2.6333E 19	2.6448E 19	-1.2399E-02	2.9653E 22
9	24	35091.5	2849.7	5.5642E-08	4.7286E-08	1.5603E 19	1.0370E 20	-9.9660E-03	2.9653E 22
3	17	34963.6	2859.3	1.1439E-08	3.1439E-10	2.4009E 19	1.2361E 19	-1.2361E-02	2.9653E 22
10	25	34889.7	2866.2	4.6110E-08	3.8563E-08	1.3614E 19	8.3173E 19	-9.3154E-03	2.9653E 22
2	18	34794.2	2877.3	1.2825E-08	8.5175E-10	2.1009E 19	2.2606E 19	-1.2322E-02	2.9653E 22
11	26	34701.2	2883.6	3.6803E-08	3.0100E-08	1.8484E 19	6.8435E 19	-6.8435E-03	2.9653E 22
3	19	34593.2	2893.2	1.2026E-08	1.6653E 19	1.7663E 19	2.0502E 19	-1.2821E-02	2.9653E 22
12	27	34496.1	2898.9	2.8706E-08	2.2641E-08	1.0220E 19	4.8372E 19	-9.8121E-03	2.9653E 22
4	20	34374.8	2909.1	1.1230E-08	2.6017E-08	1.2531E 19	1.2531E 19	-1.2531E-02	2.9653E 22
5	21	34189.0	2922.9	5.1190E-09	3.4710E-09	2.6308E 18	8.1754E 18	-1.2203E-02	2.9653E 22
6	22	34006.1	2940.6	4.7367E-09	4.1143E-09	9.6249E 17	7.3251E 18	-1.2162E-02	2.9653E 22
7	23	33826.1	2956.3	4.9750E-09	4.4382E-09	8.0413E 17	7.4525E 18	-1.2120E-02	2.9653E 22
8	24	33647.1	2971.9	5.6812E-09	5.6812E-09	6.3872E 17	8.2077E 18	-1.2077E-02	2.9653E 22
9	25	33475.2	2987.3	4.7897E-09	4.1759E-09	6.6350E 17	6.7337E 18	-1.2050E-02	2.9653E 22
10	26	33304.7	3002.6	4.3441E-09	3.7305E-09	8.3739E 17	5.9283E 18	-1.1990E-02	2.9653E 22
0	17	33281.7	3006.7	3.2098E-09	1.4056E-12	6.4821E 16	4.7853E 18	-1.7336E-02	2.9653E 22
11	27	33137.5	3017.7	3.7761E-09	3.1922E-09	7.7313E 17	4.9999E 18	-1.1945E-02	2.9653E 22
1	18	33116.2	3019.7	2.9372E-09	1.0022E-11	3.8609E 18	3.8741E 18	-1.5347E-02	2.9653E 22
2	19	32953.2	3034.6	4.4614E-10	2.9479E-11	5.3354E 17	5.7128E 17	-1.5329E-02	2.9653E 22
3	20	32792.7	3049.5	1.2502E-10	6.2505E-11	7.7743E 16	1.5547E 17	-1.5309E-02	2.9653E 22
4	21	32634.8	3064.2	1.2013E-10	1.0645E-10	1.6527E 16	1.4513E 17	-1.5290E-02	2.9653E 22
5	22	32479.8	3078.8	1.6579E-10	1.5532E-10	1.2292E 16	1.9495E 17	-1.5269E-02	2.9653E 22
6	23	32327.7	3093.3	2.1689E-10	2.0069E-10	1.8491E 16	2.4756E 17	-1.5243E-02	2.9653E 22
7	24	32178.7	3107.6	2.8805E-10	2.3571E-10	2.4797E 16	2.8649E 17	-1.5228E-02	2.9653E 22
8	25	32032.8	3121.8	2.8461E-10	2.5665E-10	3.0206E 16	3.0748E 17	-1.5207E-02	2.9653E 22
9	26	31880.2	3135.8	2.9691E-10	2.6240E-10	3.4193E 16	3.1019E 17	-1.5185E-02	2.9653E 22
10	27	31751.0	3149.5	2.9047E-10	2.6490E-10	3.6442E 16	2.9761E 17	-1.5163E-02	2.9653E 22
0	18	31450.2	3179.5	3.0765E-12	7.9456E-14	2.9007E 15	2.9775E 15	-2.0203E-02	2.9653E 22
1	19	31315.1	3193.3	5.1802E-13	1.4911E-13	3.2920E 14	4.8806E 14	-2.0237E-02	2.9653E 22
2	20	31182.6	3206.9	8.0450E-13	7.9258E-13	1.0960E 13	7.3960E 14	-2.0275E-02	2.9653E 22
3	21	31052.7	3220.3	1.6814E-12	1.6236E-12	5.1804E 13	1.5075E 15	-2.0311E-02	2.9653E 22
4	22	30925.6	3233.6	3.1685E-12	3.0413E-12	1.1126E 13	2.7718E 15	-2.0354E-02	2.9653E 22
5	23	30801.5	3246.6	5.2353E-12	4.9825E-12	2.1591E 14	4.4737E 15	-2.0395E-02	2.9653E 22
6	24	30680.4	3259.4	7.4477E-12	7.0057E-12	3.8864E 14	6.2113E 15	-2.0438E-02	2.9653E 22
7	25	30562.4	3272.0	9.6449E-12	9.8001E-12	5.4337E 14	7.8616E 15	-2.0481E-02	2.9653E 22
8	26	30447.7	3284.3	1.1477E-11	1.0559E-11	7.3137E 14	9.1447E 15	-2.0526E-02	2.9653E 22
9	27	30336.5	3296.4	1.2818E-11	1.1655E-11	9.0693E 14	9.9912E 15	-2.0572E-02	2.9653E 22
0	19	29849.2	3372.8	1.0268E-15	1.0268E-15	0.	6.9755E 11	-2.9471E-02	2.9653E 22
1	20	29644.6	3384.7	4.4001E-15	4.3530E-15	3.1288E 10	2.9263E 12	-2.9699E-02	2.9653E 22
2	21	29442.6	3398.2	6.3057E-15	6.0925E-15	1.3888E 11	4.1076E 12	-2.9939E-02	2.9653E 22
3	22	29343.5	3407.9	3.4015E-14	3.3690E-14	2.0709E 11	2.1714E 13	-3.0181E-02	2.9653E 22
4	23	29247.3	3419.1	9.0321E-14	8.8457E-14	1.1668E 12	5.6533E 13	-3.0436E-02	2.9653E 22
5	24	29154.1	3430.0	1.4108E-13	1.3578E-13	3.2547E 12	8.6631E 13	-3.0702E-02	2.9653E 22
6	25	29064.1	3440.7	1.9934E-13	1.9045E-13	5.3634E 12	1.2016E 14	-3.0978E-02	2.9653E 22

SPECTRAL DISTRIBUTION FUNCTION AND RELATED PARAMETERS, N2 LYMAN-BIRGE-HOPFIELD

11,000 °K

V'	V''	$\tilde{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	$\phi_1 \tilde{\nu}^5, \text{cm}^{-6}$	$\phi_2 \tilde{\nu}^6, \text{cm}^{-6}$	a, cm	$\int \phi \tilde{\nu}^5 d\lambda, \text{cm}^{-5}$
16	C	92256.5	1084.6	6.6627E-06	6.6627E-06	0.	4.1065E-24	-2.6451E-04	0.
15	C	91004.0	1098.9	2.0846E-05	1.6054E-05	2.7213E-24	1.1841E-25	-2.7518E-04	4.7058E-17
14	C	89521.3	1112.1	1.1310E-04	0.7684E-05	8.2029E-24	5.0934E-25	-2.7116E-04	1.3100E-18
13	C	87929.2	1114.5	1.4611E-04	3.6678E-05	5.6063E-24	7.4692E-25	-2.6844E-04	3.1492E-18
12	C	86674.4	1127.7	3.1457E-04	2.1034E-04	5.3101E-24	1.5535E-24	-2.6314E-04	1.1665E-19
11	C	85426.5	1130.9	3.9102E-04	9.2934E-04	1.4230E-24	1.8693E-24	-2.6034E-04	1.3372E-19
10	C	84221.1	1141.3	8.7546E-04	5.6518E-04	1.4663E-24	3.9237E-24	-2.7463E-04	3.3297E-19
9	C	83055.6	1144.2	1.2774E-03	4.4674E-04	3.6693E-24	5.6805E-24	-2.9694E-04	4.6278E-19
8	C	81995.8	1148.2	1.8595E-03	2.2173E-04	5.0814E-24	6.0604E-24	-3.1094E-04	6.4686E-19
7	C	80973.2	1157.8	2.1788E-03	1.0551E-03	4.6661E-24	9.0404E-24	-2.9157E-04	1.1685E-20
6	C	80096.5	1161.5	2.9436E-03	9.2997E-04	8.1894E-24	1.1972E-23	-3.0748E-04	1.4688E-20
5	C	79237.2	1166.4	3.1646E-03	5.2316E-04	1.0500E-23	1.2257E-23	-3.2670E-04	2.4354E-20
4	C	78347.3	1171.7	4.4009E-03	1.5845E-04	1.0405E-23	1.7009E-23	-2.8111E-04	2.5922E-20
3	C	77508.4	1175.1	5.9076E-03	1.4794E-03	1.5526E-23	2.2750E-23	-3.0609E-04	3.7163E-20
2	C	76628.2	1174.7	7.3053E-03	1.0831E-23	2.7115E-23	2.7115E-23	-3.2075E-04	4.2018E-20
1	C	75759.0	1180.5	7.6518E-03	1.2143E-03	2.7107E-23	2.7501E-23	-3.4801E-04	5.6602E-20
0	C	74810.5	1189.1	9.5670E-03	2.4270E-03	2.6507E-23	3.3692E-23	-3.6791E-04	6.5881E-20
16	C	82336.1	1130.9	1.1310E-04	1.2543E-03	2.9361E-24	4.1714E-24	-1.1711E-04	7.4606E-20
15	C	81303.2	1123.3	1.4564E-02	2.0254E-03	4.2978E-24	4.9213E-24	-2.9703E-04	1.1737E-21
14	C	80236.1	1125.7	1.6893E-02	3.4145E-03	5.2812E-24	6.3835E-24	-3.1321E-04	1.4097E-21
13	C	79255.7	1121.6	2.2647E-02	5.7222E-03	5.5430E-24	7.1054E-24	-3.1707E-04	1.7241E-21
12	C	78265.0	1121.2	2.6412E-02	6.4034E-03	6.1141E-24	8.1017E-24	-3.4960E-04	2.1567E-21
11	C	77275.3	1121.7	2.7408E-02	2.1593E-03	7.5674E-24	8.6745E-24	-3.1010E-04	2.4490E-21
10	C	76285.6	1122.6	2.8965E-02	4.2884E-03	7.2144E-24	1.4747E-23	-3.2733E-04	2.7346E-21
9	C	75295.9	1127.7	3.0541E-02	6.0544E-03	8.0541E-24	1.6797E-23	-3.6797E-04	2.7117E-21
8	C	74306.4	1132.9	3.4087E-02	7.6311E-03	8.0662E-24	1.0773E-23	-3.4611E-04	3.0216E-21
7	C	73316.7	1137.4	3.6055E-02	8.4939E-04	4.9046E-24	1.0101E-23	-3.0865E-04	3.6017E-21
6	C	72326.9	1141.3	4.4545E-02	1.1777E-02	1.3770E-23	1.4545E-23	-3.4551E-04	4.0432E-21
5	C	71337.2	1144.2	4.6083E-02	1.0912E-01	1.3092E-23	1.4761E-23	-3.1231E-04	4.2641E-21
4	C	70347.5	1148.2	4.4640E-02	4.5140E-03	1.0724E-23	1.1919E-23	-3.6745E-04	3.6267E-21
3	C	69357.8	1151.7	5.5141E-02	1.2774E-02	1.1132E-23	1.5364E-23	-3.5094E-04	3.5094E-21
2	C	68368.1	1157.8	5.9238E-02	4.7358E-03	1.2713E-23	1.5292E-23	-3.6292E-04	5.7275E-21
1	C	67378.4	1161.5	5.7817E-02	2.1646E-04	1.4458E-23	1.4743E-23	-3.1018E-04	5.5161E-21
0	C	66388.7	1166.4	5.0101E-02	1.0701E-03	1.4545E-23	1.2190E-23	-3.2190E-04	6.1201E-21
16	C	80810.1	1123.3	1.4564E-02	1.8473E-02	1.2725E-23	1.6813E-23	-3.5297E-04	6.3153E-21
15	C	79820.4	1125.7	1.6893E-02	3.4145E-03	1.4644E-23	1.9307E-23	-3.5815E-04	7.0076E-21
14	C	78830.7	1127.7	1.8595E-02	1.0831E-23	1.6544E-23	2.1644E-23	-3.1164E-04	8.1270E-21
13	C	77841.0	1129.2	2.1788E-02	2.5499E-02	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
12	C	76851.3	1130.9	2.9436E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
11	C	75861.6	1132.9	3.1646E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
10	C	74871.9	1134.9	3.1646E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
9	C	73882.2	1136.9	3.1646E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
8	C	72892.5	1138.9	3.1646E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
7	C	71902.8	1140.9	3.1646E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
6	C	70913.1	1142.9	3.1646E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
5	C	69923.4	1144.9	3.1646E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
4	C	68933.7	1146.9	3.1646E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
3	C	67944.0	1148.9	3.1646E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
2	C	66954.3	1150.9	3.1646E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
1	C	65964.6	1152.9	3.1646E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
0	C	64974.9	1154.9	3.1646E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
16	C	80810.1	1123.3	1.4564E-02	1.8473E-02	1.2725E-23	1.6813E-23	-3.5297E-04	6.3153E-21
15	C	79820.4	1125.7	1.6893E-02	3.4145E-03	1.4644E-23	1.9307E-23	-3.5815E-04	7.0076E-21
14	C	78830.7	1127.7	1.8595E-02	1.0831E-23	1.6544E-23	2.1644E-23	-3.1164E-04	8.1270E-21
13	C	77841.0	1129.2	2.1788E-02	2.5499E-02	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
12	C	76851.3	1130.9	2.9436E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
11	C	75861.6	1132.9	3.1646E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
10	C	74871.9	1134.9	3.1646E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
9	C	73882.2	1136.9	3.1646E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
8	C	72892.5	1138.9	3.1646E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
7	C	71902.8	1140.9	3.1646E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
6	C	70913.1	1142.9	3.1646E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
5	C	69923.4	1144.9	3.1646E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
4	C	68933.7	1146.9	3.1646E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
3	C	67944.0	1148.9	3.1646E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
2	C	66954.3	1150.9	3.1646E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
1	C	65964.6	1152.9	3.1646E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
0	C	64974.9	1154.9	3.1646E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
16	C	80810.1	1123.3	1.4564E-02	1.8473E-02	1.2725E-23	1.6813E-23	-3.5297E-04	6.3153E-21
15	C	79820.4	1125.7	1.6893E-02	3.4145E-03	1.4644E-23	1.9307E-23	-3.5815E-04	7.0076E-21
14	C	78830.7	1127.7	1.8595E-02	1.0831E-23	1.6544E-23	2.1644E-23	-3.1164E-04	8.1270E-21
13	C	77841.0	1129.2	2.1788E-02	2.5499E-02	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
12	C	76851.3	1130.9	2.9436E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
11	C	75861.6	1132.9	3.1646E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
10	C	74871.9	1134.9	3.1646E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
9	C	73882.2	1136.9	3.1646E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
8	C	72892.5	1138.9	3.1646E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
7	C	71902.8	1140.9	3.1646E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
6	C	70913.1	1142.9	3.1646E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
5	C	69923.4	1144.9	3.1646E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
4	C	68933.7	1146.9	3.1646E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
3	C	67944.0	1148.9	3.1646E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
2	C	66954.3	1150.9	3.1646E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
1	C	65964.6	1152.9	3.1646E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21
0	C	64974.9	1154.9	3.1646E-02	1.0831E-23	1.3646E-23	1.9544E-23	-3.0540E-04	8.7001E-21

II-64

N₂ + FIRST NEGATIVE

N1/N2	0	1	2	3	4	5	6	7	8	9
0	6.5094E-01	2.5803E-01	7.0162E-02	1.5997E-02	3.2972E-03	6.3420E-04	1.1549E-04	1.9998E-05	3.2805E-06	5.3335E-07
1	3.0144E-01	2.2260E-01	2.8598E-01	1.3242E-01	4.2726E-02	1.1403E-02	2.5998E-03	5.3513E-04	1.1849E-04	2.2393E-05
2	4.5371E-02	4.0599E-01	5.0646E-02	2.2901E-01	1.6535E-01	7.1133E-02	2.3623E-02	6.6908E-03	1.6951E-03	3.3335E-04
3	2.2475E-03	1.0562E-01	4.1372E-01	2.1005E-03	1.5566E-01	1.7060E-01	9.4514E-02	3.3308E-02	1.2612E-02	3.5575E-03
4	1.4521E-05	6.9353E-03	1.6604E-01	3.7922E-01	6.7256E-03	9.2901E-02	1.5692E-01	1.0964E-01	5.2363E-02	2.3033E-02
5	4.6340E-07	3.9858E-05	1.3395E-02	2.2051E-01	3.3100E-01	2.4248E-02	4.0153E-02	1.3327E-01	1.1606E-01	5.4983E-02
6	9.4819E-09	3.0877E-06	5.7286E-05	2.0691E-02	2.6731E-01	2.8304E-01	5.3307E-02	2.3444E-02	1.0647E-01	1.1772E-01
7	6.4377E-10	3.4169E-08	1.1319E-05	4.9298E-05	2.7894E-02	3.0677E-01	2.4145E-01	7.2364E-02	5.3387E-03	5.3935E-02
8	4.1998E-13	5.7552E-09	4.9506E-08	3.0055E-05	1.8070E-05	3.4188E-02	3.4009E-01	2.3830E-01	8.4584E-02	4.7434E-04
9	1.2746E-12	3.8766E-12	2.6591E-08	1.7424E-08	6.4203E-05	1.3666E-06	3.8904E-02	3.5856E-01	1.8373E-01	9.3554E-02
10	3.9487E-14	1.0275E-11	1.7096E-10	8.3563E-08	3.2950E-08	1.1610E-04	8.0941E-05	4.1527E-02	3.3265E-01	1.5717E-01
11	2.8767E-16	6.9997E-13	3.8767E-11	1.6762E-09	1.9686E-07	6.7150E-07	1.8230E-04	3.8725E-04	4.1704E-02	4.1533E-01
12	5.2594E-16	2.4906E-15	5.5598E-12	7.8486E-11	9.1842E-09	3.5933E-07	3.5224E-06	2.5089E-04	1.0871E-03	3.2756E-02
13	7.4212E-20	9.9105E-16	1.0091E-13	2.7547E-11	5.7016E-11	3.5189E-08	4.9932E-07	1.1720E-05	3.3102E-04	2.3614E-03
14	1.7188E-16	9.8952E-17	1.3821E-15	9.9713E-13	9.4783E-11	1.3391E-11	1.0410E-07	4.7545E-07	3.0048E-05	3.2712E-04
15	1.8407E-16	4.0381E-17	2.6642E-15	3.0960E-15	7.6533E-12	2.4485E-10	1.1384E-09	2.4777E-07	2.416E-07	5.3398E-05
16	1.8159E-17	5.4575E-18	2.8290E-15	6.5616E-15	2.0529E-14	3.6688E-11	3.5122E-10	8.3261E-09	4.3200E-07	1.3501E-08
17	9.5257E-17	1.3459E-16	1.3306E-15	1.5689E-15	5.3219E-14	1.1348E-12	1.2486E-10	2.9360E-10	3.9575E-08	7.3533E-07
18	3.2282E-16	6.4620E-16	2.7374E-17	3.0826E-15	7.0808E-15	4.8177E-14	8.8435E-12	3.2915E-10	2.0518E-15	1.2245E-07
19	3.0466E-16	6.7846E-16	1.4147E-16	2.4053E-15	3.1337E-17	7.9994E-14	3.1504E-14	4.3885E-11	6.1538E-10	1.3551E-09
20	6.8290E-17	1.0853E-16	4.7800E-17	1.3187E-16	1.9387E-16	1.0090E-14	1.0265E-13	1.2416E-12	1.5333E-10	1.3150E-10
21	2.0275E-17	6.9310E-17	2.1950E-17	1.2681E-15	2.4681E-15	7.4429E-16	7.4978E-14	6.1713E-14	1.2370E-11	4.3288E-10
22	1.6131E-16	5.1946E-16	2.1950E-17	2.0731E-15	1.1293E-15	1.1876E-14	1.3151E-13	8.5085E-15	5.1274E-11	5.1274E-11
23	3.0806E-16	7.5001E-16	1.8879E-18	5.7561E-16	2.8680E-16	5.7740E-16	8.7811E-18	5.5815E-14	2.4374E-13	3.2389E-12
24	2.6276E-16	4.0819E-16	2.2567E-16	3.9537E-17	2.8615E-15	3.7123E-15	2.7415E-15	2.1967E-14	8.7405E-14	7.2154E-14
25	7.3746E-17	7.2516E-17	5.2749E-16	3.2663E-16	2.1827E-15	1.6253E-15	3.9308E-16	4.9883E-15	1.5889E-14	2.3665E-14
26	2.6573E-18	1.4601E-17	4.5026E-16	2.0016E-16	5.8352E-17	3.0164E-16	2.0010E-15	1.7009E-15	5.5924E-15	7.5241E-15
27	1.0392E-16	1.4208E-16	8.1945E-17	6.7362E-18	8.7095E-16	2.7341E-15	4.5872E-15	1.1201E-14	2.1936E-15	5.6930E-14
28	2.6226E-16	2.7250E-16	3.3132E-17	2.8661E-17	1.9786E-15	2.3088E-15	8.0611E-16	1.1309E-14	2.8800E-14	1.4500E-13
29	2.6659E-16	3.2371E-16	3.0606E-16	2.8421E-17	1.0866E-15	1.7611E-16	1.8939E-15	6.5923E-15	9.2751E-14	3.3932E-14
1.0000E 00	1.0000E 00	1.0000E 00	1.0000E 00	1.0000E 00	1.0000E 00	1.0000E 00	1.0000E 00	1.0000E 00	1.0000E 00	1.0000E 00
N1/N2	10	11	12	13	14	15	16	17	18	19
0	7.0274E-08	8.4194E-09	7.4706E-10	2.7246E-11	1.5572E-12	5.7438E-12	4.0732E-12	1.3329E-12	7.4734E-13	2.4733E-13
1	3.9313E-06	6.2862E-07	8.7554E-08	9.5331E-09	5.0580E-10	2.7584E-13	4.1016E-11	3.8757E-11	2.1156E-11	4.2293E-12
2	8.4449E-05	1.6754E-05	3.0305E-06	4.8313E-07	6.2656E-08	5.2243E-09	5.9097E-11	1.2427E-10	1.4980E-10	1.2444E-10
3	9.6386E-04	2.3237E-04	5.1559E-05	1.0440E-05	1.8810E-06	2.8302E-07	3.0499E-08	1.1388E-09	1.4308E-10	5.3579E-10
4	6.5985E-03	1.9422E-03	5.2074E-04	1.2807E-04	2.8771E-05	5.7951E-06	9.9985E-07	1.3165E-07	8.0002E-09	5.3533E-11
5	2.8257E-02	1.0429E-02	3.4058E-03	1.0071E-03	2.7242E-04	6.7369E-05	1.5032E-05	2.3233E-05	4.5566E-07	4.4113E-08
6	7.4424E-02	3.6515E-02	1.4962E-02	5.3781E-03	1.7413E-03	5.1455E-04	1.3912E-04	3.4114E-05	7.3925E-05	1.3325E-05
7	1.0837E-01	8.0508E-02	4.4113E-02	1.9912E-02	7.8225E-03	2.7556E-03	8.8413E-04	2.5373E-04	6.4513E-05	1.5626E-05
8	5.8649E-02	9.8214E-02	8.3188E-02	5.0528E-02	2.4953E-02	1.0647E-02	4.0574E-03	1.4059E-03	4.4632E-04	1.2357E-04
9	5.5515E-04	4.0751E-02	8.6284E-02	8.2879E-02	5.5439E-02	2.9771E-02	1.3721E-02	5.5271E-03	2.0953E-03	7.1524E-04
10	9.1407E-02	3.6040E-03	2.7101E-02	7.3930E-02	8.0178E-02	5.8721E-02	3.4099E-02	1.5889E-02	7.4191E-03	2.9555E-03
11	1.5792E-01	8.8180E-02	7.8956E-03	1.7195E-02	6.2084E-02	7.5740E-02	6.0410E-02	3.7741E-02	1.9994E-02	9.3575E-03
12	4.3379E-01	1.5540E-01	8.2045E-02	1.2382E-02	1.0343E-02	5.1312E-02	7.0185E-02	6.3656E-02	4.3577E-02	2.2592E-02
13	3.4320E-02	4.4997E-01	1.5933E-01	7.3818E-02	1.6506E-02	5.8379E-03	4.1892E-02	6.4044E-02	5.9884E-02	4.2535E-02
14	4.3643E-03	2.7223E-02	4.6145E-01	1.6967E-01	6.4180E-02	2.0049E-02	3.0433E-03	3.3901E-02	5.7743E-02	5.7743E-02
15	2.4992E-04	7.1648E-03	1.8762E-02	4.6808E-01	1.8661E-01	5.3547E-02	2.3010E-02	1.4332E-03	2.7284E-02	5.1592E-02
16	1.1714E-04	1.3548E-04	1.0676E-02	1.0178E-02	4.4761E-01	2.1044E-01	4.2359E-02	2.5526E-02	5.8439E-04	2.1797E-02
17	1.3451E-06	1.8672E-04	2.0326E-05	1.4586E-02	3.2073E-03	4.5788E-01	2.4131E-01	3.1369E-02	2.7824E-02	1.9793E-04
18	9.0082E-07	7.5652E-06	2.5870E-04	3.5495E-05	1.8313E-02	1.9948E-05	4.3662E-01	2.7903E-01	2.0265E-02	3.3173E-02
19	3.0166E-07	6.8357E-07	2.4387E-05	3.0557E-04	3.9566E-04	2.1029E-02	3.0089E-03	4.3194E-01	3.2267E-01	1.3755E-02
20	1.6088E-08	5.9409E-07	1.3334E-05	7.8697E-05	2.9260E-04	1.3714E-03	2.1794E-02	1.4370E-02	3.5292E-01	3.7021E-01
21	2.3013E-10	6.9591E-08	9.1908E-07	3.4595E-07	1.1445E-04	1.9932E-04	3.2078E-03	1.8842E-02	3.5454E-02	2.7044E-01
22	8.3364E-10	5.0037E-10	2.0893E-07	1.0338E-06	4.6938E-06	1.8534E-04	5.9069E-05	5.2731E-03	1.5008E-02	5.3937E-02
23	2.4321E-10	1.0306E-09	1.0520E-08	4.7806E-07	6.4729E-07	1.4630E-05	2.4734E-04	8.2511E-06	3.2444E-05	9.3682E-05
24	3.0774E-11	6.5049E-10	3.7077E-10	5.8628E-08	8.4343E-07	2.1043E-08	5.3360E-05	2.5985E-04	3.1278E-04	1.2585E-02

N₂ + FIRST NEGATIVE

25	1.5994E-12	1.4345E-10	1.1228E-09	7.4423E-10	2.0164E-07	1.0704E-06	1.3360E-06	1.1017E-04	1.8749E-04	1.3264E-03
26	6.6945E-17	1.4755E-11	4.0176E-10	8.5840E-10	1.6039E-08	4.8573E-07	7.4719E-07	1.2525E-05	1.7906E-04	5.2861E-05
27	3.8017E-14	4.5578E-14	4.7793E-11	6.8930E-10	8.1140E-12	8.0276E-08	8.1718E-07	3.5258E-08	3.6910E-05	2.2192E-04
28	4.4470E-14	2.0445E-12	6.7752E-13	1.4968E-10	1.0541E-09	2.5762E-09	2.3357E-07	8.9940E-07	1.3616E-05	8.3555E-05
29	1.4744E-13	6.2502E-12	1.9120E-11	7.1972E-12	9.0426E-10	1.6712E-09	2.2423E-08	5.1404E-07	4.9309E-07	1.3523E-05
	1.0001E 00	1.0001E 00	1.0001E 00	1.0001E 00	1.0001E 00	1.0001E 00	1.0001E 00	1.0001E 00	1.0001E 00	1.0001E 00

N1/N2 20 21

0	6.8549E-14	1.6424E-14	10.0000E-01
1	3.5745E-12	1.2773E-12	1.0000E 00
2	6.0838E-11	2.5444E-11	1.0000E 00
3	4.8728E-10	2.7405E-10	1.0000E 00
4	1.3336E-09	1.4349E-09	1.0000E 00
5	3.8150E-10	2.0816E-09	1.0000E 00
6	1.6789E-07	6.7916E-09	1.0000E 00
7	3.3928E-06	5.2530E-07	1.0000E 00
8	3.3924E-05	7.7377E-06	1.0000E 00
9	2.2401E-04	6.3751E-05	1.0000E 00
10	1.0800E-03	3.6310E-04	9.9990E-01
11	3.9758E-03	1.5488E-03	9.9926E-01
12	1.1393E-02	5.1321E-03	9.9672E-01
13	2.5466E-02	1.3412E-02	9.8913E-01
14	4.3701E-02	2.7626E-02	9.7103E-01
15	5.5097E-02	4.4065E-02	9.3696E-01
16	4.5804E-02	5.1972E-02	8.8731E-01
17	1.7599E-02	4.0509E-02	8.3439E-01
18	5.4549E-05	1.4183E-02	7.9899E-01
19	3.2999E-02	1.6955E-05	7.9314E-01
20	3.5923E-03	3.6642E-02	8.0125E-01
21	4.1810E-01	1.2231E-04	7.6748E-01

22	2.1796E-01	4.6109E-01	7.0622E-01
23	1.0298E-01	1.4206E-01	2.6293E-01
24	2.0157E-03	1.4068E-01	1.5591E-01
25	1.4378E-02	2.1219E-04	1.6217E-02
26	3.3301E-03	1.3483E-02	1.7057E-02
27	1.7120E-05	6.2372E-02	6.2649E-02
28	1.8547E-04	4.3123E-04	7.0476E-04
29	1.4399E-04	6.6619E-05	2.2216E-04
	1.0001E 00	1.0561E 00	

2000°K

V^+	V^-	$\tilde{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	$\phi_1, \tilde{\nu}^6, \text{cm}^{-6}$	$\phi_2, \tilde{\nu}^6, \text{cm}^{-6}$	a, cm	$\int \phi \tilde{\nu}^6 d\lambda \text{ cm}^{-5}$
15	21	15797.9	6330.0	1.1344E-03	1.9830E-10	1.7633E 22	1.7633E 22	4.5958E-03	7.3587E 16
10	16	15845.0	6311.1	8.6230E-04	4.2189E-08	1.3645E 22	1.3645E 22	4.5913E-03	7.3518E 16
14	20	15913.2	6294.1	5.7969E-04	5.3152E-10	9.4132E 21	9.4132E 21	4.6349E-03	7.3950E 16
11	17	15935.5	6279.3	5.0941E-04	1.3409E-08	8.3373E 21	8.3373E 21	4.6317E-03	7.3938E 16
13	19	15972.6	6260.7	4.1027E-04	1.4957E-09	6.8127E 21	6.8127E 21	4.7133E-03	8.1481E 16
12	18	15979.1	6258.2	3.9518E-04	4.3957E-09	6.5781E 21	6.5781E 21	4.7724E-03	8.1650E 16
3	8	16053.1	6220.3	7.2265E-04	4.6580E-04	4.3957E 21	1.2357E 22	5.7345E-03	8.3213E 16
4	9	16354.5	6114.5	2.7493E-04	1.4907E-04	2.4083E 21	5.2626E 21	5.6679E-03	9.0236E 16
5	10	16629.5	6013.4	9.9564E-05	4.9253E-05	1.4597E 21	2.1056E 21	5.4014E-03	8.2999E 16
6	11	16879.2	5925.9	3.7393E-05	1.2602E-05	5.7250E 20	8.6354E 20	5.5352E-03	9.4033E 16
16	21	17062.7	5860.7	1.2492E-05	1.0123E-10	3.0826E 20	3.0826E 20	4.8873E-03	9.4385E 16
0	4	17063.6	5860.4	2.0783E-02	2.0770E-02	3.0878E 20	5.1301E 20	6.4407E-03	9.4386E 16
7	12	17088.6	5851.9	1.7691E-02	3.5211E-06	4.4056E 23	1.4850E 23	5.4036E-03	2.9767E 17
10	13	17266.7	5791.5	5.6106E-03	9.8124E-07	1.4866E 23	1.4850E 23	4.9510E-03	3.0142E 17
13	20	17274.4	5788.9	4.3384E-03	2.7066E-10	1.4185E 23	1.4185E 23	4.3737E-03	3.0191E 17
1	5	17392.5	5749.6	1.5365E-02	1.2827E-02	6.9002E 22	2.6296E 22	5.3382E-03	3.4009E 17
8	14	17408.5	5745.0	1.4047E-02	7.7617E-07	3.9071E 23	3.9072E 23	5.0149E-03	3.4846E 17
14	19	17427.0	5736.2	1.2329E-02	7.6668E-10	3.4536E 23	3.4536E 23	5.2730E-03	4.5537E 17
10	15	17505.1	5712.6	4.4854E-03	7.9301E-08	2.1536E 23	1.1538E 23	5.0791E-03	4.6749E 17
13	18	17523.3	5706.7	6.4630E-03	2.2897E-09	1.9291E 23	1.9291E 23	5.2081E-03	4.6781E 17
11	16	17559.4	5695.0	5.2918E-03	2.3427E-08	1.5511E 23	1.5511E 23	5.1635E-03	4.9129E 17
12	17	17566.5	5692.7	5.0580E-03	7.1718E-09	1.4662E 23	1.4662E 23	5.3011E-03	5.3592E 17
2	6	17703.8	5648.5	7.0614E-03	4.9971E-03	6.4790E 22	2.1741E 23	6.2273E-03	6.6331E 17
3	7	17794.4	5557.3	2.6645E-03	1.5417E-03	3.8117E 22	9.0456E 22	5.2263E-03	6.5500E 17
17	21	18227.9	5486.1	6.0511E-04	3.6898E-11	2.2105E 22	3.4055E 22	6.1538E-03	6.6703E 17
4	8	18261.5	5476.0	4.9790E-04	4.2790E-04	1.8186E 22	1.2307E 22	6.0807E-03	6.7777E 17
5	9	18502.0	5404.8	3.0680E-04	1.1159E-04	7.8310E 21	9.9021E 21	5.7959E-03	6.8097E 17
10	20	18930.2	5304.0	2.4388E-04	9.7963E-11	9.9021E 21	9.9021E 21	6.0078E-03	6.8409E 17
6	10	18712.9	5343.9	1.11910E-04	2.8200E-05	3.5045E 21	4.0506E 21	5.1658E-03	6.8492E 17
15	19	18788.1	5319.5	7.0611E-05	2.7829E-10	3.1058E 21	3.1058E 21	5.9332E-03	6.8585E 17
7	11	18891.2	5293.5	4.1843E-05	9.0646E-06	1.5811E 21	1.9019E 21	5.4359E-03	6.8594E 17
14	18	18977.6	5269.4	2.4756E-05	8.7177E-10	1.1564E 21	9.2001E 20	5.8630E-03	6.8610E 17
12	12	19036.1	5251.7	1.9345E-05	1.7739E-06	8.3560E 20	5.9273E 20	5.9332E-03	6.8625E 17
9	13	19110.7	5232.7	1.2167E-05	2.6977E-09	5.9259E 20	5.9273E 20	5.7011E-03	6.8629E 17
9	13	19138.4	5225.1	9.3022E-06	4.5353E-07	2.4689E 20	5.4823E 20	5.0503E-03	6.8629E 17
3	3	19191.8	5224.7	1.1152E-01	1.1151E-01	4.6324E 20	5.4823E 20	5.7194E-03	1.4365E 18
12	16	19190.3	5211.0	7.8038E-02	9.1118E-09	3.8976E 24	3.8976E 24	5.5771E-03	1.4365E 18
10	14	19201.2	5208.0	7.2284E-02	1.1889E-07	3.2551E-08	3.2014E 24	5.6481E-03	1.6056E 18
11	15	19215.5	5203.0	6.5517E-02	1.7722E-11	1.9849E 24	1.9849E 24	5.6254E-03	2.0920E 18
1	4	19435.3	5145.3	6.7204E-02	5.5366E-02	1.4592E 23	3.6220E 24	6.9774E-03	2.9821E 18
2	5	19710.0	5072.8	1.0222E-02	1.7722E-11	3.9870E 23	5.9702E 23	7.0202E-03	3.1673E 18
3	6	19769.8	5007.6	2.6151E-02	1.6514E-02	5.6551E 23	1.5346E 24	6.8947E-03	3.7800E 18
16	19	20053.0	4986.8	8.6508E-03	4.2412E-03	2.7967E 23	5.6125E 22	6.8128E-03	4.2627E 18
4	7	20202.8	4969.8	4.6849E-03	5.1176E-11	3.1763E 23	3.1763E 23	5.1792E-03	4.3505E 18
19	21	20246.7	4939.1	1.0827E-03	4.3164E-15	1.3658E 23	1.3658E 23	6.7103E-03	4.6247E 18
15	18	20338.8	4916.7	1.0583E-03	1.6271E-10	7.4912E 22	7.4912E 22	6.1019E-03	4.4612E 18
5	8	20398.0	4899.0	1.6588E-04	2.6074E-04	4.7240E 22	6.3375E 22	6.6496E-03	4.4743E 18
14	17	20555.0	4862.6	2.8444E-04	5.4640E-04	2.1532E 22	2.1532E 22	5.9340E-03	4.4880E 18
6	9	20585.3	4857.8	2.9638E-04	4.8202E-05	1.6820E 22	2.2593E 22	6.5868E-03	4.4897E 18
7	10	20728.9	4826.2	1.0875E-04	1.0505E-09	7.7634E 21	8.5977E 21	6.4880E-03	4.5004E 18
13	16	20734.6	4822.9	1.0434E-04	1.9510E-09	8.2914E 21	8.2914E 21	6.0121E-03	4.4945E 18
10	20	20746.9	4815.4	8.4105E-05	2.8070E-14	6.7460E 21	6.7460E 21	6.1872E-03	4.4911E 18
8	11	20836.7	4799.2	5.5080E-05	2.3162E-06	3.1193E 21	5.5076E 21	6.4079E-03	4.4395E 18
12	15	20850.4	4790.1	5.0249E-05	7.3657E-09	4.1298E 21	4.1304E 21	6.0905E-03	4.4961E 18
9	12	20905.7	4783.4	3.6294E-05	5.2193E-07	2.9029E 21	2.7612E 21	6.3279E-03	4.4965E 18
11	14	20915.6	4781.1	3.3082E-05	2.9123E-08	2.7612E 21	2.7605E 21	6.2946E-03	4.4967E 18
10	13	20950.0	4777.1	2.9956E-05	1.2123E-07	2.4783E 21	2.4885E 21	6.2649E-03	4.4970E 18
20	21	21093.8	4740.7	8.1407E-06	5.6171E-12	7.1712E 20	7.1712E 20	6.6810E-03	4.4973E 18
17	19	21218.2	4712.9	3.5754E-06	2.2236E-13	2.2236E 20	5.0236E 20	7.7987E-03	4.4974E 18
0	2	21449.1	4700.1	5.5402E-01	5.4602E-01	1.8693E 20	5.0236E 20	7.7052E-03	1.7139E 19
1	3	21511.5	4648.7	2.5515E-01	1.8462E-01	6.8088E 24	2.5293E 25	6.3501E-03	2.0748E 19
16	18	21603.7	4628.8	1.2512E-01	1.5402E-02	1.2720E 25	1.2720E 25	6.7771E-03	2.2915E 19
19	20	21723.3	4603.4	4.9637E-02	9.4545E-12	5.7102E 24	5.7102E 24	6.1622E-03	2.3214E 19
2	4	21755.8	4592.5	8.1539E-02	4.2847E-02	4.0921E 24	8.6354E 24	7.3397E-03	2.3971E 19
21	21	21828.4	4581.2	4.6667E-02	1.2386E-07	5.0483E 24	5.0483E 24	7.3397E-03	2.3971E 19
15	17	21926.2	4560.7	2.2043E-02	9.5075E-12	2.4444E 24	2.4444E 24	6.9577E-03	2.4991E 19
2	5	21958.0	4549.8	2.1548E-02	8.5435E-03	1.6577E 24	2.6202E 24	7.5197E-03	2.5213E 19
4	6	22178.7	4508.9	6.2983E-03	1.5829E-03	5.6115E 23	7.4952E 23	7.4276E-03	2.5606E 19
14	16	22188.9	4506.8	5.8082E-03	5.4682E-11	5.154E-11	6.9320E 23	6.5372E-03	2.5767E 19
18	19	22280.6	4480.2	2.9057E-03	1.7491E-11	3.5548E 23	3.554E 23	6.8737E-03	2.5869E 19
5	7	22350.3	4474.2	1.9996E-03	2.8287E-04	2.1400E 23	4.2926E 23	7.3306E-03	2.5909E 19
13	15	22394.7	4465.3	1.4319E-03	3.0517E-10	1.6084E 23	1.6084E 23	6.2011E-03	2.5927E 19
22	21	22447.3	4446.4	8.2474E-04	3.4015E-11	1.0588E 23	1.0588E 23	6.3155E-03	2.5942E 19
6	8	22492.3	4446.0	6.4055E-04	4.9791E-05	7.6408E 22	7.2492E 22	7.2444E-03	2.5950E 19
12	14	22546.5	4435.3	4.2724E-04	1.6554E-09	5.6125E 22	5.6125E 22	7.2832E-03	2.5957E 19
20	20	22570.4	4430.6	3.5767E-04	6.2724E-13	4.7277E 22	4.7277E 22	7.5097E-03	2.5960E 19
7	9	22601.4	4424.5	2.9242E-04	8.7412E-06	3.7812E 22	3.8977E 22	7.1543E-03	2.5962E 19
11	13	22647.4	4415.5	2.0737E-04	9.0279E-09	2.7990E 22	2.7991E 22	6.7964E-03	2.5965E 19
8	10	22674.4	4410.3	1.7118E-04	1.5427E-06	2.3054E 22	2.3235E 22	7.0041E-03	2.5967E 19
10	12	22700.4	4405.2	1.0875E-04	4.9557E-08	1.4874E 22	1.4881E 22	6.8052E-03	2.5969E 19
9	11	22708.4	4403.7	1.0278E-04	2.7492E-07	1.4056E 22	1.4044E 22	6.9744E-03	2.5969E 19
17	18	22768.9	4392.0	6.5657E-05	3.154E-11	9.1481E 21	9.1481E 21	6.9709E-03	2.5971E 19
23	21	22947.3	4357.8	1.1643E-05	6.4759E-12	1.7000E 21	1.7000E 21	9.5222E-03	2.5971E 19
16	17	23191.1	4312.0	1.0883E-06	7.5740E-11	1.6930E 20	1.6930E 20	7.0686E-03	2.5971E 19
19	19	23237.0	4303.5	7.1923E-07	3.5087E-12	1.2267E 20	1.2267E 20	7.6203E-03	2.5971E 19
29	21	23268.6	4297.6	6.1919E-07	7.3406E-14	9.8275E 19	9.8275E 19	1.8864E-01	2.5971E 19
21	20	23305.0	4290.9	1.8126E-07	4.8955E-11	3.4960E 19	3.4960E 19	8.4438E-03	2.5971E 19
24	21	23325.1	4287.2	1.8888E-07	7.6404E-12	3.0417E 19	3.0417E 19	1.1185E-02	2.5971E 19
0	1	23391.2	4275.1	2.2734E-00	2.7314E-00	1.9216E 19	3.7239E 16	8.7095E-03	2.5971E 19
28	21	23550.1	4246.3	5.6947E-01	8.1070E-14	9.7257E 25	9.7257E 25	4.3513E-02	8.5140E 19
15	16	23550.1	4246.3	5.6947E-01	1.7223E-10	9.7182E 25	9.7182E 25	7.1663E-03	8.5156E 19
25	21	23577.4	4241.3	4.4890E-01	1.7024E-11	7.7130E 25	7.7130E 25	1.921E-02	8.4272E 19
1	2	23620.8	4233.6	7.5781E-0					

2000 °K									
V' V*	$\tilde{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	$\phi_1 \tilde{\nu}^6, \text{cm}^{-6}$	$\phi_2 \tilde{\nu}^6, \text{cm}^{-6}$	a, cm	$\int \phi \tilde{\nu}^6 d\lambda \text{ cm}^{-5}$	
14 9	34557.1	2893.8	1.3966E-08	2.0422E-11	2.3749E 19	2.3784E 19	2.2234E-02	4.8027E 20	
17 11	34638.2	2887.0	1.0794E-09	1.1824E-12	5.3166E 18	5.3189E 18	3.1522E-02	4.8027E 20	
6 2	34646.6	2886.3	7.7496E-08	7.4860E-08	4.5593E 18	1.3404E 20	1.8954E-02	4.8027E 20	
21 13	34666.7	2884.4	5.0920E-08	3.5829E-15	8.8413E 19	8.8413E 19	6.8195E-01	4.8027E 20	
5 1	34705.4	2881.4	2.6267E-07	2.3722E-07	4.4471E 19	4.5898E 20	1.9273E-02	4.8027E 20	
4 0	34732.6	2879.1	4.6753E-07	4.1217E-07	2.7279E 20	9.9636E 20	1.9595E-02	4.8027E 20	
19 12	34854.4	2869.1	5.2865E-08	6.7263E-14	9.4779E 19	4.4780E 19	5.7093E-02	4.8027E 20	
13 8	35009.8	2856.3	2.6115E-09	5.8140E-11	4.7016E 18	4.8086E 18	2.2689E-02	4.8027E 20	
16 10	35110.7	2832.0	1.7912E-12	1.7278E-12	1.2295E 14	3.4721E 15	3.2281E-02	4.8027E 20	
12 7	35406.9	2824.3	1.5023E-10	1.5015E-10	1.5258E 14	2.9528E 17	2.3112E-07	4.8027E 20	
10 11	35700.7	2801.1	2.1194E-13	4.3049E-14	3.4968E 14	4.3881E 14	6.1185E-02	4.8027E 20	
20 12	35701.5	2801.0	2.0984E-13	3.3191E-15	4.2764E 14	4.3451E 14	9.6875E-01	4.8027E 20	
11 6	35915.3	2797.1	3.5978E-10	3.5978E-10	4.0515E 12	7.5126E 17	2.3563E-02	4.8027E 20	
15 9	35918.3	2786.1	9.4357E-12	2.4028E-12	1.5102E 16	2.0261E 16	3.3060E-02	4.8027E 20	
10 5	36044.1	2774.2	8.0272E-10	8.0234E-10	8.3613E 14	1.7698E 18	2.4022E-02	4.8027E 20	
9 4	36294.3	2755.3	1.6480E-09	1.6459E-09	4.7253E 15	3.7657E 18	2.4489E-02	4.8027E 20	
14 8	36464.1	2742.4	2.8791E-11	3.0778E-12	6.0643E 16	6.7678E 16	3.1859E-02	4.8027E 20	
17 10	36475.9	2741.5	2.1953E-11	1.7051E-14	5.0250E 16	5.0291E 16	6.3444E-02	4.8027E 20	
8 3	36498.8	2739.8	1.0329E-09	3.0209E-09	2.8271E 16	7.1701E 18	2.4904E-02	4.8027E 20	
19 11	36657.0	2728.0	5.8210E-11	5.2783E-14	1.4111E 17	1.4123E 17	1.0339E 00	4.8027E 20	
7 2	36662.6	2727.6	4.7544E-09	4.7036E-09	1.2206E 17	1.1546E 19	2.5448E-02	4.8027E 20	
6 1	36788.7	2718.2	5.7710E-09	5.5811E-09	4.7077E 17	1.4327E 19	2.5942E-02	4.8027E 20	
5 0	36880.1	2711.5	4.3636E-09	3.8240E-09	1.3577E 18	1.0980E 19	2.6444E-02	4.8027E 20	
13 7	36951.1	2706.3	6.7157E-10	3.5023E-12	1.7005E 18	1.7095E 18	1.4679E-02	4.8027E 20	
16 9	37183.1	2689.4	4.7464E-16	4.7464E-16	0.	1.2544E 12	6.5820E-02	4.8027E 20	
12 6	37382.3	2675.1	3.2762E-12	3.2762E-12	0.	8.9405E 15	3.5521E-02	4.8027E 20	
18 10	37536.3	2663.9	4.3291E-13	4.2004E-13	3.5866E 13	1.2113E 15	4.9563E 00	4.8027E 20	
11 5	37760.5	2648.3	2.0692E-12	2.0692E-12	0.	5.983E 15	3.6386E-02	4.8027E 20	
15 8	37825.3	2643.7	2.1197E-13	1.6023E-14	5.7389E 14	6.2082E 14	6.8324E-02	4.8027E 20	
10 4	38088.9	2625.4	3.5722E-13	3.5722E-13	0.	1.0998E 15	3.7275E-02	4.8027E 20	
9 3	38370.5	2606.2	7.0414E-13	7.0414E-13	0.	2.2472E 15	3.8183E-02	4.8027E 20	
14 7	38405.4	2603.6	2.8853E-13	1.0345E-13	5.9393E 14	9.2597E 14	7.0965E-02	4.8027E 20	
8 2	38608.1	2590.1	7.8631E-12	7.8631E-12	0.	2.6187E 16	3.7128E-02	4.8027E 20	
7 1	38804.8	2577.0	2.2609E-11	2.2609E-11	0.	7.7137E 16	4.0095E-02	4.8027E 20	
13 6	38926.5	2568.9	4.9242E-13	3.2090E-13	5.9677E 14	1.7132E 15	7.3754E-02	4.8027E 20	
6 0	38963.5	2566.5	2.7492E-11	2.7432E-11	2.0936E 14	9.6176E 16	4.1090E-02	4.8027E 20	
12 5	39391.5	2538.6	1.2972E-13	7.8972E-13	0.	2.7263E 15	7.6105E-02	4.8027E 20	
11 4	39803.4	2512.4	1.3455E-12	1.3455E-12	0.	5.3507E 15	7.9832E-02	4.8027E 20	
10 3	40165.1	2489.7	2.0429E-12	2.0429E-12	0.	8.5770E 15	8.3152E-02	4.8027E 20	
9 2	40479.7	2470.4	2.4654E-12	2.4654E-12	0.	1.0847E 16	8.6682E-02	4.8027E 20	
8 1	40750.2	2454.0	2.1408E-12	2.1408E-12	0.	9.8030E 15	9.0444E-02	4.8027E 20	
7 0	40979.5	2440.2	1.0141E-12	1.0141E-12	0.	4.8028E 15	9.4461E-02	4.8027E 20	

SPECTRAL DISTRIBUTION FUNCTION AND RELATED PARAMETERS, N2+ FIRST NEGATIVE

		5000 °K									
V'	V''	$\tilde{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	$\phi_1 \tilde{\nu}^0, \text{cm}^{-6}$	$\phi_2 \tilde{\nu}^0, \text{cm}^{-6}$	a, cm	$f\phi \tilde{\nu}^0 d\lambda, \text{cm}^{-5}$		
3	17	154.0	649273.9	2.6149E-10	2.6149E-10	0.	3.4905E-03	1.3397E-03	0.	8.2929E-02	8.2929E-02
6	21	464.9	215105.1	3.9355E-10	2.2114E-10	1.7405E-06	3.9728E-06	1.2399E-03	1.2399E-03	2.8716E-04	2.8716E-04
1	14	547.6	182630.9	8.8439E-10	5.3046E-10	9.5399E-06	2.3835E-07	1.4353E-03	1.4353E-03	3.6871E-04	3.6871E-04
4	18	775.0	129032.3	1.7027E-09	1.0556E-09	1.4021E-08	3.6892E-08	1.3252E-03	1.3252E-03	5.1204E-05	5.1204E-05
2	15	1171.9	85327.7	3.4775E-09	2.4783E-09	2.5888E-09	9.0009E-09	1.4202E-03	1.4202E-03	2.0952E-05	2.0952E-05
5	19	1371.8	72896.9	5.4426E-09	2.6125E-09	1.7528E-10	3.6271E-10	1.3108E-03	1.3108E-03	9.3347E-05	9.3347E-05
0	12	1675.1	59699.5	5.1060E-09	1.4940E-09	7.9784E-10	1.1279E-11	1.5249E-03	1.5249E-03	4.6374E-05	4.6374E-05
3	16	1777.9	56246.3	1.1856E-08	7.4354E-09	1.3961E-11	3.7443E-11	1.4045E-03	1.4045E-03	1.3574E-05	1.3574E-05
8	20	1901.4	51508.2	1.5219E-08	5.7996E-09	5.0947E-11	8.1492E-11	1.2693E-03	1.2693E-03	3.4337E-05	3.4337E-05
1	13	2279.4	43871.1	1.9114E-08	9.5081E-09	1.3473E-12	2.6839E-12	1.5086E-03	1.5086E-03	1.1516E-05	1.1516E-05
4	17	2362.4	42329.8	3.3737E-08	1.6768E-08	2.9498E-12	5.8645E-12	1.3894E-03	1.3894E-03	1.5853E-05	1.5853E-05
7	21	2480.9	40307.6	3.8545E-08	1.0005E-08	6.6548E-12	8.8976E-12	1.2619E-03	1.2619E-03	2.8496E-05	2.8496E-05
2	14	2884.0	34866.9	5.4247E-08	3.1624E-08	1.2592E-13	3.9192E-13	1.4924E-03	1.4924E-03	8.6787E-05	8.6787E-05
5	18	2922.5	34217.4	8.0998E-08	3.0850E-08	3.1244E-13	5.0456E-13	1.3741E-03	1.3741E-03	1.0674E-05	1.0674E-05
3	15	3438.0	29086.7	1.1267E-07	7.3624E-08	6.4474E-13	1.8605E-14	1.4762E-03	1.4762E-03	4.0207E-05	4.0207E-05
6	19	3455.2	28942.1	1.5866E-07	4.8770E-08	1.8697E-14	2.6995E-14	1.3583E-03	1.3583E-03	2.4903E-05	2.4903E-05
0	11	3477.7	28754.7	1.7160E-07	1.7956E-08	2.7414E-14	3.0358E-14	1.6070E-03	1.6070E-03	4.7379E-05	4.7379E-05
7	20	3957.5	25248.7	1.5452E-07	6.8636E-08	3.2994E-14	5.9380E-14	1.3437E-03	1.3437E-03	1.5906E-05	1.5906E-05
4	16	3984.0	25086.0	2.8394E-07	1.3551E-07	5.9554E-14	1.1393E-15	1.4602E-03	1.4602E-03	1.6992E-05	1.6992E-05
1	12	4046.8	24711.1	3.5358E-07	9.1330E-08	1.1439E-15	1.5529E-15	1.5897E-03	1.5897E-03	2.1273E-05	2.1273E-05
8	21	4426.4	22591.8	2.9043E-07	6.1144E-08	1.5248E-15	2.1859E-15	1.4208E-03	1.4208E-03	5.4004E-05	5.4004E-05
5	17	4509.9	22173.5	4.6867E-07	2.1064E-07	2.1711E-15	3.9431E-15	1.4439E-03	1.4439E-03	6.3121E-05	6.3121E-05
2	13	4599.9	21739.6	6.7204E-07	2.6007E-07	3.9076E-15	6.3653E-15	1.5725E-03	1.5725E-03	8.0145E-05	8.0145E-05
6	18	5005.9	19976.6	6.5816E-07	5.7867E-07	5.7867E-15	1.0356E-15	1.4279E-03	1.4279E-03	1.8712E-05	1.8712E-05
3	14	5134.1	19477.6	1.0647E-06	5.2046E-07	9.0776E-15	1.9499E-16	1.5554E-03	1.5554E-03	2.3836E-05	2.3836E-05
0	10	5151.4	18813.4	9.7077E-06	1.6027E-07	1.6278E-16	2.1392E-16	1.6095E-03	1.6095E-03	3.6300E-05	3.6300E-05
5	19	5471.7	18277.7	1.1274E-06	1.1274E-06	3.0007E-16	3.0007E-16	1.7751E-03	1.7751E-03	4.7751E-05	4.7751E-05
4	15	5646.4	17710.4	1.7014E-06	2.7983E-06	5.5135E-16	5.5135E-16	1.5383E-03	1.5383E-03	6.4226E-05	6.4226E-05
1	11	5849.4	17095.8	1.9695E-06	7.1507E-07	5.0103E-16	7.0746E-16	1.6601E-03	1.6601E-03	9.6043E-05	9.6043E-05
7	20	5904.7	16814.6	1.1141E-06	7.1141E-06	9.3952E-16	9.3952E-16	1.4044E-03	1.4044E-03	1.0841E-05	1.0841E-05
5	16	6133.8	16303.7	2.7103E-06	1.1555E-06	8.2800E-16	1.4434E-16	1.5212E-03	1.5212E-03	1.6494E-05	1.6494E-05
9	21	6298.1	15877.9	2.5524E-06	4.4469E-07	1.1314E-17	1.5929E-17	1.3799E-03	1.3799E-03	2.2380E-05	2.2380E-05
6	17	6394.3	15634.2	4.2047E-06	1.1547E-06	1.1547E-17	2.6594E-17	1.4293E-03	1.4293E-03	2.5057E-05	2.5057E-05
6	17	6593.3	15167.0	4.2565E-06	1.4200E-06	2.3302E-17	3.4957E-17	1.5042E-03	1.5042E-03	1.9571E-05	1.9571E-05
3	13	6866.0	14564.6	5.8819E-06	3.0896E-06	2.9252E-17	6.1620E-17	1.6430E-03	1.6430E-03	5.7911E-05	5.7911E-05
7	18	7018.7	14187.2	6.1872E-06	3.4111E-06	7.4111E-17	1.4912E-17	1.7598E-03	1.7598E-03	7.7598E-05	7.7598E-05
0	9	7187.8	13912.4	5.9987E-06	1.2314E-06	6.5744E-17	8.2726E-17	1.8011E-03	1.8011E-03	9.9737E-05	9.9737E-05
4	14	7342.5	13619.4	9.1233E-06	4.4494E-06	7.3238E-17	1.4276E-17	1.6253E-03	1.6253E-03	1.2258E-05	1.2258E-05
8	19	7416.7	13433.1	7.7680E-06	1.1767E-06	1.1767E-17	1.4702E-17	1.4702E-03	1.4702E-03	1.4149E-05	1.4149E-05
10	20	7687.1	13008.9	1.1141E-05	4.7973E-06	1.3106E-18	2.3025E-18	1.7814E-03	1.7814E-03	2.1098E-05	2.1098E-05
9	20	7774.6	12862.4	1.1299E-05	1.6677E-06	2.1270E-18	2.4952E-18	1.6535E-03	1.6535E-03	2.4340E-05	2.4340E-05
6	15	7793.9	12810.6	1.4448E-05	5.5398E-06	2.2481E-18	3.6955E-18	1.6077E-03	1.6077E-03	2.5127E-05	2.5127E-05
10	21	8092.7	12356.9	1.1713E-05	1.5895E-06	2.8486E-18	3.4953E-18	1.5057E-03	1.5057E-03	4.0570E-05	4.0570E-05
2	11	8169.9	12240.1	2.0717E-05	1.0348E-05	3.0835E-18	6.1607E-18	1.7619E-03	1.7619E-03	4.4102E-05	4.4102E-05
6	16	8217.1	12169.7	7.5332E-05	6.1952E-06	5.8910E-18	7.7992E-18	1.5919E-03	1.5919E-03	4.8542E-05	4.8542E-05
7	17	8609.3	11615.3	1.9624E-05	6.1851E-06	5.3909E-18	7.9929E-18	1.5719E-03	1.5719E-03	8.4831E-05	8.4831E-05
3	12	8633.3	11583.0	3.5243E-05	1.6370E-05	7.8145E-18	1.4593E-18	1.7421E-03	1.7421E-03	6.7384E-05	6.7384E-05
8	18	8967.4	11151.5	2.6298E-05	6.1805E-06	1.0461E-19	1.3675E-19	1.5530E-03	1.5530E-03	1.4109E-05	1.4109E-05
1	11	9074.3	11026.1	4.3300E-05	1.1231E-05	2.1211E-19	2.4175E-19	1.4293E-03	1.4293E-03	2.7092E-05	2.7092E-05
0	8	9094.8	10995.3	5.0470E-05	8.6392E-06	2.3674E-19	2.8563E-19	1.9169E-03	1.9169E-03	1.6410E-05	1.6410E-05
9	19	9288.3	10766.2	4.1861E-05	5.6982E-06	2.3222E-19	2.6881E-19	1.5591E-03	1.5591E-03	2.2326E-05	2.2326E-05
5	14	9450.0	10534.0	5.3782E-05	2.4023E-05	3.9253E-19	3.9253E-19	1.7073E-03	1.7073E-03	2.8707E-05	2.8707E-05
1	9	9559.5	10460.8	7.7210E-05	2.9416E-05	3.6474E-19	5.8924E-19	1.8957E-03	1.8957E-03	3.0773E-05	3.0773E-05
10	20	9569.3	10450.1	8.0949E-05	5.0597E-06	5.8271E-19	6.2156E-19	1.5172E-03	1.5172E-03	3.1397E-05	3.1397E-05
1	11	9801.1	10196.7	5.7694E-05	1.0196E-05	4.7847E-19	4.7847E-19	1.4983E-03	1.4983E-03	4.2092E-05	4.2092E-05
6	15	9877.3	10124.3	7.5881E-05	2.4988E-05	6.1744E-19	7.0270E-19	1.6876E-03	1.6876E-03	4.8796E-05	4.8796E-05
2	10	10007.6	9992.4	1.1667E-04	5.6152E-05	6.0796E-19	1.1720E-20	1.8747E-03	1.8747E-03	5.7425E-05	5.7425E-05
7	16	10233.2	9777.1	1.0137E-04	2.1328E-05	8.9642E-19	1.1625E-20	1.6849E-03	1.6849E-03	8.0280E-05	8.0280E-05
3	11	10436.0	9582.3	1.5030E-04	7.9430E-05	9.1547E-19	1.9415E-20	1.8513E-03	1.8513E-03	9.9733E-05	9.9733E-05
8	17	10594.8	9474.4	1.4214E-04	2.0894E-05	1.6764E-20	1.7652E-20	1.5457E-03	1.5457E-03	1.1922E-05	1.1922E-05
9	18	10859.0	9225.9	1.0337E-04	1.7916E-05	1.3889E-20	1.6734E-20	1.6205E-03	1.6205E-03	1.6659E-05	1.6659E-05
4	12	10841.7	9223.6	1.9611E-04	9.1027E-05	1.6741E-20	3.1848E-20	1.8329E-03	1.8329E-03	1.6093E-05	1.6093E-05
0	7	11036.2	9061.1	1.9537E-04	5.4920E-05	2.5015E-20	1.5300E-20	2.0484E-03	2.0484E-03	2.0646E-05	2.0646E-05
10	19	11083.0	9022.8	1.9389E-04	1.4863E-05	3.3180E-20	3.5934E-20	1.6074E-03	1.6074E-03	2.2007E-05	2.2007E-05
5	13	11221.8	8911.2	2.4580E-04	9.5675E-05	2.9980E-20	4.9086E-20	1.8121E-03	1.8121E-03	2.5677E-05	2.5677E-05
11	20	11283.7	8862.4	2.3153E-04	1.2031E-05	6.5305E-20	4.7788E-20	1.5883E-03	1.5883E-03	2.7981E-05	2.7981E-05
12	21	11438.1	8742.7	1.8451E-04	5.7146E-06	3.9175E-20	4.1318E-20	1.5591E-03	1.5591E-03	3.1166E-05	3.1166E-05
1	8	11466.5	8721.0	3.4357E-04	1.6823E-04	3.9843E-20	7.8087E-20	2.0257E-03	2.0257E-03	3.4505E-05	3.4505E-05
6	14	11573.4	8640.5	3.6973E-04	8.9594E-05	6.7177E-20	8.8847E-20	1.7313E-03	1.7313E-03	3.9892E-05	3.9892E-05
2	9	11880.0	8417.5	4.9000E-04	2.8270E-04	5.8498E-20	1.3747E-21	2.0030E-03	2.0030E-03	5.6118E-05	5.6118E-05
7	15	11893.3	8408.1	5.5637E-04	7.8282E-05	1.3531E-21	1.5746E-21	1.7707E-03	1.7707E-03	5.7400E-05	5.7400E-05
8	16	12178.6	8211.1	3.8649E-04	6.4930E-05	1.0492E-21	1.2611E-21	1.7501E-03	1.7501E-03	8.2344E-05	8.2344E-05
6	13	13305.2	7515.9	9.3028E-04	3.5612E-04	1.1041E-21	2.3715E-21	1.4906E-03	1.4906E-03	9.0449E-05	9.0449E-05
9	17	12426.4	8047.4	5.5698E-04	5.1817E-05	1.8600E-21	2.0528E-21	1.7295E-03	1.7295E-03	1.1132E-05	1.1132E-05
10	18	12633.7	7915.3	4.1470E-04	4.0183E-05	1.5228E-21					

5000°K										
V' V"	$\bar{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	ϕ_1	$\bar{\nu}^e, \text{cm}^{-1}$	$\phi_2 \bar{\nu}^e, \text{cm}^{-1}$	a, cm	$f\phi \bar{\nu}^e d\lambda \text{ cm}^{-5}$	
14 9	34557.1	2893.8	8.8173E-06	1.6229E-06	1.2252E 22	1.5015E 22	8.8934E-03	1.3032E 21		
17 11	34638.2	2887.0	5.1965E-06	4.7449E-07	8.1556E 21	8.9752E 21	1.2609E-02	1.3032E 21		
8 2	34640.6	2886.3	1.9154E-06	1.4298E-06	8.3993E 21	3.3130E 22	7.5816E-03	1.3032E 21		
21 13	34668.7	2884.4	1.6151E-05	6.9193E-09	2.8032E 22	2.8044E 22	2.7558E-01	1.3032E 21		
5 1	34705.4	2881.4	3.0816E-05	1.8435E-05	2.1285E 22	5.3497E 22	7.7091E-03	1.3032E 21		
4 0	34732.6	2879.1	3.7491E-05	1.2676E-05	4.3565E 22	6.5820E 22	7.8383E-03	1.3032E 21		
19 12	34854.8	2869.1	1.4679E-05	6.5628E-08	2.6199E 22	2.6317E 22	2.3614E-02	1.3032E 21		
13 8	35009.8	2856.3	6.8657E-06	2.4662E-06	8.1012E 21	1.2642E 22	9.0675E-03	1.3032E 21		
16 10	35110.7	2832.0	1.0186E-06	4.2652E-07	1.1477E 21	1.9744E 21	1.2913E-02	1.3032E 21		
12 7	35406.9	2824.3	3.6641E-06	3.2702E-06	7.7612E 20	7.2193E 21	9.2444E-03	1.3032E 21		
18 11	35700.7	2801.1	2.5154E-07	2.7797E-08	4.6325E 20	5.2080E 20	2.4474E-02	1.3032E 21		
20 12	35701.5	2801.0	2.5390E-07	4.6681E-09	5.1608E 20	5.2575E 20	3.8750E-01	1.3032E 21		
11 6	35751.3	2797.1	4.0237E-08	3.8728E-06	3.8736E 20	8.4018E 21	9.4251E-03	1.3032E 21		
15 9	35918.3	2784.1	1.1758E-06	3.4360E-07	1.7870E 21	2.5248E 21	1.3224E-02	1.3033E 21		
10 5	36046.1	2774.2	4.4368E-06	4.1238E-06	6.8664E 20	9.7325E 21	9.6085E-03	1.3033E 21		
9 4	36294.3	2755.3	4.3043E-06	3.4987E-06	9.2696E 20	9.8395E 21	9.7555E-03	1.3033E 21		
14 8	36464.1	2742.4	1.0622E-06	2.4457E-07	1.9219E 21	2.4969E 21	1.3544E-02	1.3033E 21		
17 10	36475.9	2741.5	9.4415E-07	6.9605E-09	2.2073E 21	2.2237E 21	2.5378E-02	1.3033E 21		
8 3	36498.8	2739.8	3.9261E-06	3.1900E-06	1.7401E 21	9.2818E 21	9.9857E-03	1.3033E 21		
19 11	36657.0	2728.0	8.4979E-07	5.1500E-08	1.9369E 21	2.0618E 21	6.5532E-01	1.3033E 21		
7 2	36662.6	2727.6	2.9010E-06	7.1449E-06	1.8363E 21	4.6363E 21	1.0377E-02	1.3033E 21		
6 1	36788.7	2718.2	1.8702E-06	1.0660E-06	1.9936E 21	2.5880E 21	1.0579E-02	1.3033E 21		
5 0	36880.1	2711.5	1.0285E-06	2.9717E-07	1.8403E 21	1.6335E 21	1.3872E-02	1.3033E 21		
13 7	36951.1	2706.3	6.4172E-07	1.4856E-07	1.2533E 21	1.3233E 20	2.6328E-02	1.3033E 21		
16 9	37183.1	2689.4	5.0072E-08	1.1717E-10	1.3202E 20	1.3202E 20	1.4208E-02	1.3033E 21		
12 6	37382.3	2675.1	7.5453E-08	7.1356E-08	1.1182E 19	2.0591E 20	1.9824E 00	1.3033E 21		
18 10	37538.3	2663.9	2.7931E-07	2.7126E-07	2.2520E 19	7.8151E 20	1.4554E-02	1.3033E 21		
11 5	37760.5	2648.3	2.2621E-08	2.2291E-08	9.5812E 17	6.5579E 19	1.4554E-02	1.3033E 21		
15 8	37825.3	2643.7	1.1166E-08	2.2913E-09	2.5816E 19	3.2527E 19	2.7330E-02	1.3033E 21		
10 4	38088.9	2625.4	2.0232E-09	1.8360E-09	5.7160E 17	6.1778E 18	1.4910E-02	1.3033E 21		
9 3	38370.5	2606.2	1.6955E-09	1.6679E-09	8.8096E 16	5.4111E 18	1.5275E-02	1.3033E 21		
14 7	38405.4	2603.8	9.2140E-09	8.2202E-09	3.1889E 18	2.9967E 19	2.8386E-02	1.3033E 21		
8 2	38608.1	2590.1	8.3947E-09	8.3244E-09	2.3304E 17	7.7832E 19	1.5691E-02	1.3033E 21		
7 1	38804.8	2577.0	1.0695E-08	1.0310E-08	1.3158E 18	3.6517E 19	1.6038E-02	1.3033E 21		
13 6	38926.5	2568.9	1.5132E-08	1.3612E-08	5.2886E 18	5.2645E 19	2.9502E-02	1.3033E 21		
6 0	38963.5	2566.5	1.0648E-08	5.2396E-09	1.8923E 19	3.7257E 19	3.0862E-02	1.3033E 21		
12 5	39391.5	2538.6	1.5893E-08	1.4495E-08	0.	5.7642E 19	3.1933E-02	1.3033E 21		
11 4	39803.4	2512.4	1.4495E-08	1.0500E-08	0.	4.4083E 19	3.3261E-02	1.3033E 21		
10 3	40165.1	2489.7	1.0500E-08	5.8398E-09	0.	2.5484E 19	3.4673E-02	1.3033E 21		
9 2	40479.7	2470.4	5.8398E-09	2.2606E-09	0.	1.0352E 19	3.6178E-02	1.3033E 21		
8 1	40750.2	2454.0	2.2606E-09	4.6244E-10	0.	2.1932E 18	3.7784E-02	1.3033E 21		
7 0	40979.5	2440.2	4.6244E-10							

SPECTRAL DISTRIBUTION FUNCTION AND RELATED PARAMETERS. N₂⁺ FIRST NEGATIVE

8000 °K

V	$\bar{v}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	Φ_2	$\Delta\Phi$	Φ, cm^{-1}	$\bar{\nu}, \text{cm}^{-1}$	$\bar{\nu}, \text{cm}^{-1}$	q, cm	$\int \bar{\nu} d\lambda, \text{cm}^{-1}$
3	17	134.0	949273.9	3.8597E-10	3.8597E-10	5	5.1646E 03	8.7733E-04	0.
4	17	213.0	949273.9	9.4247E-10	6.2800E-06	6	3.0002E 06	7.1672E-05	9.7722E-05
1	14	567.0	12620.6	1.3649E-09	4.7480E-10	7	3.6837E 07	8.0707E-04	6.4151E 03
2	14	775.0	12620.6	1.3071E-09	1.9759E-09	8	6.7323E 08	8.2872E-04	6.2614E 03
3	14	1171.0	95327.9	5.0815E-09	5.0815E-09	9	1.0720E 09	1.0720E-04	6.3499E 03
4	14	1567.0	95327.9	1.0927E-08	6.8354E-09	10	2.7800E 10	6.1923E-04	6.3499E 03
5	12	1675.0	56969.5	5.9209E-09	1.0307E-09	11	1.8734E 11	2.1031E-04	5.9303E-04
6	12	1777.0	56969.5	1.3777E-08	1.3777E-08	12	2.6111E 11	2.6111E-04	5.9303E-04
7	10	1941.0	51502.2	3.4210E-08	1.7117E-08	13	9.1529E 11	1.8319E-04	6.1021E-04
1	13	2270.4	43871.1	3.6327E-08	9.5465E-09	14	4.8146E 12	4.9287E-04	6.2286E 08
2	17	2362.0	43239.8	3.8330E-08	1.3137E-08	15	5.5545E 12	1.1020E-03	6.2286E 08
3	14	2418.0	40869.8	4.0869E-08	4.0869E-08	16	1.2133E 13	1.0121E-04	5.8784E 08
4	14	2866.9	34866.9	1.0343E-07	3.5514E-08	17	3.5007E 13	3.3272E-04	2.1672E 09
5	18	2922.5	34127.4	1.7279E-07	1.7278E-08	18	6.1956E 13	1.0734E-04	6.5883E-04
6	19	3455.2	26487.7	2.3457E-07	1.4407E-07	19	1.0734E 14	1.0734E-04	6.5883E-04
7	19	3477.7	26784.7	3.6502E-07	1.2406E-06	20	6.2564E 14	6.8574E-04	1.0332E 10
8	10	3901.0	23987.0	4.3901E-07	1.2406E-06	21	1.4675E 15	1.4675E-04	1.0332E 10
9	16	3986.3	25086.0	7.3292E-07	2.5338E-07	22	2.9408E 15	1.2515E-04	1.4998E 10
1	12	4046.8	24171.1	1.7857E-07	9.3711E-08	23	3.0525E 15	3.4201E-05	5.3224E 04
2	17	4404.9	22247.0	9.4404E-07	9.4404E-07	24	1.1656E 16	1.1656E-05	5.3224E 04
3	17	4509.9	22173.5	1.3853E-06	4.9659E-07	25	1.1656E 16	9.0245E-04	1.6421E 11
4	13	4559.9	21739.6	1.5804E-06	3.0029E-07	26	1.1671E 16	9.8283E-04	2.1602E 10
5	14	5000.0	19000.0	1.5000E-06	1.5000E-06	27	1.5000E 16	1.5000E-04	2.1602E 10
3	14	5134.1	19477.6	1.7641E-06	1.7641E-06	28	1.8414E 16	4.5876E-05	6.5062E 10
4	10	5315.4	18813.4	2.2334E-06	1.1133E-07	29	4.7854E 16	1.0815E-05	9.5743E 04
5	19	5474.0	18474.0	3.2474E-06	1.3474E-06	30	5.4781E 16	1.0815E-05	9.5743E 04
6	19	5646.4	17710.4	4.3398E-06	1.5678E-06	31	9.9716E 16	1.5030E-07	1.7932E 12
7	11	5849.4	17095.8	4.2377E-06	4.4275E-07	32	1.4400E 17	1.6975E-07	1.0501E-03
8	16	5989.7	16590.7	5.9897E-06	1.8400E-07	33	2.9408E 17	2.9408E-07	1.0501E-03
5	16	6136.2	16033.2	7.7622E-06	2.7622E-06	34	3.9868E 17	3.5074E-04	6.4882E 12
6	21	6298.1	15877.9	8.8917E-06	2.6532E-06	35	5.5492E 17	6.6244E-04	1.8777E 12
7	17	6330.3	15630.3	1.2581E-05	1.2581E-05	36	1.0734E 17	1.0734E-04	1.8777E

8000°K										
V' V"	$\tilde{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	ϕ_1	$\tilde{\nu}^s, \text{cm}^{-6}$	ϕ_2^s, cm^{-6}	a, cm	$\int \phi \tilde{\nu}^6 d\lambda, \text{cm}^{-5}$	
14 9	34557.1	2893.8	5.4785E-05	2.1651E-05	5.6428E 22	9.3301E 22	5.5584E-03	2.2980E 21		
17 11	34638.2	2887.0	4.6071E-05	9.5303E-06	6.3112E 22	7.9572E 22	7.8806E-03	2.2980E 21		
6 2	34646.6	2886.3	8.6215E-05	4.2238E-05	7.6067E 22	1.4812E 23	4.7385E-03	2.2980E 21		
21 13	34668.7	2884.4	7.7115E-05	2.0496E-07	1.3354E 23	1.3390E 23	1.7099E-01	2.2981E 21		
5 1	34705.4	2881.4	1.0725E-04	4.3493E-05	1.1140E 23	1.8739E 23	4.8182E-03	2.2981E 21		
4 0	34732.6	2879.1	1.1732E-04	2.7171E-09	1.6933E 23	2.0518E 23	4.8083E-03	2.2981E 21		
19 12	34854.4	2869.1	6.5826E-05	1.4390E-06	1.1508E 23	1.1822E 23	1.4759E-07	2.2981E 21		
13 8	35009.8	2856.3	5.8257E-05	2.8123E-05	5.5486E 22	1.0712E 23	5.6672E-03	2.2981E 21		
16 10	35110.7	2832.0	1.9575E-05	7.5545E-06	2.3299E 22	3.7943E 22	8.0703E-03	2.2981E 21		
12 7	35406.9	2824.3	4.2296E-05	3.1568E-05	2.1136E 22	8.3334E 22	5.7782E-03	2.2981E 21		
18 11	35700.7	2801.1	8.3196E-06	6.2613E-07	1.5929E 22	1.7225E 22	1.5296E-02	2.2981E 21		
20 12	35701.5	2801.0	8.4022E-06	1.2774E-07	1.7134E 22	1.7399E 22	2.4219E-01	2.2981E 21		
11 6	35751.3	2797.1	3.7420E-05	3.1374E-05	1.2620E 22	7.8137E 22	5.8907E-03	2.2981E 21		
15 9	35918.3	2784.1	1.9276E-05	5.3094E-06	2.9990E 22	4.1331E 22	8.2650E-03	2.2981E 21		
10 5	36046.1	2774.2	3.6190E-05	2.7745E-05	1.8524E 22	7.9366E 22	6.0054E-03	2.2981E 21		
9 4	36294.3	2755.3	2.9509E-05	2.1613E-05	1.8187E 22	6.7588E 22	6.1222E-03	2.2981E 21		
14 8	36464.1	2742.4	1.3758E-05	1.3980E-07	2.4670E 22	3.2340E 22	8.4647E-03	2.2981E 21		
17 10	36475.5	2741.5	1.2861E-05	1.3980E-07	2.4670E 22	3.2340E 22	1.5861E-02	2.2981E 21		
8 3	36498.8	2739.8	2.5476E-05	1.4490E-05	2.4670E 22	3.2340E 22	2.413E-03	2.2981E 21		
19 11	36657.0	2728.0	1.0530E-05	1.2862E-06	2.2429E 22	2.5550E 22	4.0833E-01	2.2981E 21		
7 2	36662.6	2727.6	1.6930E-05	7.8759E-06	2.1988E 22	4.1114E 22	6.3821E-03	2.2981E 21		
6 1	36788.7	2718.2	1.0693E-05	3.1490E-06	1.8702E 22	2.6509E 22	6.4855E-03	2.2981E 21		
5 0	36880.1	2711.5	6.6137E-06	7.0111E-07	1.5028E 22	1.6793E 22	6.6110E-03	2.2981E 21		
13 7	36951.1	2706.3	5.9078E-06	1.6941E-06	1.0726E 22	1.5038E 22	8.6697E-03	2.2981E 21		
16 9	37183.1	2689.4	1.1873E-06	2.0751E-09	3.1325E 21	3.1380E 21	1.6455E-02	2.2981E 21		
12 6	37382.3	2675.1	9.8844E-07	6.8881E-07	8.1768E 20	2.6974E 21	8.8803E-03	2.2981E 21		
18 10	37536.3	2663.9	6.3782E-06	6.1101E-06	7.5008E 20	1.7846E 22	1.2390E 03	2.2981E 21		
11 5	37760.5	2648.3	2.1953E-07	1.8045E-07	1.1329E 20	8.3640E 20	0.0065E-03	2.2981E 21		
15 8	37829.3	2643.7	1.5412E-07	3.5404E-08	3.4770E 20	7.0656E 19	9.3187E-03	2.2981E 21		
10 4	38088.9	2625.4	2.3140E-08	1.2353E-08	3.2937E 19	7.0656E 19	9.5472E-03	2.2981E 21		
9 3	38370.5	2606.2	1.0845E-08	9.2462E-09	5.1033E 18	3.4612E 19	1.7741E-02	2.2981E 21		
14 7	38405.4	2603.8	1.1745E-07	1.0987E-07	2.4961E 19	1.3835E 20	9.7821E-03	2.2981E 21		
8 2	38608.1	2590.1	4.1774E-08	3.7707E-08	1.3469E 19	1.4861E 20	1.0024E-02	2.2981E 21		
7 1	38804.8	2577.0	4.3525E-08	1.5922E-07	4.4853E 19	5.8494E 20	1.4638E-02	2.2981E 21		
13 6	38926.5	2568.9	1.6811E-07	1.0283E-07	1.5478E-08	3.0567E 20	1.0272E-02	2.2981E 21		
6 0	38963.5	2538.6	1.5372E-07	1.5342E-07	1.1075E 18	5.7439E 20	1.9179E-02	2.2981E 21		
12 5	39191.5	2512.4	1.1794E-07	1.1734E-07	0.	4.6661E 20	1.9988E-02	2.2981E 21		
11 4	39603.4	2489.7	7.0844E-08	7.0844E-08	0.	2.9650E 20	2.0788E-02	2.2981E 21		
10 3	40165.1	2470.4	3.2475E-08	3.2373E-08	4.4876E 17	1.4288E 20	2.1671E-02	2.2981E 21		
9 2	40479.7	2454.0	1.0332E-08	1.0240E-08	4.2203E 17	4.7312E 19	2.2611E-02	2.2981E 21		
8 1	40750.2	2440.2	1.7554E-07	1.5981E-09	2.7152E 17	8.3133E 18	2.3615E-02	2.2981E 21		
7 0	40979.5									

II-81

11,000 °K										
V' V"	$\tilde{\nu}$, cm ⁻¹	λ , Å	ϕ_2	$\Delta\phi$	ϕ_1	$\tilde{\nu}^e$, cm ⁻¹	$\phi_2 \tilde{\nu}^e$, cm ⁻⁶	α , cm	$\int \phi \tilde{\nu}^e d\lambda$ cm ⁻⁵	
14 9	24557.1	2892.6	5.206E-04	6.3367E-05	7.0240E 23	3.0017E 23	4.0425E-03	3.4330E 21		
17 11	24638.2	2867.0	4.4089E-04	3.3649E-05	7.0311E 23	7.6115E 23	5.7114E-03	3.4331E 21		
6 2	44646.6	2808.3	4.9156E-04	6.7324E-05	7.4241E 23	4.5011E 23	4.4402E-03	3.4331E 21		
21 11	14685.7	2864.4	4.2890E-04	8.9242E-07	7.0720E 23	7.7970E 23	1.2235E-07	3.4331E 21		
5 1	14705.4	2861.4	4.4384E-04	5.7242E-05	7.1275E 23	9.1149E 23	4.5041E-03	3.4331E 21		
4 0	24737.6	2879.1	4.5541E-04	2.8442E-04	7.6150E 23	7.4952E 21	1.5627E-03	3.4331E 21		
16 12	14854.5	2869.1	3.0589E-04	6.3815E-04	4.3840E 23	7.4041E 23	1.0713E-02	3.4332E 21		
13 4	15005.8	2856.3	2.6045E-04	2.6678E-04	1.1761E 23	4.4370E 23	4.1104E-03	3.4332E 21		
16 10	15313.7	2832.0	1.4710E-04	2.5151E-04	1.6045E 22	1.4412E 23	5.4691E-03	3.4333E 21		
12 7	37406.4	2624.3	1.2205E-04	2.1732E-04	9.9094E 22	2.5310E 23	4.2005E-03	3.4333E 21		
18 11	15700.7	2601.1	3.9756E-04	2.1275E-06	7.4457E 22	9.1273E 22	1.1724E-02	3.4333E 21		
20 12	37011.5	2401.0	3.9621E-05	5.1571E-07	9.0971E 22	8.2044E 22	1.7614E-01	3.4333E 21		
11 5	35751.1	2707.1	1.0421E-04	1.3710E-04	9.4744E 22	2.1161E 23	4.2041E-03	3.4333E 21		
15 9	35918.3	2700.1	6.7405E-05	1.5643E-04	1.0905E 23	1.4474E 23	4.6101E-03	3.4334E 21		
10 5	34046.1	2774.2	4.6824E-03	5.7511E-04	4.1338E 22	2.1155E 23	4.3676E-03	3.4334E 21		
9 4	35244.3	2755.3	7.4432E-04	6.7455E-05	7.3121E 22	1.7036E 23	4.6528E-03	3.4335E 21		
14 8	16468.1	2747.4	4.4406E-04	9.5562E-06	8.2544E 22	1.0504E 23	1.1362E-03	3.4334E 21		
17 10	36475.5	2741.3	4.2728E-03	4.9302E-07	9.4673E 22	1.6063E 23	1.1535E-07	3.4334E 21		
8 3	16498.8	2739.4	6.4131E-04	2.5875E-05	9.0390E 22	1.5161E 23	4.5339E-03	3.4334E 21		
16 11	36557.0	2729.0	3.5544E-04	5.0119E-06	7.4058E 22	8.0445E 22	2.4674E-01	3.4334E 21		
7 3	36867.6	2727.6	4.3940E-04	1.7527E-05	7.4072E 22	1.0579E 23	4.6270E-03	3.4334E 21		
6 1	35788.7	2718.7	2.8766E-04	6.7467E-06	5.2655E 22	7.0074E 22	4.7744E-03	3.4334E 21		
5 0	36881.1	2717.5	1.4657E-04	4.3613E-07	4.4595E 22	4.4744E 22	4.4607E-03	3.4334E 21		
13 7	35951.1	2714.3	1.8628E-04	4.6114E-06	3.6501E 22	4.7411E 22	4.4493E-03	3.4334E 21		
16 5	37187.1	2679.4	5.6299E-06	6.7121E-04	1.7369E 22	1.5040E 22	1.1407E-07	3.4334E 21		
12 6	37382.3	2675.1	3.5404E-04	1.7451E-06	6.6380E 21	1.0792E 22	4.6544E-03	3.4334E 21		
16 10	37346.3	2663.7	2.4344E-04	2.2701E-04	4.8061E 21	6.4121E 22	7.6107E-01	3.4334E 21		
11 5	37746.5	2648.1	4.6756E-07	1.2106E-07	1.7324E 21	2.9719E 21	5.8756E-03	3.4335E 21		
15 4	38138.5	2643.7	7.1170E-07	1.1617E-07	1.7745E 21	2.0591E 21	1.2742E-02	3.4335E 21		
10 3	37237.5	2625.4	1.2712E-07	3.4443E-08	1.0724E 20	3.4415E 20	6.1773E-03	3.4335E 21		
14 7	34605.4	2606.7	3.2613E-02	1.8164E-06	4.6116E 19	1.0408E 20	6.1834E-03	3.4335E 21		
8 2	32608.1	2590.1	9.6003E-08	3.4473E-07	9.2161E 19	1.1174E 21	1.3001E-02	3.4335E 21		
7 1	35804.6	2577.1	8.7711E-06	6.1767E-07	5.7140E 19	3.2093E 20	7.1421E-03	3.4335E 21		
13 4	37274.5	2571.9	4.5647E-07	6.1767E-07	9.4629E 18	2.7331E 20	2.5000E-03	3.4335E 21		
6 0	38963.5	2566.5	3.1587E-07	2.2734E-07	1.1971E 20	1.4445E 21	1.3417E-02	3.4335E 21		
12 5	34391.5	2547.6	3.7067E-07	3.8772E-07	1.0742E 19	1.6799E 21	1.1543E-02	3.4335E 21		
11 4	34803.4	2517.4	2.7509E-07	2.7373E-07	5.1092E 18	1.0707E 21	1.4591E-02	3.4335E 21		
10 3	37165.1	2487.7	1.5797E-07	1.5194E-07	6.6027E 18	6.4274E 20	1.1717E-02	3.4335E 21		
9 2	34747.7	2470.4	6.4384E-08	6.3532E-07	7.7244E 18	2.3172E 21	1.5767E-02	3.4335E 21		
8 1	47756.2	2454.2	1.2746E-07	1.9351E-06	4.1027E 18	9.1770E 19	4.6844E-02	3.4335E 21		
7 0	44975.5	2440.2	3.1088E-07	2.7670E-07	2.3011E 18	1.6171E 19	1.7171E-01	3.4335E 21		

N ₂ + MEINEL										
N1/N2	0	1	2	3	4	5	6	7	8	9
0	4.7507E-01	3.7976E-01	1.2261E-01	2.0552E-02	1.9140E-03	9.8223E-05	2.5730E-06	2.8280E-08	7.1881E-11	1.3334E-14
1	3.2551E-01	3.1147E-02	3.3577E-01	2.3675E-01	6.2361E-02	7.9463E-03	5.1634E-04	1.5252E-05	2.0531E-07	5.5007E-10
2	1.3597E-01	2.2454E-01	2.1369E-02	1.8509E-01	2.9463E-01	1.1706E-01	1.9723E-02	1.5814E-03	5.8634E-05	3.3781E-07
3	4.5258E-02	1.9900E-01	7.9737E-02	1.0485E-01	6.2736E-02	2.9286E-01	1.7382E-01	3.7932E-02	3.6854E-03	1.5959E-04
4	1.3290E-02	1.0318E-01	1.7446E-01	7.1951E-03	1.5534E-01	5.8075E-03	2.4791E-01	2.2299E-01	5.2282E-02	7.2377E-03
5	3.6240E-03	4.1446E-02	1.3947E-01	1.0776E-01	6.9178E-03	1.5087E-01	5.6092E-03	1.8156E-01	2.5782E-01	9.1551E-02
	9.9872E-01	9.7907E-01	8.7342E-01	6.6220E-01	5.8190E-01	5.7454E-01	4.4758E-01	4.4438E-01	3.7385E-01	3.3048E-02
N1/N2	10	11	12	13	14	15	16	17	18	19
0	1.3712E-16	2.7562E-18	1.4459E-16	1.0180E-16	9.5982E-17	6.8800E-16	9.3860E-17	4.4591E-15	1.3922E-15	1.5335E-15
1	1.7873E-13	4.6499E-15	2.7039E-16	7.7745E-15	5.7731E-16	5.1409E-17	4.8711E-16	1.3310E-16	2.8998E-17	1.4599E-15
2	2.4027E-09	1.2992E-12	3.4067E-15	9.4675E-16	6.8119E-18	9.2846E-17	2.6601E-18	5.3240E-17	6.4896E-18	7.2135E-19
3	2.5305E-06	7.5480E-09	6.1950E-12	6.6985E-15	5.2723E-15	3.0122E-16	8.5199E-18	2.3340E-15	4.8723E-15	3.4514E-15
4	3.5730E-04	6.3015E-06	1.9287E-08	2.2829E-11	6.3533E-15	4.6511E-15	3.5759E-15	1.4709E-16	1.5949E-15	7.2321E-13
5	1.2619E-02	7.0813E-04	1.3688E-05	4.2478E-08	7.2533E-11	1.2025E-14	1.1019E-14	1.3299E-15	1.9820E-15	3.5995E-15
	1.2979E-02	7.1444E-04	1.3705E-05	4.2501E-08	7.2545E-11	1.7810E-14	1.6022E-14	2.3617E-15	3.3880E-15	1.3051E-15
N1/N2	20	21								
0	4.8250E-16	1.4032E-15	1.0000E 00							
1	1.5527E-17	3.4885E-17	1.0000E 00							
2	3.6857E-19	3.3878E-17	1.0000E 00							
3	1.6626E-16	6.1908E-16	1.0000E 00							
4	1.9054E-16	6.2021E-16	1.0001E 00							
5	1.1160E-15	3.3943E-16	1.0001E 00							
	1.9712E-15	3.0507E-15								

.... SPECTRAL DISTRIBUTION FUNCTION AND RELATED PARAMETERS, N2+MEINEL

2000 °K									
V' V"	$\bar{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	$\phi_1 \bar{\nu}^6, \text{cm}^{-6}$	$\phi_2 \bar{\nu}^6, \text{cm}^{-6}$	a, cm	$\int \phi \bar{\nu}^6 d\lambda \text{ cm}^{-5}$	
5 0	18068.9	5534.4	4.4480E-05	4.4480E-05	0.	1.5480E 21	-6.8778E-03	0.	
4 0	16315.2	6129.1	5.7801E-04	5.7801E-04	0.	1.0854E 22	-6.8778E-03	0.	
3 0	14531.6	6881.6	5.6550E-04	5.6550E-04	5.1311E 20	9.6312E 21	-7.7269E-03	5.432E 15	
2 0	12718.2	7862.7	7.0749E-03	7.0749E-03	0.	6.8698E 22	-6.8778E-03	5.432E 15	
1 0	11998.2	8334.6	5.4518E-03	4.9718E-03	3.8374E 21	1.8628E 22	-7.7269E-03	4.6846E 15	
0 0	10920.2	8992.7	2.4288E-03	2.1484E-03	1.8696E 21	1.8628E 22	-6.8152E-03	7.3102E 15	
4 1	14140.4	7071.9	7.8369E-02	7.8369E-02	0.	3.3157E 23	-7.7269E-03	3.3694E 17	
3 1	12356.8	8092.7	4.1121E-02	4.1121E-02	2.3232E 22	3.6427E 22	-6.8152E-03	4.5110E 17	
2 1	11998.2	8334.6	1.8210E-02	1.8210E-02	6.1157E 21	6.1352E 21	-1.0260E-02	4.7801E 17	
1 1	10875.0	9195.4	2.4630E-03	1.9115E-03	1.3752E 21	1.487E 24	-6.8778E-03	4.7801E 17	
0 1	10543.4	9488.6	3.0541E-03	1.4520E-04	9.923E 22	2.9680E 22	-7.7269E-03	1.7181E 18	
4 2	12114.7	7979.8	3.4521E-02	1.5648E-02	2.1438E 22	3.9213E 22	-8.8152E-03	2.0342E 18	
3 2	10920.2	10453.1	2.1336E-04	4.5089E-04	2.4348E 21	2.853E 21	-1.0260E-02	2.0787E 18	
2 2	9889.0	11108.6	3.9676E 00	1.957E-02	5.223E 19	1.6355E 20	-1.2272E-02	2.0787E 18	
1 2	8700.2	11493.9	5.7310E-01	7.5163E-02	7.5072E 16	2.1133E 24	-6.8778E-03	5.2435E 18	
0 2	8401.3	11902.9	8.6634E-02	1.9457E-02	2.5078E 22	3.0453E 22	-7.7269E-03	5.6389E 18	
4 3	12137.4	7862.7	3.3918E-02	2.3695E-02	2.8990E 21	9.6180E 21	-1.0260E-02	5.6892E 18	
3 3	10920.2	8334.6	1.2856E-02	1.1513E-02	3.0540E 20	2.9239E 21	-1.2272E-02	5.7014E 18	
2 3	9889.0	9195.4	4.2805E-03	3.8846E-03	3.8846E 19	7.7792E 20	-1.5265E-02	5.7014E 18	
1 3	8700.2	10453.1	1.6067E-02	3.5261E 00	0.	3.5707E 23	-7.7269E-03	5.7014E 18	
0 3	8401.3	10920.2	1.5248E-03	1.1468E-01	9.1468E 21	1.0793E 23	-1.0260E-02	6.8287E 18	
4 4	12356.8	8092.7	2.0823E-01	4.3292E-02	1.2708E 21	2.0787E 21	-1.2272E-02	6.8287E 18	
3 4	11998.2	8334.6	2.8340E-03	5.2960E-04	8.5044E 19	1.0459E 20	-1.5265E-02	6.8287E 18	
2 4	10875.0	9195.4	2.3052E-04	1.6946E-01	1.1543E 18	6.8435E 18	-2.0190E-02	6.8287E 18	
1 4	10543.4	9488.6	1.2815E 00	1.2815E 00	0.	1.3591E 22	-8.8152E-03	6.8287E 18	
0 4	10214.7	9789.8	4.485E-01	7.4288E-01	1.2417E 21	6.8998E 21	-1.0260E-02	6.8287E 18	
4 5	12718.2	7071.9	4.485E-01	2.4039E-01	4.1208E 21	1.2417E 21	-1.2272E-02	6.9161E 18	
3 5	12356.8	8092.7	3.7899E-01	2.4039E-01	1.0667E 20	4.9341E 20	-1.5265E-02	6.9251E 18	
2 5	11998.2	8334.6	1.2293E-01	9.4351E-02	1.1793E 19	9.5472E 19	-2.0190E-02	6.9270E 18	
1 5	10875.0	9195.4	2.9572E-02	2.9572E-02	2.9572E 19	2.9572E 19	-2.0190E-02	6.9270E 18	
0 5	10543.4	9488.6	9.3948E-03	8.9532E-03	8.6804E 17	0.	-1.0260E-02	6.9270E 18	
4 6	12718.2	7071.9	2.4806E-01	2.3147E-01	5.5070E 18	4.6807E 18	-1.2272E-02	6.9281E 18	
3 6	12356.8	8092.7	2.4806E-01	2.4806E-01	2.5246E 18	1.7455E 19	-1.2272E-02	6.9281E 18	
2 6	11998.2	8334.6	1.6593E-01	1.4196E-01	7.7992E 17	0.379E 18	-2.0190E-02	6.9281E 18	
1 6	10875.0	9195.4	5.0573E-02	8.4292E-02	3.8830E-02	1.3212E 18	-7.9804E-02	6.9290E 18	
0 6	10543.4	9488.6	4.0770E-02	2.3999E-02	2.4181E 15	4.0228E 17	-1.5265E-02	6.9290E 18	
4 7	12718.2	7071.9	2.7355E-02	2.7355E-02	0.	4.2547E 14	-1.2272E-02	6.9290E 18	
3 7	12356.8	8092.7	3.6291E-02	4.3893E 12	5.1189E 13	5.1189E 13	-1.5265E-02	6.9290E 18	
2 7	11998.2	8334.6	2.4134E-02	2.3810E-02	1.8309E-02	1.8309E-02	-2.9804E-02	6.9290E 18	
1 7	10875.0	9195.4	3.0095E 00	3.1286E-02	5.7619E 13	5.8626E 13	-7.0190E-02	6.9290E 18	

.... SPECTRAL DISTRIBUTION FUNCTION AND RELATED PARAMETERS, N2+ MEINEL

5000 °K									
V' V"	$\bar{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	$\phi_1 \bar{\nu}^6, \text{cm}^{-6}$	$\phi_2 \bar{\nu}^6, \text{cm}^{-6}$	a, cm	$\int \phi \bar{\nu}^6 d\lambda \text{ cm}^{-5}$	
5 0	18068.9	5534.4	1.3104E-03	1.3104E-03	0.	4.5002E 22	-2.7511E-03	0.	
4 0	16315.2	6129.1	7.9702E-03	7.9702E-03	1.9842E 20	1.9842E 20	-2.7511E-03	4.6573E 18	
3 0	14531.6	6881.6	1.9164E-02	1.9164E-02	4.0349E 22	3.0896E 23	-3.0908E-03	1.8173E 17	
2 0	12718.2	7862.7	4.5922E-02	4.5922E-02	2.8807E 21	4.2931E 23	-2.7511E-03	5.4898E 17	
1 0	11998.2	8334.6	8.4234E-02	6.8704E-02	1.2415E 23	6.7337E 23	-3.0908E-03	1.3191E 18	
0 0	10920.2	8992.7	8.9298E-02	6.2890E-02	1.7992E 23	6.0400E 23	-3.5261E-03	1.7509E 18	
4 1	14140.4	7071.9	7.8369E-02	7.8369E-02	1.1887E 22	9.8216E 23	-2.7511E-03	2.6075E 18	
3 1	12356.8	8092.7	2.3207E-01	2.3207E-01	3.0502E 23	1.0931E 24	-3.0908E-03	3.9323E 18	
2 1	11998.2	8334.6	2.3611E-01	1.3113E-01	1.8353E 23	3.2379E 23	-4.1041E-03	6.4126E 18	
1 1	10875.0	9195.4	1.3000E-01	5.6311E-01	3.3119E 23	7.0841E 23	-2.7511E-03	6.9465E 18	
0 1	10543.4	9488.6	9.4149E-01	9.3283E-01	1.4258E 22	1.5573E 24	-3.0908E-03	9.7141E 18	
4 2	12114.7	7979.8	4.0508E-01	4.0508E-01	1.0013E-01	3.4640E 23	-3.5261E-03	1.1591E 19	
3 2	10920.2	10453.1	1.5557E-01	6.2280E-03	1.3966E 23	1.4549E 23	-4.1041E-03	1.2592E 19	
2 2	9889.0	11108.6	2.3447E 00	4.2774E-03	4.4386E 22	4.7603E 22	-4.1041E-03	1.5948E 19	
1 2	8700.2	11493.9	1.1211E 00	2.3339E 00	5.7511E 21	1.2477E 24	-2.7511E-03	1.2988E 19	
0 2	8401.3	11902.9	5.3346E-01	4.5219E-02	1.7168E 23	1.8758E 23	-3.0908E-03	1.1777E 19	
4 3	12137.4	7862.7	3.8142E-01	1.5163E-01	6.5163E 22	1.0015E 23	-4.1041E-03	1.1777E 19	
3 3	10920.2	8334.6	3.0537E-01	1.5910E-01	3.3266E 22	6.9450E 22	-4.1041E-03	1.1777E 19	
2 3	9889.0	9195.4	2.1186E-01	1.1478E-01	1.7611E 22	3.8431E 22	-6.1061E-03	1.1777E 19	
1 3	8700.2	10453.1	2.0842E 00	2.0741E 00	1.0181E 21	2.1126E 23	-6.1061E-03	1.1777E 19	
0 3	8401.3	10920.2	1.3203E 00	1.2076E 00	7.2136E 22	1.6821E 23	-3.5261E-03	1.1777E 19	
4 4	12356.8	8092.7	5.3346E-01	4.5219E-02	3.3942E 22	6.1927E 22	-4.1041E-03	1.1777E 19	
3 4	11998.2	8334.6	6.2399E-01	1.0715E-01	6.7490E 21	9.0191E 21	-6.1061E-03	2.0359E 19	
2 4	10875.0	9195.4	2.1144E 00	2.7371E 21	2.7371E 21	2.8301E 21	-8.0759E-03	2.0221E 19	
1 4	10543.4	9488.6	1.3710E 00	8.4952E-01	1.9543E 21	6.4933E 20	-4.1041E-03	2.0221E 19	
0 4	10214.7	9789.8	1.1035E 00	6.1657E-01	1.9543E 21	2.1029E 21	-8.0759E-03	2.0347E 19	
4 5	12718.2	7071.9	7.4244E-01	4.0869E-01	5.4567E 20	8.6410E 20	-1.1421E-02	2.0453E 19	
3 5	12356.8	8092.7	4.3861E-01	2.6375E-01	3.4567E 20	4.2619E 19	-4.1041E-03	2.0453E 19	
2 5	11998.2	8334.6	1.4592E-01	1.4592E-01	0.	6.1819E 19	-4.1041E-03	2.0453E 19	
1 5	10875.0	9195.4	3.6900E-01	3.0156E-01	1.1312E 19	5.8746E 19	-6.1061E-03	2.0453E 19	
0 5	10543.4	9488.6	5.3751E-01	4.1529E-01	1.5027E 19	3.9489E 19	-8.0759E-03	2.0453E 19	
4 6	12718.2	7071.9	6.6071E-01	4.7868E-01	1.0879E 19	2.2886E 19	-1.1921E-02	2.0457E 19	
3 6	12356.8	8092.7	7.0007E-01	5.3685E-01	6.1692E 18	1.3466E 19	-2.2754E-02	2.0457E 19	
2 6	11998.2	8334.6	8.0808E-01	7.0700E-01	1.6920E 18	2.5028E 18	-4.0407E-03	2.0457E 19	
1 6	10875.0	9195.4	1.6079E-02	1.6079E-02	0.	2.5028E 18	-0.1051E-03	2.0457E 19	
0 6	10543.4	9488.6	5.4902E-02	4.7914E-02	9.0117E 12	9.6426E 30	-1.1321E-02	2.0457E 19	
4 7	12718.2	7071.9	1.6034E-01	1.5249E-01	7.1394E 12	7.0801E 13	-8.0759E-03	2.0457E 19	
3 7	12356.8	8092.7	1.1635E 00	1.1635E 00	2.0810E 13	2.2587E 13	-8.0759E-03	2.0457E 19	

NO BETA

N1/N2	0	1	2	3	4	5	6	7	8	9
0	2.2641E-05	3.1095E-04	2.0460E-03	8.5693E-03	2.5605E-02	5.7994E-02	1.0327E-01	1.4802E-01	1.7347E-01	1.5733E-01
1	1.8507E-04	2.0886E-03	1.0933E-02	3.4872E-02	7.4613E-02	1.1026E-01	1.0965E-01	6.4327E-02	1.1898E-02	4.2302E-03
2	7.9208E-04	7.2777E-03	2.9747E-02	6.9589E-02	9.8953E-02	7.7835E-02	2.2280E-02	1.4296E-03	4.3261E-02	3.2242E-02
3	2.3640E-03	1.7488E-02	5.4452E-02	8.8170E-02	7.0117E-02	1.4830E-02	5.9847E-03	5.2637E-02	5.3405E-02	1.2960E-02
4	5.5296E-03	3.2490E-02	7.4499E-02	7.5692E-02	2.1921E-02	3.2797E-03	4.7031E-02	4.3606E-02	3.9214E-03	2.3275E-02
5	1.0802E-02	4.9586E-02	7.9752E-02	4.1836E-02	3.7156E-05	3.3852E-02	4.8235E-02	4.7312E-03	1.2158E-02	5.2219E-02
6	1.8342E-02	6.4437E-02	6.7470E-02	1.0719E-02	1.3818E-02	4.9225E-02	1.3360E-02	9.3095E-03	4.5081E-02	1.2101E-02
	3.8037E-02	1.7368E-01	3.1890E-01	3.2945E-01	3.3446E-01	3.4728E-01	3.4982E-01	3.2983E-01	3.5719E-01	3.5222E-01
N1/N2	10	11	12	13	14	15	16	17	18	
0	1.3507E-01	9.0594E-02	5.0679E-02	2.3597E-02	9.1027E-03	2.8878E-03	7.4548E-04	1.5431E-04	2.5095E-05	1.2321E-05
1	5.3129E-02	1.1554E-01	1.4289E-01	1.2329E-01	7.9833E-02	4.0015E-02	1.5714E-02	4.3387E-03	1.1594E-03	3.9984E-04
2	5.6926E-02	7.1533E-03	1.2322E-02	7.5864E-02	1.3041E-01	1.2986E-01	8.8602E-02	4.4083E-02	1.6385E-02	4.9441E-03
3	7.9982E-03	5.9709E-02	6.8818E-02	1.8319E-02	4.7608E-03	6.5497E-02	1.2784E-01	1.2901E-01	8.4248E-02	4.4551E-02
4	5.8742E-02	2.6350E-02	1.6224E-03	4.9422E-02	6.8023E-02	1.7696E-02	6.9462E-03	7.5792E-02	1.3454E-02	7.7238E-03
5	1.2252E-02	1.0677E-02	5.3768E-02	2.6914E-02	2.0392E-03	5.2566E-02	6.2060E-02	8.4627E-03	1.9486E-02	5.3555E-03
6	1.0996E-02	4.6567E-02	1.2174E-02	1.1883E-02	5.2743E-02	1.8414E-02	8.0290E-03	6.3074E-02	4.6872E-02	3.7521E-03
	3.3511E-01	3.5659E-01	3.4227E-01	3.2929E-01	3.4691E-01	3.2694E-01	3.0994E-01	3.2541E-01	3.3272E-01	

SPECTRAL DISTRIBUTION FUNCTION AND RELATED PARAMETERS. NO BETA

2000 °K

[illegible]

		2000 °K									
V'	V''	$\tilde{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	ϕ_1	$\tilde{\nu}^6, \text{cm}^{-6}$	$\phi_2 \tilde{\nu}^6, \text{cm}^{-6}$	a, cm	$\int \phi \tilde{\nu}^6 d\lambda \text{ cm}^{-5}$	
6	16	24716.4	4045.9	1.8669E-01	3.0634E-04	4.2540E 25	4.2640E 25	-1.9305E-03	2.6223E 21		
1	13	24256.6	4122.6	2.4614E-01	1.7783E-01	1.3914E 25	5.0138E 25	-2.2051E-03	2.6419E 21		
4	15	24246.0	4124.4	2.4330E-01	2.8275E-03	4.8855E 25	4.9430E 25	-2.0560E-03	2.6428E 21		
5	16	23759.2	4208.9	8.8303E-02	4.4098E-03	1.5001E 25	1.5894E 25	-2.0404E-03	2.6671E 21		
2	14	23753.2	4210.0	1.7773E-01	6.0573E-02	1.8454E 25	3.1922E 25	-2.1904E-03	2.6673E 21		
6	17	23288.5	4294.0	6.6742E-02	2.4920E-03	1.0250E 25	1.0647E 25	-2.0247E-03	2.6833E 21		
3	15	23264.2	4298.5	8.5413E-02	2.2119E-02	1.0034E 25	1.3541E 25	-2.1752E-03	2.6837E 21		
0	13	23233.5	4304.1	1.5408E-01	7.4197E-02	1.2945E 25	2.4215E 25	-2.3347E-03	2.6845E 21		
4	16	22790.0	4387.9	5.7730E-02	1.1514E-03	7.9271E 24	8.0834E 24	-2.1595E-03	2.6967E 21		
1	14	22744.5	4396.7	1.7178E-01	1.1967E-01	7.2142E 24	2.3790E 25	-2.3200E-03	2.6973E 21		
5	17	22331.2	4478.0	6.7014E-02	6.9470E-04	8.2246E 24	8.3139E 24	-2.1442E-03	2.7092E 21		
2	15	22269.1	4490.5	1.5186E-01	9.3747E-02	7.0872E 24	1.8521E 25	-2.3051E-03	2.7102E 21		
6	18	21888.6	4568.6	6.5120E-02	1.9219E-03	5.9503E 24	7.1617E 24	-2.1284E-03	2.7194E 21		
3	16	21808.1	4585.4	9.9024E-02	4.4885E-02	5.8240E 24	1.0653E 25	-2.2903E-03	2.7205E 21		
0	14	21721.4	4603.8	1.1097E-01	2.9812E-02	8.5241E 24	1.1655E 25	-2.4617E-03	2.7222E 21		
4	17	21362.0	4681.2	6.0891E-02	1.3064E-02	4.5449E 24	5.7863E 24	-2.2747E-03	2.72781E 21		
1	15	21260.4	4703.6	1.1058E-01	6.2491E-02	4.4409E 24	1.0212E 25	-2.4472E-03	2.7292E 21		
5	18	20931.3	4777.5	5.1880E-02	1.6638E-03	4.2231E 24	4.3630E 24	-2.2591E-03	2.7342E 21		
2	16	20813.1	4804.7	1.0578E-01	6.6657E-02	3.1803E 24	8.5987E 24	-2.6325E-03	2.7352E 21		
3	17	20380.1	4906.7	8.4344E-02	4.7216E-02	2.6603E 24	6.0436E 24	-2.4175E-03	2.7404E 21		
0	15	20237.3	4941.4	6.9596E-02	9.8791E-03	4.1021E 24	4.7838E 24	-2.6033E-03	2.7421E 21		
4	18	19962.1	5009.5	5.9670E-02	2.4180E-02	2.2456E 24	3.7755E 24	-2.6024E-03	2.7444E 21		
1	16	19804.3	5049.4	6.6340E-02	2.5641E-02	2.4552E 24	4.0026E 24	-2.5892E-03	2.7466E 21		
2	17	19365.1	5156.6	5.8003E-02	3.4662E-02	1.2386E 24	3.0780E 24	-2.5749E-03	2.7482E 21		
3	18	18980.2	5268.6	5.2946E-02	3.2236E-02	9.6828E 23	2.4754E 24	-2.6036E-03	2.7502E 21		
0	16	18781.2	5324.5	3.4519E-02	2.6723E-03	1.3977E 24	1.5150E 24	-2.7623E-03	2.7512E 21		
1	17	18376.4	5441.8	2.0418E-02	6.2760E-03	4.6764E 23	7.8625E 23	-2.7487E-03	2.7525E 21		
2	18	17985.2	5560.1	2.0779E-02	1.3509E-02	2.4406E 23	7.0328E 23	-2.7349E-03	2.7528E 21		
0	17	17393.3	5762.6	4.3059E-03	5.8168E-04	1.0170E 23	1.1758E 23	-2.9419E-03	2.7534E 21		
1	18	16976.4	5890.5	3.5898E-03	2.0862E-03	3.5993E 22	8.5931E 22	-2.9291E-03	2.7535E 21		
0	18	15953.3	6268.3	2.7630E-04	9.9884E-05	2.9083E 21	4.5550E 21	-3.1465E-03	2.7536E 21		

		5000°K											
V'	V"	$\tilde{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	ϕ_1	$\tilde{\nu}^6, \text{cm}^{-6}$	$\phi_2 \tilde{\nu}^6, \text{cm}^{-6}$	a, cm	$\int \phi \tilde{\nu}^6 d\lambda \text{ cm}^{-5}$			
4	16	24716.4	4045.9	3.3341E-01	2.2361E-03	7.5504E 25	7.6014E 25	-7.7223E-04	6.6094E 21				
1	13	24256.6	4122.6	3.8286E-01	1.5577E-01	4.6257E 25	7.7887E 25	-8.6214E-04	6.6553E 21				
4	15	24246.0	4124.4	3.8840E-01	8.9859E-03	7.7083E 25	7.8939E 25	-8.2241E-04	6.6567E 21				
5	16	23759.2	4208.5	2.8029E-01	2.3710E-02	4.6147E 25	5.0412E 25	-8.1618E-04	6.7082E 21				
2	14	23753.2	4210.0	4.0145E-01	1.2263E-01	5.0081E 25	4.5892E 25	-8.0985E-04	6.7559E 21				
6	17	23288.5	4294.0	2.8770E-01	1.8190E-02	4.2996E 25	5.1969E 25	-8.7100E-04	6.7560E 21				
3	15	23264.2	4298.5	3.2781E-01	4.6012E-02	4.4675E 25	5.6797E 25	-9.3385E-04	6.7509E 21				
0	13	23233.5	4304.1	3.6111E-01	4.1790E-02	5.0224E 25	3.4957E 25	-8.6393E-04	6.7983E 21				
4	16	22790.0	4387.9	2.4957E-01	3.0592E-03	3.4454E 25	4.7723E 25	-9.2803E-04	6.8313E 21				
1	14	22744.5	4396.7	3.4477E-01	1.0482E-01	3.3218E 25	3.0079E 25	-8.5769E-04	6.8321E 21				
5	17	22331.2	4478.0	2.4269E-01	3.3547E-03	2.9682E 25	4.3501E 25	-9.2203E-04	6.8357E 21				
2	15	22269.1	4490.5	3.5648E-01	1.2692E-01	2.8021E 25	2.9433E 25	-8.5135E-04	6.8631E 21				
6	18	21888.6	4568.6	2.6763E-01	1.4029E-02	2.7891E 25	3.6839E 25	-9.1601E-04	6.8679E 21				
3	16	21808.1	4585.4	3.4244E-01	9.3371E-02	2.6794E 25	3.5007E 25	-9.8467E-04	6.8743E 21				
0	14	21721.4	4603.8	3.3330E-01	1.6791E-02	3.3244E 25	2.6830E 25	-9.0988E-04	6.8763E 21				
4	17	21362.0	4681.2	2.8734E-01	4.1519E-02	2.3785E 25	2.8840E 25	-9.7887E-04	6.9020E 21				
1	15	21260.4	4703.6	3.1230E-01	8.0344E-03	1.9422E 25	2.0098E 25	-9.0365E-04	6.9196E 21				
5	18	20951.3	4777.5	2.3899E-01	9.0247E-02	1.7433E 25	2.4758E 25	-9.7301E-04	6.9443E 21				
2	16	20813.1	4804.7	3.0470E-01	9.8220E-02	1.4563E 25	2.1601E 25	-9.6105E-04	6.9443E 21				
0	15	20380.1	4906.7	2.6901E-01	5.9642E-03	1.8097E 25	1.8471E 25	-1.0413E-03	6.9511E 21				
4	18	19962.1	5009.5	2.8425E-01	2.7460E-02	1.4762E 25	1.6117E 25	-1.0357E-03	6.9683E 21				
1	16	19804.3	5049.4	2.6713E-01	4.6929E-02	9.4931E 24	1.1933E 25	-1.0297E-03	6.9819E 21				
2	17	19385.1	5158.6	2.2582E-01	6.7058E-02	7.1198E 24	1.0255E 25	-1.0241E-03	6.9922E 21				
3	18	18980.2	5268.6	2.1934E-01	1.5051E-03	7.9109E 24	7.9766E 24	-1.1049E-03	6.9972E 21				
0	16	18781.2	5324.5	1.8176E-01	7.2494E-03	4.6889E 24	4.9675E 24	-1.0995E-03	7.0045E 21				
1	17	18376.4	5441.8	1.2900E-01	1.8290E-02	2.9570E 24	3.5761E 24	-1.0940E-03	7.0091E 21				
2	18	17985.2	5560.1	1.0566E-01	3.2762E-04	1.5208E 24	1.5239E 24	-1.1768E-03	7.0139E 21				
0	17	17353.3	5762.6	5.6019E-02	1.8274E-03	9.1725E 23	9.6099E 23	-1.1717E-03	7.0154E 21				
1	18	16976.4	5890.5	4.0146E-02	5.6258E-05	2.3171E 23	2.3254E 23	-1.2986E-03	7.0173E 21				
0	18	15953.3	6268.3	1.4111E-02					7.0180E 21				

8000 °K										
$V' V''$	$\tilde{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	ϕ_1	$\tilde{\nu}^e, \text{cm}^{-e}$	$\phi_2 \tilde{\nu}^e, \text{cm}^{-e}$	a, cm	$\int \phi \tilde{\nu}^e d\lambda \text{ cm}^{-5}$	
6 16	2474.4	4045.9	4.2445E-01	2.9127E-03	3.6106E 25	9.6772E 25	-4.8264E-04	8.5501E 21		
1 13	24256.6	4122.4	4.5568E-01	1.1042E-01	6.8696E 25	9.2813E 25	-5.5138E-04	8.6128E 21		
4 15	24246.0	4124.4	4.6269E-01	9.5075E-03	9.2070E 25	9.4001E 25	-5.1101E-04	8.6145E 21		
5 14	23759.2	4208.9	3.8750E-01	2.7852E-02	6.4694E 25	6.9725E 25	-5.1071E-04	8.6007E 21		
2 14	23751.2	4210.0	4.9112E-01	1.0482E-01	6.9385E 25	8.0212E 25	-5.4763E-04	8.6814E 21		
6 17	23288.5	4294.0	4.0873E-01	2.3694E-02	6.1424E 25	6.5204E 25	-5.0414E-04	8.7435E 21		
3 15	23264.2	4298.5	4.4737E-01	6.1789E-02	6.3982E 25	7.0924E 25	-5.4381E-04	8.7464E 21		
0 13	23233.5	4304.1	4.6893E-01	2.8689E-02	6.9243E 25	7.3755E 25	-5.8366E-04	8.7504E 21		
4 14	22790.0	4387.9	3.7500E-01	3.6716E-03	3.1998E 25	5.2540E 25	-5.1994E-04	8.6038E 21		
1 14	22744.5	4398.7	4.4647E-01	6.0359E-02	5.0638E 25	6.1808E 25	-5.7800E-04	8.8070E 21		
9 17	22331.2	4478.0	3.6161E-01	3.9408E-03	4.4357E 25	4.4845E 25	-5.3604E-04	8.8498E 21		
2 15	22249.1	4490.5	4.5823E-01	1.0849E-01	4.2654E 25	5.5886E 25	-5.7628E-04	8.8552E 21		
6 18	21888.6	4568.6	3.9056E-01	1.8273E-02	4.0943E 25	4.2953E 25	-5.3210E-04	8.8927E 21		
3 16	21608.1	4585.4	4.6269E-01	8.8599E-02	4.0215E 25	4.9774E 25	-5.7251E-04	8.8997E 21		
0 14	21721.4	4603.8	4.5267E-01	1.1927E-02	4.6354E 25	4.7544E 25	-6.1154E-04	8.9085E 21		
4 17	21362.0	4681.2	4.1525E-01	4.3928E-02	3.5286E 25	3.9451E 25	-5.8887E-04	8.9037E 21		
1 15	21260.4	4703.6	4.3453E-01	4.1945E-02	3.6253E 25	4.0128E 25	-6.1181E-04	8.9488E 21		
5 18	20951.3	4777.5	3.7098E-01	0.4380E-03	3.0405E 25	3.1199E 25	-5.6478E-04	8.9747E 21		
2 16	20813.1	4804.7	4.2444E-01	7.7142E-02	2.8231E 25	3.4552E 25	-6.0813E-04	8.9828E 21		
3 17	20380.1	4908.7	4.2550E-01	9.1674E-02	2.3791E 25	2.7185E 25	-6.0440E-04	9.0121E 21		
0 15	20237.3	4941.4	3.9575E-01	3.8198E-03	2.6923E 25	2.7185E 25	-6.5084E-04	9.0221E 21		
4 18	19962.1	5009.5	4.1912E-01	8.1307E-02	2.1375E 25	2.6920E 25	-6.0004E-04	9.0288E 21		
1 16	19804.3	5049.4	3.9967E-01	1.7219E-02	2.3076E 25	2.4114E 25	-6.4731E-04	9.0484E 21		
2 17	19189.1	5158.6	3.5309E-01	4.0114E-02	1.6608E 25	1.8737E 25	-6.4372E-04	9.0704E 21		
3 18	18980.2	5268.6	3.4199E-01	6.3818E-02	1.3005E 25	1.5699E 25	-6.4007E-04	9.0876E 21		
0 14	18781.2	5324.5	3.0466E-01	1.0332E-03	1.3325E 25	1.3371E 25	-6.9057E-04	9.0958E 21		
1 17	18376.4	5461.8	2.4485E-01	5.5574E-03	9.2072E 24	9.4212E 24	-6.8718E-04	9.1088E 21		
2 18	17985.2	5560.1	2.0909E-01	1.5634E-02	6.5473E 24	7.0755E 24	-6.8372E-04	9.1182E 21		
0 17	17353.3	5762.6	1.4287E-01	2.2491E-04	3.48954E 24	3.9015E 24	-7.1548E-04	9.1289E 21		
1 18	16976.4	5890.5	1.1508E-01	1.4009E-03	2.7212E 24	2.7547E 24	-7.3228E-04	9.1391E 21		
0 18	15953.3	6268.3	6.1890E-02	3.8621E-05	1.0197E 24	1.0203E 24	-7.8664E-04	9.1447E 21		

SPECTRAL DISTRIBUTION FUNCTION AND RELATED PARAMETERS, NO BETA

11,000 °K

V ⁺	V ⁻	$\tilde{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	$\phi_1, \tilde{\nu}, \text{cm}^{-1}$	$\phi_2, \tilde{\nu}, \text{cm}^{-1}$	a, cm	$\int \phi_2 \tilde{\nu}^2 d\lambda \text{ cm}^{-5}$
4	C	51375.2	1766.5	4.4627E-03	4.4627E-03	0.	1.5745E 75	-2.1112E-04	0.
4	0	50410.0	1833.4	3.1850E-03	3.1850E-03	6.1162E 74	1.1544E 76	-3.0908E-04	2.7279E 19
4	1	50436.2	1832.2	2.2477E-02	1.6697E-02	4.1702E 74	1.3761E 76	-7.0002E-04	8.6008E 18
4	1	49844.7	1902.3	2.4457E-02	1.4951E-03	3.5200E 74	3.5200E 76	-2.1771E-04	7.6767E 19
4	1	48551.3	1980.0	3.4677E-02	4.4677E-02	2.1122E 74	6.6666E 76	-1.1477E-04	1.3492E 20
3	0	48604.9	1981.3	3.5276E-02	9.4577E-04	4.1500E 74	4.5777E 76	-1.2573E-04	2.2020E 20
4	2	47651.1	2056.6	4.7461E-02	1.7757E-02	3.7807E 74	5.5737E 76	-1.1766E-04	3.4140E 20
4	1	47472.7	2112.0	5.7003E-02	1.1534E-02	5.6044E 74	6.7741E 76	-2.7442E-04	3.2043E 20
2	C	47471.9	2116.5	5.7123E-02	3.6477E-04	6.4950E 74	6.5147E 76	-1.3621E-04	3.9993E 20
2	2	46645.3	2164.6	7.2112E-02	2.4340E-02	5.4305E 74	7.5454E 76	-2.2116E-04	3.9134E 20
3	1	46500.4	2186.3	7.4227E-02	4.1147E-03	7.7733E 74	8.1972E 76	-1.9707E-04	6.7639E 20
1	G	46403.1	2172.2	7.0176E-02	1.0079E-02	7.0541E 74	7.6467E 76	-1.4917E-04	6.2577E 20
4	3	45930.4	2213.7	8.2427E-02	2.6980E-03	6.1512E 74	8.4141E 76	-1.1820E-04	8.7474E 20
4	2	45924.6	2214.6	8.4637E-02	2.6676E-02	6.1843E 74	6.6127E 76	-2.3066E-04	9.0470E 20
2	1	45594.8	2254.2	9.4947E-02	3.4541E-03	6.7302E 74	8.1117E 76	-2.4187E-04	9.1064E 20
C	C	44640.0	2270.7	9.1734E-02	1.4441E-05	7.7400E 74	1.1733E 76	-1.5544E-04	1.0273E 21
5	1	44672.7	2259.3	9.3704E-02	1.3051E-05	6.4031E 74	7.6670E 76	-1.5777E-04	1.2262E 21
3	2	44724.2	2234.0	1.1376E-01	2.2744E-02	7.4116E 74	9.1217E 76	-2.3464E-04	1.2750E 21
1	1	44582.1	2242.6	1.1107E-01	1.1626E-03	8.1302E 74	8.1302E 76	-2.5417E-04	1.3443E 21
4	4	44019.7	2302.7	1.3126E-01	4.0126E-03	7.1537E 74	7.6447E 76	-2.5467E-04	1.5851E 21
4	3	43904.4	2327.7	1.2742E-01	2.7474E-02	7.1766E 74	9.0417E 76	-2.7147E-04	1.6155E 21
2	2	43747.7	2352.0	1.2414E-01	1.5547E-02	7.4184E 74	9.5646E 76	-2.7147E-04	1.6155E 21
4	1	43604.9	2372.5	1.1707E-01	2.0127E-02	7.4097E 74	9.0915E 76	-2.6921E-04	1.7162E 21
5	4	43081.5	2414.2	1.1897E-01	1.1701E-01	7.7217E 74	7.7217E 76	-1.3670E-04	1.7865E 21
3	3	42992.0	2425.2	1.4700E-01	4.7700E-02	7.1613E 74	7.1613E 76	-2.6664E-04	2.7400E 21
4	2	42794.3	2459.1	1.4700E-01	4.7700E-02	7.1613E 74	7.1613E 76	-2.6664E-04	2.7400E 21
6	5	42784.4	2460.5	1.4870E-01	1.4870E-02	7.7100E 74	7.7100E 76	-1.3777E-04	2.4591E 21
4	4	42712.2	2478.0	1.4672E-01	8.1672E-03	7.1613E 74	7.1613E 76	-2.6664E-04	2.7400E 21
4	1	41727.4	2562.1	1.7000E-01	5.7000E-03	7.7117E 74	7.7117E 76	-1.3777E-04	2.4591E 21
0	2	41715.5	2567.2	1.7117E-01	1.7117E-02	7.7117E 74	7.7117E 76	-1.3777E-04	2.4591E 21
5	1	41317.4	2637.3	1.6670E-01	1.0070E-01	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
5	1	41165.4	2670.1	1.6472E-01	1.6472E-02	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	3	41118.8	2684.9	2.0125E-01	2.0125E-02	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
6	6	40538.3	2844.1	1.6021E-01	3.7611E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
4	3	40304.4	2899.4	1.7707E-01	1.7707E-02	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
2	4	40135.4	2941.0	2.1106E-01	4.9777E-02	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
C	C	38985.7	3078.5	2.1797E-01	2.1797E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	5	39706.0	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	4	39722.0	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
6	7	39736.0	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
2	5	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
3	2	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
3	6	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	5	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	3	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	5	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	3	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	5	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	3	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	5	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	3	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	5	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	3	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	5	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	3	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	5	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	3	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	5	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	3	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	5	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	3	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	5	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	3	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	5	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	3	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	5	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	3	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	5	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	3	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	5	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	3	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	5	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	3	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	5	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	3	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	5	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	3	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	5	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	3	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	5	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	3	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	5	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	3	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	5	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	3	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	5	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	3	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	5	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	3	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	5	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	3	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	5	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	3	39711.2	3145.3	2.3707E-01	6.4404E-03	7.7340E 74	7.7340E 76	-1.3777E-04	2.4591E 21
1	5	39711.							

11,000 °K									
$V' V''$	$\tilde{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	$\phi_1 \tilde{\nu}^6, \text{cm}^{-6}$	$\phi_2 \tilde{\nu}^6, \text{cm}^{-6}$	a, cm	$\int \phi \tilde{\nu}^6 d\lambda \text{ cm}^{-5}$	
6 16	24716.4	4045.9	4.7555E-01	2.9610E-03	1.0775E 26	1.0447E 26	-5.5191E-04	9.2933E 21	
1 13	24746.6	4177.6	4.9742E-01	2.7440E-02	8.7022E 25	1.5171E 26	-7.2017E-04	9.3658E 21	
4 15	24746.0	4174.4	5.0797E-01	8.7949E-03	1.0007E 26	1.0260E 26	-5.7312E-04	2.5676E 21	
5 16	23795.7	4708.9	4.4046E-01	2.7013E-02	7.7055E 25	8.0064E 25	-1.7079E-04	9.4425E 21	
2 14	23751.2	4210.0	5.3734E-01	8.7901E-02	8.1555E 26	2.6161E 25	-1.7895E-04	9.4434E 21	
6 17	23249.2	4244.0	4.7533E-01	2.4077E-02	7.1736E 26	7.5190E 25	-1.6812E-04	9.5136E 21	
3 15	23484.7	4290.5	5.0771E-01	7.9577E-02	7.4647E 25	8.0064E 25	-3.9545E-04	9.5136E 21	
0 13	23233.5	4306.1	5.2570E-01	2.1784E-02	7.1256E 27	8.7901E 25	-4.2448E-04	9.5215E 21	
4 16	22794.0	4377.2	4.8663E-01	3.5109E-03	8.7230E 25	9.0057E 25	-3.9270E-04	9.5810E 21	
1 14	22764.5	4386.7	5.0524E-01	7.4271E-02	6.1056E 26	6.5244E 25	-2.2172E-04	9.5872E 21	
5 17	21331.2	4478.0	4.3646E-01	5.8224E-03	5.1550E 25	5.4006E 25	-1.8786E-04	9.5971E 21	
7 15	21269.1	4500.5	5.1436E-01	7.1075E-02	5.1550E 25	6.7177E 25	-4.1911E-04	9.6437E 21	
6 18	21269.6	4500.6	4.4551E-01	1.8576E-02	4.4024E 25	5.1067E 25	-4.8678E-04	9.6722E 21	
3 16	21291.1	4515.4	5.2523E-01	7.6373E-02	4.4024E 25	5.4007E 25	-4.1577E-04	9.6955E 21	
C 14	21121.4	4603.6	5.1733E-01	8.7874E-03	8.1631E 25	5.4007E 25	-4.1577E-04	9.7057E 21	
4 17	21362.0	4671.2	4.4717E-01	4.0611E-02	4.7863E 25	4.6125E 25	-4.1556E-04	9.7472E 21	
1 15	21205.6	4707.6	5.0600E-01	3.3577E-02	4.4532E 25	4.6742E 25	-1.6650E-04	9.7537E 21	
5 18	20931.3	4777.5	4.6373E-01	4.1549E-03	3.7356E 25	3.6713E 25	-4.1775E-04	9.7847E 21	
2 16	20813.1	4804.7	4.9727E-01	6.4777E-02	5.1550E 25	4.0617E 25	-4.4274E-04	9.7942E 21	
7 17	20780.1	4817.2	5.0011E-01	7.2907E-02	2.7032E 25	3.5435E 25	-4.3957E-04	9.8248E 21	
C 15	20237.4	4951.4	4.7461E-01	2.7076E-03	3.7356E 25	3.7707E 25	-4.7344E-04	9.8416E 21	
4 18	19667.1	5077.5	4.9703E-01	7.8272E-04	2.7076E 25	2.7076E 25	-4.7344E-04	9.8416E 21	
1 16	19406.3	5100.4	4.8124E-01	1.3760E-02	2.7076E 25	2.9076E 25	-4.7344E-04	9.8737E 21	
7 17	19385.1	5113.6	4.3472E-01	3.3670E-02	2.7076E 25	2.7076E 25	-4.7344E-04	9.9010E 21	
3 18	18940.2	5264.6	4.2670E-01	9.6285E-02	1.3760E 25	1.7271E 25	-1.0274E-04	9.9336E 21	
C 16	18741.2	5376.5	3.7507E-01	4.4601E-03	1.3760E 25	1.2777E 25	-1.0274E-04	9.9910E 21	
1 17	18376.4	5441.8	2.4506E-01	4.4601E-03	1.3760E 25	1.2777E 25	-1.0274E-04	9.9910E 21	
2 18	17959.2	5556.1	2.3750E-01	1.1125E-03	4.4601E 25	4.4601E 25	-1.0274E-04	9.9910E 21	
C 17	17393.3	5772.6	2.3750E-01	1.7067E-03	4.4601E 25	4.4601E 25	-1.0274E-04	9.9910E 21	
1 18	16976.4	5877.5	1.3507E-01	1.1192E-02	4.4601E 25	4.4601E 25	-1.0274E-04	9.9910E 21	
0 18	15913.3	6277.3	1.2635E-01	2.7347E-03	2.7347E 25	2.7347E 25	-1.0274E-04	1.0014E 22	

NO GAMMA

N1/N2	0	1	2	3	4	5	6	7	8	9
0	1.6530E-01	2.6360E-01	2.3770E-01	1.6060E-01	9.0800E-02	4.5600E-02	2.1100E-02	9.2000E-03	3.9000E-03	1.5000E-03
1	3.2910E-01	1.0500E-01	8.0000E-04	7.2100E-02	1.3490E-01	1.3400E-01	9.8700E-02	6.3930E-02	3.5430E-02	1.5400E-02
2	2.9060E-01	1.4600E-02	1.5450E-01	7.5300E-02	6.0000E-04	3.4200E-02	8.8400E-02	1.3570E-01	9.0000E-02	5.3000E-02
3	1.5040E-01	1.9040E-01	5.0000E-02	3.0900E-02	2.9500E-02	0.	0.	0.	0.	0.
4	5.0800E-02	2.3700E-01	3.6600E-02	1.5260E-01	0.	0.	0.	0.	0.	0.
5	1.1600E-02	1.5880E-01	1.0770E-01	0.	0.	0.	0.	0.	0.	0.
6	3.2000E-03	3.5200E-02	0.	0.	0.	0.	0.	0.	0.	0.
	1.0010E 00	1.0046E 00	5.8730E-01	4.9150E-01	2.5580E-01	2.1380E-01	2.3820E-01	1.7580E-01	1.2730E-01	8.1500E-02

N1/N2	10	11	12	13	14	15				
0	6.0000E-04	2.0000E-04	1.0000E-04	0.	0.	0.	1.0003E 00			
1	8.1000E-03	3.7000E-03	1.7000E-03	7.0000E-04	3.0000E-04	1.0000E-04	1.0004E 00			
2	3.8800E-02	2.1800E-02	1.1500E-02	5.8000E-03	2.7000E-03	9.0000E-04	9.9840E-01			
3	0.	0.	0.	0.	0.	0.	4.5120E-01			
4	0.	0.	0.	0.	0.	0.	4.7700E-01			
5	0.	0.	0.	0.	0.	0.	2.7810E-01			
6	0.	0.	0.	0.	0.	0.	3.8400E-02			
	4.7500E-02	2.5700E-02	1.3300E-02	6.5000E-03	3.0000E-03	1.0000E-03				

NO OGAWA									
N1/N2	0	1	2	3	4	5	6	7	
0	2.9830E-01	2.9980E-01	1.9560E-01	1.0460E-01	5.3200E-02	2.5400E-02	1.1700E-02	4.9000E-03	9.9550E-01
1	4.2460E-01	1.1600E-02	5.7700E-02	1.3360E-01	1.3330E-01	9.7400E-02	6.1500E-02	4.3700E-02	9.6340E-01
2	2.2010E-01	1.9870E-01	1.3300E-01	3.2000E-03	2.7700E-02	5.8700E-02	1.5600E-02	0.	6.5700E-01
3	5.1400E-02	3.3100E-01	2.8500E-02	1.5760E-01	8.5800E-02	2.0530E-01	0.	0.	8.5960E-01
4	5.4000E-03	1.3700E-01	3.1040E-01	1.0000E-04	3.2530E-01	0.	0.	0.	7.7820E-01
5	2.0000E-04	2.0200E-02	2.4420E-01	9.2800E-02	4.7900E-02	0.	0.	0.	4.0530E-01
6	0.	1.2000E-03	1.2000E-02	0.	0.	0.	0.	0.	1.3200E-02
10.0000E-01	9.9950E-01	9.8140E-01	4.9390E-01	6.7320E-01	3.8680E-01	8.8800E-02	4.3500E-02		

.....SPECTRAL DISTRIBUTION FUNCTION AND RELATED PARAMETERS, NO OGAWA

		8000 °K									
V' V"	$\tilde{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	$\phi_1 \tilde{\nu}^5, \text{cm}^{-6}$	$\phi_2 \tilde{\nu}^6, \text{cm}^{-6}$	a, cm	$f\phi \tilde{\nu}^6 d\lambda, \text{cm}^{-5}$			
0 7	5097.8	17916.3	2.526E-03	2.526E-03	5.013E 19	4.433E 19	7.455E-04	0.	1.432E 15	1.432E 15	1.432E 15
0 6	5937.6	16841.8	7.872E-03	4.622E-03	3.665E 20	3.449E 20	7.222E-04	1.519E 21	7.834E 19	4.329E 19	4.329E 19
1 7	6236.2	16007.7	2.975E-02	1.954E-02	1.644E 21	3.164E 21	8.448E-04	6.352E 20	4.364E 19	2.536E 19	2.536E 19
0 5	6803.0	14499.4	3.192E-02	1.537E-02	3.210E 21	6.907E 21	8.352E-04	6.980E 21	8.254E 19	8.051E 19	8.051E 19
1 6	7079.0	14126.3	5.537E-02	2.986E-02	4.980E 21	6.980E 21	9.044E-04	1.223E 17	8.739E 17	8.739E 17	8.739E 17
2 7	7354.0	13598.0	4.413E-02	0.	1.385E 22	2.681E 22	8.740E-04	1.779E 17	4.408E 17	4.408E 17	4.408E 17
0 4	7694.0	12997.1	6.841E-02	3.507E-02	6.916E 21	1.419E 22	9.044E-04	1.223E 17	8.739E 17	8.739E 17	8.739E 17
1 5	7944.4	12587.5	1.066E-01	5.156E-02	1.385E 22	2.681E 22	8.740E-04	1.779E 17	4.408E 17	4.408E 17	4.408E 17
2 6	8193.8	12204.3	6.231E-02	6.641E-03	2.592E 22	2.793E 22	8.841E-04	2.808E 17	6.059E 17	6.059E 17	6.059E 17
3 7	8442.2	11845.3	7.420E-02	0.	2.688E 22	2.688E 22	8.739E-04	3.793E 17	8.739E 17	8.739E 17	8.739E 17
0 3	8610.6	11613.6	1.409E-01	7.692E-02	2.608E 22	2.608E 22	8.739E-04	3.793E 17	8.739E 17	8.739E 17	8.739E 17
1 4	8835.4	11318.1	1.916E-01	7.729E-02	5.419E 22	9.116E 22	9.116E-04	9.116E 17	9.116E 17	9.116E 17	9.116E 17
2 5	9259.2	11038.5	1.826E-01	2.747E-02	0.	9.466E 22	9.466E 22	9.466E 17	9.466E 17	9.466E 17	9.466E 17
3 6	9282.0	10773.5	1.800E-01	0.	9.466E 22	9.466E 22	9.466E 22	9.466E 17	9.466E 17	9.466E 17	9.466E 17
4 7	9503.8	10522.1	1.201E-01	2.747E-02	0.	8.847E 22	8.847E 22	9.300E 17	1.345E 18	1.345E 18	1.345E 18
0 2	9552.8	10468.1	2.700E-01	1.554E-01	8.713E 22	2.052E 23	1.053E-03	1.390E 18	1.390E 18	1.390E 18	1.390E 18
1 3	9752.0	10254.3	3.063E-01	8.532E-02	1.901E 23	2.835E 23	1.042E-03	1.813E 18	1.813E 18	1.813E 18	1.813E 18
2 4	9950.2	10050.0	2.448E-01	1.429E-02	2.431E 23	2.548E 23	1.031E-03	2.330E 18	2.330E 18	2.330E 18	2.330E 18
3 5	10147.4	9850.7	3.026E-01	8.590E-02	2.364E 23	3.304E 23	1.019E-03	2.812E 18	2.812E 18	2.812E 18	2.812E 18
4 6	10343.6	9647.8	2.479E-01	0.	3.036E 23	3.036E 23	1.008E-03	3.408E 18	3.408E 18	3.408E 18	3.408E 18
0 1	10520.6	9505.2	4.709E-01	2.638E-01	2.364E 23	3.304E 23	1.019E-03	2.812E 18	2.812E 18	2.812E 18	2.812E 18
1 2	10694.2	9448.7	4.617E-01	0.	4.085E-02	5.031E 23	6.442E 23	1.135E-03	4.622E 18	4.622E 18	4.622E 18
2 3	10866.8	9202.3	3.585E-01	1.831E-03	5.873E 23	6.903E 23	1.124E-03	5.736E 18	5.736E 18	5.736E 18	5.736E 18
3 4	11038.4	9029.3	3.371E-01	3.985E-02	5.377E 23	6.098E 23	1.112E-03	6.543E 18	6.543E 18	6.543E 18	6.543E 18
4 5	11209.0	8921.4	2.797E-01	0.	5.548E 23	5.548E 23	1.099E-03	7.345E 18	7.345E 18	7.345E 18	7.345E 18
5 6	11378.6	8788.4	2.524E-01	0.	5.044E 23	5.044E 23	1.087E-03	8.045E 18	8.045E 18	8.045E 18	8.045E 18
6 7	11548.2	8660.1	4.936E-01	2.931E-01	4.671E 23	1.152E 24	1.260E-03	8.531E 18	8.531E 18	8.531E 18	8.531E 18
7 8	11717.8	8547.9	4.230E-01	0.	4.176E-03	1.041E 24	1.125E 24	1.075E-03	8.839E 18	8.839E 18	8.839E 18
8 9	11887.4	8440.1	4.409E-01	8.509E-02	9.629E 23	1.194E 24	1.235E-03	1.084E 19	1.084E 19	1.084E 19	1.084E 19
9 10	12057.0	8344.7	4.514E-01	8.191E-02	1.072E 24	1.318E 24	1.222E-03	1.207E 19	1.207E 19	1.207E 19	1.207E 19
10 11	12226.6	8249.5	5.172E-01	1.380E-01	1.190E 24	1.623E 24	1.282E-03	1.321E 19	1.321E 19	1.321E 19	1.321E 19
11 12	12396.2	8164.9	6.435E-01	2.391E 24	2.391E 24	4.465E 24	1.197E-03	1.477E 19	1.477E 19	1.477E 19	1.477E 19
12 13	12565.8	8073.0	3.662E-01	0.	1.323E 24	1.323E 24	1.323E-03	1.684E 19	1.684E 19	1.684E 19	1.684E 19
13 14	12735.4	7991.8	6.442E-01	3.789E-01	1.090E 24	2.645E 24	1.384E-03	2.003E 19	2.003E 19	2.003E 19	2.003E 19
14 15	12905.0	7918.7	6.435E-01	1.435E-01	2.391E 24	4.015E 24	1.358E-03	2.213E 19	2.213E 19	2.213E 19	2.213E 19
15 16	13074.6	7848.5	5.194E-01	4.779E-02	2.526E 24	2.526E 24	1.344E-03	2.402E 19	2.402E 19	2.402E 19	2.402E 19
16 17	13244.2	7781.3	6.151E-01	1.885E-02	2.178E 24	1.313E 24	1.313E-03	2.568E 19	2.568E 19	2.568E 19	2.568E 19
17 18	13413.8	7715.6	3.967E-01	0.	2.149E 24	2.149E 24	1.317E-03	2.712E 19	2.712E 19	2.712E 19	2.712E 19
18 19	13583.4	7651.8	3.824E-01	1.816E-01	1.369E 24	2.607E 24	1.541E 24	3.214E 19	3.214E 19	3.214E 19	3.214E 19
19 20	13753.0	7589.0	5.555E-01	2.223E-01	2.374E 24	3.954E 24	1.527E-03	3.313E 19	3.313E 19	3.313E 19	3.313E 19
20 21	13922.6	7527.2	6.356E-01	1.704E-01	3.589E 24	4.853E 24	1.513E-03	3.520E 19	3.520E 19	3.520E 19	3.520E 19
21 22	14092.2	7466.4	6.137E-01	4.185E-02	4.402E 24	4.724E 24	1.499E-03	3.739E 19	3.739E 19	3.739E 19	3.739E 19
22 23	14261.8	7406.6	5.360E-01	0.	4.270E 24	4.270E 24	1.484E-03	3.968E 19	3.968E 19	3.968E 19	3.968E 19
23 24	14431.4	7348.0	4.009E-02	2.270E-01	2.015E 24	2.447E 24	1.744E-03	4.378E 19	4.378E 19	4.378E 19	4.378E 19
24 25	14601.0	7290.2	2.925E-01	8.747E-02	2.268E 24	3.236E 24	1.730E-03	5.051E 19	5.051E 19	5.051E 19	5.051E 19
25 26	14770.6	7233.4	3.913E-01	1.282E-01	2.990E 24	4.190E 24	1.715E-03	5.145E 19	5.145E 19	5.145E 19	5.145E 19
26 27	14940.2	7177.6	3.515E-01	0.	4.101E 24	4.101E 24	1.700E-03	5.270E 19	5.270E 19	5.270E 19	5.270E 19
27 28	15110.0	7122.8	9.188E-02	4.092E-03	1.429E 24	1.496E 24	2.020E-03	6.189E 19	6.189E 19	6.189E 19	6.189E 19
28 29	15280.0	7069.0	9.850E-02	1.260E-02	1.420E 24	1.429E 24	2.005E-03	6.211E 19	6.211E 19	6.211E 19	6.211E 19
29 30	15450.0	7016.6	6.195E-02	6.195E-03	1.450E 24	1.450E 24	1.990E-03	6.428E 19	6.428E 19	6.428E 19	6.428E 19
30 31	15620.0	6965.0	1.991E-02	1.526E-04	4.694E 23	4.730E 23	2.412E-03	6.974E 19	6.974E 19	6.974E 19	6.974E 19
31 32	15790.0	6914.4	2.018E-02	7.592E-04	4.638E 23	4.620E 23	2.398E-03	6.575E 19	6.575E 19	6.575E 19	6.575E 19
32 33	15960.0	6864.8	3.198E-03	0.	1.075E 23	1.075E 23	3.017E-03	6.688E 19	6.688E 19	6.688E 19	6.688E 19

.....SPECTRAL DISTRIBUTION FUNCTION AND RELATED PARAMETERS, NO OGAWA

11,000 °K											
V' V''	$\tilde{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	$\phi_1 \tilde{\nu}^5, \text{cm}^{-6}$	$\phi_2 \tilde{\nu}^6, \text{cm}^{-6}$	a, cm	$f\phi \tilde{\nu}^6 d\lambda, \text{cm}^{-5}$			
0 7	5097.8	17916.3	1.011E-03	1.011E-03	5.013E 19	4.433E 19	7.455E-04	0.	1.432E 15	1.432E 15	1.432E 15
0 6	5937.6	16841.8	2.975E-02	1.954E-02	3.665E 20	3.449E 20	7.222E-04	1.519E 21	7.834E 19	4.329E 19	4.329E 19
1 7	6236.2	16007.7	2.975E-02	1.954E-02	3.665E 20	3.449E 20	7.222E-04	1.519E 21	7.834E 19	4.329E 19	4.329E 19
0 5	6803.0	14499.4	3.192E-02	1.537E-02	3.210E 21	6.907E 21	8.352E-04	6.980E 21	8.254E 19	8.051E 19	8.051E 19
1 6	7079.0	14126.3	5.537E-02	2.986E-02	4.980E 21	6.980E 21	9.044E-04	1.223E 17	8.739E 17	8.739E 17	8.739E 17
2 7	7354.0	13598.0	4.413E-02	0.	1.385E 22	2.681E 22	8.740E-04	1.779E 17	4.408E 17	4.408E 17	4.408E 17
0 4	7694.0	12997.1	6.841E-02	3.507E-02	6.916E 21	1.419E 22	9.044E-04	1.223E 17	8.739E 17	8.739E 17	8.739E 17
1 5	7944.4	12587.5	1.066E-01	5.156E-02	1.385E 22	2.681E 22	8.740E-04	1.779E 17	4.408E 17	4.408E 17	4.408E 17
2 6	8193.8	12204.3	6.231E-02	6.641E-03	2.592E 22	2.793E 22	8.841E-04	2.808E 17	6.059E 17	6.059E 17	6.059E 17
3 7	8442.2	11845.3	7.420E-02	0.	2.688E 22	2.688E 22	8.739E-04	3.793E 17	8.739E 17	8.739E 17	8.739E 17
0 3	8610.6	11613.6	1.409E-01	7.692E-02	2.608E 22	2.608E 22	8.739E-04	3.793E 17	8.739E 17	8.739E 17	8.739E 17
1 4	8835.4	11318.1	1.916E-01	7.729E-02	5.419E 22	9.116E 22	9.116E-04	9.116E 17	9.116E 17	9.116E 17	9.116E 17
2 5	9259.2	11038.5	1.826E-01	2.747E-02	0.	9.466E 22	9.466E 22	9.466E 17	9.466E 17	9.466E 17	9.466E 17
3 6	9282.0	10773.5	1.800E-01	0.	9.466E 22	9.466E 22	9.466E 22	9.466E 17	9.466E 17	9.466E 17	9.466E 17
4 7	9503.8	10522.1	1.201E-01	2.747E-02	0.	8.847E 22	8.847E 22	9.300E 17	1.345E 18	1.345E 18	1.345E 18
0 2	9552.8	10468.1	2.700E-01	1.554E-01	8.713E 22	2.052E 23	1.053E-03	1.390E 18	1.390E 18	1.390E 18	1.390E 18
1 3	9752.0	10254.3	3.063E-01	8.532E-02	1.901E 23	2.835E 23	1.042E-03	1.813E 18	1.813E 18	1.813E 18	1.813E 18
2 4	9950.2	10050.0	2.448E-01	1.429E-02	2.431E 23	2.548E 23	1.031E-03	2.330E 18	2.330E 18	2.330E 18	2.330E 18
3 5	10147.4	9850.7	3.026E-01	8.590E-02	2.364E 23	3.304E 23	1.019E-03	2.812E 18	2.812E 18	2.812E 18	2.812E 18
4 6	10343.6	9656.2	3.592E-01	5.156E-02	2.608E 23	3.608E 23	1.007E-03	3.300E 18	3.300E 18	3.300E 18	3.300E 18
5 7	10540.0	9463.8	4.169E-01	3.507E-02	2.835E 23	3.835E 23	9.958E-04	3.793E 18	3.793E 18	3.793E 18	3.793E 18
0 1	10736.2	9272.4	4.746E-01	1.954E-02	3.063E 23	4.063E 23	9.857E-04	4.286E 18	4.286E 18	4.286E 18	4.286E 18
1 2	10932.4	9080.0	5.323E-01	0.	3.290E 23	4.290E 23	9.756E-04	4.779E 18	4.779E 18	4.779E 18	4.779E 18
2 3	11128.6	8887.6	5.900E-01	0.	3.517E 23	4.517E 23	9.655E-04	5.271E 18	5.271E 18	5.271E 18	5.271E 18
3 4	11324.8	8695.2	6.477E-01	0.	3.744E 23	4.744E 23	9.534E-04	5.764E 18	5.764E 18	5.764E 18	5.764E 18
4 5	11521.0	8502.8	7.054E-01	0.	3.971E 23	4.971E 23	9.413E-04	6.257E 18	6.257E 18	6.257E 18	6.257E 18
5 6	11717.2	8310.4	7.631E-01	0.	4.198E 23	5.198E 23	9.292E-04	6.750E 18	6.750E 18	6.750E 18	6.750E 18
6 7	11913.4	8118.0	8.208E-01	0.	4.425E 23	5.425E 23	9.171E-04	7.243E 18	7.243E 18	7.243E 18	7.243E 18
0 0	12109.6	7925.6	8.785E-01	0.	4.652E 23	5.652E 23	9.050E-04	7.736E 18	7.736E 18	7.736E 18	7.736E 18
1 1	12305.8	7733.2	9.362E-01	0.	4.879E 23	5.879E 23	8.929E-04	8.229E 18	8.229E 18	8.229E 18	8.229E 18
2 2	12502.0	7540.8	9.939E-01	0.	5.106E 23	6.106E 23	8.808E-04	8.722E 18	8.722E 18	8.722E 18	8.722E 18
3 3	12698.2	7348.4	1.0516E-00	0.	5.333E 23	6.333E 23	8.687E-04	9.215E 18	9.215E 18	9.215E 18	9.215E 18
4 4	12894.4	7156.0	1.1093E-00	0.	5.560E 23	6.560E 23	8.566E-04	9.708E 18	9.708E 18	9.708E 18	9.708E 18
5 5	13090.6	6963.6	1.1670E-00	0.	5.787E 23	6.787E 23	8.445E-04	1.020E 19	1.020E 19	1.020E 19	1.020E 19
6 6	13286.8	6771.2	1.2247E-00	0.	6.014E 23	7.014E 23	8.324E-04	1.069E 19	1.069E 19	1.069E 19	1.069E 19
7 7	13483.0	6578.8	1.2824E-00	0.	6.241E 23	7.241E 23	8.203E-04	1.118E 19	1.118E 19	1.118E 19	1.118E 19
0 0	13679.2	6386.4	1.3401E-00	0.	6.468E 23	7.468E 23	8.082E-04	1.167E 19	1.167E 19	1.167E 19	1.167E 19
1 1	13875.4	6194.0	1.3978E-00	0.	6.695E 23	7.695E 23	7.961E-04	1.216E 19	1.216E 19	1.216E 19	1.216E 19
2 2	14071.6	6001.6	1.4555E-00	0.	6.922E 23	7.922E 23	7.840E-04	1.265E 19	1.265E 19	1.265E 19	1.265E 19
3 3	14267.8	5809.2	1.5132E-00	0.	7.149E 23	8.149E 23	7.719E-04	1.314E 19	1.314E 19	1.314E 19	1.314E 19
4 4	14464.0	5616.8	1.5709E-00	0.	7.376E 23	8.376E 23	7.598E-04	1.363E 19	1.363E 19	1.363E 19	1.363E 19
5 5	14660.2	5424.4	1.6286E-00	0.	7.603E 23	8.603E 23	7.477E-04	1.412E 19	1.412E 19	1.412E 19	1.412E 19
6 6	14856.4	5232.0	1.6863E-00	0.	7.830E 23	8.830E 23	7.356E-04	1.461E 19	1.461E 19	1.461E 19	1.461E 19
7 7	15052.6	5039.6	1.7440E-00	0.	8.057E 23	9.057E 23	7.235E-04	1.510E 19	1.510E 19	1.510E 19	1.510E 19
0 0	15248.8	4847.2	1.8017E-00	0.	8.284E 23	9.284E 23	7.114E-04	1.559E 19	1.559E 19	1.559E 19	1.559E 19
1 1	15445.0	4654.8	1.8594E-00	0.	8.511E 23	9.511E 23	6.993E-04	1.608E 19	1.608E 19	1.608E 19	1.608E 19
2 2	15641.2	4462.4	1.9171E-00	0.	8.738E 23	9.738E 23	6.872E-04	1.657E 19	1.657E 19	1.657E 19	1.657E 19
3 3	15837.4	4270.0	1.9748E-00	0.	8.965E 23	9.965E 23	6.751E-04	1.706E 19	1.706E 19	1.706E 19	1.706E 19
4 4	16033.6	4077.6	2.0325E-00	0.	9.192E 23	10.192E 23	6.630E-04	1.755E 19	1.755E 19	1.755E 19	1.755E 19
5 5	16229.8	3885.2	2.0902E-00	0.	9.419E 23	10.419E 23	6.509E-04	1.804E 19	1.804E 19	1.804E 19	1.804E 19
6 6	16426.0	3692.8	2.1479E-00	0.	9.646E 23	10.646E 23	6.388E-04	1.853E 19	1.853E 19	1.853E 19	1.853E 19
7 7	16622.2	3500.4	2.2056E-00	0.	9.873E 23	10.873E 23	6.267E-04	1.902E 19	1.902E 19	1.902E 19	1.902E 19
0 0	16818.4	3308.0	2.2633E-00	0.	1.0100E 24	11.010E 24	6.146E-04	1.951E 19	1.951E 19	1.951E 19	1.951E 19
1 1	17014.6	3115.6	2.3210E-00	0.	1.0327E 24	11.232E 24	6.025E-04	2.000E 19	2.000E 19	2.000E 19	2.000E 19
2 2	17210.8	2923.2	2.3787E-00	0.	1.0554E 24	11.455E 24	5.904E-04	2.049E 19	2.049E 19	2.049E 19	2.049E 19
3 3	17407.0	2730.8	2.4364E-00	0.	1.0781E 24	11.678E 24	5.783E-04	2.098E 19	2.098E 19	2.098E 19	2.098E 19
4 4	17603.2	2538.4	2.4941E-00	0.	1.1008E 24	11.898E 24	5.662E-04	2.147E 19	2.147E 19	2.147E 19	2.147E 19
5 5	17799.4	2346.0	2.5518E-00	0.	1.1235E 24	12.118E 24	5.541E-04	2.196E 19	2.196E 19	2.196E 19	2.196E 19
6 6	17995.6	2153.6	2.6095E-00	0.	1.1462E 24	12.338E 24	5.420E-04	2.245E 19	2.245E 19	2.245E 19	2.245E 19
7 7	18191.8	1961.2	2.6672E-00	0.	1.1689E 24	12.558E 24	5.299E-04	2.294E 19	2.294E 19	2.294E 19	2.294E 19
0 0	18388.0	1768.8	2.7249E-00	0.	1.1916E 24	12.778E 24	5.178E-04	2.343E 19	2.343E 19	2.343E 19	2.343E 19
1 1	18584.2	1576.4	2.7826E-00	0.	1.2143E 24	12.998E 24	5.057E-04	2.392E 19	2.392E 19	2.392E 19	2.392E 19
2 2	18780.4	1384.0	2.8403E-00	0.	1.2370E 24	13.218E 24	4.936E-04	2.441E 19	2.441E 19	2.441E 19	2.441E 19
3 3	18976.6	1191.6	2.8980E-00	0.	1.2597E 24	13.438E 24	4.815E-04	2.490E 19	2.490E 19	2.490E 19	2.490E 19
4 4	19172.8	1000.0	2.9557E-00	0.	1.2824E 24	13.658E 24	4.694E-04	2.539E 19	2.539E 19	2.539E 19	2.539E 19
5 5	19369.0	808.0	3.0134E-00	0.	1.3051E 24	13.878E 24	4.573E-04	2.588E 19	2.588E 19	2.588E 19	2.588E 19
6 6	19565.2	616.0	3.0711E-00	0.	1.3278E 24	14.098E 24	4.452E-04	2.637E 19	2.637E 19	2.637E 19	2.637E 19
7 7	19761.4	424.0	3.1288E-00	0.	1.3505E 24	14.318E 24	4.331E-04	2.686E 19	2.686E 19	2.686E 19	2.686E 19
0 0	19957.6	232.0	3.1865E-00	0.	1.3732E 24	14.538E 24	4.210E-04	2.735E 19	2.735E 19	2.735E 19	2.735E 19
1 1	20153.8	40.0	3.2442E-00	0.	1.3959E 24	14.758E 24	4.089E-04	2.784E 19	2.784E 19	2.784E 19	2.784E 19

O ₂ SCHUMANN - RUNGE										
N1/N2	0	1	2	3	4	5	6	7	8	9
0	3.3636E-09	9.7126E-08	1.3505E-06	1.2033E-05	7.7140E-05	3.7873E-04	1.4800E-03	4.7231E-03	1.2534E-02	2.9320E-02
1	3.9676E-08	1.0381E-06	1.2945E-05	1.0219E-04	5.7192E-04	2.4074E-03	7.8855E-03	2.0493E-02	4.2522E-02	7.3841E-02
2	2.4404E-07	5.7887E-06	6.4721E-05	4.5196E-04	2.2003E-03	7.8859E-03	2.1377E-02	4.4199E-02	6.6987E-02	7.6135E-02
3	1.0427E-06	2.2432E-05	2.2478E-04	1.3859E-03	5.8435E-03	1.7673E-02	3.8964E-02	6.1890E-02	6.7153E-02	4.2559E-02
4	3.4788E-06	6.7902E-05	6.0943E-04	3.3101E-03	1.2022E-02	3.0330E-02	5.3060E-02	6.1176E-02	3.3368E-02	5.5728E-03
5	9.6580E-06	1.7110E-04	1.3745E-03	6.5583E-03	2.0379E-02	4.2238E-02	5.5541E-02	4.2579E-02	1.3217E-02	2.4354E-03
6	2.3224E-05	3.7355E-04	2.6835E-03	1.1212E-02	2.9558E-02	4.9298E-02	4.7668E-02	1.3745E-02	2.4519E-03	2.3252E-02
7	4.9711E-05	7.2621E-04	4.6605E-03	1.6983E-02	3.7589E-02	4.9002E-02	3.0940E-02	2.8849E-03	8.9575E-03	3.3205E-02
8	9.6625E-05	1.2824E-03	7.3428E-03	2.3230E-02	4.2587E-02	4.1577E-02	1.3901E-02	7.4736E-04	2.3072E-02	2.4435E-02
9	1.7312E-04	2.0880E-03	1.0652E-02	2.9097E-02	4.3413E-02	2.9670E-02	2.8284E-03	8.7895E-03	2.9306E-02	1.3134E-02
10	2.8930E-04	3.1716E-03	1.4394E-02	3.3722E-02	4.0000E-02	1.7010E-02	9.6842E-05	1.9335E-02	2.4329E-02	1.7349E-03
11	4.5511E-04	4.5367E-03	1.8283E-02	3.6448E-02	3.3747E-02	6.8469E-03	4.1499E-03	2.4809E-02	1.3329E-02	4.7558E-04
12	6.7919E-04	6.1581E-03	2.1993E-02	3.6947E-02	2.4773E-02	1.1989E-03	1.1258E-02	2.3748E-02	3.7107E-03	9.2403E-03
13	9.6700E-04	7.9824E-03	2.5206E-02	3.5264E-02	1.6158E-02	1.2058E-04	1.7641E-02	1.7500E-02	1.4795E-03	1.5820E-02
14	1.3229E-03	9.9340E-03	2.7664E-02	3.1758E-02	8.8051E-03	2.5852E-03	2.0894E-02	4.5999E-03	2.2594E-03	1.3493E-02
15	1.7436E-03	1.1923E-02	2.9149E-02	2.6995E-02	3.5617E-03	6.2014E-03	2.0397E-02	3.2778E-03	7.0300E-03	1.5489E-02
16	2.2239E-03	1.3854E-02	2.9744E-02	2.1615E-02	7.0127E-04	1.1398E-02	1.6938E-02	2.1993E-04	1.2745E-02	1.3572E-02
17	2.7538E-03	1.5639E-02	2.9329E-02	1.6222E-02	1.8546E-05	1.4844E-02	1.1986E-02	5.3376E-04	1.3365E-02	4.5322E-03
18	3.3202E-03	1.7199E-02	2.8667E-02	1.1299E-02	1.0010E-03	1.6607E-02	7.0243E-03	3.9986E-03	1.4912E-02	3.5457E-03
19	3.9072E-03	1.8475E-02	2.6120E-02	7.1750E-03	3.0097E-03	1.6607E-02	3.1183E-03	6.4945E-03	1.2348E-02	5.3498E-03
20	4.4975E-03	1.9430E-02	2.3682E-02	4.0129E-03	5.4277E-03	1.5152E-02	7.7456E-04	9.5019E-03	8.2155E-03	1.5171E-03
21	5.0733E-03	2.0044E-02	2.0949E-02	1.8359E-03	7.7552E-03	1.2743E-02	2.7666E-04	1.1359E-02	4.4952E-03	4.3237E-03
	2.7591E-02	1.5309E-01	3.2226E-01	3.5564E-01	3.3873E-01	3.9252E-01	3.8893E-01	3.9553E-01	4.2137E-01	4.0758E-01
N1/N2	10	11	12	13	14	15	16	17	18	19
0	5.3261E-02	8.6671E-02	1.2131E-01	1.4648E-01	1.5285E-01	1.3786E-01	1.0739E-01	7.2104E-02	4.1588E-02	2.5512E-02
1	9.2709E-02	9.1951E-02	6.2856E-02	2.1844E-02	1.0257E-04	1.8334E-02	6.7037E-02	1.1371E-01	1.3029E-01	1.1235E-01
2	5.8045E-02	2.0000E-02	7.3533E-07	2.1395E-02	6.0732E-02	6.9594E-02	3.5561E-02	1.2424E-03	1.3355E-02	7.0335E-02
3	8.0346E-03	3.6442E-03	3.5436E-02	5.6165E-02	3.1874E-02	1.1283E-03	1.7764E-02	5.9376E-02	5.1714E-02	1.7724E-02
4	4.8018E-03	3.5497E-02	4.5513E-02	1.5187E-02	1.5192E-03	3.3574E-02	4.9757E-02	1.5873E-02	2.1202E-03	4.1752E-05
5	2.9846E-02	4.0034E-02	1.1488E-02	3.1190E-03	3.4247E-02	3.5100E-02	3.7200E-03	1.3603E-02	4.7615E-02	2.8165E-04
6	3.7544E-02	1.4153E-02	1.5408E-03	2.9194E-02	3.0501E-02	1.6898E-03	1.6769E-02	4.0025E-02	1.1588E-02	5.3958E-03
7	2.0936E-03	3.2905E-07	2.0982E-02	3.0040E-07	3.0113E-03	1.3052E-02	3.4373E-02	8.0048E-03	8.6070E-03	3.8515E-02
8	5.1437E-03	1.0329E-02	2.9746E-02	7.8961E-03	6.2085E-03	3.0316E-02	1.0138E-02	5.7265E-03	3.2829E-02	1.3279E-02
9	1.4009E-03	2.4219E-02	1.6508E-02	5.8090E-04	2.3815E-02	1.6070E-02	1.2937E-03	2.5919E-02	1.3395E-02	3.9858E-03
10	1.1930E-02	2.3860E-02	1.9694E-03	1.2715E-02	2.2468E-02	4.5480E-04	1.7952E-02	1.7016E-02	4.1577E-04	2.3446E-02
11	2.1221E-02	1.2076E-02	1.9041E-03	2.2311E-02	7.2076E-03	6.4555E-03	2.3039E-02	1.4750E-03	1.5844E-02	1.3882E-02
12	2.1145E-02	1.8049E-03	1.1752E-02	1.7579E-02	1.0621E-05	1.8677E-02	9.7814E-03	4.5561E-03	2.2209E-02	1.1390E-01
13	1.3387E-02	7.2694E-04	1.8785E-02	6.1763E-03	6.3663E-03	1.8538E-02	1.5729E-04	1.5968E-02	9.3470E-03	5.3332E-03
14	4.6266E-03	6.8563E-03	1.6846E-02	9.8265E-05	1.5285E-02	8.2706E-03	4.6217E-03	1.7841E-02	7.5768E-03	1.7358E-02
15	2.0345E-04	1.3583E-02	9.1074E-03	2.8375E-03	1.6729E-02	5.8329E-04	1.3659E-02	7.7002E-03	5.1825E-03	1.5218E-02
16	1.2745E-03	1.5971E-02	2.1520E-03	9.5466E-03	1.0663E-02	1.7071E-03	1.5860E-02	4.4515E-04	1.3928E-02	3.5533E-03
17	5.6573E-03	1.3305E-02	2.8063E-05	1.3926E-02	3.3389E-03	7.9905E-03	1.0195E-02	2.0040E-03	1.4795E-02	1.4320E-03
18	1.0193E-02	7.9633E-03	2.5359E-03	1.3277E-02	3.8679E-05	1.2720E-02	3.0445E-03	8.3632E-03	8.2711E-03	3.5259E-03
19	1.2642E-02	2.9867E-03	6.9176E-03	8.9273E-03	1.6452E-03	1.2497E-02	9.4048E-06	1.2473E-02	1.5953E-03	1.3359E-02
20	1.2353E-02	3.1174E-04	1.0322E-02	3.9232E-03	5.7175E-03	8.3954E-03	1.8981E-03	1.1365E-02	1.4158E-04	1.2392E-02
21	9.9517E-03	2.8823E-04	1.1276E-02	6.9827E-04	9.2104E-03	3.5587E-03	5.9906E-03	6.8159E-03	3.1589E-03	9.4255E-03
	4.3411E-01	4.2623E-01	4.3898E-01	4.4392E-01	4.4354E-01	4.5757E-01	4.5001E-01	4.5749E-01	4.5804E-01	4.7551E-01

O₂ SCHUMANN - RUNGE

N1/N2	20	21
0	8.5997E-03	3.0411E-03 9.9889E-01
1	7.5984E-02	4.1375E-02 9.7298E-01
2	1.1824E-01	1.2452E-01 8.1877E-01
3	1.9012E-03	4.6949E-02 5.7542E-01
4	6.4757E-02	2.8002E-02 5.4590E-01
5	1.2399E-05	3.3900E-02 4.6433E-01
6	4.3709E-02	3.1371E-02 4.4407E-01
7	1.4719E-02	4.9956E-03 3.8223E-01
8	6.9141E-03	3.7762E-02 3.7410E-01
9	3.1802E-02	9.4771E-03 3.3862E-01
10	1.2415E-02	5.5010E-03 3.0793E-01
11	7.9941E-04	2.6187E-02 3.0006E-01
12	1.7116E-02	1.4938E-02 2.7923E-01
13	2.0752E-02	1.1138E-04 2.5332E-01
14	6.5714E-03	8.5787E-03 2.4083E-01
15	1.3173E-04	1.8585E-02 2.3284E-01
16	7.7287E-03	1.2930E-02 2.1792E-01
17	1.5060E-02	2.3634E-03 2.0000E-01
18	1.2776E-02	6.6412E-04 1.8687E-01
19	5.0972E-03	6.8776E-03 1.7890E-01
20	2.6001E-04	1.2044E-02 1.7144E-01
21	1.3109E-03	1.1182E-02 1.6146E-01
	4.6666E-01	4.8135E-01

SPECTRAL DISTRIBUTION FUNCTION AND RELATED PARAMETERS, O₂ SCHUMANN-RUNGE

2000°K										
V'	V''	$\bar{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	ϕ_1	$\bar{\nu}, \text{cm}^{-1}$	$\phi_2 \bar{\nu}, \text{cm}^{-1}$	a, cm	$\int \phi_2^2 d\lambda, \text{cm}^{-1}$
18	0	56856.7	1759.8	1.7824E-05	1.7824E-05	0.	6.0213E 23	-5.3854E-04	0.	0.
17	0	56864.4	1759.1	3.8577E-05	2.0852E-05	5.9817E 23	1.3018E 24	-5.2719E-04	1.4052E 19	1.4052E 19
20	0	56869.3	1760.3	5.3329E-05	1.3504E-05	1.2715E 24	1.7924E 24	-5.5560E-04	1.4870E 18	1.4870E 18
16	0	56776.2	1761.3	7.7307E-05	2.4918E-05	1.7549E 24	2.5895E 24	-5.0757E-04	1.4870E 18	1.4870E 18
14	0	56706.5	1765.5	8.8183E-05	1.3667E-05	2.4777E 24	2.9321E 24	-5.7313E-04	8.9771E 16	8.9771E 16
21	0	56645.9	1765.4	1.1580E-04	3.0515E-05	2.8170E 24	3.8250E 24	-4.0003E-04	1.4437E 17	1.4437E 17
15	0	56550.5	1768.3	1.2294E-04	1.2155E-05	3.8099E 24	4.0044E 24	-5.9114E-04	2.5408E 17	2.5408E 17
14	0	56393.6	1774.8	1.2040E-04	1.0853E-05	3.5111E 24	3.8584E 24	-6.0957E-04	4.9770E 17	4.9770E 17
13	0	56088.1	1787.9	1.1484E-04	9.6769E-06	3.2739E 24	3.5752E 24	-6.2877E-04	7.8538E 17	7.8538E 17
12	0	55786.1	1792.4	1.0642E-04	8.5633E-06	2.9375E 24	3.1956E 24	-6.4833E-04	1.0986E 18	1.0986E 18
11	0	55440.1	1803.7	9.5082E-05	7.4689E-06	2.5440E 24	2.7608E 24	-6.6852E-04	1.4182E 18	1.4182E 18
18	1	55300.3	1808.3	1.6103E-04	9.3104E-05	2.5147E 24	5.1775E 24	-5.4409E-04	1.5184E 18	1.5184E 18
19	1	55270.0	1808.6	2.7940E-04	9.7980E-05	5.1494E 24	7.9802E 24	-5.3202E-04	1.5557E 18	1.5557E 18
17	1	55252.9	1809.9	3.6260E-04	8.8807E-05	7.7902E 24	1.0317E 25	-5.4663E-04	1.5912E 18	1.5912E 18
20	1	55219.9	1810.9	4.6454E-04	1.0849E-04	1.0095E 25	1.3170E 25	-5.1540E-04	1.7621E 18	1.7621E 18
14	1	55150.1	1813.2	5.3318E-04	8.5898E-05	1.2585E 25	1.5002E 25	-5.8465E-04	2.0571E 18	2.0571E 18
21	1	55087.5	1815.3	6.3664E-04	1.2148E-04	1.4397E 25	1.7792E 25	-4.7922E-04	2.3597E 18	2.3597E 18
10	0	55052.1	1816.5	6.3094E-04	6.3704E-06	1.7387E 25	1.7564E 25	-6.8932E-04	2.5855E 18	2.5855E 18
18	0	54994.1	1818.4	6.9544E-04	3.1880E-05	1.6915E 25	3.9235E 25	-6.0212E-04	2.8935E 18	2.8935E 18
14	1	54777.2	1825.2	7.0302E-04	8.2272E-05	1.6788E 25	1.9013E 25	-6.2222E-04	4.1300E 18	4.1300E 18
9	0	54624.4	1830.7	6.4736E-04	5.2642E-06	1.7058E 25	1.7197E 25	-7.1074E-04	5.1101E 18	5.1101E 18
17	1	54531.7	1831.8	6.9533E-04	6.9533E-05	1.6193E 25	3.8193E 25	-6.4193E-04	4.1300E 18	4.1300E 18
12	1	54229.8	1844.0	6.6434E-04	7.8427E-05	1.4902E 25	1.6897E 25	-6.6214E-04	7.3173E 18	7.3173E 18
8	0	54159.4	1846.4	6.4204E-04	4.1689E-06	1.6098E 25	1.6223E 25	-7.3283E-04	7.7124E 18	7.7124E 18
18	2	53833.7	1859.9	6.2246E-04	1.3399E-05	1.3399E 25	1.3399E 25	-6.2904E-04	9.0564E 18	9.0564E 18
10	2	53747.4	1859.9	7.1465E-04	1.5325E-04	1.4047E 25	1.7750E 25	-5.6005E-04	9.6730E 18	9.6730E 18
19	2	53737.3	1860.2	8.1717E-04	1.4170E-04	1.7624E 25	2.1044E 25	-5.4250E-04	9.7558E 18	9.7558E 18
14	2	53617.3	1865.1	1.0212E-03	1.8613E-05	2.5529E 25	3.9633E 25	-6.7261E-04	1.7500E 19	1.7500E 19
20	2	53617.1	1862.6	1.1355E-03	1.3330E-04	2.3994E 25	2.7191E 25	-5.2541E-04	1.0301E 19	1.0301E 19
7	0	53659.2	1863.6	1.1207E-03	1.1219E-04	2.6678E 25	2.6759E 25	-7.5561E-04	1.0562E 19	1.0562E 19
18	2	53617.3	1865.1	1.2803E-03	1.8613E-05	2.5529E 25	3.9633E 25	-6.7261E-04	1.7500E 19	1.7500E 19
21	2	53554.8	1867.2	1.3631E-03	1.2796E-04	2.9140E 25	3.2159E 25	-5.0879E-04	1.2194E 19	1.2194E 19
10	1	53495.7	1869.3	1.3886E-03	7.0590E-05	3.0891E 25	3.2545E 25	-7.0447E-04	1.2248E 19	1.2248E 19
14	2	53254.5	1877.8	1.5227E-03	2.3136E-04	3.1787E 25	3.7015E 25	-6.3535E-04	1.5110E 19	1.5110E 19
6	0	53126.2	1882.3	1.5070E-03	2.1743E-06	3.3833E 25	3.3881E 25	-7.7912E-04	1.6716E 19	1.6716E 19
19	2	53088.0	1884.4	1.5260E-03	6.1904E-05	3.2529E 25	3.3653E 25	-7.2661E-04	1.7500E 19	1.7500E 19
13	2	52999.0	1886.8	1.7166E-03	2.5713E-04	3.2345E 25	3.8044E 25	-6.5577E-04	1.8714E 19	1.8714E 19
12	2	52997.0	1887.6	1.7143E-03	2.8302E-04	3.0651E 25	3.6712E 25	-6.7659E-04	2.1912E 19	2.1912E 19
5	0	52902.4	1902.5	1.6341E-03	1.3784E-06	3.4432E 25	3.4451E 25	-8.0339E-04	2.3629E 19	2.3629E 19
11	2	52350.9	1910.2	1.7404E-03	3.0644E-04	2.9518E 25	3.5626E 25	-6.9810E-04	2.6082E 19	2.6082E 19
18	3	52258.1	1913.6	1.7036E-03	6.2244E-05	3.3430E 25	3.4698E 25	-5.7147E-04	2.7250E 19	2.7250E 19
19	3	52247.9	1914.0	1.7320E-03	3.9261E-05	3.4443E 25	3.5233E 25	-6.5360E-04	2.7386E 19	2.7386E 19
17	3	52210.7	1915.3	1.7859E-03	9.3796E-05	3.4275E 25	3.6175E 25	-5.9005E-04	2.7859E 19	2.7859E 19
20	3	52177.7	1916.5	1.7722E-03	2.2777E-05	3.5302E 25	3.5761E 25	-6.1585E-04	2.8239E 19	2.8239E 19
14	3	52107.9	1919.1	1.8332E-03	1.1945E-04	3.3945E 25	3.6698E 25	-6.0919E-04	2.9187E 19	2.9187E 19
7	1	52102.8	1919.3	1.8736E-03	4.6144E-05	3.6561E 25	3.7484E 25	-7.7302E-04	2.9256E 19	2.9256E 19
21	3	52045.4	1921.4	1.8187E-03	1.1305E-05	3.5921E 25	3.6146E 25	-5.1873E-04	3.0034E 19	3.0034E 19
19	3	51974.2	1924.4	1.9742E-03	1.7362E-05	3.7362E 25	3.7362E 25	-6.7362E-04	3.1102E 19	3.1102E 19
10	2	51962.9	1924.4	2.0521E-03	3.2393E-04	3.4021E 25	4.0398E 25	-7.2302E-04	3.1102E 19	3.1102E 19
15	3	51952.0	1924.9	2.2313E-03	1.9360E-04	4.0004E 25	4.1871E 25	-6.2889E-04	3.1266E 19	3.1266E 19
14	3	51723.1	1931.1	2.2233E-03	2.6392E-04	3.6392E 25	4.2392E 25	-6.3923E-04	3.1266E 19	3.1266E 19
6	1	51694.8	1939.1	2.0233E-03	3.3398E-05	3.7391E 25	3.8057E 25	-7.4731E-04	3.7018E 19	3.7018E 19
9	2	51535.3	1940.4	2.3103E-03	3.1235E-04	3.7076E 25	4.3282E 25	-7.4319E-04	3.7050E 19	3.7050E 19
8	2	51070.3	1958.1	2.7461E-03	2.4949E-04	4.2949E 25	4.8722E 25	-7.6883E-04	4.5217E 19	4.5217E 19
3	0	51352.1	1947.3	2.3809E-03	3.4735E-07	4.3653E 25	4.3660E 25	-6.5436E-04	4.0432E 19	4.0432E 19
12	3	51107.6	1953.6	2.6177E-03	4.8059E-04	3.8462E 25	4.7087E 25	-6.9165E-04	4.3198E 19	4.3198E 19
18	4	50771.7	1969.6	2.8992E-03	5.5651E-06	4.8880E 25	4.8976E 25	-5.8355E-04	5.0526E 19	5.0526E 19
5	1	51006.1	1960.6	2.6944E-03	2.4725E-05	4.0305E 25	4.6741E 25	-6.2251E-04	4.6489E 19	4.6489E 19
11	3	50841.5	1966.9	2.9929E-03	6.1772E-04	4.1022E 25	5.1690E 25	-7.1390E-04	4.9169E 19	4.9169E 19
18	4	50771.7	1969.6	2.8992E-03	5.5651E-06	4.8880E 25	4.8976E 25	-5.8355E-04	5.0526E 19	5.0526E 19
19	4	50761.5	1970.0	2.8559E-03	1.6618E-05	4.8575E 25	4.8859E 25	-5.6474E-04	5.0722E 19	5.0722E 19
17	4	50724.3	1971.4	2.7846E-03	1.0825E-07	4.7429E 25	4.7430E 25	-6.0251E-04	5.1416E 19	5.1416E 19
2	0	50710.0	1972.0	2.7576E-03	1.3878E-07	4.6890E 25	4.6892E 25	-6.8115E-04	5.1379E 19	5.1379E 19
20	4	50671.3	1972.7	2.7538E-03	3.1073E-05	4.6196E 25	4.6723E 25	-5.4665E-04	5.2018E 19	5.2018E 19
16	4	50621.5	1975.4	2.6307E-03	4.4733E-06	4.4191E 25	4.4267E 25	-6.2224E-04	5.3253E 19	5.3253E 19
7	2	50570.1	1977.5	2.8401E-03	2.9975E-04	4.2487E 25	4.7500E 25	-7.0125E-04	5.4125E 19	5.4125E 19
21	4	50559.0	1977.9	2.8665E-03	4.8154E-05	4.7074E 25	4.7876E 25	-5.2072E-04	5.4331E 19	5.4331E 19
15	4	50405.5	1981.6	2.7138E-03	2.5803E-05	4.4402E 25	4.4828E 25	-6.4257E-04	5.6019E 19	5.6019E 19
13	4	50433.5	1982.0	3.4591E-03	6.7462E-04	4.4395E 25	5.7057E 25	-7.3884E-04	5.6230E 19	5.6230E 19
14	1	50414.0	1983.6	3.3801E-03	1.5271E-05	5.5241E 25	5.5492E 25	-4.8491E-04	5.7103E 19	5.7103E 19
10	4	50298.7	1989.7	3.1078E-03	7.5144E-05	4.8875E 25	5.0084E 25	-6.4359E-04	6.0297E 19	6.0297E 19
1	0	50046.2	1998.2	2.6802E-03	5.0003E-08	4.2111E 25	4.2111E 25	-0.0087E-04	6.1800E 19	6.1800E 19
6	2	50037.0	1999.5	2.9704E-03	2.5750E-04	4.1798E 25	4.6337E 25	-8.1448E-04	6.4334E 19	6.4334E 19
9	3	50025.9	1999.0	3.6133E-03	9.1559E-04	4.5417E 25	5.9786E 25	-7.6055E-04	6.5537E 19	6.5537E 19
13	4	50003.1	1999.9	3.9197E-03	1.8836E-04	5.8636E 25	6.1258E 25	-6.8512E-04	6.5976E 19	6.5976E 19
5	1	49795.7	2008.4	3.1856E-03	8.0086E-06	5.1494E 25	5.1494E 25	-8.7557E-04	6.9760E 19	6.9760E 19
12	4	49701.2	2012.0	3.4894E-03	3.2583E-04	5.7685E 25	5.2960E 25	-7.0742E-04	7.1655E 19	7.1655E 19
9	3	49660.9	2017.7	4.1942E-03	1.0382E-05	6.6769E 25	6.2156E 25	-7.9204E-04	7.1922E 19	7.1922E 19
5	2	49673.3	2021.3	4.1348E-03	2.0121E-04	5.7670E 25	6.0630E 25	-8.4225E-04	7.2821E 19	7.2821E 19
0	0	49363.1	2025.8	3.8120E-03	5.2183E-09	5.5153E 25	5.5153E 25	-9.3739E-04	7.9231E 19	7.9231E 19
11	4	49355.1	2026.1	4.3600E-03	5.7043E-04	5.4776E 25	6.3021E 25	-7.3043E-04	7.9422E 19	7.9422E 19
18	5	49308.0	2028.1	4.3046E-03	9.3204E-05	6.0248E 25	6.1884E 25	-8.9757E-04	8.0607E 19	8.0607E 19
19	5	49297.7	2028.5	4.3649E-03	9.2527E-05	6.1324E 25				

2000°K									
V'	V"	$\bar{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	$\phi_1, \bar{\nu}, \text{cm}^{-1}$	$\phi_2, \bar{\nu}, \text{cm}^{-1}$	a, cm	$\int \phi \bar{\nu}^6 d\lambda \text{ cm}^{-5}$
5	3	47963.9	2084.9	7.1825E-03	9.7300E-04	7.8404E-05	8.7451E-05	-8.64362E-04	1.1974E 20
11	5	47891.4	2088.1	6.9040E-03	1.1160E-04	8.0130E-05	8.3299E-05	-7.4775E-04	1.2241E 20
18	4	47866.6	2089.1	6.8102E-03	3.9811E-05	8.1441E-05	8.1920E-05	-6.0868E-04	1.2330E 20
19	6	47856.3	2089.6	6.7737E-03	1.7539E-05	8.1159E-05	8.1370E-05	-5.7889E-04	1.2571E 20
17	6	47819.2	2091.2	6.6508E-03	1.1368E-05	7.8668E-05	7.9922E-05	-6.2907E-04	1.2496E 20
20	1	47806.7	2091.8	6.5863E-03	1.5289E-07	7.8626E-05	7.8626E-05	-9.6190E-04	1.2539E 20
16	4	47786.2	2092.7	6.4859E-03	4.5149E-06	7.7175E-05	7.7224E-05	-6.6069E-04	1.2638E 20
21	6	47716.4	2095.7	6.2520E-03	1.1027E-08	6.9734E-05	6.9734E-05	-5.5105E-04	1.3036E 20
14	6	47653.8	2098.5	5.8417E-03	3.7847E-05	6.7086E-05	6.8127E-05	-9.2643E-04	1.3138E 20
2	2	47620.9	2099.9	5.8117E-03	2.4803E-03	6.5314E-05	6.5314E-05	-6.1001E-04	1.3273E 20
7	4	47574.3	2102.0	5.2112E-03	1.0276E-04	6.9794E-05	6.9794E-05	-6.7179E-04	1.3330E 20
15	6	47500.4	2102.6	5.1555E-03	8.9746E-04	6.8262E-05	6.8262E-05	-7.7237E-04	1.3561E 20
10	5	47503.4	2103.1	5.1555E-03	1.8231E-04	6.9272E-05	6.9272E-05	-8.1617E-04	1.4082E 20
4	3	47371.8	2111.0	8.1648E-03	7.6521E-04	7.3263E-05	7.3263E-05	-6.9418E-04	1.4157E 20
14	6	47353.5	2111.8	8.1648E-03	1.8002E-04	7.3263E-05	7.3263E-05	-7.7173E-04	1.5104E 20
13	6	47098.0	2123.7	7.7366E-03	9.5714E-04	7.3787E-05	8.4204E-05	-7.9784E-04	1.5178E 20
9	5	47075.7	2124.2	7.7366E-03	2.9122E-03	8.1550E-05	1.1312E-04	-8.5760E-04	1.5308E 20
6	4	47041.2	2125.8	7.7366E-03	1.0453E-05	1.0453E-05	1.0453E-05	-9.5642E-04	1.5722E 20
12	4	46796.1	2136.9	6.7183E-03	1.1558E-04	8.9964E-05	9.1536E-05	-7.8119E-04	1.6434E 20
3	3	46793.6	2136.9	6.7183E-03	1.0885E-04	8.7978E-05	9.323E-05	-9.2073E-04	1.6608E 20
1	2	46697.1	2139.6	6.9322E-03	1.9057E-03	8.1519E-05	1.0107E-04	-8.2479E-04	1.7110E 20
5	4	46617.5	2151.6	1.1906E-02	3.0657E-03	8.9107E-05	1.2001E-04	-8.8575E-04	1.7764E 20
11	6	46450.0	2152.9	1.1708E-02	7.2883E-05	1.1687E-04	1.1750E-04	-7.6589E-04	1.7915E 20
18	7	46447.2	2153.0	1.1699E-02	1.7740E-05	1.1749E-04	1.1749E-04	-6.2212E-04	1.7930E 20
19	7	46437.0	2153.0	1.1699E-02	3.6916E-05	1.1631E-04	1.1631E-04	-6.0175E-04	1.7985E 20
17	7	46399.8	2155.2	1.1285E-02	3.2116E-05	1.1259E-04	1.1259E-04	-6.1833E-04	1.8183E 20
20	7	46366.8	2156.7	1.1035E-02	5.5913E-05	1.0913E-04	1.0965E-04	-5.8193E-04	1.8353E 20
17	7	46307.0	2160.0	1.0415E-02	1.5792E-06	1.0254E-04	1.0254E-04	-6.6498E-04	1.8609E 20
10	2	46274.0	2161.0	1.0272E-02	1.1583E-06	1.0032E-04	1.0032E-04	-5.6273E-04	1.8989E 20
21	7	46234.4	2162.9	9.9621E-03	7.3432E-05	9.5999E-05	9.5999E-05	-6.8742E-04	1.9396E 20
17	7	46167.0	2167.3	9.2474E-03	2.4528E-05	8.8974E-05	8.9211E-05	-6.6086E-04	1.9707E 20
2	3	46111.4	2168.7	2.6822E-04	8.6719E-05	8.6719E-05	8.6719E-05	-7.4520E-04	2.0420E 20
7	5	46110.5	2168.7	1.2560E-02	2.2774E-03	8.2072E-05	8.2072E-05	-6.8742E-04	2.0420E 20
10	6	46075.0	2171.1	1.2024E-02	2.8711E-06	1.1519E-04	1.1519E-04	-7.9144E-04	1.9792E 20
14	7	45992.2	2177.0	1.4594E-02	8.4738E-05	1.0162E-04	1.0251E-04	-7.1059E-04	2.0579E 20
4	4	45885.4	2179.3	1.3308E-02	2.8193E-05	1.0876E-04	1.0339E-04	-7.3455E-04	2.1788E 20
13	7	45878.6	2180.2	1.1134E-02	9.2448E-05	9.8717E-05	9.9552E-05	-6.1788E-04	2.2002E 20
9	6	45839.3	2181.3	1.1023E-02	4.9253E-03	9.4412E-05	1.0381E-04	-6.1971E-04	2.2767E 20
6	5	45777.5	2194.1	1.5429E-02	9.9501E-05	1.2164E-04	1.2251E-04	-9.8211E-04	2.3080E 20
1	3	45447.7	2200.3	1.3930E-02	3.2371E-04	1.1519E-04	1.1702E-04	-7.5932E-04	2.3487E 20
13	7	45376.7	2203.8	1.3404E-02	2.1775E-03	1.0501E-04	1.1769E-04	-8.4527E-04	2.4462E 20
3	4	45267.2	2209.1	1.4383E-02	1.3857E-02	1.0404E-04	1.0512E-04	-6.1630E-04	2.5295E 20
8	6	45169.3	2213.9	1.2576E-02	6.4274E-05	1.0404E-04	1.0404E-04	-6.1630E-04	2.5295E 20
19	8	45039.3	2220.3	1.2534E-02	4.4130E-05	1.0740E-04	1.0740E-04	-7.4495E-04	2.5393E 20
11	7	45030.6	2220.7	1.2891E-02	4.4130E-05	1.0562E-04	1.0562E-04	-9.0906E-04	2.5481E 20
5	5	45013.8	2221.5	1.9142E-02	6.4464E-03	1.0562E-04	1.0562E-04	-6.5807E-04	2.5572E 20
7	8	45002.1	2222.1	1.9042E-02	9.3455E-05	1.5739E-04	1.5816E-04	-6.5807E-04	2.5820E 20
20	8	44969.1	2223.7	1.9047E-02	8.8819E-05	1.5292E-04	1.5386E-04	-6.8054E-04	2.6338E 20
16	8	44899.3	2227.2	1.7533E-02	8.8819E-05	1.3487E-04	1.3511E-04	-5.7449E-04	2.6770E 20
17	8	44836.8	2231.3	1.6679E-02	1.9530E-05	1.2563E-04	1.2563E-04	-6.2394E-04	2.7239E 20
10	3	44784.6	2233.9	1.5633E-02	5.7760E-05	1.2313E-04	1.2359E-04	-7.0379E-04	2.7371E 20
15	8	44743.3	2235.0	1.5404E-02	2.0985E-03	1.1470E-04	1.1317E-04	-8.7345E-04	2.7813E 20
19	8	44661.1	2236.7	1.6537E-02	4.5550E-04	1.2921E-04	1.3131E-04	-9.3681E-04	2.8101E 20
10	7	44624.6	2240.0	1.6814E-02	4.5550E-04	1.2921E-04	1.3131E-04	-9.3681E-04	2.8101E 20
2	4	44625.0	2240.9	1.7688E-02	2.0146E-05	1.2770E-04	1.2786E-04	-7.2783E-04	2.8696E 20
14	8	44585.4	2241.5	2.2033E-02	1.6157E-07	1.4542E-04	1.4542E-04	-7.5246E-04	3.0524E 20
4	5	44421.7	2251.2	2.2033E-02	1.6157E-07	1.4542E-04	1.4542E-04	-7.5246E-04	3.0524E 20
13	8	44280.9	2258.3	1.9420E-02	2.9123E-04	1.3676E-04	1.3847E-04	-8.3895E-04	3.1000E 20
9	7	44270.7	2260.7	1.8595E-02	4.8319E-03	1.2080E-04	1.2080E-04	-7.3036E-04	3.1540E 20
6	6	44136.1	2265.7	2.2159E-02	5.1513E-05	1.3926E-04	1.3926E-04	-7.7835E-04	3.2161E 20
12	8	43979.0	2273.8	1.9298E-02	5.6626E-04	1.7108E-04	1.7108E-04	-1.0092E-03	3.2890E 20
1	4	43961.3	2274.7	1.9561E-02	5.6626E-04	1.7108E-04	1.7108E-04	-1.0092E-03	3.2890E 20
1	4	43903.4	2280.9	2.0078E-02	3.5274E-05	1.5795E-04	1.5820E-04	-9.7011E-04	3.3505E 20
8	7	43749.9	2285.7	2.2560E-02	5.0850E-06	1.4542E-04	1.4542E-04	-6.5107E-04	3.5222E 20
18	9	43673.2	2289.7	2.1079E-02	3.5077E-07	1.4434E-04	1.4434E-04	-6.2924E-04	3.5100E 20
19	9	43662.9	2290.3	2.0505E-02	2.4025E-04	1.3984E-04	1.4150E-04	-6.0447E-04	3.5324E 20
11	11	43632.9	2291.8	2.0400E-02	7.8511E-05	1.4404E-04	1.4404E-04	-6.7300E-04	3.5375E 20
17	9	43625.8	2292.2	2.0505E-02	9.7017E-08	1.5822E-04	1.5897E-04	-6.0813E-04	3.5616E 20
20	9	43592.8	2295.0	2.0400E-02	8.7574E-03	1.5300E-04	1.5300E-04	-6.5397E-04	3.5761E 20
5	6	43572.4	2295.0	2.0400E-02	1.1527E-05	1.8311E-04	1.8311E-04	-6.7689E-04	3.6250E 20
16	9	43523.0	2297.6	2.5521E-02	2.8100E-05	1.7182E-04	1.7201E-04	-5.8765E-04	3.6880E 20
21	9	43460.4	2300.9	2.1831E-02	1.2633E-04	1.5822E-04	1.5666E-04	-7.2099E-04	3.7649E 20
15	9	43367.0	2303.9	2.3550E-02	1.2730E-04	1.6261E-04	1.6454E-04	-8.0413E-04	3.8357E 20
0	4	43278.1	2310.6	2.1831E-02	1.2633E-04	1.5822E-04	1.5666E-04	-7.2099E-04	3.7649E 20
7	7	43249.8	2312.2	2.1467E-02	1.9854E-04	1.3978E-04	1.4354E-04	-8.3256E-04	3.8608E 20
10	8	43244.9	2312.4	2.1962E-02	4.8262E-03	1.3150E-04	1.6272E-04	-1.0038E-03	3.9742E 20
2	5	43161.3	2316.9	2.5169E-02	1.7170E-04	1.6252E-04	1.6353E-04	-7.4587E-04	3.9234E 20
14	9	43180.1	2317.0	2.5169E-02	1.7170E-04	1.6252E-04	1.6353E-04	-7.4587E-04	3.9234E 20
4	6	42980.3	2326.6	3.4235E-02	1.4808E-04	1.8733E-04	1.8733E-04	-1.5272E-04	4.1527E 20
13	9	42904.6	2330.8	3.2023E-02	1.4808E-04	1.8733E-04	1.8733E-04	-1.5272E-04	4.1527E 20
8	8	42817.3	2335.5	3.0477E-02	9.8485E-04	1.8173E-04	1.8018E-04	-9.2768E-04	4.3412E 20
6	7	42716.7	2341.0	2.9457E-02	1.1249E-04	1.5931E-04	1.5999E-04	-7.9893E-04	4.4474E 20
12	9	42602.7	2347.3	3.6759E-02	2.4231E-03	1.4203E-04	1.5711E-04	-1.0379E-03	4.5152E 20
1	5	42497.5	2353.1	2.6670E-02	1.4908E-02	1.3597E-04	2.2216E-04	-9.8827E-04	4.8452E 20
3	6	42362.0	2360.6	3.8442E-02	1.1037E-03	2.1978E-04	2.2613E-04	-8.9083E-04	4.9512E 20
8	8	42352.2	2361.1	3.9184E-02	6.0288E-05	2.1770E-04	2.1805E-04	-8.6655E-04	4.9697E 20
10	10	42317.9	2363.1	3.7967E-02	7.4099E-05	2.1559E-04	2.1601E-04	-8.4397E-04	4.9721E 20
19	10	42307.6	2363.6	3.7667E-02	5.5204E-05	2.0733E-04	2.0733E-04	-8.8988E-04	4.7561E 20
17	10	42270.5	2365.7	3.6179E-02	1.7829E-05	2.0436E-04	2.0436E-04	-8.2605E-04	4.7721E 20
11	9	42256.6	2366.5	3.5912E-02	7.4934E-05	2.0019E-04	2.0019E-04	-8.2212E-04	4.7398E 20
20	10	42237.5	2367.6	3.5332E-02	8.6861E-06	1.8574E-04	1.8574E-04	-7.1402E-04	4.8695E 20
16	10	42167.0	2371.5	3.3048E-02	6.7156E-03	1.8280E-04	2.2047E-04	-6.0954E-04	4.8947E 20
5	7	42153.0	2372.3	3.9299E-02	6.5305E-05				

2000°K									
V' V"	$\tilde{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	$\phi_1, \tilde{\nu}, \text{cm}^{-1}$	$\phi_2, \tilde{\nu}, \text{cm}^{-1}$	a, cm	$f\phi\tilde{\nu}^2 d\lambda, \text{cm}^{-1}$	
0 4	40373.0	2476.9	4.0528E-02	2.5288E-03	1.6456E 26	1.7531E 26	-1.1053E-03	6.0462E 26	
2 7	40300.5	2481.4	6.5669E-02	2.7991E-02	1.6142E 26	2.6134E 26	-1.0610E-03	7.0212E 26	
13 11	40214.7	2486.7	6.0123E-02	6.2623E-06	2.5427E 26	2.5430E 26	-8.1271E-04	7.1529E 26	
4 8	40163.2	2489.8	6.4852E-02	9.8347E-03	2.3932E 26	2.6080E 26	-1.0215E-03	7.2416E 26	
9 10	40085.7	2494.7	6.1776E-02	4.8511E-05	2.5610E 26	2.5630E 26	-9.0925E-04	7.3707E 26	
4 9	39942.7	2503.6	5.5048E-02	2.1516E-03	2.1658E 26	2.2532E 26	-9.4113E-04	7.4531E 26	
12 11	39912.8	2505.5	5.3835E-02	2.5913E-05	2.1753E 26	2.1766E 26	-8.1416E-04	7.6228E 26	
18 12	39649.1	2520.9	4.1946E-02	1.5350E-05	1.6780E 26	1.6780E 26	-6.7982E-04	7.9140E 26	
19 12	39658.8	2521.5	4.1548E-02	4.1486E-05	1.6150E 26	1.6155E 26	-6.7355E-04	7.9246E 26	
1 7	39636.8	2522.9	6.1979E-02	2.1308E-02	2.3403E 26	2.3632E 26	-1.1003E-03	7.9470E 26	
17 12	39621.7	2523.9	6.1004E-02	1.7897E-07	1.5752E 26	2.3632E 26	-9.4159E-04	7.9715E 26	
10 10	39620.6	2523.9	6.1092E-02	1.5513E-04	2.3572E 26	2.3632E 26	-6.5213E-04	8.0187E 26	
20 12	39588.7	2526.0	5.9140E-02	6.4014E-05	2.2174E 26	2.2261E 26	-1.0710E-03	8.0502E 26	
11 11	39586.7	2527.4	5.8018E-02	2.2719E-04	2.2742E 26	2.2767E 26	-1.0710E-03	8.0502E 26	
4 8	39458.0	2528.6	6.3426E-02	2.6719E-02	2.1087E 26	3.1935E 26	-1.0710E-03	8.0502E 26	
16 12	39458.0	2530.4	8.1186E-02	1.5006E-05	3.0919E 26	3.0925E 26	-7.5094E-04	8.1331E 26	
21 12	39456.3	2534.4	7.6093E-02	1.5645E-05	2.6822E 26	2.6711E 26	-1.0710E-03	8.1331E 26	
15 12	39379.0	2539.4	7.0526E-02	3.7495E-04	2.6159E 26	2.6299E 26	-1.0710E-03	8.1331E 26	
10 11	39178.7	2552.4	5.7815E-02	6.0507E-04	2.5795E 26	2.5822E 26	-7.7791E-04	8.4161E 26	
14 12	39150.6	2553.9	5.6816E-02	1.5861E-04	2.0348E 26	2.0405E 26	-8.6898E-04	8.7232E 26	
9 10	39120.9	2570.2	5.6052E-02	1.5105E-03	1.9550E 26	2.0092E 26	-9.7521E-04	8.7696E 26	
2 7	38953.6	2567.2	5.5304E-02	8.2196E-03	1.6450E 26	1.9322E 26	-1.0953E-03	9.0318E 26	
0 8	38802.8	2570.5	5.6888E-02	4.4480E-02	1.8167E 26	3.3555E 26	-8.1493E-04	9.0318E 26	
13 12	38801.2	2570.7	5.7037E-02	2.1640E-04	3.3490E 26	3.3555E 26	-8.1493E-04	9.0318E 26	
4 9	38786.9	2578.2	8.7399E-02	1.6780E-03	2.8478E 26	2.8726E 26	-9.3539E-04	9.3422E 26	
9 11	38751.1	2580.6	8.4954E-02	8.5213E-04	2.3885E 26	2.3912E 26	-6.9102E-04	9.6066E 26	
12 12	38750.6	2580.7	7.2780E-02	1.7148E-04	2.4925E 26	2.4925E 26	-1.0102E-03	9.6275E 26	
6 10	38587.4	2591.5	1.5503E-02	4.0570E-03	2.3885E 26	2.3912E 26	-6.9102E-04	9.6066E 26	
18 13	38374.9	2605.9	6.0255E-02	8.1428E-05	1.9217E 26	1.9243E 26	-7.1775E-04	9.9422E 26	
13 13	38374.9	2605.9	5.9451E-02	2.6451E-05	1.8124E 26	1.8124E 26	-6.9255E-04	9.9556E 26	
17 13	38372.5	2606.1	5.7425E-02	8.9975E-05	1.9030E 26	1.9020E 26	-7.1775E-04	9.9556E 26	
13 13	38294.5	2611.3	5.5461E-02	2.4617E-05	1.7493E 26	1.7491E 26	-6.6824E-04	1.0036E 26	
8 11	38289.5	2611.3	5.5461E-02	5.1818E-04	1.7310E 26	1.7474E 26	-6.6824E-04	1.0036E 26	
11 12	38282.5	2614.2	5.5369E-02	6.6311E-05	1.7310E 26	1.7474E 26	-6.6824E-04	1.0036E 26	
1 8	38239.1	2615.1	9.8068E-02	4.5258E-02	1.6511E 26	3.0050E 26	-1.1635E-03	1.2107E 26	
16 13	38224.7	2615.1	9.8068E-02	6.0424E-02	3.0113E 26	3.0134E 26	-7.7087E-04	1.2107E 26	
3 9	38168.6	2620.0	1.0080E-01	1.7242E-02	1.6146E 26	3.3151E 26	-1.0401E-03	1.2496E 26	
21 13	38162.2	2620.4	1.0073E-01	4.7374E-06	3.3144E 26	3.3151E 26	-6.4475E-04	1.2496E 26	
15 13	38060.8	2626.7	1.2940E-01	2.9410E-02	2.9489E 26	2.9496E 26	-7.9894E-04	1.2496E 26	
5 10	38023.7	2629.9	9.7145E-02	4.9071E-03	2.9391E 26	2.9391E 26	-7.9894E-04	1.2496E 26	
10 12	37866.5	2640.1	8.1689E-02	5.0748E-05	2.4050E 26	2.4074E 26	-9.2409E-04	1.2496E 26	
14 13	37861.1	2640.1	8.1689E-02	9.3865E-07	2.3996E 26	2.3996E 26	-8.2610E-04	1.2496E 26	
17 13	37785.9	2644.5	7.4967E-02	2.4150E-08	2.1807E 26	2.1807E 26	-8.2610E-04	1.2496E 26	
7 11	37758.9	2644.5	7.4967E-02	7.2729E-05	1.7431E 26	1.7431E 26	-8.5839E-04	1.2496E 26	
0 8	37558.7	2659.7	8.0612E-02	2.2373E-02	1.6185E 26	2.2625E 26	-1.1754E-03	1.2496E 26	
9 12	37436.9	2671.2	1.1763E-01	5.9038E-04	3.2220E 26	3.2220E 26	-1.1754E-03	1.2496E 26	
14 13	37431.6	2671.2	1.1763E-01	1.2631E-01	3.2220E 26	3.2220E 26	-1.1754E-03	1.2496E 26	
6 11	37304.4	2680.6	1.0276E-01	1.2631E-01	3.2220E 26	3.2220E 26	-1.1754E-03	1.2496E 26	
12 13	37252.8	2684.4	9.8556E-02	1.5567E-01	2.5925E 26	2.6341E 26	-1.0411E-03	1.2496E 26	
18 14	37100.5	2691.1	8.2121E-02	2.4033E-02	2.1584E 26	2.1584E 26	-7.3058E-04	1.2496E 26	
19 14	37090.3	2691.1	8.2121E-02	1.0113E-05	2.1584E 26	2.1584E 26	-7.3058E-04	1.2496E 26	
17 14	37053.1	2698.8	7.8895E-02	2.1806E-05	2.0412E 26	2.0412E 26	-6.7372E-04	1.2496E 26	
20 14	37050.2	2698.8	7.8895E-02	1.5813E-03	1.9573E 26	1.9573E 26	-6.0515E-04	1.2496E 26	
8 12	36971.8	2704.8	7.3608E-02	1.5813E-03	1.8847E 26	1.8847E 26	-6.0515E-04	1.2496E 26	
11 13	36958.3	2705.8	7.2936E-02	4.1320E-04	1.8777E 26	1.8847E 26	-6.0515E-04	1.2496E 26	
16 14	36950.3	2709.8	7.2365E-02	6.1224E-04	1.8777E 26	1.8847E 26	-6.0515E-04	1.2496E 26	
21 14	36887.7	2710.9	6.7572E-02	7.6696E-02	1.8777E 26	1.8847E 26	-6.0515E-04	1.2496E 26	
1 9	36862.8	2712.8	6.6246E-02	1.6490E-02	1.6490E 26	1.6490E 26	-1.1705E-03	1.2496E 26	
3 10	36813.3	2716.4	1.3791E-01	3.1166E-03	3.3500E 26	3.4336E 26	-1.1705E-03	1.2496E 26	
15 14	36794.3	2716.4	1.3791E-01	1.3509E-01	3.1166E 26	3.3500E 26	-1.1705E-03	1.2496E 26	
5 11	36689.1	2725.6	1.7633E-01	6.7492E-03	2.9216E 26	3.0826E 26	-1.0710E-03	1.2496E 26	
16 15	36597.4	2733.2	1.1785E-01	1.4822E-04	2.7035E 26	2.7035E 26	-8.5155E-04	1.3106E 26	
10 13	36570.5	2733.2	1.1785E-01	1.1313E-01	2.7035E 26	2.7035E 26	-8.5155E-04	1.3106E 26	
7 12	36471.6	2741.9	1.0079E-01	1.5676E-03	2.3535E 26	2.3535E 26	-1.0355E-03	1.3106E 26	
13 14	36331.9	2752.4	8.6077E-02	7.5688E-05	1.9706E 26	1.9788E 26	-8.8321E-04	1.3607E 26	
16 14	36317.9	2752.4	8.6077E-02	1.1721E-02	1.9706E 26	1.9788E 26	-8.8321E-04	1.3607E 26	
2 10	36171.2	2764.6	1.6082E-02	3.8880E-02	2.7302E 26	2.7302E 26	-1.2133E-03	1.3607E 26	
6 12	36142.7	2766.8	1.5558E-01	2.1143E-05	3.4675E 26	3.4675E 26	-9.9243E-04	1.3607E 26	
4 11	36087.0	2770.1	1.5686E-01	1.5686E-01	3.4675E 26	3.4675E 26	-9.9243E-04	1.3607E 26	
12 14	36030.0	2775.5	1.4509E-01	1.6013E-07	3.1741E 26	3.4731E 26	-1.1104E-03	1.3607E 26	
6 12	35939.6	2782.9	1.1062E-01	1.7263E-04	2.8101E 26	2.8144E 26	-1.0734E-03	1.4410E 26	
15 15	35845.5	2789.8	1.1730E-01	2.4860E-02	2.4860E 26	2.4860E 26	-7.2655E-04	1.4410E 26	
19 15	35835.2	2790.6	1.1578E-01	7.8302E-05	2.4860E 26	2.4860E 26	-7.2655E-04	1.4410E 26	
17 15	35798.1	2793.4	1.1114E-01	5.3696E-05	2.1178E 26	2.1339E 26	-7.4871E-04	1.4530E 26	
20 15	35765.0	2796.0	1.0701E-01	5.1997E-05	2.2344E 26	2.2375E 26	-7.0294E-04	1.4530E 26	
16 15	35695.3	2801.5	9.8673E-02	1.2447E-05	2.0408E 26	2.0411E 26	-6.1408E-04	1.4530E 26	
11 14	35683.9	2802.4	9.7521E-02	1.4732E-04	2.0105E 26	2.0134E 26	-7.5047E-04	1.4530E 26	
8 13	35617.7	2802.9	9.7270E-02	4.1079E-04	1.9806E 26	2.0035E 26	-1.0295E-03	1.4530E 26	
21 15	35612.7	2804.4	9.7270E-02	2.4727E-05	1.9806E 26	2.0035E 26	-1.0295E-03	1.4530E 26	
15 15	35534.3	2813.8	8.2814E-02	4.8525E-06	1.6646E 26	1.6646E 26	-8.4462E-04	1.5094E 26	
1 10	35507.5	2816.3	1.6226E-01	1.0243E-01	1.5999E 26	3.6577E 26	-1.2092E-03	1.5115E 26	
3 11	35478.7	2818.6	1.7768E-01	1.5435E-03	3.5131E 26	3.5437E 26	-1.1613E-03	1.5217E 26	
5 12	35374.9	2826.9	1.5904E-01	1.3742E-03	3.0779E 26	3.1166E 26	-1.1422E-03	1.5491E 26	
14 15	35332.4	2830.3	1.5129E-01	8.1469E-05	2.9419E 26	2.9435E 26	-8.7640E-04	1.5594E 26	
10 14	35295.9	2833.2	1.4548E-01	5.9046E-04	2.8013E 26	2.8196E 26	-9.8627E-04	1.5678E 26	
7 13	35177.5	2842.7	1.2872E-01	2.2665E-05	2.3998E 26	2.4332E 26	-1.0848E-03	1.5426E 26	
13 15	35176.6	2850.9	1.1490E-01	2.7401E-04	2.1280E 26	2.1328E 26	-1.0409E-03	1.6111E 26	
9 14	34868.3	2867.9	9.0157E-02	8.8259E-04	1.6238E 26	1.6238E 26	-1.0235E-03	1.6470E 26	
2 11	34836.6	2870.5	1.0072E-01	1.3675E-02	1.5957E 26	1.6029E 26	-1.2051E-03	1.6470E 26	
0 10	34824.3	2871.6	1.0772E-01	9.8461E-02	1.7704E 26	3.5253E 26	-1.2505E-03	1.6488E 26	
4 12	34782.8	2875.0	2.0021E-01	1.2250E-02	3.5253E 26	3.5446E 26	-1.1594E-03	1.6605E 26	
12 15	34774.9	2875.6	1.9860E-01	2.8639E-04	3.5071E 26	3.5121E 26	-9.4403E-04	1.6626E 2	

2000°K									
V ⁺	V ⁻	$\bar{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	ϕ_1, cm^{-1}	ϕ_2, cm^{-1}	a, cm	ϕ, cm^{-1}
11	16	33192.9	3012.7	1.8397E-01	6.7151E-04	2.4942E 24	2.4405E 24	-1.0114E-03	1.9991E 21
21	17	33176.5	3013.9	1.8093E-01	6.4603E-04	2.4113E 24	2.4113E 24	-7.1414E-04	2.0021E 21
8	17	33148.2	3016.8	1.7554E-01	1.6369E-03	2.3070E 24	2.3287E 24	-1.0980E-03	2.0098E 21
19	17	33046.1	3022.4	1.6234E-01	6.7876E-05	2.1287E 24	2.1274E 24	-6.9589E-04	2.0210E 21
14	17	32879.2	3041.4	1.2514E-01	1.6172E-04	1.5767E 24	1.5810E 24	-9.3069E-04	2.0544E 21
3	13	32870.4	3042.3	1.4842E-01	2.4646E-02	1.5409E 24	1.8720E 24	-1.2425E-03	2.0577E 21
1	12	32656.7	3043.3	2.1877E-01	7.2531E-02	1.8407E 24	2.7593E 24	-1.2932E-03	2.0597E 21
5	14	32604.3	3048.2	2.1008E-01	6.1318E-03	2.2515E 24	2.4270E 24	-1.1910E-03	2.0726E 21
13	16	32409.9	3060.3	2.1098E-01	4.9678E-04	2.2245E 24	2.6288E 24	-1.0508E-03	2.0779E 21
7	15	32448.0	3063.0	1.7390E-01	1.0338E-03	2.0934E 24	2.1059E 24	-1.1110E-03	2.1074E 21
13	17	32623.7	3065.3	1.6883E-01	2.1229E-04	2.0328E 24	2.0354E 24	-9.6708E-04	2.1121E 21
9	16	32377.3	3088.6	1.2306E-01	4.9835E-05	1.4231E 24	1.4231E 24	-1.0923E-03	2.1302E 21
12	17	32321.7	3093.9	1.1527E-01	7.2428E-05	1.3134E 24	1.3142E 24	-1.0051E-03	2.1392E 21
2	13	32228.3	3102.9	1.1749E-01	1.5289E-02	1.1475E 24	1.3167E 24	-1.2914E-03	2.1703E 21
18	18	32114.2	3104.2	1.1403E-01	6.2470E-04	1.2920E 24	1.2958E 24	-1.2382E-03	2.1720E 21
10	18	32193.5	3106.2	1.1308E-01	5.4445E-05	1.2583E 24	1.2399E 24	-9.2703E-04	2.1774E 21
19	18	32193.2	3107.2	1.1163E-01	1.1017E-05	1.2402E 24	1.2403E 24	-7.4215E-04	2.1758E 21
0	12	32175.5	3108.0	3.4916E-01	2.3162E-01	1.2266E 24	1.4292E 24	-1.3462E-03	2.1767E 21
17	18	32144.0	3110.8	3.3208E-01	1.0287E-04	3.6633E 24	3.6645E 24	-8.5525E-04	2.1874E 21
6	15	32114.9	3113.8	3.1891E-01	2.0117E-04	3.4966E 24	3.4988E 24	-1.1862E-03	2.1902E 21
20	18	32113.0	3114.0	3.1810E-01	1.0625E-04	3.1308E 24	3.1402E 24	-7.6245E-04	2.1989E 21
4	16	32064.2	3120.8	2.9018E-01	1.0625E-04	2.8582E 24	2.8584E 24	-8.0887E-04	2.2213E 21
21	18	31970.7	3126.9	2.6718E-01	2.2905E-05	2.5771E 24	2.5771E 24	-7.3391E-04	2.2396E 21
11	17	31975.6	3127.4	2.6544E-01	3.5771E-01	2.5783E 24	2.5842E 24	-1.1357E-03	2.2578E 21
15	18	31912.2	3131.6	2.4467E-01	5.5874E-04	2.4888E 24	2.4893E 24	-9.2385E-04	2.2640E 21
14	18	31887.3	3136.0	2.3679E-01	4.5299E-05	2.4888E 24	1.4202E 24	-6.6044E-04	2.2640E 21
10	14	31840.4	3136.5	1.8022E-01	1.7585E-01	1.4311E-02	1.7453E 24	-1.2787E-03	2.2722E 21
1	14	31840.4	3136.5	1.7415E-01	5.3682E-01	1.7246E 24	1.7299E 24	-1.0444E-03	2.2737E 21
10	17	31587.7	3165.8	1.0947E-01	2.5801E-02	1.6070E 24	1.9258E 24	-1.3258E-03	2.3774E 21
1	13	31564.5	3168.1	1.0473E-01	2.5801E-02	1.6070E 24	1.9258E 24	-1.3258E-03	2.3774E 21
5	15	31551.2	3169.4	1.0794E-01	6.0480E-01	1.8077E 24	1.9258E 24	-1.3258E-03	2.3774E 21
13	18	31524.9	3182.2	1.0774E-01	1.1913E-04	1.6143E 24	1.6154E 24	-9.9870E-04	2.3528E 21
7	16	31412.0	3183.5	1.0772E-01	2.7811E-03	1.5845E 24	1.6113E 24	-8.182E-04	2.3548E 21
9	17	31180.0	3209.2	1.2149E-01	1.1507E-01	1.1023E 24	1.1202E 24	-1.1303E-03	2.3894E 21
12	18	31121.7	3212.1	1.1213E-01	3.5904E-04	1.0517E 24	1.0549E 24	-1.0387E-03	2.3936E 21
18	19	31012.7	3224.5	1.0050E-01	2.4239E-05	8.9328E 25	8.9494E 25	-8.5525E-04	2.4056E 21
19	19	31002.5	3225.6	9.9225E-02	6.4388E-02	8.8044E 25	8.8044E 25	-8.5525E-04	2.4056E 21
17	19	30965.3	3225.6	9.9225E-02	1.0124E-07	8.3320E 25	8.3320E 25	-8.6187E-04	2.4089E 21
4	15	30959.1	3230.1	1.0340E-01	9.4448E-03	8.2505E 25	9.1045E 25	-1.2353E-03	2.4100E 21
2	14	30953.8	3230.6	1.4711E-01	6.4448E-03	8.2505E 25	9.1045E 25	-1.2353E-03	2.4100E 21
20	19	30912.9	3232.9	1.4308E-01	8.4321E-05	1.2526E 24	1.2533E 24	-7.6458E-04	2.4128E 21
0	13	30881.4	3238.2	4.2399E-01	2.9025E-01	1.1599E 24	1.0377E 24	-1.3757E-03	2.4148E 21
6	16	30879.0	3238.4	4.2465E-01	2.0412E-01	3.6811E 24	3.6811E 24	-1.2900E-03	2.4202E 21
14	19	30862.5	3240.2	4.1921E-01	6.3963E-03	3.5877E 24	3.5880E 24	-9.1688E-04	2.4265E 21
21	19	30799.9	3246.8	3.6116E-01	6.9105E-05	3.2534E 24	3.2540E 24	-7.5478E-04	2.4486E 21
11	18	30776.8	3249.2	3.6061E-01	3.3724E-04	3.1333E 24	3.1412E 24	-1.0007E-03	2.4587E 21
15	19	30708.5	3256.4	3.3582E-01	1.1613E-01	2.8139E 24	2.8131E 24	-9.5367E-04	2.4789E 21
17	17	30697.0	3257.9	3.3084E-01	1.2248E-04	2.7647E 24	2.7647E 24	-1.1761E-03	2.4823E 21
14	18	30499.7	3278.7	2.5341E-01	1.8330E-04	2.0384E 24	2.0384E 24	-9.9238E-04	2.5320E 21
10	18	30388.8	3278.7	2.5341E-01	1.8330E-04	2.0384E 24	2.0384E 24	-9.9238E-04	2.5320E 21
3	15	30340.9	3295.9	2.0442E-01	5.9190E-04	1.5907E 24	1.5947E 24	-1.2475E-03	2.5544E 21
5	16	30313.3	3298.7	1.9807E-01	6.9480E-04	1.5320E 24	1.5374E 24	-1.2475E-03	2.5603E 21
1	14	30290.1	3301.4	1.9148E-01	1.2414E-01	1.4791E 24	1.4791E 24	-1.3940E-03	2.5715E 21
10	19	30218.4	3309.4	1.7789E-01	6.9311E-05	1.3742E 24	1.3742E 24	-1.0325E-03	2.5786E 21
7	17	30194.8	3311.8	1.6882E-01	6.6243E-04	1.2744E 24	1.2744E 24	-1.2284E-03	2.5813E 21
9	18	29961.2	3337.6	1.2320E-01	5.3837E-04	8.8117E 25	8.8117E 25	-1.0747E-03	2.6153E 21
12	19	29948.7	3350.1	1.0592E-01	8.8896E-05	7.4061E 25	7.4923E 25	-8.7439E-04	2.6238E 21
19	20	29839.5	3351.3	1.0447E-01	3.4183E-05	7.3747E 25	7.3747E 25	-8.4052E-04	2.6275E 21
17	20	29802.3	3355.5	9.9419E-02	1.0284E-04	6.9582E 25	6.9582E 25	-8.0022E-04	2.6300E 21
20	20	29789.3	3359.2	9.9043E-02	1.1958E-04	6.6144E 25	6.6151E 25	-8.0022E-04	2.6312E 21
4	16	29723.2	3364.4	1.0390E-01	1.4647E-02	5.1542E 25	7.1662E 25	-1.3131E-03	2.6332E 21
16	20	29699.5	3367.1	1.0050E-01	6.1212E-05	6.8902E 25	6.8902E 25	-1.3910E-03	2.6332E 21
15	19	29688.8	3367.1	1.0050E-01	5.2184E-02	6.8946E 25	1.0475E 24	-1.2750E-03	2.6399E 21
4	17	29661.7	3371.3	1.5010E-01	4.9871E-03	9.8029E 25	1.0223E 24	-1.2750E-03	2.6399E 21
21	20	29637.0	3374.2	1.4511E-01	9.7552E-04	9.6336E 25	9.6336E 25	-1.4017E-03	2.6457E 21
9	14	29618.0	3377.4	4.4398E-01	3.1077E-01	9.3809E 25	9.3809E 25	-1.1192E-03	2.6494E 21
11	19	29596.1	3378.8	4.4349E-01	3.9959E-04	2.9718E 24	2.9829E 24	-1.1192E-03	2.6494E 21
15	20	29549.6	3384.8	4.1315E-01	1.1948E-06	2.7352E 24	2.7352E 24	-1.2199E-03	2.6809E 21
8	18	29496.2	3390.3	3.8818E-01	1.8899E-03	2.5331E 24	2.5455E 24	-1.1295E-03	2.7222E 21
10	19	29208.1	3423.7	2.5725E-01	7.4977E-04	1.5926E 24	1.5926E 24	-1.1454E-03	2.7488E 21
3	16	29104.9	3435.8	2.3051E-01	8.3801E-03	1.3804E 24	1.4014E 24	-1.2848E-03	2.7678E 21
2	16	29098.0	3436.7	2.3051E-01	2.6107E-03	1.3875E 24	1.4014E 24	-1.2848E-03	2.7678E 21
13	20	29081.1	3438.7	2.2570E-01	2.7525E-04	1.3636E 24	1.3652E 24	-1.4493E-03	2.7777E 21
1	15	29035.0	3444.1	2.3418E-01	2.2737E-02	1.2031E 24	1.2031E 24	-1.1705E-03	2.7840E 21
12	19	28948.8	3448.8	2.2226E-01	7.2924E-04	1.3166E 24	1.3202E 24	-1.1705E-03	2.7840E 21
9	19	28780.5	3474.6	1.6380E-01	1.6394E-04	9.2095E 25	9.3089E 25	-1.1143E-03	2.8129E 21
12	20	28779.2	3474.7	1.6379E-01	2.8915E-04	9.3089E 25	9.3089E 25	-9.0252E-04	2.8208E 21
14	21	28704.2	3489.8	1.4724E-01	4.5948E-06	6.2357E 25	6.2357E 25	-9.0252E-04	2.8208E 21
19	21	28693.9	3485.1	1.4518E-01	4.6005E-05	8.0995E 25	8.1021E 25	-8.6899E-04	2.8219E 21
17	21	28634.8	3489.6	1.3773E-01	1.7314E-05	7.6276E 25	7.6276E 25	-9.1972E-04	2.8254E 21
20	21	28623.8	3493.4	1.3150E-01	8.4530E-05	7.2280E 25	7.2372E 25	-8.1201E-04	2.8284E 21
18	21	28554.0	3502.1	1.1912E-01	1.0439E-04	6.4509E 25	6.4509E 25	-9.7847E-04	2.8342E 21
4	17	28505.9	3508.0	1.1637E-01	5.0944E-03	5.9707E 25	6.2441E 25	-1.3847E-03	2.8379E 21
21	21	28491.4	3509.9	1.1400E-01	8.4515E-05	6.0984E 25	6.1030E 25	-8.0903E-04	2.8390E 21
2	16	28462.9	3513.4	1.3643E-01	2.7370E-02	9.8294E 25	7.2877E 25	-1.4448E-03	2.8411E 21
6	18	28431.1	3513.3	1.3643E-01	1.4425E-03	7.0120E 25	7.0120E 25	-1.6025E-03	2.8438E 21
11	20	28431.1	3517.0	1.3273E-01	1.7767E-09	7.0120E 25	6.9315E 25	-1.0195E-03	2.8467E 21
0	13	28391.9	3521.1	1.2444E-01	2.1700E-04	6.4225E 25	2.1103E 24	-1.5108E-03	2.8504E 21
8	19	28315.4	3531.6	1.0630E-01	2.8787E-01	6.1509E 25	1.0092E 24	-1.0623E-03	2.8784E 21
24	21	28191.1	3567.2	3.8553E-01	6.4767E-04	1.9837E 24	1.9837E 24	-1.2046E-03	2.8957E 21
10	20	28045.1	3565.7	2.5849E-01	3.7435E-04	1.2559E 24	1.2578E 24	-1.0709E-03	2.9132E 21
13	21	27935.4	3579.7	2.1975E-01	1.5093E-06	1.0444E 24	1.0444E 24	-1.0709E-03	2.9132E

ν, ν^*		$\tilde{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	2000°K		$\Delta\phi$	$\phi_1, \tilde{\nu}^*, \text{cm}^{-1}$	$\phi_2, \tilde{\nu}^*, \text{cm}^{-1}$	q, cm	$\int \phi \tilde{\nu}^* d\lambda, \text{cm}^{-1}$
4	21	24975.7	4009.2	1.6701E-01	4.3690E-03	3.9467E 25	4.0517E 25	-1.4995E-03	3.2444E 21		
4	20	24965.6	4009.9	1.8554E-01	2.1781E-02	3.9751E 25	4.4902E 25	-1.5709E-03	3.2453E 21		
2	19	24866.0	4021.6	2.1741E-01	5.8830E-02	3.7468E 25	5.1304E 25	-1.6448E-03	3.2510E 21		
0	18	24699.9	4096.7	2.4086E-01	9.5039E-02	3.7698E 25	5.9239E 25	-1.7213E-03	3.2537E 21		
5	21	24410.0	4107.6	1.4840E-01	1.2129E-03	3.6129E 25	3.5667E 25	-1.5897E-03	3.2866E 21		
1	19	24345.2	4131.8	1.2249E-01	1.0062E-03	3.1630E 25	3.1749E 25	-1.6447E-03	3.2892E 21		
4	21	24202.3	4198.5	2.7711E-01	1.5671E-01	2.4199E 25	5.8402E 25	-1.7233E-03	3.2940E 21		
2	20	23877.9	4218.9	2.2936E-01	9.4964E-03	2.6409E 25	2.8142E 25	-1.6445E-03	3.3271E 21		
0	19	23503.1	4251.9	1.0262E-01	1.0262E-01	2.2477E 25	4.0677E 25	-1.7234E-03	3.3272E 21		
3	21	23199.6	4340.4	1.5415E-01	4.8493E-02	2.8175E 25	3.6981E 25	-1.7244E-03	3.343E 21		
1	20	23039.3	4360.4	2.2380E-01	2.5685E-02	1.9416E 25	2.3420E 25	-1.8079E-03	3.3601E 21		
2	21	22557.5	4433.1	2.0756E-01	1.0997E-01	1.7024E 25	3.3472E 24	-1.8099E-03	3.3690E 21		
0	20	22356.2	4473.0	2.0756E-01	1.1190E-01	1.2570E 25	2.7319E 25	-1.8976E-03	3.4015E 21		
1	21	21893.8	4561.5	1.4972E-01	2.1072E-02	1.8059E 25	2.0690E 25	-1.9015E-03	3.4175E 21		
0	21	21210.6	4714.6	1.3403E-01	6.2110E-02	7.9211E 24	1.4762E 25	-2.0000E-03	3.4175E 21		
				4.5620E-02	7.7432E-03	3.4490E 24	4.1941E 24				

SPECTRAL DISTRIBUTION FUNCTION AND RELATED PARAMETERS, O₂ SCHUMANN-RUNGE

5000°K									
ν'	ν''	$\tilde{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	$\phi, \tilde{\nu}^6, \text{cm}^{-6}$	$\phi_2 \tilde{\nu}^6, \text{cm}^{-6}$	a, cm	$\int \phi \tilde{\nu}^6 d\lambda \text{ cm}^{-5}$
18	0	56856.7	1758.8	2.4257E-04	2.4257E-04	2.4257E-04	8.1947E-24	-2.1542E-04	0.
19	0	56860.4	1759.1	5.2456E-04	2.6252E-03	8.1677E-24	1.7702E-25	-2.0777E-04	2.5071E-15
19	0	56860.3	1760.3	2.0672E-04	1.7494E-25	2.4443E-25	2.2226E-04	-2.2226E-04	2.2837E-17
20	0	56706.2	1761.3	1.0495E-03	3.2752E-04	2.4185E-25	3.5150E-25	-2.0230E-04	4.7731E-17
16	0	56706.5	1763.5	1.2085E-03	1.7432E-04	3.4388E-25	4.0184E-25	-2.9252E-04	1.2310E-18
21	0	56843.9	1765.4	1.4895E-03	1.4494E-04	3.9389E-25	5.1903E-25	-1.8602E-04	2.0058E-18
15	0	56550.5	1768.3	1.6859E-03	1.4494E-04	5.0396E-25	5.5317E-25	-2.3654E-04	3.4954E-18
14	0	56343.6	1774.8	1.7320E-03	1.1836E-04	5.1621E-25	5.5414E-25	-2.4387E-04	6.9620E-18
13	0	56088.1	1782.9	1.7344E-03	9.4514E-05	5.1025E-25	5.1174E-25	-2.5149E-04	1.1264E-19
11	0	55786.1	1792.6	1.6885E-03	7.3417E-05	4.8981E-25	4.7342E-25	-2.3741E-04	1.6228E-19
12	0	55440.1	1803.7	1.6304E-03	5.5149E-05	4.5741E-25	4.1452E-25	-2.1943E-04	2.3755E-19
10	1	55300.3	1808.3	2.8483E-03	1.2671E-07	4.1189E-25	1.1946E-26	-2.1281E-04	2.4028E-19
17	1	55292.9	1808.6	4.1887E-03	1.3457E-03	8.1189E-25	1.5192E-26	-2.2685E-04	2.5714E-19
19	1	55292.9	1809.9	5.3392E-03	1.1841E-03	1.1822E-26	1.9071E-26	-2.0615E-04	2.7110E-19
20	1	55219.9	1810.9	6.7267E-03	1.4241E-03	1.5020E-26	2.1726E-26	-2.1387E-04	3.1431E-19
21	1	55087.5	1813.2	7.7214E-03	1.0956E-03	1.8643E-26	2.5500E-26	-1.9649E-04	3.5895E-19
16	1	55150.1	1815.3	9.1246E-03	1.5082E-03	2.1285E-26	2.5500E-26	-2.7573E-04	3.8822E-19
10	0	55052.1	1816.5	9.0948E-03	3.9785E-05	2.5208E-26	5.318E-26	-2.4128E-04	4.3624E-19
15	1	54994.1	1818.6	9.9191E-03	1.0002E-03	2.4846E-26	2.7813E-26	-2.4882E-04	4.7195E-19
14	1	54782.2	1825.2	1.0438E-02	8.0725E-04	2.5002E-26	2.8227E-26	-2.8430E-04	7.4903E-19
9	0	54624.4	1830.7	1.0096E-02	2.7335E-05	2.6482E-26	2.8081E-26	-2.6477E-04	8.5127E-19
13	1	54531.7	1833.8	1.0879E-02	7.8735E-04	2.6010E-26	2.7096E-26	-2.6446E-04	1.1240E-20
12	1	54229.8	1844.0	1.0653E-02	6.7239E-04	2.5386E-26	2.6550E-26	-2.9313E-04	1.1881E-20
8	0	54159.4	1846.4	1.0503E-02	1.7710E-05	2.6461E-26	2.5511E-26	-2.7320E-04	1.4272E-20
11	1	53863.7	1855.0	1.0451E-02	5.5541E-05	2.4451E-26	2.5511E-26	-2.2402E-04	1.5275E-20
18	2	53855.8	1855.9	1.2235E-02	2.0856E-03	2.4523E-26	2.9362E-26	-2.4033E-04	1.5380E-20
19	2	53757.3	1860.2	1.4127E-02	1.9200E-03	2.9450E-26	3.4003E-26	-2.3124E-04	1.5015E-20
17	2	53720.2	1861.5	1.6249E-02	2.2450E-03	3.3667E-26	3.9052E-26	-2.1017E-04	1.6260E-20
20	2	53687.1	1863.6	1.7788E-02	1.7522E-03	3.8017E-26	4.2813E-26	-2.0245E-04	1.6973E-20
21	2	53659.2	1865.1	1.9785E-02	1.0687E-05	4.2412E-26	4.6874E-26	-2.1876E-04	1.7496E-20
14	2	53617.3	1865.1	2.1194E-02	2.3739E-03	4.6462E-26	5.0235E-26	-2.0352E-04	1.8310E-20
21	2	53554.8	1867.2	2.4585E-02	1.0687E-05	4.6462E-26	5.0235E-26	-2.0352E-04	1.8310E-20
15	2	53495.7	1869.3	2.1451E-02	4.4085E-04	4.9243E-26	5.2676E-26	-2.4631E-04	1.9935E-20
16	2	53461.4	1870.5	2.3758E-02	2.4728E-03	5.1692E-26	5.7448E-26	-2.3418E-04	2.3827E-20
14	2	53254.5	1877.8	2.5185E-02	5.9133E-06	5.4969E-26	5.4969E-26	-2.1155E-04	2.6376E-20
6	0	53126.2	1897.4	2.4455E-02	3.3346E-04	5.3894E-26	5.633E-26	-2.6228E-04	2.8625E-20
9	1	53084.0	1884.4	2.6463E-02	2.6114E-03	5.3352E-26	5.6918E-26	-2.4807E-04	3.1493E-20
13	2	52999.0	1886.8	2.6832E-02	2.3774E-04	5.6744E-26	5.6237E-26	-2.1742E-04	3.4719E-20
8	1	52877.0	1897.6	2.7195E-02	2.9300E-04	5.6041E-26	5.6041E-26	-2.1395E-04	3.7414E-20
5	0	52662.4	1902.5	2.6577E-02	2.6277E-03	5.2021E-26	5.6678E-26	-2.1742E-04	4.1779E-20
11	2	52550.5	1910.2	2.7534E-02	2.2627E-03	5.2021E-26	5.6678E-26	-2.2850E-04	4.3683E-20
18	3	52526.1	1913.6	2.7711E-02	8.4711E-04	5.4830E-26	5.7418E-26	-2.2135E-04	4.3896E-20
19	3	52477.9	1916.0	2.8235E-02	5.1766E-04	5.4356E-26	5.9218E-26	-2.1602E-04	4.4673E-20
17	3	52210.7	1915.3	2.9234E-02	1.2507E-03	5.6864E-26	6.1170E-26	-2.1433E-04	4.5380E-20
20	3	52177.7	1916.5	2.9303E-02	2.9940E-04	5.8527E-26	6.1170E-26	-2.4368E-04	4.6885E-20
16	3	52107.9	1919.1	3.0575E-02	1.7415E-03	6.1059E-26	6.1059E-26	-2.0921E-04	4.7000E-20
7	0	52102.8	1920.4	3.0678E-02	1.5797E-04	6.1059E-26	6.1059E-26	-2.0743E-04	4.8287E-20
4	0	52045.4	1921.4	3.0397E-02	1.4035E-04	6.0133E-26	6.0412E-26	-2.3138E-04	4.9941E-20
3	0	51970.3	1924.2	2.9855E-02	1.2760E-06	5.8821E-26	5.8821E-26	-2.80127E-04	5.0102E-20
10	2	51962.9	1924.9	2.8235E-02	2.0230E-03	5.8664E-26	6.2651E-26	-2.5150E-04	5.0102E-20
15	2	51955.0	1924.9	3.4049E-02	2.3086E-02	6.2605E-26	6.6944E-26	-2.5967E-04	5.5321E-20
14	3	51745.1	1932.8	3.5299E-02	2.9259E-03	6.2716E-26	6.3794E-26	-2.1894E-04	5.5635E-20
6	1	51569.8	1939.1	3.4911E-02	9.6271E-05	6.2716E-26	6.6217E-26	-2.4728E-04	6.0576E-20
13	2	51495.5	1940.4	3.5346E-02	1.7201E-03	6.2716E-26	6.718E-26	-2.8006E-04	6.1589E-20
12	2	51489.5	1942.1	3.6498E-02	3.5503E-03	6.5122E-26	6.8218E-26	-2.4179E-04	6.5225E-20
3	0	51352.1	1947.3	3.7500E-02	4.6462E-07	6.5122E-26	7.1039E-26	-2.7665E-04	6.9468E-20
12	3	51187.6	1953.6	3.9825E-02	4.1203E-03	6.4227E-26	7.1039E-26	-3.0073E-04	7.2515E-20
8	2	51070.3	1958.1	4.0041E-02	1.3774E-03	6.2572E-05	6.368E-26	-3.2903E-04	7.4246E-20
5	1	51006.1	1960.6	3.9446E-02	4.2393E-02	6.4561E-03	5.5339E-26	-2.8556E-04	7.8521E-20
11	3	50841.5	1966.9	4.2393E-02	7.5738E-05	7.1323E-26	7.1453E-26	-2.3363E-04	8.0474E-20
18	4	50771.7	1969.6	4.1714E-02	2.2513E-04	7.1170E-26	7.1533E-26	-2.2592E-04	8.0758E-20
19	4	50761.5	1970.0	4.1830E-02	2.2513E-04	7.0573E-26	7.0573E-26	-2.4103E-04	8.1783E-20
17	4	50724.3	1971.4	4.1434E-02	1.3302E-07	7.0196E-26	7.0197E-26	-3.5245E-04	8.2178E-20
20	4	50710.0	1972.0	4.1261E-02	4.0845E-04	6.9706E-26	7.0399E-26	-2.1865E-04	8.2584E-20
16	4	50691.3	1972.7	4.1492E-02	5.7057E-05	6.8580E-26	6.8675E-26	-2.4893E-04	8.4574E-20
14	4	50621.5	1975.4	4.0813E-02	1.0261E-03	5.7364E-26	6.4081E-26	-2.1163E-04	8.6241E-20
7	2	50570.1	1977.5	4.1304E-02	1.0261E-03	5.7364E-26	6.4081E-26	-2.1163E-04	8.6241E-20
21	4	50559.0	1977.9	4.1783E-02	5.9783E-04	6.7816E-26	6.7889E-26	-2.5703E-04	8.8751E-20
15	4	50465.5	1981.6	4.1098E-02	1.0768E-04	6.7593E-26	7.5491E-26	-2.9474E-04	9.0711E-20
10	3	50453.5	1982.0	4.5766E-02	4.7940E-03	6.7593E-26	7.5491E-26	-3.3940E-04	9.0237E-20
9	1	50414.4	1983.6	4.5321E-02	2.5228E-05	7.1334E-26	7.4405E-26	-2.6541E-04	9.4665E-20
14	4	50258.7	1989.7	4.4340E-02	8.1972E-04	7.0138E-26	7.4405E-26	-2.6541E-04	9.4665E-20
1	0	50046.2	1990.2	4.1948E-02	2.6631E-08	6.5909E-26	6.6777E-26	-3.0422E-04	1.0070E-21
9	3	50037.0	1998.5	4.2548E-02	7.0031E-04	6.5678E-26	7.3945E-26	-2.7405E-04	1.0100E-21
9	3	50025.9	1996.0	4.1788E-02	6.7543E-03	6.4494E-26	7.6868E-26	-2.7405E-04	1.0101E-21
13	4	50003.1	1999.9	4.8538E-02	1.4443E-03	7.3290E-26	7.9501E-26	-3.5013E-04	1.0744E-21
12	4	49795.7	2008.2	4.5939E-02	1.0128E-05	7.0022E-26	7.1734E-26	-2.8297E-04	1.1037E-21
12	4	49701.2	2012.0	4.7591E-02	2.1935E-03	6.7932E-26	7.4669E-26	-2.1402E-04	1.1435E-21
8	3	49560.9	2021.3	4.9501E-02	4.2904E-04	7.1955E-26	7.2554E-26	-3.7701E-04	1.1684E-21
0	0	49363.1	2025.8	4.8041E-02	2.1966E-03	6.2196E-03	6.9289E-26	-2.9217E-04	1.2039E-21
11	4	49355.1	2026.1	5.2149E-02	6.2196E-03	6.2196E-03	6.9289E-26	-2.9217E-04	1.2039E-21
18	5	49308.0	2028.1	5.2751E-02	1.2685E-03	7.3988E-26	7.5811E-26	-2.3610E-04	1.2118E-21
19	5	49297.7	2028.5	5.3857E-02	1.2537E-03	7.5505E-26	7.7308E-26	-2.3610E-04	1.2118E-21
17	5	49260.6	2030.0	5.4484E-02	1.1667E-03	7.6184E-26	7.851E-26	-2.4620E-04	1.2338E-21
20	5	49227.6	2031.4	5.5149E-02	1.1504E-03	7.6848E-26	7.8485E-26	-2.7317E-04	1.2439E-21
16	5	49157.8	2034.3	5.5058E-02	9.3679E-04	7.6569E-26	7.7591E-26	-3.6129E-04	1.2675E-21
18	5	49153.0	2034.4	5.4990E-02	1.1980E-03	7.7504E-26	7.7504E-26	-2.1993E-04	1.2681E-21
21	5	49050.7	2036.9	5.5132E-02	9.9080E-04	7.5816E-26	7.7204E-26	-2.7414E-04	1.2971E-21
7	3	49060.7	2038.3	5.6410E-02	3.7866E-03	7.6169E-26	7.9501E-26	-2.6274E-04	1.3168E-21
15	5	49001.8	2040.7	5.8085E-02	6.0244E-04	7.9501E-26	8.0414E-26	-3.0108E-04	1.3284E-21
10	4	48967.1	2042.7	6.3294E-02	5.7542E-03	7.9322E-26	8.7255E-26	-3.7472E-04	1.3591E-21
4	2	48881.2	2045.8	6.2049E-02	2.2946E-04	8.4329E-26	8.442E-26	-2.7140E-04	1.3892E-21

5000 °K

V	V'	$\tilde{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	$\phi_1, \tilde{\nu}, \text{cm}^{-1}$	$\phi_2, \tilde{\nu}, \text{cm}^{-1}$	a, cm	$\int \phi \tilde{\nu}^2 d\lambda, \text{cm}^{-5}$
3	3	47943.9	2084.9	6.7113E-02	2.0747E-03	7.9188E 26	8.1714E 26	-3.4545E-04	1.6712E 21
11	5	47891.4	2088.1	6.6641E-02	8.8345E-04	7.9300E 26	8.0372E 26	-1.6966E-04	1.6966E 21
18	6	47866.4	2089.1	6.6683E-02	5.4181E-04	7.9555E 26	8.0230E 26	-2.4347E-04	1.7052E 21
19	6	47856.3	2089.6	6.6723E-02	2.3744E-04	7.9686E 26	8.0151E 26	-2.3566E-04	1.7088E 21
17	4	47819.2	2091.2	6.6967E-02	9.5160E-04	7.8936E 26	8.0074E 26	-2.5163E-04	1.7217E 21
0	1	47806.7	2091.8	6.6731E-02	8.1939E-08	7.9663E 26	7.9653E 26	-3.8475E-04	1.7261E 21
20	7	47786.2	2092.7	6.6399E-02	5.9348E-05	7.8992E 26	7.9053E 26	-2.2788E-04	1.7322E 21
16	6	47774.4	2095.7	6.6494E-02	1.4067E-03	7.6824E 26	7.8485E 26	-2.6004E-04	1.7571E 21
21	8	47653.8	2098.5	6.5317E-02	1.7780E-07	7.6492E 26	7.6492E 26	-2.2042E-04	1.7764E 21
2	2	47620.9	2099.9	6.4742E-02	3.6276E-05	7.5462E 26	7.5504E 26	-3.7057E-04	1.7749E 21
7	4	47574.3	2102.0	7.2378E-02	8.4508E-03	7.4071E 26	8.3915E 26	-3.1251E-04	1.8078E 21
15	6	47560.4	2102.6	7.3887E-02	1.7998E-03	8.3432E 26	8.5515E 26	-2.6871E-04	1.8099E 21
10	5	47503.4	2105.1	7.5152E-02	2.4771E-03	8.3508E 26	8.4355E 26	-3.0895E-04	1.8313E 21
4	3	47371.8	2111.0	7.3596E-02	1.2637E-03	8.1734E 26	8.3171E 26	-3.5667E-04	1.8804E 21
14	4	47353.5	2111.4	7.4193E-02	1.9883E-03	8.2389E 26	8.4779E 26	-2.7767E-04	1.8872E 21
13	4	47098.0	2123.2	7.1639E-02	1.8364E-03	7.6187E 26	7.8132E 26	-2.8692E-04	1.9795E 21
9	5	47075.7	2124.2	7.6146E-02	4.9700E-03	7.7467E 26	8.2877E 26	-3.1914E-04	1.9871E 21
6	4	47041.2	2125.8	8.301E-02	7.9202E-03	8.1683E 26	9.0265E 26	-3.4304E-04	1.9999E 21
1	2	46957.1	2129.6	8.1253E-02	8.9427E-04	8.7098E 26	8.7103E 26	-3.8257E-04	2.0337E 21
12	6	46796.1	2136.9	7.8755E-02	1.2996E-03	8.1341E 26	8.2706E 26	-2.9648E-04	2.0954E 21
3	3	46793.6	2138.9	7.8411E-02	6.4350E-04	8.1225E 26	8.1897E 26	-3.6829E-04	2.1133E 21
5	4	46661.7	2145.4	8.3249E-02	8.1001E-03	8.7061E 26	8.5367E 26	-3.2048E-04	2.1639E 21
5	4	46477.5	2151.4	8.6520E-02	6.5370E-03	8.0622E 26	8.7211E 26	-3.5430E-04	2.2144E 21
11	6	46450.0	2152.9	8.6330E-02	5.7015E-04	9.6117E 26	8.6717E 26	-3.0535E-04	2.2255E 21
16	7	46395.1	2156.7	8.6505E-02	2.4143E-04	8.6087E 26	8.6284E 26	-3.8887E-04	2.2264E 21
19	7	46437.0	2153.5	8.5735E-02	5.0019E-04	8.6471E 26	8.6972E 26	-2.4070E-04	2.2307E 21
17	7	46399.8	2155.2	8.5806E-02	4.2822E-05	8.5585E 26	8.5627E 26	-2.4730E-04	2.2456E 21
20	7	46366.8	2156.7	8.5670E-02	7.3498E-04	8.6411E 26	8.7142E 26	-2.3278E-04	2.2586E 21
2	2	46274.0	2161.0	8.3911E-02	2.0143E-05	8.2610E 26	8.2610E 26	-2.0599E-04	2.2897E 21
0	2	46274.0	2161.0	8.3292E-02	1.1567E-06	8.1811E 26	8.1812E 26	-3.9501E-04	2.2474E 21
4	3	46245.4	2163.3	8.2323E-02	8.9425E-04	8.1925E 26	8.2509E 26	-2.2509E-04	2.3097E 21
15	7	46141.0	2167.3	8.1214E-02	2.9240E-04	7.8088E 26	7.8371E 26	-2.7497E-04	2.3446E 21
2	3	46111.4	2168.7	8.0749E-02	2.5708E-04	7.7336E 26	7.7623E 26	-3.8034E-04	2.3545E 21
10	6	46092.0	2171.0	8.1194E-02	1.1314E-02	8.4057E 26	8.4057E 26	-3.4057E-04	2.3575E 21
14	7	45993.2	2177.0	8.0602E-02	1.2483E-05	8.4531E 26	8.4531E 26	-3.1658E-04	2.3157E 21
10	6	45993.2	2177.0	8.8044E-02	9.2414E-04	8.1834E 26	8.2702E 26	-2.8424E-04	2.4266E 21
4	3	45961.3	2182.2	8.1395E-02	4.4558E-03	8.3535E 26	8.3535E 26	-3.3598E-04	2.4307E 21
13	7	45978.6	2189.2	8.7582E-02	1.8436E-03	7.7885E 26	7.9552E 26	-2.9382E-04	2.5259E 21
9	6	45934.3	2191.3	8.6874E-02	4.8005E-04	7.8025E 26	7.8459E 26	-3.2715E-04	2.5472E 21
5	4	45911.1	2195.1	8.8757E-02	1.3195E-02	7.7045E 26	7.7045E 26	-2.4608E-04	2.5967E 21
1	3	45947.7	2200.3	9.4884E-02	7.1677E-05	8.5348E 26	8.3611E 26	-3.9284E-04	2.6178E 21
12	7	45936.7	2203.8	9.5664E-02	2.7753E-03	8.1003E 26	8.3424E 26	-3.0373E-04	2.6461E 21
5	4	45921.1	2205.3	9.5059E-02	2.7937E-03	7.6801E 26	7.6801E 26	-2.6899E-04	2.6592E 21
8	6	45169.3	2213.9	9.4948E-02	2.7452E-03	7.8308E 26	8.0640E 26	-3.3811E-04	2.7278E 21
18	8	45049.5	2219.8	9.2597E-02	1.1741E-03	7.6418E 26	7.7400E 26	-2.5452E-04	2.7740E 21
14	7	45049.5	2220.3	9.3239E-02	9.4051E-04	7.7045E 26	7.7610E 26	-2.4608E-04	2.7779E 21
10	6	45030.6	2220.7	9.2644E-02	1.2958E-03	7.7528E 26	7.8024E 26	-3.1398E-04	2.7813E 21
5	5	45013.8	2221.5	1.0948E-01	1.3745E-02	7.9643E 26	8.1077E 26	-3.3632E-04	2.7897E 21
17	8	45006.1	2224.1	1.1032E-01	1.2446E-03	8.0592E 26	8.1632E 26	-3.6232E-04	2.7931E 21
20	8	44997.8	2224.7	1.0980E-01	8.6172E-04	8.0272E 26	8.0805E 26	-2.3790E-04	2.8028E 21
16	8	44899.3	2227.2	1.0847E-01	1.0802E-03	8.7707E 26	8.8855E 26	-2.7222E-04	2.8389E 21
21	8	44836.8	2227.3	1.0866E-01	3.5529E-03	8.5925E 26	8.6977E 26	-2.5997E-04	2.8657E 21
0	3	44743.3	2235.0	1.0426E-01	1.0460E-05	8.3895E 26	8.3904E 26	-4.0582E-04	2.8988E 21
7	6	44743.3	2235.0	1.0426E-01	6.8876E-04	8.3102E 26	8.3659E 26	-2.8152E-04	2.9256E 21
10	7	44669.1	2236.7	1.0902E-01	7.1839E-03	8.0806E 26	8.4945E 26	-2.4945E-04	2.9381E 21
10	7	44669.1	2236.7	1.1094E-01	2.8047E-03	8.5566E 26	8.7181E 26	-2.4599E-04	2.9476E 21
2	4	44625.0	2240.9	1.1159E-01	1.2709E-03	8.6120E 26	8.8123E 26	-3.0904E-04	2.9553E 21
14	8	44536.5	2245.4	1.0886E-01	2.2012E-04	8.6120E 26	8.6120E 26	-2.9122E-04	2.9588E 21
4	5	44512.7	2251.2	1.1688E-01	1.1922E-02	8.0495E 26	8.9655E 26	-3.1758E-04	3.0148E 21
13	8	44280.9	2258.3	1.1146E-01	1.5780E-06	8.4023E 26	8.4023E 26	-3.0105E-04	3.1039E 21
9	7	44215.0	2261.7	1.1060E-01	1.5122E-03	8.3907E 26	8.6267E 26	-3.3559E-04	3.1317E 21
14	9	44136.1	2263.0	1.1341E-01	1.3141E-02	8.0963E 26	8.9397E 26	-3.5145E-04	3.1695E 21
12	8	43979.0	2273.8	1.1528E-01	4.4164E-04	8.3051E 26	8.3414E 26	-3.1134E-04	3.2343E 21
1	4	43961.3	2274.7	1.1502E-01	4.0754E-04	8.2729E 26	8.3024E 26	-3.4067E-04	3.2419E 21
9	8	43903.4	2280.3	1.1766E-01	8.8756E-03	8.1132E 26	8.1132E 26	-3.8804E-04	3.2897E 21
7	7	43749.9	2285.7	1.1573E-01	1.4968E-04	8.1047E 26	8.1137E 26	-3.6988E-04	3.3304E 21
18	9	43673.2	2289.7	1.1286E-01	6.9222E-03	7.8774E 26	7.8324E 26	-2.6043E-04	3.3625E 21
19	9	43667.9	2290.3	1.1250E-01	4.1292E-06	7.7902E 26	7.7902E 26	-2.5170E-04	3.3707E 21
11	8	43632.9	2291.6	1.1315E-01	1.7740E 03	7.8564E 26	7.8806E 26	-3.2197E-04	3.3789E 21
17	9	43625.8	2292.2	1.1326E-01	3.8016E-04	7.7820E 26	7.8082E 26	-2.6494E-04	3.3818E 21
5	5	43597.9	2294.0	1.1215E-01	7.7966E-04	7.8108E 26	7.9553E 26	-3.5887E-04	3.3449E 21
2	5	43572.4	2295.0	1.1007E-01	1.8678E-02	7.6232E 26	7.8014E 26	-3.7345E-04	3.4235E 21
16	9	43523.0	2297.6	1.2883E-01	9.1732E-04	8.6946E 26	8.7559E 26	-2.7875E-04	3.4264E 21
21	9	43507.9	2298.0	1.2649E-01	2.4049E-03	8.5235E 26	8.5235E 26	-2.4049E-04	3.4304E 21
15	9	43367.0	2305.9	1.2407E-01	1.5064E-03	8.1532E 26	8.2544E 26	-2.8839E-04	3.4402E 21
0	4	43278.1	2310.6	1.2094E-01	6.8222E-05	7.9124E 26	7.9192E 26	-4.1724E-04	3.5343E 21
7	7	43241.4	2312.2	1.2002E-01	6.7966E-04	7.8108E 26	7.9553E 26	-3.5887E-04	3.5449E 21
10	8	43244.9	2312.4	1.2351E-01	3.6859E-03	7.8372E 26	8.0783E 26	-3.3307E-04	3.5484E 21
2	5	43161.3	2316.9	1.2472E-01	4.6278E-03	7.7637E 26	8.0628E 26	-4.0152E-04	3.5839E 21
14	9	43160.1	2317.0	1.2654E-01	1.8725E-03	8.0838E 26	8.1744E 26	-2.9035E-04	3.5944E 21
4	6	42980.3	2326.6	1.4026E-01	7.1182E-02	7.5607E 26	8.8420E 26	-3.8613E-04	3.6604E 21
13	9	42904.6	2330.8	1.3809E-01	1.4443E-03	8.5238E 26	8.6139E 26	-3.0866E-04	3.6960E 21
9	8	42817.3	2339.5	1.3912E-01	1.5130E-03	8.2571E 26	8.5723E 26	-3.4445E-04	3.7351E 21
6	7	42716.7	2341.0	1.3963E-01	5.2460E-03	8.1645E 26	8.4832E 26	-3.7107E-04	3.7871E 21
12	9	42602.7	2347.3	1.3521E-01	9.6445E-04	8.0627E 26	8.0839E 26	-3.1935E-04	3.8339E 21
1	5	42497.9	2353.1	1.3214E-01	1.7439E-03	7.6814E 26	7.7816E 26	-4.1515E-04	3.8796E 21
3	6	42362.0	2360.6	1.4505E-01	1.8947E-02	7.2874E 26	8.1842E 26	-3.9931E-04	3.9363E 21
8	8	42352.2	2361.1	1.4924E-01	4.6890E-03	8.3420E 26	8.6125E 26	-3.5633E-04	3.9409E 21
18	10	42317.0	2363.1	1.4826E-01	6.6484E-04	8.6479E 26	8.5148E 26	-2.6627E-04	3.9572E 21
19	10	42307.6	2363.6	1.4871E-01	1.0040E-03	8.4718E 26	8.5294E 26	-2.5759E-04	3.9621E 21
17	10	42270.5	2365.7	1.4727E-01	4.6941E-04	8.3746E 26	8.4014E 26	-2.7595E-04	3.9797E 21
11	9	42256.6	2372.3	1.5085E-01	4.1320E-02	7.9602E 26	8.3514E 26	-3.1042E-04	3.9862E 21
20	10	42237.5	2367.6	1.4669E-01	9.8501E-04	8.2732E 26	8.3291E 26	-2.4885E-04	3.9951E 21
16</									

5000 °K										
ν	ν	$\tilde{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	ϕ_1	$\tilde{\nu}, \text{cm}^{-1}$	ϕ_2, cm^{-1}	a, cm	$\int \phi \tilde{\nu} d\lambda \text{ cm}^{-5}$
0	6	40370.5	2476.9	1.6700E-01	1.3551E-03	7.1760E-26	7.2355E-26	-4.213E-04	4.877E-21	
2	7	40301.5	2481.4	1.4950E-01	2.6828E-02	6.9692E-26	8.1185E-26	-4.2519E-04	4.8788E-21	
13	11	40214.7	2486.7	1.4950E-01	8.0498E-05	7.7600E-26	7.7440E-26	-3.2509E-04	4.9208E-21	
4	8	40163.2	2489.8	1.5620E-01	1.6241E-02	7.5546E-26	8.2333E-26	-4.0863E-04	4.9452E-21	
9	10	40088.7	2494.7	1.5085E-01	2.5190E-04	7.4074E-26	7.9181E-26	-3.6717E-04	4.9841E-21	
4	9	39942.7	2503.6	1.4644E-01	5.8517E-03	7.3418E-26	7.5794E-26	-3.9245E-04	5.0522E-21	
12	11	39912.0	2505.5	1.4747E-01	2.2248E-04	7.4603E-26	7.4469E-26	-3.3444E-04	5.0463E-21	
18	12	39869.1	2510.9	1.4870E-01	2.0902E-04	6.5658E-26	6.5739E-26	-2.7993E-04	5.1742E-21	
19	12	39658.8	2521.5	1.4861E-01	5.6211E-04	6.5383E-26	6.5602E-26	-2.7023E-04	5.1784E-21	
17	12	39621.7	2523.9	1.4813E-01	2.3845E-04	7.0234E-26	7.0255E-26	-2.8997E-04	5.1444E-21	
1	7	39636.8	2522.9	1.4074E-01	8.4147E-04	6.9257E-26	6.951E-26	-2.6085E-04	5.1948E-21	
13	12	39566.7	2527.4	1.4891E-01	1.6775E-03	6.8749E-26	6.9413E-26	-3.4880E-04	5.2091E-21	
8	10	39620.6	2523.9	1.4821E-01	6.9044E-04	7.0194E-26	7.0494E-26	-3.7663E-04	5.2180E-21	
20	12	39588.7	2526.0	1.4801E-01	2.1125E-01	6.8394E-26	6.8457E-26	-4.2505E-04	5.2284E-21	
11	11	39566.7	2527.4	2.0712E-01	9.3914E-04	7.7794E-26	7.8148E-26	-3.0038E-04	5.2419E-21	
3	8	39545.0	2528.8	2.1320E-01	3.3788E-02	6.8612E-26	6.8534E-26	-4.2505E-04	5.2284E-21	
16	12	39514.9	2530.4	2.1125E-01	2.0712E-01	7.7794E-26	7.8148E-26	-3.0038E-04	5.2419E-21	
21	12	39456.3	2534.4	2.0180E-01	7.9949E-04	7.4953E-26	7.5251E-26	-4.0638E-04	5.3117E-21	
5	9	39379.0	2539.4	2.0142E-01	8.6494E-04	7.4603E-26	7.4942E-26	-3.1116E-04	5.3195E-21	
15	12	39362.9	2540.5	2.0142E-01	8.6494E-04	7.4603E-26	7.4942E-26	-3.1116E-04	5.3195E-21	
10	11	39178.7	2552.4	1.9141E-01	1.7298E-03	6.8462E-26	6.8495E-26	-3.2235E-04	5.4168E-21	
14	12	39154.0	2553.9	1.9397E-01	5.1710E-03	6.7675E-26	6.8095E-26	-3.4307E-04	5.4307E-21	
7	10	39120.6	2556.2	1.8001E-01	4.4050E-03	6.551E-26	6.5509E-26	-4.5727E-04	5.5035E-21	
0	7	38953.6	2570.5	2.2531E-01	4.2633E-02	5.3326E-26	7.8125E-26	-4.4810E-04	5.5250E-21	
13	12	38900.5	2570.7	2.2722E-01	2.1154E-03	7.8002E-26	7.8002E-26	-4.3307E-04	5.5837E-21	
4	9	38786.5	2579.1	2.2000E-01	2.7677E-03	7.3944E-26	7.4070E-26	-4.2090E-04	5.5837E-21	
9	11	38751.1	2580.6	2.2131E-01	4.4247E-03	7.3447E-26	7.4959E-26	-3.7416E-04	5.6014E-21	
12	12	38598.4	2590.8	2.0968E-01	1.4717E-03	6.6913E-26	6.6913E-26	-4.0403E-04	5.6799E-21	
6	10	38587.7	2591.2	2.1937E-01	1.1034E-02	6.8913E-26	6.8913E-26	-2.8709E-04	5.7782E-21	
16	13	38374.9	2605.9	2.0339E-01	1.1082E-03	6.4599E-26	6.4599E-26	-2.7702E-04	5.7678E-21	
19	13	38364.7	2606.6	2.0329E-01	7.3424E-04	6.5587E-26	6.5587E-26	-2.7702E-04	5.7678E-21	
17	13	38327.5	2609.1	2.0154E-01	1.1997E-02	6.510E-26	6.510E-26	-2.6730E-04	5.8131E-21	
20	13	38281.5	2611.9	2.0081E-01	2.2013E-03	6.2551E-26	6.2551E-26	-3.5176E-04	5.8131E-21	
8	11	38286.0	2611.9	1.9927E-01	2.3258E-04	6.2741E-26	6.2741E-26	-3.5176E-04	5.8131E-21	
11	12	38252.5	2614.2	2.0081E-01	2.2013E-03	6.2551E-26	6.2551E-26	-3.5176E-04	5.8131E-21	
1	8	38151.1	2616.1	2.2998E-01	3.2573E-02	6.1718E-26	7.1902E-26	-4.5379E-04	5.8368E-21	
16	13	38224.7	2616.1	2.2952E-01	8.6279E-04	7.1328E-26	7.1597E-26	-3.0835E-04	5.8474E-21	
3	9	38168.6	2620.0	2.4623E-01	2.1804E-02	7.6134E-26	7.6134E-26	-4.3003E-04	5.8709E-21	
21	13	38122.2	2622.8	2.4623E-01	2.1804E-02	7.6134E-26	7.6134E-26	-4.3003E-04	5.8709E-21	
15	13	38068.8	2626.8	2.3683E-01	2.7327E-04	7.2003E-26	7.2003E-26	-3.1955E-04	5.9213E-21	
5	10	38023.7	2629.9	2.4303E-01	1.0464E-02	7.3447E-26	7.3447E-26	-3.7416E-04	6.0217E-21	
10	12	38014.5	2631.2	2.4303E-01	1.0464E-02	7.3447E-26	7.3447E-26	-3.7416E-04	6.0217E-21	
14	13	37861.1	2641.2	2.2799E-01	1.0237E-05	6.7160E-26	6.7151E-26	-3.1124E-04	6.0229E-21	
7	11	37785.9	2646.5	2.2111E-01	8.2673E-04	6.4354E-26	6.4354E-26	-4.0176E-04	6.0378E-21	
13	13	37666.3	2651.2	2.1415E-01	1.1917E-02	5.6745E-26	5.6745E-26	-3.4335E-04	6.1511E-21	
0	8	37525.9	2662.7	2.4084E-01	3.0664E-03	6.0080E-26	6.0080E-26	-4.7017E-04	6.1557E-21	
2	9	37526.5	2664.9	2.4084E-01	3.0664E-03	6.0080E-26	6.0080E-26	-4.7017E-04	6.1557E-21	
9	12	37436.9	2671.5	2.5589E-01	2.0529E-03	5.9820E-26	7.0032E-26	-3.8523E-04	6.2134E-21	
12	13	37304.4	2680.6	2.4499E-01	2.2358E-01	6.5424E-26	6.6026E-26	-3.3992E-04	6.2161E-21	
16	14	37252.8	2684.8	2.4499E-01	2.2358E-01	6.5424E-26	6.6026E-26	-3.3992E-04	6.2161E-21	
19	14	37090.3	2696.1	2.2917E-01	3.2707E-06	5.9763E-26	5.9763E-26	-4.6455E-04	6.3021E-21	
5	11	37053.1	2698.8	2.2834E-01	1.3702E-04	5.9433E-26	5.9433E-26	-4.6455E-04	6.3021E-21	
11	13	36971.8	2704.8	2.2559E-01	4.7733E-04	5.7173E-26	5.7295E-26	-2.7407E-04	6.4051E-21	
13	13	36958.3	2705.8	2.2465E-01	6.4494E-03	5.5292E-26	5.7376E-26	-3.9339E-04	6.4051E-21	
14	14	36958.3	2706.3	2.2660E-01	1.8198E-02	5.5195E-26	5.7166E-26	-3.9339E-04	6.4051E-21	
1	9	36867.7	2710.9	2.2184E-01	1.3702E-04	5.9433E-26	5.9433E-26	-4.6455E-04	6.3021E-21	
16	14	36862.8	2712.8	2.2184E-01	1.3702E-04	5.9433E-26	5.9433E-26	-4.6455E-04	6.3021E-21	
2	10	36809.3	2716.1	2.2733E-01	4.1942E-03	5.6982E-26	5.8037E-26	-3.4982E-04	6.4950E-21	
15	14	36794.3	2717.8	2.2733E-01	4.1942E-03	5.6982E-26	5.8037E-26	-3.4982E-04	6.4950E-21	
5	11	36689.1	2725.6	2.2733E-01	4.1942E-03	5.6982E-26	5.8037E-26	-3.4982E-04	6.4950E-21	
14	14	36587.4	2733.2	2.2733E-01	4.1942E-03	5.6982E-26	5.8037E-26	-3.4982E-04	6.4950E-21	
10	13	36570.5	2734.5	2.2733E-01	4.1942E-03	5.6982E-26	5.8037E-26	-3.4982E-04	6.4950E-21	
7	12	36471.6	2741.9	2.6558E-01	2.0806E-03	5.3031E-26	6.3528E-26	-3.8273E-04	6.6132E-21	
13	14	36331.9	2752.1	2.6558E-01	2.0806E-03	5.3031E-26	6.3528E-26	-3.8273E-04	6.6132E-21	
0	9	36179.6	2764.0	2.5801E-01	2.7122E-02	5.1792E-26	5.7865E-26	-4.0857E-04	6.7836E-21	
2	10	36171.2	2764.6	2.5436E-01	1.7121E-02	5.1792E-26	5.7865E-26	-4.0857E-04	6.7836E-21	
9	13	36142.7	2769.3	2.9078E-01	1.9770E-01	6.4812E-26	6.4836E-26	-4.9679E-04	6.8215E-21	
12	14	36030.0	2770.3	3.0064E-01	1.5407E-01	6.3090E-26	6.5511E-26	-4.4778E-04	6.8239E-21	
6	12	35938.6	2775.5	2.9208E-01	1.3729E-06	6.3898E-26	6.3898E-26	-4.6845E-04	6.8578E-21	
18	15	35845.5	2789.8	2.8125E-01	6.0479E-04	6.0598E-26	6.0598E-26	-2.9538E-04	6.9014E-21	
19	15	35835.2	2790.6	2.7126E-01	1.0903E-03	5.7312E-26	5.7343E-26	-3.0258E-04	6.9440E-21	
17	15	35798.1	2793.4	2.7126E-01	1.0903E-03	5.7312E-26	5.7343E-26	-3.0258E-04	6.9440E-21	
20	15	35765.0	2796.0	2.6753E-01	7.0174E-04	5.6154E-26	5.6154E-26	-3.1898E-04	6.9550E-21	
16	15	35695.3	2801.5	2.5682E-01	7.0979E-04	5.5202E-26	5.5312E-26	-2.8123E-04	6.9794E-21	
11	14	35663.9	2802.4	2.5682E-01	7.0979E-04	5.5202E-26	5.5312E-26	-2.8123E-04	6.9794E-21	
8	13	35677.7	2802.9	2.5682E-01	7.0979E-04	5.5202E-26	5.5312E-26	-2.8123E-04	6.9794E-21	
21	15	35632.7	2806.4	2.5307E-01	3.0699E-04	5.1737E-26	5.1800E-26	-2.7107E-04	7.0349E-21	
15	15	35593.3	2813.8	2.4320E-01	5.7846E-05	4.8900E-26	4.9007E-26	-3.3785E-04	7.0721E-21	
1	10	35507.5	2816.3	3.1362E-01	7.3719E-02	4.8079E-26	6.2853E-26	-4.8382E-04	7.0873E-21	
3	11	35478.7	2816.7	3.1162E-01	1.9402E-03	6.1761E-26	6.2146E-26	-4.6455E-04	7.0985E-21	
5	12	35374.0	2826.9	3.0187E-01	8.2095E-03	5.8329E-26	5.9154E-26	-4.5406E-04	7.1484E-21	
14	15	35352.4	2830.3	2.9718E-01	8.8849E-04	5.7640E-26	5.7812E-26	-3.5055E-04	7.1484E-21	
10	14	35295.9	2833.2	2.9615E-01	3.7411E-03	5.6538E-26	5.7252E-26	-3.9451E-04	7.1849E-21	
7	13	35177.5	2842.7	2.8895E-01	7.8275E-03	5.3717E-26	5.4754E-26	-4.2733E-04	7.2374E-21	
13	15	35076.9	2850.9	2.7895E-01	2.1870E-02	5.1494E-26	5.1922E-26	-3.6380E-04	7.2809E-21	
9	14	34868.9	2867.9	2.5889E-01	4.5829E-03	4.5702E-26	4.6526E-26	-4.0945E-04	7.3464E-21	
2	11	34836.6	2870.5	2.6844E-01	1.3108E-02	4.5637E-26	4.7980E-26	-4.2026E-04	7.3760E-21	
0	10	34824.3	2871.6	3.1976E-01	6.2767E-02	4.7602E-26	5.7031E-26	-5.0202E-04	7.3809E-21	
4	12	34782.8	2875.0	3.3407E-01	2.0230E-02	5.5576E-26	5.9158E-26	-4.6254E-04	7.4022E-21	
12	15	3477								

		5000 °K									
V	V'	$\tilde{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	$\phi_1, \tilde{\nu}, \text{cm}^{-1}$	$\phi_2, \tilde{\nu}, \text{cm}^{-1}$	α, cm	$f\phi, \tilde{\nu}, \text{d}\lambda \text{ cm}^{-1}$		
11	16	33192.9	3012.7	3.3437E-01	3.4815E-03	4.4254E 26	4.4720E 26	-4.0059E-04	8.0725E 21	8.0725E 21	
21	17	33179.5	3013.9	3.3289E-01	4.0341E-04	4.4333E 26	4.4414E 26	-2.8566E-04	8.0779E 21	8.0779E 21	
8	15	33148.2	3016.8	3.3500E-01	4.9537E-03	4.4520E 26	4.4443E 26	-4.3919E-04	8.0906E 21	8.0906E 21	
15	17	33086.1	3022.7	3.3231E-01	8.0390E-04	4.3488E 26	4.2798E 26	-1.5831E-03	8.1151E 21	8.1151E 21	
14	17	32879.2	3041.4	2.9818E-01	1.9818E-03	3.7421E 26	3.7672E 26	-3.7228E-04	8.1912E 21	8.1912E 21	
3	13	32870.4	3042.3	3.2815E-01	3.1193E-02	3.7457E 26	4.1391E 26	-4.9697E-04	8.1943E 21	8.1943E 21	
1	12	32859.7	3043.3	3.2854E-01	5.2203E-02	4.1076E 26	4.7647E 26	-5.1807E-04	8.1988E 21	8.1988E 21	
5	14	32804.3	3046.2	3.2232E-01	1.3075E-02	4.4032E 26	4.7652E 26	-4.7641E-04	8.2215E 21	8.2215E 21	
10	16	32804.9	3046.3	3.2817E-01	3.1025E-03	4.7619E 26	4.8055E 26	-4.2038E-04	8.2222E 21	8.2222E 21	
7	15	32648.0	3061.0	3.5067E-01	3.5392E-03	4.3276E 26	4.3724E 26	-4.5641E-04	8.2870E 21	8.2870E 21	
13	17	32623.7	3065.3	3.5900E-01	2.0734E-03	4.3031E 26	4.3281E 26	-3.8683E-04	8.2908E 21	8.2908E 21	
9	16	32377.3	3088.6	3.1974E-01	2.5877E-04	3.6803E 26	3.6893E 26	-4.3693E-04	8.3021E 21	8.3021E 21	
12	17	32321.7	3091.9	3.1207E-01	4.2096E-04	3.5511E 26	3.5581E 26	-4.0205E-04	8.3113E 21	8.3113E 21	
2	13	32228.3	3102.9	3.1324E-01	1.4451E-02	3.3457E 26	3.5090E 26	-5.1645E-04	8.4423E 21	8.4423E 21	
4	14	32214.2	3104.2	3.1186E-01	7.0446E-04	3.4774E 26	3.4853E 26	-4.9521E-04	8.4470E 21	8.4470E 21	
18	18	32193.5	3106.2	3.0955E-01	7.4096E-04	3.4378E 26	3.4441E 26	-3.2922E-04	8.4539E 21	8.4539E 21	
19	19	32183.2	3107.2	3.0819E-01	1.4927E-04	3.4229E 26	3.4245E 26	-3.1686E-04	8.4573E 21	8.4573E 21	
0	12	32175.5	3108.0	3.3281E-01	1.2573E-01	3.4072E 26	4.8023E 26	-5.3849E-04	8.4598E 21	8.4598E 21	
7	15	32146.0	3110.0	4.2394E-01	1.3716E-03	4.7071E 26	4.7233E 26	-3.4210E-04	8.4734E 21	8.4734E 21	
6	15	32114.9	3113.8	4.2195E-01	5.4713E-04	4.6234E 26	4.6295E 26	-4.7446E-04	8.4874E 21	8.4874E 21	
20	19	32113.0	3114.0	4.2180E-01	1.2470E-03	4.6238E 26	4.6297E 26	-3.0498E-04	8.4883E 21	8.4883E 21	
20	19	32093.2	3112.8	4.2087E-01	1.3604E-03	4.4098E 26	4.4244E 26	-3.3553E-04	8.5189E 21	8.5189E 21	
21	19	31980.7	3126.9	3.9645E-01	2.8434E-04	4.2405E 26	4.2436E 26	-2.9355E-04	8.5654E 21	8.5654E 21	
11	17	31975.4	3127.4	3.9590E-01	2.2721E-04	4.2291E 26	4.2315E 26	-4.1795E-04	8.5474E 21	8.5474E 21	
15	18	31912.2	3131.2	3.7373E-01	2.1737E-03	4.4020E 26	4.4232E 26	-4.5428E-04	8.5732E 21	8.5732E 21	
15	18	31887.3	3134.0	3.8198E-01	4.4016E-04	4.0098E 26	4.0155E 26	-3.6955E-04	8.5831E 21	8.5831E 21	
14	18	31880.4	3134.5	3.4517E-01	8.5682E-06	3.4895E 26	3.4895E 26	-3.8418E-04	8.6058E 21	8.6058E 21	
10	17	31877.7	3134.5	3.4517E-01	8.5682E-06	3.4895E 26	3.4895E 26	-3.8418E-04	8.6058E 21	8.6058E 21	
1	13	31564.5	3168.1	3.4584E-01	1.8570E-02	3.4345E 26	3.6182E 26	-5.3712E-04	8.6993E 21	8.6993E 21	
2	13	31512.2	3171.2	3.4753E-01	1.7594E-02	3.4753E 26	3.4753E 26	-5.1942E-04	8.7017E 21	8.7017E 21	
13	19	31424.9	3182.2	3.5595E-01	1.1634E-03	3.4167E 26	3.4279E 26	-3.9948E-04	8.7496E 21	8.7496E 21	
7	16	31412.0	3183.5	3.6332E-01	9.5218E-03	3.3980E 26	3.4895E 26	-4.7247E-04	8.7541E 21	8.7541E 21	
12	18	31407.0	3184.0	3.6473E-01	3.2447E-03	3.4210E 26	3.4210E 26	-4.5210E-04	8.7610E 21	8.7610E 21	
12	18	31122.9	3211.1	3.7673E-01	3.0859E-03	2.9136E 26	2.9416E 26	-4.1505E-04	8.8479E 21	8.8479E 21	
10	19	31012.7	3224.5	3.7073E-01	3.3015E-04	2.7287E 26	2.7316E 26	-3.3918E-04	8.8802E 21	8.8802E 21	
19	19	31002.5	3225.6	3.6840E-01	8.9951E-04	2.7122E 26	2.7205E 26	-3.2424E-04	8.8848E 21	8.8848E 21	
19	19	30984.3	3225.6	3.6840E-01	8.9951E-04	2.7122E 26	2.7205E 26	-3.2424E-04	8.8848E 21	8.8848E 21	
4	15	30959.1	3230.1	3.1592E-01	1.5933E-02	2.6414E 26	2.7817E 26	-5.1334E-04	8.8952E 21	8.8952E 21	
2	14	30953.8	3230.6	3.5768E-01	4.2580E-02	2.7716E 26	3.1462E 26	-5.3573E-04	8.8968E 21	8.8968E 21	
20	19	30950.3	3230.6	3.5768E-01	4.2580E-02	2.7716E 26	3.1462E 26	-5.3573E-04	8.8968E 21	8.8968E 21	
0	13	30881.4	3238.2	5.0174E-01	1.5559E-01	3.0025E 26	3.3517E 26	-5.5878E-04	8.9201E 21	8.9201E 21	
4	16	30879.0	3238.4	5.0667E-01	5.5515E-03	3.3443E 26	4.3924E 26	-4.9159E-04	8.9212E 21	8.9212E 21	
16	19	30842.5	3240.2	5.0264E-01	5.6074E-04	4.3415E 26	4.3415E 26	-3.4667E-04	8.9287E 21	8.9287E 21	
21	19	30799.9	3246.8	4.8792E-01	8.5795E-04	4.1580E 26	4.1634E 26	-3.0191E-04	8.9547E 21	8.9547E 21	
11	18	30776.8	3249.2	4.8464E-01	2.4901E-03	4.0077E 26	4.1189E 26	-4.3228E-04	8.9688E 21	8.9688E 21	
19	19	30706.8	3256.4	4.4924E-01	1.7208E-03	3.6185E 26	3.6185E 26	-3.8167E-04	9.0287E 21	9.0287E 21	
8	17	30695.0	3257.9	4.4784E-01	1.3700E-03	3.5105E 26	3.5105E 26	-4.7044E-04	9.0015E 21	9.0015E 21	
14	19	30699.7	3278.7	4.2538E-01	2.0000E-03	3.4080E 26	3.4241E 26	-3.9686E-04	9.0077E 21	9.0077E 21	
10	18	30680.8	3280.5	4.2016E-01	7.1484E-05	3.1655E 26	3.1655E 26	-4.8881E-04	9.1171E 21	9.1171E 21	
3	15	30340.4	3295.9	3.9301E-01	6.5446E-04	3.0609E 26	3.0605E 26	-5.3433E-04	9.1333E 21	9.1333E 21	
5	16	30315.3	3298.7	3.8493E-01	1.4854E-03	3.0109E 26	3.0224E 26	-5.1168E-04	9.1477E 21	9.1477E 21	
15	16	30311.1	3298.7	3.8493E-01	1.4854E-03	3.0109E 26	3.0224E 26	-5.1168E-04	9.1477E 21	9.1477E 21	
13	19	30244.1	3304.4	3.7629E-01	6.7495E-04	2.8744E 26	2.8798E 26	-4.1298E-04	9.1646E 21	9.1646E 21	
7	17	30194.8	3311.8	3.6492E-01	2.2477E-03	2.7810E 26	2.7992E 26	-4.8971E-04	9.1799E 21	9.1799E 21	
18	18	30164.8	3314.0	3.6046E-01	2.7595E-03	2.6917E 26	2.6917E 26	-4.6834E-04	9.2436E 21	9.2436E 21	
12	19	29942.2	3339.0	3.2762E-01	1.6150E-04	2.5579E 26	2.5637E 26	-4.2988E-04	9.2515E 21	9.2515E 21	
10	20	29849.7	3350.1	3.1378E-01	1.1626E-03	2.2112E 26	2.2195E 26	-3.4975E-04	9.2751E 21	9.2751E 21	
2	16	29842.5	3350.6	3.1232E-01	4.6231E-04	2.2086E 26	2.3620E 26	-3.3620E-04	9.2772E 21	9.2772E 21	
17	20	29802.3	3355.4	3.0823E-01	1.4445E-03	2.1495E 26	2.1495E 26	-3.6391E-04	9.2948E 21	9.2948E 21	
20	20	29749.3	3359.2	3.0319E-01	2.3404E-05	2.1096E 26	2.1096E 26	-1.2321E-04	9.2476E 21	9.2476E 21	
15	16	29730.2	3362.5	2.9234E-01	2.4189E-02	2.2095E 26	2.2095E 26	-5.3284E-04	9.3056E 21	9.3056E 21	
16	20	29699.5	3367.1	3.1730E-01	7.8093E-04	2.1722E 26	2.1722E 26	-3.7871E-04	9.3114E 21	9.3114E 21	
2	15	29688.6	3367.1	3.4720E-01	5.0017E-02	2.1764E 26	2.5164E 26	-5.5639E-04	9.3116E 21	9.3116E 21	
14	17	29671.7	3373.8	3.7384E-01	3.3563E-03	2.5450E 26	2.5450E 26	-5.0999E-04	9.3488E 21	9.3488E 21	
21	20	29637.2	3374.2	3.4924E-01	1.2111E-04	2.4013E 26	2.5021E 26	-3.1075E-04	9.3292E 21	9.3292E 21	
0	14	29606.9	3377.6	3.5101E-01	1.6651E-01	2.4489E 26	3.5704E 26	-5.8007E-04	9.3377E 21	9.3377E 21	
5	19	29591.1	3380.1	3.5970E-01	5.9790E-03	2.5970E 26	2.5970E 26	-4.7611E-04	9.3451E 21	9.3451E 21	
15	20	29543.6	3384.8	3.5134E-01	1.4245E-03	3.4264E 26	3.4255E 26	-3.7419E-04	9.3630E 21	9.3630E 21	
8	18	29496.2	3390.3	3.5104E-01	8.0288E-03	3.3090E 26	3.3619E 26	-4.8782E-04	9.3814E 21	9.3814E 21	
20	20	29494.7	3390.3	3.5104E-01	8.0288E-03	3.3090E 26	3.3619E 26	-4.8782E-04	9.3814E 21	9.3814E 21	
10	19	29208.1	3423.7	4.4331E-01	4.6825E-03	2.7234E 26	2.7525E 26	-4.6624E-04	9.4807E 21	9.4807E 21	
3	16	29104.4	3435.8	4.3027E-01	1.0598E-02	2.5510E 26	2.6154E 26	-5.5516E-04	9.5148E 21	9.5148E 21	
17	17	29098.0	3436.7	4.3627E-01	5.5667E-03	2.6356E 26	2.6356E 26	-5.3135E-04	9.5170E 21	9.5170E 21	
13	20	29081.1	3438.7	4.3084E-01	2.6884E-03	2.6033E 26	2.6195E 26	-4.2743E-04	9.5222E 21	9.5222E 21	
1	15	29035.0	3444.1	4.3900E-01	1.6390E-02	2.5320E 26	2.6302E 26	-5.7730E-04	9.5336E 21	9.5336E 21	
7	18	28996.0	3448.8	4.3247E-01	2.4965E-03	2.5954E 26	2.5703E 26	-5.0826E-04	9.5453E 21	9.5453E 21	
19	21	28998.0	3451.4	3.6103E-01	2.0498E-03	1.8822E 26	1.8995E 26	-4.0779E-04	9.7021E 21	9.7021E 21	
12	20	28779.2	3474.7	3.8871E-01	2.4790E-03	2.1944E 26	2.2095E 26	-4.4529E-04	9.6100E 21	9.6100E 21	
18	21	28704.2	3483.8	3.7361E-01	6.2560E-05	2.0894E 26	2.0897E 26	-3.6101E-04	9.6295E 21	9.6295E 21	
19	21	28695.8	3485.1	3.7213E-01	6.1853E-04	2.0739E 26	2.0775E 26	-3.4578E-04	9.6321E 21	9.6321	

V'	V''	$\tilde{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	5000°K	$\Delta\phi$	$\phi_1, \tilde{\nu}^6, \text{cm}^{-6}$	$\phi_2, \tilde{\nu}^6, \text{cm}^{-6}$	a, cm	$f\phi\tilde{\nu}^6 d\lambda, \text{cm}^{-5}$
4	21	24979.7	4004.2	3.9937E-01	1.1428E-02	9.4018E 25	7.4887E 25	7.4887E 25	-5.0981E-04	1.0445E 22
4	20	24983.4	4005.9	4.3202E-01	3.5144E-02	9.0004E 25	1.0455E 26	1.0455E 26	-6.2834E-04	1.0445E 22
2	19	24986.0	4021.6	4.6345E-01	5.6338E-02	7.6227E 25	1.0955E 26	1.0955E 26	-6.5703E-04	1.0445E 22
0	18	24999.9	4044.6	4.6601E-01	5.0933E-02	9.4095E 25	1.0654E 26	1.0654E 26	-6.5703E-04	1.0445E 22
3	20	24410.0	4096.7	4.0709E-01	1.5508E-02	8.1402E 25	8.4118E 25	8.4118E 25	-6.2700E-04	1.0555E 22
3	20	24345.2	4107.6	3.9226E-01	1.5508E-02	8.1402E 25	8.4118E 25	8.4118E 25	-6.2700E-04	1.0555E 22
1	19	24202.3	4131.8	4.7163E-01	1.2728E-03	8.1402E 25	8.4118E 25	8.4118E 25	-6.2700E-04	1.0555E 22
4	21	23817.9	4198.5	4.8468E-01	1.2728E-03	8.1402E 25	8.4118E 25	8.4118E 25	-6.2700E-04	1.0555E 22
2	20	23703.1	4218.9	4.5586E-01	1.8584E-02	7.2119E 25	7.2119E 25	7.2119E 25	-6.5782E-04	1.0555E 22
0	19	23519.1	4251.9	4.3059E-01	9.8933E-02	6.4705E 25	6.4705E 25	6.4705E 25	-6.8899E-04	1.0555E 22
3	21	23199.6	4310.4	4.2318E-01	8.5984E-02	6.4705E 25	6.4705E 25	6.4705E 25	-6.5782E-04	1.0555E 22
1	20	23039.3	4340.4	4.2318E-01	3.2481E-02	6.4705E 25	6.4705E 25	6.4705E 25	-6.8899E-04	1.0555E 22
2	21	22557.5	4433.1	4.1411E-01	3.7218E-01	5.1440E 25	5.1440E 25	5.1440E 25	-7.2207E-04	1.0654E 22
0	20	22356.2	4473.0	3.7218E-01	1.0725E-01	5.1440E 25	5.1440E 25	5.1440E 25	-7.2207E-04	1.0654E 22
1	21	21891.8	4567.5	3.1610E-01	1.1293E-02	4.0427E 25	4.0427E 25	4.0427E 25	-7.2207E-04	1.0654E 22
0	21	21210.6	4714.6	2.0143E-01	4.4702E-02	4.0427E 25	4.0427E 25	4.0427E 25	-7.2207E-04	1.0654E 22
					4.1497E-03	4.0427E 25	4.0427E 25	4.0427E 25	-7.2207E-04	1.0654E 22
						1.7964E 25	1.7964E 25	1.7964E 25	-7.2207E-04	1.0654E 22
									-8.0009E-04	1.0914E 22
										1.0914E 22

SPECTRAL DISTRIBUTION FUNCTION AND RELATED PARAMETERS, O₂ SCHUMANN-RUNGE

8000°K

V	V'	$\tilde{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	$\phi_1, \tilde{\nu}^e, \text{cm}^{-1}$	$\phi_2, \tilde{\nu}^e, \text{cm}^{-1}$	a, cm	$\int \phi \tilde{\nu}^e d\lambda, \text{cm}^{-5}$
18	0	56856.7	1758.8	3.6827E-04	3.6827E-04	0.	1.2441E 25	-1.3664E-04	0.
19	0	56840.4	1759.1	7.9521E-04	4.2845E-04	1.2410E 25	2.6842E 25	-1.3048E-04	3.7445E 13
17	0	56809.3	1760.3	1.1045E-03	3.1224E-04	2.6632E 25	3.7128E 25	-1.3890E-04	3.4711E 17
20	0	56776.2	1761.3	1.5926E-03	4.9293E-04	3.6835E 25	5.3346E 25	-1.2644E-04	7.2593E 17
16	2	56705.5	1761.5	1.6284E-03	2.6039E-04	5.2469E 25	6.1217E 25	-1.4328E-04	1.8729E 18
21	0	56643.9	1765.4	2.3852E-03	5.6211E-04	6.0719E 25	7.8786E 25	-1.2250E-04	3.0542E 18
15	0	56550.5	1768.3	2.5691E-03	2.1289E-04	7.7062E 25	8.4024E 25	-1.4777E-04	5.3265E 18
14	0	56343.6	1774.8	2.6498E-03	1.7002E-04	4.9398E 25	8.5418E 25	-1.5242E-04	1.0450E 19
13	0	56084.1	1782.9	2.7123E-03	1.3207E-04	8.0332E 25	8.4443E 25	-1.5718E-04	1.7348E 19
12	0	55786.1	1792.6	2.7036E-03	9.9300E-05	7.8495E 25	8.1488E 25	-1.6208E-04	2.5206E 19
11	0	55440.1	1803.7	2.6515E-03	7.1858E-05	7.4902E 25	7.4984E 25	-1.6713E-04	3.3972E 19
10	1	55300.3	1808.3	4.5250E-03	1.9237E-03	7.4399E 25	1.2942E 26	-1.7237E-04	3.7431E 19
19	1	55290.0	1808.6	6.5610E-03	2.0423E-03	1.2909E 26	1.8744E 26	-1.3700E-04	3.7835E 19
17	1	55252.9	1809.9	8.3166E-03	1.7886E-03	1.8574E 26	2.3653E 26	-1.4165E-04	4.0103E 19
20	1	55219.9	1810.9	1.0425E-02	2.1463E-03	2.3472E 26	2.9557E 26	-1.2855E-04	4.2655E 19
16	1	55150.1	1813.2	1.1964E-02	1.6366E-03	2.9058E 26	3.3663E 26	-1.4617E-04	4.9370E 19
21	1	55087.5	1815.3	1.4100E-02	2.2378E-03	3.3150E 26	3.9404E 26	-1.2480E-04	5.6249E 19
10	0	55052.1	1816.5	1.4082E-02	4.9711E-05	3.9065E 26	3.9203E 26	-1.7233E-04	6.0035E 19
15	1	54994.1	1816.4	1.5442E-02	1.4692E-03	3.8656E 26	4.2717E 26	-1.5092E-04	6.8288E 19
14	1	54978.2	1817.0	1.4330E-02	1.8888E-03	4.1135E 26	4.4055E 26	-1.4557E-04	6.8885E 19
9	0	54924.4	1830.7	1.5971E-02	3.2616E-05	4.2343E 26	4.2429E 26	-1.7769E-04	1.2039E 20
13	1	54531.7	1833.8	1.6869E-02	1.1002E-03	4.1465E 26	4.4358E 26	-1.6068E-04	1.3349E 20
12	1	54422.8	1840.0	1.7082E-02	9.0944E-04	4.1135E 26	4.3448E 26	-1.6554E-04	1.7707E 20
8	0	54354.4	1846.4	1.6934E-02	2.0080E-03	4.2686E 26	4.2737E 26	-1.7769E-04	1.6788E 20
11	1	53881.7	1855.9	1.7013E-02	7.2377E-04	3.9869E 26	4.1641E 26	-1.7075E-04	7.2639E 20
10	1	53764.7	1859.7	1.9091E-02	3.1664E-03	4.1684E 26	4.4081E 26	-1.8081E-04	1.4001E 20
19	2	53757.3	1860.2	2.2784E-02	2.9117E-03	4.7958E 26	5.4985E 26	-1.3562E-04	2.4445E 20
17	2	53720.2	1861.5	2.6049E-02	3.3842E-03	5.4472E 26	6.2605E 26	-1.4453E-04	2.5158E 20
20	2	53688.1	1862.6	2.8765E-02	2.6372E-03	5.7200E 26	6.8397E 26	-1.1335E-04	2.5942E 20
12	2	53659.2	1863.6	2.8644E-02	1.1470E-05	6.7191E 26	6.7946E 26	-1.8900E-04	2.6532E 20
16	2	53617.3	1867.2	3.1843E-02	3.5461E-03	6.7232E 26	7.5876E 26	-1.4917E-04	2.7516E 20
21	2	53554.8	1867.2	3.3920E-02	2.3572E-03	7.4467E 26	8.0029E 26	-1.7722E-04	2.9381E 20
10	1	53495.7	1869.3	3.4190E-02	5.5086E-04	7.8843E 26	8.0114E 26	-1.7612E-04	3.0700E 20
15	2	53461.4	1870.5	3.7658E-02	3.6322E-03	7.9441E 26	8.7971E 26	-1.5395E-04	3.1474E 20
14	2	53254.5	1877.8	4.0190E-02	3.6243E-03	8.3408E 26	9.1675E 26	-1.5895E-04	3.7970E 20
6	0	53126.2	1882.3	3.9611E-02	6.0024E-06	8.4708E 26	8.4702E 26	-1.9478E-04	4.2041E 20
9	1	53088.0	1884.4	3.9531E-02	3.9774E-04	8.7406E 26	8.8274E 26	-1.8155E-04	4.3876E 20
13	2	52999.0	1886.8	4.2648E-02	3.5093E-03	8.6739E 26	9.4516E 26	-1.6793E-04	4.6026E 20
12	2	52967.0	1897.4	4.6095E-02	1.7819E-03	8.7400E 26	9.4429E 26	-1.6915E-04	5.5844E 20
8	1	52603.0	1901.0	4.1758E-02	2.6979E-04	9.2137E 26	9.2708E 26	-1.8736E-04	5.9017E 20
10	2	52562.4	1902.5	4.3449E-02	2.8073E-06	9.1729E 26	9.1735E 26	-2.0005E-04	6.0370E 20
11	2	52550.9	1910.2	4.5110E-02	2.9662E-03	8.8790E 26	9.2859E 26	-1.7453E-04	6.7229E 20
18	3	52258.1	1913.6	4.5776E-02	1.2861E-03	9.0811E 26	9.3239E 26	-1.7453E-04	7.0440E 20
19	3	52247.9	1914.0	4.6512E-02	8.0672E-04	9.2978E 26	9.4613E 26	-1.3935E-04	7.0690E 20
17	3	52210.7	1915.3	4.8165E-02	1.8990E-03	9.3697E 26	9.7523E 26	-1.4751E-04	7.1722E 20
20	3	52177.7	1916.5	4.8359E-02	4.5061E-04	9.4677E 26	9.7585E 26	-1.3395E-04	7.3150E 20
16	3	52107.9	1919.1	5.0461E-02	2.6015E-03	9.5806E 26	1.0121E 27	-1.5230E-04	7.5631E 20
15	3	52075.0	1919.2	5.0596E-02	1.0322E-03	9.5806E 26	1.0122E 27	-1.9325E-04	7.5871E 20
21	3	52054.4	1921.4	5.0370E-02	2.0875E-04	9.9692E 26	1.0011E 27	-1.2968E-04	7.7494E 20
4	0	51970.3	1924.2	4.9811E-02	1.1433E-06	9.9141E 26	9.9141E 26	-2.0711E-04	8.0699E 20
15	3	51925.0	1924.2	5.1228E-02	2.3297E-03	1.0297E 27	1.0297E 27	-1.8007E-04	8.1840E 20
13	3	51925.0	1924.9	5.5589E-02	3.3910E-03	1.0263E 27	1.0927E 27	-1.5722E-04	8.2972E 20
14	3	51745.1	1932.6	5.8809E-02	4.2078E-03	1.0345E 27	1.1150E 27	-1.6230E-04	8.9544E 20
13	3	51685.3	1932.6	5.8544E-02	9.2327E-03	1.0345E 27	1.0934E 27	-1.9034E-04	9.0345E 20
9	2	51535.3	1940.4	5.8414E-02	2.0524E-01	1.0559E 27	1.0943E 27	-1.8583E-04	9.6100E 20
13	3	51489.5	1942.1	6.2708E-02	4.9609E-03	1.0809E 27	1.1734E 27	-1.6752E-04	9.9976E 20
3	0	51355.1	1947.3	6.1650E-02	3.8940E-07	1.1105E 27	1.1335E 27	-7.1350E-04	1.0596E 21
12	3	51187.6	1953.6	6.5681E-02	5.5729E-03	1.0812E 27	1.1815E 27	-1.7291E-04	1.1288E 21
8	2	51070.3	1958.1	6.6056E-02	1.5430E-03	1.1443E 27	1.1797E 27	-1.9171E-04	1.1810E 21
5	1	51006.1	1960.6	6.5446E-02	5.0358E-05	1.1515E 27	1.1524E 27	-2.0943E-04	1.2094E 21
11	3	50841.5	1966.9	6.9772E-02	5.9430E-03	1.1016E 27	1.2042E 27	-1.7848E-04	1.2811E 21
18	4	50771.7	1969.6	6.9076E-02	1.1498E-04	1.1812E 27	1.1832E 27	-1.4584E-04	1.3134E 21
19	4	50761.5	1970.0	6.9304E-02	3.4141E-04	1.1709E 27	1.1876E 27	-1.4173E-04	1.3181E 21
17	4	50724.3	1971.4	6.8902E-02	2.1802E-06	1.1736E 27	1.1736E 27	-1.5063E-04	1.3351E 21
2	0	50710.0	1972.0	6.8746E-02	1.0403E-07	1.1690E 27	1.1692E 27	-2.2029E-04	1.3416E 21
20	4	50691.3	1972.7	6.9138E-02	6.1474E-04	1.1630E 27	1.1734E 27	-1.3665E-04	1.3501E 21
16	4	50621.5	1975.4	6.8488E-02	8.6231E-05	1.1510E 27	1.1524E 27	-1.5555E-04	1.3817E 21
7	2	50570.0	1977.5	6.9035E-02	1.1033E-03	1.1362E 27	1.1546E 27	-1.7971E-04	1.4047E 21
21	4	50559.0	1977.9	6.9800E-02	8.8702E-04	1.1510E 27	1.1657E 27	-1.3272E-04	1.4307E 21
15	4	50465.5	1981.6	6.9229E-02	4.5194E-04	1.1361E 27	1.1476E 27	-1.6064E-04	1.4519E 21
10	3	50451.5	1982.0	7.5088E-02	5.9903E-03	1.1798E 27	1.2386E 27	-1.8421E-04	1.4572E 21
4	1	50414.0	1983.6	7.4636E-02	2.2605E-05	1.2250E 27	1.2253E 27	-7.1213E-04	1.4764E 21
14	4	50258.7	1989.7	7.3960E-02	1.1777E-03	1.1737E 27	1.1973E 27	-1.6088E-04	1.5497E 21
1	0	50046.2	1998.2	7.1504E-02	1.9389E-08	1.1235E 27	1.1215E 27	-2.2722E-04	1.6477E 21
6	2	50037.0	1998.5	7.2109E-02	7.1086E-04	1.1206E 27	1.1317E 27	-2.0412E-04	1.6518E 21
9	3	50025.9	1999.0	7.7653E-02	5.6128E-03	1.1782E 27	1.2171E 27	-1.9014E-04	1.6548E 21
13	4	50003.1	1999.9	7.9664E-02	2.2977E-03	1.2093E 27	1.2452E 27	-1.7120E-04	1.6679E 21
3	1	49795.7	2008.2	7.7025E-02	8.4692E-06	1.1742E 27	1.1743E 27	-2.1885E-04	1.7668E 21
12	4	49701.2	2012.0	7.9624E-02	3.7784E-03	1.1633E 27	1.2023E 27	-1.7685E-04	1.8128E 21
8	3	49560.9	2017.7	8.2825E-02	5.0055E-03	1.1932E 27	1.2274E 27	-1.9625E-04	1.8795E 21
5	2	49473.3	2021.3	8.2044E-02	4.0980E-04	1.1970E 27	1.2030E 27	-2.1064E-04	1.9292E 21
0	0	49363.1	2025.8	8.0560E-02	1.8913E-09	1.1656E 27	1.1656E 27	-2.3639E-04	1.9766E 21
11	4	49355.1	2026.1	8.5941E-02	5.4880E-03	1.1629E 27	1.2427E 27	-1.8261E-04	1.9804E 21
18	5	49308.0	2028.1	8.7195E-02	1.9258E-03	1.2254E 27	1.2512E 27	-1.4944E-04	2.0043E 21
19	5	49297.7	2028.5	8.8047E-02	1.9012E-03	1.2494E 27	1.2757E 27	-1.4414E-04	2.0096E 21
17	5	49260.6	2030.0	9.0163E-02	7.6222E-03	1.2632E 27	1.2893E 27	-1.5388E-04	2.0202E 21
20	5	49227.6	2031.4	9.1403E-02	1.7314E-03	1.2762E 27	1.3028E 27	-1.5948E-04	2.0465E 21
16	5	49157.8	2034.2	9.1758E-02	1.1393E-03	1.2794E 27	1.2987E 27	-1.5897E-04	2.0736E 21
2	1	49153.6	2034.4	9.1695E-02	2.5018E-06	1.2932E 27	1.2932E 27	-2.0931E-04	2.0898E 21
21	5	49095.2	2036.9	9.2286E-02	1.4701E-03	1.2717E 27	1.2923E 27	-1.3495E-04	2.1169E 21
10	2	49064.7	2038.3	9.5353E-02	4.3121E-03	1.3344E 27	1.3344E 27	-2.0592E-04	2.1496E 21
15	5	49001.8	2040.7	9.5778E-02	8.8490E-04	1.3139E 27	1.3241E 27	-1.6421E-04	2.1678E 21
4	1	48967.1	2042.2	1.0247E-01	7.1901E-03	1			

		8000 °K											
V' V'		$\bar{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	$\phi_1, \bar{\nu}, \text{cm}^{-1}$	$\phi_2, \bar{\nu}, \text{cm}^{-1}$	a, cm	$\phi\bar{\nu}, d\lambda, \text{cm}^{-1}$				
5	3	47963.9	2084.9	1.0875E-01	1.9817E-03	1.2999E 27	1.3241E 27	-2.1591E-04	2.7517E 21	2.7517E 21	2.7517E 21	2.7517E 21	2.7517E 21
11	3	47891.4	2088.1	1.0894E-01	1.1511E-03	1.2956E 27	1.3095E 27	-1.6693E-04	2.7611E 21	2.7611E 21	2.7611E 21	2.7611E 21	2.7611E 21
18	4	47866.4	2089.1	1.0889E-01	6.2252E-04	1.2999E 27	1.3072E 27	-1.3210E-04	2.7627E 21	2.7627E 21	2.7627E 21	2.7627E 21	2.7627E 21
17	4	47855.3	2089.4	1.0906E-01	3.4038E-04	1.2956E 27	1.3101E 27	-1.0722E-04	2.7629E 21	2.7629E 21	2.7629E 21	2.7629E 21	2.7629E 21
20	1	47804.7	2091.8	1.0979E-01	1.4373E-03	1.2956E 27	1.3128E 27	-1.5727E-04	2.8342E 21	2.8342E 21	2.8342E 21	2.8342E 21	2.8342E 21
20	6	47788.2	2092.7	1.0956E-01	5.9415E-03	1.3079E 27	1.3079E 27	-2.4041E-04	2.8413E 21	2.8413E 21	2.8413E 21	2.8413E 21	2.8413E 21
16	6	47716.4	2095.7	1.0925E-01	8.9323E-05	1.2999E 27	1.3009E 27	-1.4242E-04	2.8530E 21	2.8530E 21	2.8530E 21	2.8530E 21	2.8530E 21
21	4	47653.8	2098.5	1.1004E-01	2.1013E-03	1.2741E 27	1.2919E 27	-1.6252E-04	2.8926E 21	2.8926E 21	2.8926E 21	2.8926E 21	2.8926E 21
2	2	47620.9	2099.9	1.0886E-01	2.6361E-07	1.2746E 27	1.2746E 27	-1.3774E-04	2.9278E 21	2.9278E 21	2.9278E 21	2.9278E 21	2.9278E 21
7	4	47574.3	2102.0	1.1652E-01	9.1291E-03	1.2451E 27	1.3510E 27	-2.0763E-04	2.9721E 21	2.9721E 21	2.9721E 21	2.9721E 21	2.9721E 21
15	4	47560.4	2102.4	1.1889E-01	2.6457E-03	1.3453E 27	1.3795E 27	-1.4795E-04	2.9803E 21	2.9803E 21	2.9803E 21	2.9803E 21	2.9803E 21
10	5	47503.4	2105.1	1.2079E-01	3.0933E-03	1.3824E 27	1.3844E 27	-1.9309E-04	3.0148E 21	3.0148E 21	3.0148E 21	3.0148E 21	3.0148E 21
4	3	47511.0	2111.0	1.1816E-01	1.1323E-03	1.3338E 27	1.3464E 27	-2.2292E-04	3.0343E 21	3.0343E 21	3.0343E 21	3.0343E 21	3.0343E 21
14	4	47535.5	2111.8	1.2163E-01	2.8560E-03	1.3922E 27	1.3716E 27	-1.7354E-04	3.1053E 21	3.1053E 21	3.1053E 21	3.1053E 21	3.1053E 21
13	6	47099.0	2123.2	1.1884E-01	2.5646E-03	1.2891E 27	1.3922E 27	-1.7942E-04	3.2896E 21	3.2896E 21	3.2896E 21	3.2896E 21	3.2896E 21
9	5	47075.7	2124.2	1.2830E-01	5.9302E-03	1.2884E 27	1.3922E 27	-1.7942E-04	3.2896E 21	3.2896E 21	3.2896E 21	3.2896E 21	3.2896E 21
1	2	46957.1	2129.6	1.3158E-01	8.0395E-03	1.3387E 27	1.4295E 27	-2.3911E-04	3.3440E 21	3.3440E 21	3.3440E 21	3.3440E 21	3.3440E 21
12	4	46976.1	2136.9	1.2978E-01	1.2972E-03	1.3224E 27	1.3408E 27	-1.8530E-04	3.4433E 21	3.4433E 21	3.4433E 21	3.4433E 21	3.4433E 21
8	5	46875.5	2138.9	1.2725E-01	5.3939E-04	1.3234E 27	1.3291E 27	-2.3018E-04	3.4692E 21	3.4692E 21	3.4692E 21	3.4692E 21	3.4692E 21
5	4	46810.7	2145.4	1.3322E-01	9.1919E-03	1.2718E 27	1.3737E 27	-2.1444E-04	3.6347E 21	3.6347E 21	3.6347E 21	3.6347E 21	3.6347E 21
11	4	46800.0	2151.3	1.3628E-01	6.2399E-03	1.3107E 27	1.3737E 27	-2.1444E-04	3.6347E 21	3.6347E 21	3.6347E 21	3.6347E 21	3.6347E 21
18	7	46647.2	2153.0	1.3629E-01	7.0120E-04	1.3419E 27	1.3899E 27	-1.9147E-04	3.8542E 21	3.8542E 21	3.8542E 21	3.8542E 21	3.8542E 21
17	7	46637.0	2153.5	1.3709E-01	7.8544E-04	1.3671E 27	1.3747E 27	-1.5044E-04	3.8642E 21	3.8642E 21	3.8642E 21	3.8642E 21	3.8642E 21
20	7	46636.8	2153.2	1.3623E-01	6.4480E-05	1.3588E 27	1.3599E 27	-1.4081E-04	3.8840E 21	3.8840E 21	3.8840E 21	3.8840E 21	3.8840E 21
16	7	46629.0	2160.0	1.3651E-01	1.1062E-03	1.3455E 27	1.3555E 27	-1.4594E-04	4.0094E 21	4.0094E 21	4.0094E 21	4.0094E 21	4.0094E 21
21	7	46624.0	2162.7	1.3425E-01	7.8227E-07	1.3180E 27	1.3811E 27	-2.4688E-04	4.0740E 21	4.0740E 21	4.0740E 21	4.0740E 21	4.0740E 21
15	7	46610.5	2167.3	1.3274E-01	4.3542E-03	1.3019E 27	1.3712E 27	-1.7185E-04	4.0855E 21	4.0855E 21	4.0855E 21	4.0855E 21	4.0855E 21
14	7	46602.0	2171.0	1.3277E-01	2.0104E-04	1.2945E 27	1.2714E 27	-2.3771E-04	4.0933E 21	4.0933E 21	4.0933E 21	4.0933E 21	4.0933E 21
13	7	46585.4	2174.3	1.4394E-01	4.1718E-03	1.3045E 27	1.3434E 27	-2.2873E-04	4.1349E 21	4.1349E 21	4.1349E 21	4.1349E 21	4.1349E 21
12	7	46577.5	2181.3	1.4515E-01	2.5774E-03	1.3787E 27	1.2670E 27	-2.0447E-04	4.1619E 21	4.1619E 21	4.1619E 21	4.1619E 21	4.1619E 21
11	7	46567.2	2184.1	1.3263E-01	1.3597E-02	1.2463E 27	1.2682E 27	-2.1994E-04	4.1903E 21	4.1903E 21	4.1903E 21	4.1903E 21	4.1903E 21
10	7	46567.2	2200.3	1.4899E-01	5.2184E-05	1.7518E-03	1.2833E 27	-1.8161E 27	4.1903E 21	4.1903E 21	4.1903E 21	4.1903E 21	4.1903E 21
9	7	46567.2	2200.3	1.4899E-01	5.2184E-05	1.7518E-03	1.2833E 27	-1.8161E 27	4.1903E 21	4.1903E 21	4.1903E 21	4.1903E 21	4.1903E 21
8	7	46567.2	2200.3	1.4899E-01	5.2184E-05	1.7518E-03	1.2833E 27	-1.8161E 27	4.1903E 21	4.1903E 21	4.1903E 21	4.1903E 21	4.1903E 21
7	7	46567.2	2200.3	1.4899E-01	5.2184E-05	1.7518E-03	1.2833E 27	-1.8161E 27	4.1903E 21	4.1903E 21	4.1903E 21	4.1903E 21	4.1903E 21
6	7	46567.2	2200.3	1.4899E-01	5.2184E-05	1.7518E-03	1.2833E 27	-1.8161E 27	4.1903E 21	4.1903E 21	4.1903E 21	4.1903E 21	4.1903E 21
5	7	46567.2	2200.3	1.4899E-01	5.2184E-05	1.7518E-03	1.2833E 27	-1.8161E 27	4.1903E 21	4.1903E 21	4.1903E 21	4.1903E 21	4.1903E 21
4	7	46567.2	2200.3	1.4899E-01	5.2184E-05	1.7518E-03	1.2833E 27	-1.8161E 27	4.1903E 21	4.1903E 21	4.1903E 21	4.1903E 21	4.1903E 21
3	7	46567.2	2200.3	1.4899E-01	5.2184E-05	1.7518E-03	1.2833E 27	-1.8161E 27	4.1903E 21	4.1903E 21	4.1903E 21	4.1903E 21	4.1903E 21
2	7	46567.2	2200.3	1.4899E-01	5.2184E-05	1.7518E-03	1.2833E 27	-1.8161E 27	4.1903E 21	4.1903E 21	4.1903E 21	4.1903E 21	4.1903E 21
1	7	46567.2	2200.3	1.4899E-01	5.2184E-05	1.7518E-03	1.2833E 27	-1.8161E 27	4.1903E 21	4.1903E 21	4.1903E 21	4.1903E 21	4.1903E 21
15	10	46530.6	2220.3	1.5390E-01	4.2457E-03	1.2478E 27	1.2832E 27	-2.2726E-04	4.5507E 21	4.5507E 21	4.5507E 21	4.5507E 21	4.5507E 21
14	10	46513.8	2221.5	1.6654E-01	1.3129E-02	1.2742E 27	1.3056E 27	-1.6452E-04	4.5586E 21	4.5586E 21	4.5586E 21	4.5586E 21	4.5586E 21
13	10	46502.1	2222.1	1.6809E-01	1.8822E-03	1.3602E 27	1.3898E 27	-1.6452E-04	4.5586E 21	4.5586E 21	4.5586E 21	4.5586E 21	4.5586E 21
12	10	46490.1	2223.7	1.6736E-01	4.6584E-04	1.3010E 27	1.3898E 27	-1.7014E-04	4.6288E 21	4.6288E 21	4.6288E 21	4.6288E 21	4.6288E 21
11	10	46489.3	2227.2	1.6736E-01	1.6163E-03	1.3578E 27	1.3478E 27	-1.9378E-04	4.6709E 21	4.6709E 21	4.6709E 21	4.6709E 21	4.6709E 21
10	10	46489.3	2230.3	1.6736E-01	5.3303E-04	1.3439E 27	1.3166E 27	-2.5378E-04	4.7188E 21	4.7188E 21	4.7188E 21	4.7188E 21	4.7188E 21
9	10	46474.6	2233.9	1.6363E-01	7.0805E-06	1.3166E 27	1.3166E 27	-2.5378E-04	4.7327E 21	4.7327E 21	4.7327E 21	4.7327E 21	4.7327E 21
8	10	46474.6	2235.0	1.6363E-01	1.0117E-03	1.3166E 27	1.3166E 27	-2.5378E-04	4.7327E 21	4.7327E 21	4.7327E 21	4.7327E 21	4.7327E 21
7	10	46474.6	2235.0	1.6363E-01	1.0117E-03	1.3166E 27	1.3166E 27	-2.5378E-04	4.7327E 21	4.7327E 21	4.7327E 21	4.7327E 21	4.7327E 21
6	10	46474.6	2235.0	1.6363E-01	1.0117E-03	1.3166E 27	1.3166E 27	-2.5378E-04	4.7327E 21	4.7327E 21	4.7327E 21	4.7327E 21	4.7327E 21
5	10	46474.6	2235.0	1.6363E-01	1.0117E-03	1.3166E 27	1.3166E 27	-2.5378E-04	4.7327E 21	4.7327E 21	4.7327E 21	4.7327E 21	4.7327E 21
4	10	46474.6	2235.0	1.6363E-01	1.0117E-03	1.3166E 27	1.3166E 27	-2.5378E-04	4.7327E 21	4.7327E 21	4.7327E 21	4.7327E 21	4.7327E 21
3	10	46474.6	2235.0	1.6363E-01	1.0117E-03	1.3166E 27	1.3166E 27	-2.5378E-04	4.7327E 21	4.7327E 21	4.7327E 21	4.7327E 21	4.7327E 21
2	10	46474.6	2235.0	1.6363E-01	1.0117E-03	1.3166E 27	1.3166E 27	-2.5378E-04	4.7327E 21	4.7327E 21	4.7327E 21	4.7327E 21	4.7327E 21
1	10	46474.6	2235.0	1.6363E-01	1.0117E-03	1.3166E 27	1.3166E 27	-2.5378E-04	4.7327E 21	4.7327E 21	4.7327E 21	4.7327E 21	4.7327E 21
15	13	46425.0	2240.9	1.7250E-01	9.9333E-04	1.2833E 27	1.3234E 27	-1.8195E-04	4.8707E 21	4.8707E 21	4.8707E 21	4.8707E 21	4.8707E 21
14	13	46425.0	2240.9	1.7250E-01	9.9333E-04	1.2833E 27	1.3234E 27	-1.8195E-04	4.8707E 21	4.8707E 21	4.8707E 21	4.8707E 21	4.8707E 21
13	13	46425.0	2240.9	1.7250E-01	9.9333E-04	1.2833E 27	1.3234E 27	-1.8195E-04	4.8707E 21	4.8707E 21	4.8707E 21	4.8707E 21	4.8707E 21
12	13	46425.0	2240.9	1.7250E-01	9.9333E-04	1.2833E 27	1.3234E 27	-1.8195E-04	4.8707E 21	4.8707E 21	4.8707E 21	4.8707E 21	4.8707E 21
11	13	46425.0	2240.9	1.7250E-01	9.9333E-04	1.2833E 27	1.3234E 27	-1.8195E-04	4.8707E 21	4.8707E 21	4.8707E 21	4.8707E 21	4.8707E 21
10	13	46425.0	2240.9	1.7250E-01	9.9333E-04	1.2833E 27	1.3234E 27	-1.8195E-04	4.8707E 21	4.8707E 21	4.8707E 21	4.8707E 21	4.8707E 21
9	13	46425.0	2240.9	1.7250E-01	9.9333E-04	1.2833E 27	1.3234E 27	-1.8195E-04	4.8707E 21				

8000 °K									
V' V'	$\bar{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	$\phi_1, \text{\AA cm}^{-1}$	$\phi_2, \text{\AA cm}^{-1}$	q, cm	$f\phi^2 d\lambda \text{ cm}^{-1}$	
0 8	40373.0	2474.9	2.4463E-01	9.1649E-04	1.0554E 27	1.0554E 27	-2.7633E-24	7.6337E 21	
2 7	40366.5	2481.4	2.6174E-01	2.6992E-02	1.1211E 27	1.1211E 27	-2.6574E-24	7.6892E 21	
13 11	4021.7	2486.7	2.5491E-01	1.1278E-04	1.0862E 27	1.0862E 27	-2.0318E-24	7.7357E 21	
4 8	40163.2	2489.0	2.1854E-01	1.4953E-02	1.0660E 27	1.1271E 27	-2.9530E-24	7.7770E 21	
9 10	40091.7	2496.7	2.6420E-01	3.0056E-04	1.0909E 27	1.0909E 27	-2.2732E-24	7.8255E 21	
6 9	39942.7	2503.6	2.6181E-01	5.9399E-03	1.0390E 27	1.0632E 27	-2.4528E-24	7.9218E 21	
12 11	39912.8	2505.5	2.6039E-01	3.0118E-04	1.0513E 27	1.0525E 27	-2.1041E-24	7.9416E 21	
10 12	39669.1	2520.9	2.6681E-01	3.1734E-04	9.6056E 26	9.6056E 26	-1.7499E-24	8.0946E 21	
19 12	39639.8	2521.3	2.4710E-01	6.5244E-04	9.5810E 26	9.6141E 26	-1.6899E-24	8.1027E 21	
1 7	39630.0	2522.9	2.3707E-01	1.1192E-02	9.5498E 26	9.6688E 26	-2.7799E-24	8.2217E 21	
17 12	39621.7	2523.9	2.5820E-01	3.6049E-04	9.6122E 26	9.6122E 26	-1.8123E-24	8.1257E 21	
8 10	39620.6	2523.9	2.5888E-01	7.6787E-04	9.6083E 26	9.6372E 26	-2.3504E-24	8.1264E 21	
20 12	39618.7	2526.0	2.5630E-01	1.2649E-03	9.6180E 26	9.6666E 26	-1.6303E-24	8.1465E 21	
11 11	39566.7	2527.4	2.5723E-01	2.1858E-03	9.7853E 26	9.6491E 26	-2.1792E-24	8.1603E 21	
3 8	39545.0	2528.8	2.6428E-01	2.8322E-02	9.7885E 26	1.0872E 27	-2.6441E-24	8.1739E 21	
16 12	39514.6	2530.4	2.6207E-01	2.6846E-04	1.0774E 27	1.0775E 27	-1.0779E-24	8.1720E 21	
21 12	39496.3	2534.4	2.6023E-01	1.3934E-03	1.0521E 27	1.0573E 27	-1.5757E-24	8.2397E 21	
5 9	39379.0	2539.4	2.7407E-01	7.6384E-04	1.0266E 27	1.0295E 27	-2.5392E-24	8.2846E 21	
15 12	39362.9	2540.5	2.7633E-01	1.2705E-03	1.0232E 27	1.0279E 27	-1.9448E-24	8.2972E 21	
18 11	39176.7	2552.4	2.6964E-01	4.7217E-03	9.5812E 26	9.7810E 26	-2.2937E-24	8.4157E 21	
10 12	39156.0	2553.9	2.7074E-01	2.4844E-03	9.6480E 26	9.7575E 26	-2.0147E-24	8.4301E 21	
7 10	39120.4	2556.2	2.7410E-01	5.5597E-03	9.6259E 26	9.8251E 26	-2.4332E-24	8.5976E 21	
4 9	39093.4	2567.2	2.4483E-01	1.7362E-04	9.6259E 26	9.8251E 26	-2.4332E-24	8.5976E 21	
2 8	39092.8	2570.5	2.6709E-01	3.3343E-02	9.6142E 26	1.0209E 27	-2.7381E-24	8.5877E 21	
13 12	39090.5	2570.7	2.9988E-01	2.9542E-03	1.0289E 27	1.0392E 27	-2.0873E-24	8.5893E 21	
12 12	39087.9	2576.2	2.9905E-01	2.4800E-03	1.0002E 27	1.0002E 27	-1.6599E-24	8.6399E 21	
9 11	39071.1	2580.4	2.9733E-01	5.2794E-03	9.6891E 26	1.0048E 27	-2.5395E-24	8.6896E 21	
12 12	38959.4	2590.8	2.8891E-01	1.9903E-03	9.4882E 26	9.5540E 26	-2.1827E-24	8.7893E 21	
8 10	38957.4	2591.5	2.9935E-01	1.1200E-02	9.5125E 26	9.4882E 26	-2.5256E-24	8.7946E 21	
10 13	38957.4	2591.5	2.9935E-01	1.1200E-02	9.5125E 26	9.4882E 26	-2.5256E-24	8.7946E 21	
19 13	38946.7	2606.4	2.8694E-01	1.1135E-03	9.1135E 26	9.1495E 26	-1.7314E-24	8.9398E 21	
17 13	38927.5	2609.1	2.8628E-01	1.8121E-03	9.0178E 26	9.1495E 26	-1.6595E-24	8.9618E 21	
20 13	38924.5	2611.3	2.8572E-01	4.8702E-03	8.9952E 26	9.1752E 26	-1.8704E-24	9.0112E 21	
8 11	38924.0	2611.9	2.8851E-01	2.4981E-03	8.9446E 26	9.0236E 26	-2.4230E-24	9.0873E 21	
11 12	38922.5	2611.2	2.8663E-01	3.5001E-04	8.9604E 26	9.0173E 26	-2.2611E-24	9.0708E 21	
1 8	38917.0	2611.0	2.6114E-01	2.3210E-02	8.9716E 26	9.0173E 26	-2.8382E-24	9.0708E 21	
16 13	38922.7	2614.1	3.0770E-01	1.2488E-03	9.5591E 26	9.5993E 26	-1.9272E-24	9.0294E 21	
3 9	38916.8	2620.0	3.2192E-01	1.8277E-02	9.3887E 26	9.6532E 26	-2.7292E-24	9.0619E 21	
21 13	38912.2	2620.2	3.2761E-01	8.7261E-03	9.2161E 26	9.3319E 26	-2.1649E-24	9.0201E 21	
15 13	38909.8	2624.8	3.1483E-01	4.0193E-04	9.5704E 26	9.6282E 26	-1.9974E-24	9.0720E 21	
10 13	38902.7	2629.9	3.2144E-01	9.9941E-03	9.4432E 26	9.7153E 26	-2.6188E-24	9.1595E 21	
12 12	38901.0	2631.0	3.0740E-01	3.0740E-04	9.1084E 26	9.1320E 26	-2.0272E-24	9.1611E 21	
14 13	38914.9	2641.2	3.0949E-01	1.7404E-05	9.1225E 26	9.1225E 26	-2.0702E-24	9.2643E 21	
7 11	38918.9	2646.5	3.0412E-01	8.8887E-08	8.8515E 26	8.8515E 26	-2.5110E-24	9.3120E 21	
13 13	38906.8	2659.1	3.2736E-01	9.8643E-03	9.2364E 26	9.2364E 26	-2.1404E-24	9.4618E 21	
0 8	38959.9	2662.7	2.9699E-01	6.0594E-03	8.1053E 26	8.1314E 26	-2.9385E-24	9.4492E 21	
2 9	38926.5	2664.8	3.3355E-01	3.8508E-02	8.2340E 26	9.3034E 26	-2.8239E-24	9.4583E 21	
9 12	38919.3	2671.1	3.3951E-01	3.6951E-03	8.2375E 26	8.2375E 26	-2.5075E-24	9.5295E 21	
4 10	38914.4	2671.5	3.3119E-01	1.8795E-03	9.0591E 26	9.1097E 26	-2.7120E-24	9.5282E 21	
12 13	38910.4	2680.4	3.2407E-01	3.0240E-03	8.6523E 26	8.7388E 26	-2.2247E-24	9.6091E 21	
17 11	38911.1	2681.2	3.2415E-01	2.9797E-03	8.6523E 26	8.6523E 26	-2.2247E-24	9.6091E 21	
18 14	38910.5	2693.4	3.1247E-01	4.9658E-06	8.1487E 26	8.1487E 26	-1.8498E-24	9.7339E 21	
19 14	38909.3	2696.1	3.1190E-01	2.0780E-04	8.1149E 26	8.1233E 26	-1.7760E-24	9.7399E 21	
17 14	38910.5	2696.1	3.1190E-01	2.0780E-04	8.1149E 26	8.1233E 26	-1.7760E-24	9.7399E 21	
20 14	38902.1	2701.2	3.0778E-01	7.1642E-04	7.9035E 26	7.9220E 26	-1.7129E-24	9.7806E 21	
8 12	38917.8	2704.8	3.1148E-01	7.3188E-03	7.7684E 26	7.9535E 26	-2.6492E-24	9.8032E 21	
15 13	38910.5	2706.3	3.0740E-01	3.0740E-04	9.1084E 26	9.1320E 26	-2.0272E-24	9.2643E 21	
16 14	38905.3	2706.3	3.1547E-01	1.4598E-03	7.9195E 26	8.0291E 26	-1.9797E-24	9.8720E 21	
21 14	38887.7	2710.9	3.1187E-01	1.1646E-03	8.6274E 26	8.6371E 26	-1.6520E-24	9.8574E 21	
9 10	38906.8	2714.2	3.0187E-01	4.0187E-03	8.1053E 26	8.1822E 26	-2.9270E-24	9.8712E 21	
3 10	38813.3	2714.4	3.4941E-01	3.5154E-03	8.6093E 26	8.6908E 26	-2.8114E-24	9.9034E 21	
15 14	38794.3	2717.8	3.5016E-01	2.4011E-03	8.6290E 26	8.6486E 26	-2.0529E-24	9.9156E 21	
5 11	38689.1	2725.4	3.5484E-01	1.3744E-02	8.3202E 26	8.6553E 26	-2.6986E-24	9.9819E 21	
14 14	38687.1	2733.2	3.4831E-01	2.3219E-03	8.2945E 26	8.6553E 26	-2.1289E-24	1.0024E 22	
10 13	38670.3	2734.5	3.4943E-01	2.5998E-03	8.2944E 26	8.5886E 26	-2.3921E-24	1.0057E 22	
7 12	38671.6	2741.9	3.4473E-01	5.7698E-03	8.0247E 26	8.1805E 26	-2.5885E-24	1.0117E 22	
13 14	38671.6	2742.0	3.5919E-01	1.0310E-03	7.7202E 26	7.7202E 26	-2.0903E-24	1.0201E 22	
0 9	38617.6	2744.0	3.4183E-01	1.8383E-02	7.2540E 26	7.4666E 26	-3.0348E-24	1.0286E 22	
2 10	38617.2	2744.0	3.7029E-01	2.9150E-02	7.6399E 26	8.2924E 26	-2.9152E-24	1.0293E 22	
6 13	38617.7	2746.4	3.7110E-01	1.3100E-04	8.1364E 26	8.1364E 26	-2.0111E-24	1.0311E 22	
4 11	38697.0	2770.5	3.7732E-01	1.3895E-02	8.0404E 26	8.1473E 26	-2.7986E-24	1.0319E 22	
12 14	38630.0	2770.5	3.7092E-01	1.8549E-06	8.1145E 26	8.1145E 26	-2.2904E-24	1.0381E 22	
15 12	38630.0	2770.5	3.6289E-01	4.7487E-04	7.8077E 26	7.8077E 26	-2.4849E-24	1.0438E 22	
18 15	38645.5	2789.8	3.5599E-01	1.6553E-03	7.5166E 26	7.5171E 26	-1.8911E-24	1.0493E 22	
19 15	38635.2	2790.6	3.5666E-01	1.5992E-03	7.5191E 26	7.5330E 26	-1.8231E-24	1.0499E 22	
15 15	38635.2	2790.6	3.5666E-01	1.5992E-03	7.5191E 26	7.5330E 26	-1.8231E-24	1.0499E 22	
20 15	38645.0	2796.0	3.5249E-01	1.0863E-03	7.3544E 26	7.3771E 26	-1.7575E-24	1.0504E 22	
16 15	38695.3	2801.5	3.4654E-01	2.3714E-04	7.1634E 26	7.1635E 26	-2.0352E-24	1.0508E 22	
11 14	38683.9	2802.4	3.4491E-01	1.3692E-03	7.1340E 26	7.1623E 26	-2.1742E-24	1.0586E 22	
8 13	38677.7	2802.9	3.4834E-01	1.9780E-03	7.1435E 26	7.1843E 26	-2.5739E-24	1.0589E 22	
21 15	38632.7	2806.4	3.4685E-01	4.5549E-04	7.0494E 26	7.0587E 26	-1.6942E-24	1.0615E 22	
15 15	38635.2	2813.8	3.5188E-01	6.4953E-05	6.7859E 26	6.7859E 26	-2.1115E-24	1.0686E 22	
1 10	38607.5	2814.3	3.8784E-01	5.3670E-02	6.6971E 26	7.7272E 26	-3.0283E-24	1.0683E 22	
3 11	38676.7	2818.6	3.6858E-01	1.6263E-03	7.6757E 26	7.7099E 26	-2.9032E-24	1.0700E 22	
5 12	38674.9	2826.9	3.6030E-01	4.0208E-03	7.5737E 26	7.6529E 26	-2.7856E-24	1.0763E 22	
14 15	38632.4	2830.3	3.7740E-01	1.2762E-03	7.3177E 26	7.3425E 26	-2.1910E-24	1.0780E 22	
10 14	38625.9	2833.2	3.7852E-01	4.6747E-03	7.2283E 26	7.3186E 26	-2.4557E-24	1.0809E 22	
7 13	38617.5	2862.7	3.7548E-01	8.4159E-03	6.9555E 26	7.1150E 26	-2.6709E-24	1.0877E 22	
13 15	38676.9	2850.9	3.6886E-01	3.0573E-03	6.8135E 26	6.8745E 26	-2.2789E-24	1.0934E 22	
9 14	38666.3	2867.9	3.6493E-01	5.4683E-03	6.2802E 26	6.3785E 26	-2.5891E-24	1.1046E 22	
2 11	38630.6	2870.5	3.6228E-01	1.0251E-02	6.2921E 26	6.4754E 26	-3.0126E-24	1.1083E 22	
0 10	38624.3	2871.6	3.6881E-01	3.6881E-03	6.4410E 26	7.0775E 26	-3.1376E-24	1.1049E 22	
4 12									

8000 °K

v'	v''	$\tilde{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	ϕ_1, cm^{-1}	ϕ_2, cm^{-1}	a, cm	$f\phi \tilde{\nu} d\lambda \text{ cm}^{-5}$
11	16	33192.9	3012.7	4.2287E-01	4.5363E-03	5.5950E 26	5.5556E 26	-2.5283E-04	1.1952E 22
21	17	33123.5	3023.9	4.2322E-01	8.9529E-04	5.6221E 26	5.5931E 26	-1.7845E-04	1.1979E 22
3	15	33144.2	3016.8	4.2847E-01	7.8911E-03	5.5531E 26	5.5578E 26	-2.7440E-04	1.1979E 22
15	17	33086.1	3022.4	4.2042E-01	1.1889E-03	5.5455E 26	5.5515E 26	-2.2304E-04	1.2007E 22
14	17	32941.4	3040.2	4.0000E-01	2.8447E-03	5.5174E 26	5.5934E 26	-2.3267E-04	1.2107E 22
9	13	32870.4	3042.3	4.2517E-01	2.6147E-02	5.5030E 26	5.5628E 26	-1.1040E-04	1.2111E 22
1	12	32858.7	3043.3	4.6180E-01	3.8004E-02	5.5312E 26	5.5312E 26	-3.2114E-04	1.2117E 22
10	14	32806.3	3048.2	4.6751E-01	1.2448E-02	5.4729E 26	5.5826E 26	-2.9775E-04	1.2144E 22
3	16	32806.3	3048.3	4.7124E-01	3.8767E-03	5.5249E 26	5.5873E 26	-2.6274E-04	1.2145E 22
7	15	32644.0	3067.0	4.5473E-01	3.8052E-03	5.5407E 26	5.5058E 26	-2.8523E-04	1.2221E 22
13	17	32623.7	3065.3	4.2545E-01	2.8976E-03	5.5448E 26	5.4708E 26	-2.4177E-04	1.2241E 22
9	16	32377.3	3081.6	4.2451E-01	3.0870E-04	4.8807E 26	4.8802E 26	-2.7308E-04	1.2361E 22
12	17	32321.7	3093.9	4.1880E-01	6.3989E-04	4.7555E 26	4.7511E 26	-2.5128E-04	1.2387E 22
2	13	32228.3	3102.9	4.1945E-01	1.1456E-02	4.5717E 26	4.7001E 26	-3.2281E-04	1.2429E 22
1	14	32214.2	3104.2	4.1843E-01	6.3140E-04	4.6592E 26	4.6753E 26	-3.0951E-04	1.2435E 22
18	18	32193.5	3106.2	4.1712E-01	1.1249E-03	4.6313E 26	4.6438E 26	-2.0578E-04	1.2495E 22
19	18	32183.2	3107.2	4.1615E-01	2.2637E-04	4.6216E 26	4.6241E 26	-1.9804E-04	1.2549E 22
0	12	32179.5	3106.0	5.0022E-01	8.5036E-02	4.6076E 26	4.6511E 26	-3.3655E-04	1.2553E 22
17	18	32146.0	3110.8	4.9810E-01	2.0718E-03	5.4736E 26	5.4965E 26	-2.1381E-04	1.2468E 22
6	15	32114.9	3113.8	4.9619E-01	5.5537E-02	5.4156E 26	5.4170E 26	-1.9081E-04	1.2486E 22
20	18	32043.2	3120.8	4.8608E-01	2.0262E-03	5.2398E 26	5.2617E 26	-2.2227E-04	1.2522E 22
21	18	31980.7	3126.9	4.7779E-01	4.2192E-04	5.1071E 26	5.1117E 26	-1.6348E-04	1.2554E 22
11	17	31975.6	3127.4	4.7736E-01	2.9404E-04	5.0946E 26	5.1026E 26	-2.6123E-04	1.2556E 22
8	16	31912.2	3133.6	4.7142E-01	2.6936E-03	4.9506E 26	4.9790E 26	-2.8392E-04	1.2587E 22
15	18	31887.3	3136.0	4.6882E-01	7.9342E-04	4.9201E 26	4.9285E 26	-2.3094E-04	1.2599E 22
14	18	31800.4	3150.5	4.6168E-01	1.1308E-05	4.651E 26	4.653E 26	-2.4011E-04	1.2604E 22
3	14	31595.9	3165.0	4.6244E-01	1.5179E-02	4.2887E 26	4.4337E 26	-2.2185E-04	1.2732E 22
10	17	31587.7	3165.8	4.4938E-01	4.1892E-03	4.4221E 26	4.4637E 26	-2.7164E-04	1.2746E 22
1	13	31564.5	3168.1	4.5888E-01	1.3519E-02	4.3482E 26	4.3511E 26	-2.6357E-04	1.2755E 22
1	15	31519.2	3175.4	4.5157E-01	1.3450E-02	4.5191E 26	4.6521E 26	-2.3819E-04	1.2772E 22
13	19	31424.9	3182.2	4.5618E-01	1.6259E-03	4.3775E 26	4.3932E 26	-2.4988E-04	1.2816E 22
7	16	31412.0	3183.5	4.5673E-01	1.0273E-02	4.4456E 26	4.4533E 26	-2.9330E-04	1.2816E 22
17	17	31395.2	3185.2	4.1850E-01	6.5592E-03	3.9538E 26	4.0138E 26	-2.8255E-04	1.2824E 22
12	18	31122.9	3213.1	4.1739E-01	4.1739E-03	3.9426E 26	3.9825E 26	-2.5969E-04	1.2839E 22
18	19	31072.7	3224.3	4.2473E-01	5.0123E-04	3.7788E 26	3.7788E 26	-2.1190E-04	1.2839E 22
19	19	31055.3	3225.4	4.2444E-01	1.3641E-03	3.7601E 26	3.7723E 26	-2.0393E-04	1.2839E 22
4	15	30995.3	3229.4	4.2031E-01	2.0389E-06	3.7092E 26	3.7092E 26	-2.2042E-04	1.3002E 22
4	15	30959.1	3230.1	4.3383E-01	1.4237E-02	3.6801E 26	3.6801E 26	-2.2042E-04	1.3002E 22
2	14	30953.8	3230.1	4.4647E-01	3.3101E-02	3.6102E 26	3.6102E 26	-2.2042E-04	1.3002E 22
20	19	30932.3	3232.9	4.6520E-01	1.6682E-03	4.0002E 26	4.0748E 26	-1.9514E-04	1.3016E 22
0	13	30881.4	3238.2	5.0352E-01	1.0520E-01	3.9751E 26	4.0875E 26	-3.4924E-04	1.3037E 22
6	16	30879.0	3238.4	5.0352E-01	1.0520E-01	3.9751E 26	4.0875E 26	-3.4924E-04	1.3037E 22
14	19	30862.9	3240.9	5.0352E-01	1.0520E-01	3.9751E 26	4.0875E 26	-3.4924E-04	1.3037E 22
21	19	30799.9	3246.8	5.0352E-01	1.0520E-01	3.9751E 26	4.0875E 26	-3.4924E-04	1.3037E 22
11	18	30776.8	3249.2	5.0352E-01	1.0520E-01	3.9751E 26	4.0875E 26	-3.4924E-04	1.3037E 22
15	19	30755.5	3249.2	5.0352E-01	1.0520E-01	3.9751E 26	4.0875E 26	-3.4924E-04	1.3037E 22
8	17	30695.0	3257.9	5.0352E-01	1.0520E-01	3.9751E 26	4.0875E 26	-3.4924E-04	1.3037E 22
14	19	30499.7	3276.7	5.0352E-01	1.0520E-01	3.9751E 26	4.0875E 26	-3.4924E-04	1.3037E 22
11	18	30499.7	3276.7	5.0352E-01	1.0520E-01	3.9751E 26	4.0875E 26	-3.4924E-04	1.3037E 22
3	15	30340.9	3295.9	4.9918E-01	3.5029E-04	3.8980E 26	3.8980E 26	-2.2922E-04	1.3047E 22
5	16	30315.3	3296.7	4.9279E-01	1.4191E-03	3.8205E 26	3.8205E 26	-2.2922E-04	1.3047E 22
10	16	30290.1	3301.4	4.9136E-01	6.5057E-04	3.7772E 26	3.7772E 26	-2.2922E-04	1.3047E 22
13	19	30244.1	3306.4	4.8336E-01	6.4594E-04	3.6921E 26	3.6921E 26	-2.2922E-04	1.3047E 22
7	17	30194.8	3311.0	4.7869E-01	2.4382E-03	3.6499E 26	3.6499E 26	-2.2922E-04	1.3047E 22
9	18	29961.2	3337.4	4.4948E-01	3.1356E-03	3.2200E 26	3.2200E 26	-2.2922E-04	1.3047E 22
12	19	29924.2	3339.0	4.4724E-01	2.1844E-04	3.2200E 26	3.2200E 26	-2.2922E-04	1.3047E 22
18	20	29840.7	3350.1	4.3681E-01	1.7954E-03	3.0741E 26	3.0741E 26	-2.2922E-04	1.3047E 22
19	20	29839.5	3350.1	4.3681E-01	1.7954E-03	3.0741E 26	3.0741E 26	-2.2922E-04	1.3047E 22
17	20	29802.3	3354.4	4.3535E-01	2.1819E-03	3.0741E 26	3.0741E 26	-2.2922E-04	1.3047E 22
20	20	29749.3	3359.2	4.2911E-01	3.5528E-05	2.9878E 26	2.9880E 26	-2.0203E-04	1.3505E 22
4	16	29723.2	3364.4	4.4510E-01	2.1674E-02	2.9398E 26	2.9398E 26	-2.0203E-04	1.3505E 22
16	21	29676.5	3366.5	4.1166E-01	1.1166E-03	3.0306E 26	3.0306E 26	-2.3669E-04	1.3529E 22
2	15	29676.8	3367.1	4.8214E-01	3.9118E-02	3.0399E 26	3.0399E 26	-2.3669E-04	1.3529E 22
6	17	29661.7	3371.3	4.9051E-01	1.3768E-02	3.2669E 26	3.2669E 26	-1.8744E-04	1.3534E 22
21	20	29637.0	3373.6	4.8701E-01	1.7707E-02	3.2669E 26	3.2669E 26	-1.8744E-04	1.3534E 22
0	14	29604.9	3377.6	5.0519E-01	1.1261E-01	3.2503E 26	3.2503E 26	-2.6929E-04	1.3563E 22
11	19	29596.1	3378.8	5.0700E-01	3.8444E-03	3.1984E 26	3.1984E 26	-2.6929E-04	1.3563E 22
15	20	29543.6	3384.6	5.0363E-01	2.0092E-03	3.0094E 26	3.0094E 26	-2.7975E-04	1.3592E 22
8	18	29506.2	3397.4	4.9746E-01	1.1110E-03	3.0094E 26	3.0094E 26	-2.7975E-04	1.3592E 22
14	20	29336.7	3408.7	5.0000E-01	1.1091E-03	3.0094E 26	3.0094E 26	-2.7975E-04	1.3592E 22
10	19	29208.1	3423.7	5.0363E-01	1.1091E-03	3.0094E 26	3.0094E 26	-2.7975E-04	1.3592E 22
3	16	29191.9	3435.9	5.0363E-01	1.1091E-03	3.0094E 26	3.0094E 26	-2.7975E-04	1.3592E 22
5	17	29098.0	3436.7	5.3942E-01	5.3171E-03	3.2420E 26	3.2420E 26	-3.3210E-04	1.3776E 22
13	20	29081.1	3438.7	5.4033E-01	3.7568E-03	3.2420E 26	3.2420E 26	-3.3210E-04	1.3776E 22
16	18	29045.0	3444.1	5.4033E-01	1.1093E-02	3.2420E 26	3.2420E 26	-3.3210E-04	1.3776E 22
7	18	28996.0	3448.8	5.4054E-01	2.6841E-03	3.1906E 26	3.1906E 26	-3.6231E-04	1.3800E 22
9	19	28980.5	3474.6	5.0613E-01	1.0157E-03	3.1906E 26	3.1906E 26	-3.6231E-04	1.3800E 22
12	20	28974.7	3474.7	5.0613E-01	1.0157E-03	3.1906E 26	3.1906E 26	-3.6231E-04	1.3800E 22
21	21	28704.2	3483.8	4.9753E-01	9.4977E-05	2.7824E 26	2.7824E 26	-2.2563E-04	1.3919E 22
19	21	28693.9	3485.1	4.9690E-01	9.6379E-04	2.7824E 26	2.7824E 26	-2.2563E-04	1.3919E 22
17	21	28656.8	3486.3	4.9690E-01	9.6379E-04	2.7824E 26	2.7824E 26	-2.2563E-04	1.3919E 22
0	21	28623.0	3493.9	4.9111E-01	1.7255E-03	2.6754E 26	2.6754E 26	-2.0833E-04	1.3946E 22
16	21	28554.0	3502.1	4.7955E-01	1.9890E-03	2.5884E 26	2.5884E 26	-2.4467E-04	1.3946E 22
4	17	28505.9	3508.0	4.7995E-01	5.3382E-03	2.5792E 26	2.5792E 26	-2.4467E-04	1.3946E 22
21	21	28491.4	3509.8	4.7913E-01	1.5588E-03	2.5537E 26	2.5537E 26	-2.0008E-04	1.3988E 22
2	16	28462.8	3513.4	4.9558E-01	2.0517E-02	2.5259E 26	2.5259E 26	-3.6173E-04	1.3988E 22
6	18	28462.9	3513.3	4.9972E-01	4.2092E-03	2.5259E 26	2.5259E 26	-3.6173E-04	1.3988E 22
11	20	28433.1	3517.0	4.9523E-01	1.7093E-04	2.6158E 26	2.6158E 26	-2.9004E-04	1.4007E 22
15	21	28398.0	3521.4	4.9280E-01	3.0109E-03	2.5880E 26	2.5880E 26	-2.7487E-04	1.4018E 22
0	15	28351.9	3527.1	5.0050E-01	1.0034E-01	3.0045E 26	3.1771E 26	-1.4033E-04	1.4033E 22
1	16	28315.4	3531.9	5.0622E-01	3.1223E-03	3.0052E 26	3.0213E 26	-3.1655E-04	1.4047E 22
14	21	28191.1	3547.2	5.0449E-01	1.4780E-03	2.8261E 26	2.8335E 26	-2.6558E-04	1.4092E 22
10	20	28045.1	3565.7	5.4129E-01					

SPECTRAL DISTRIBUTION FUNCTION AND RELATED PARAMETERS, O₂ SCHUMANN-RUNGE

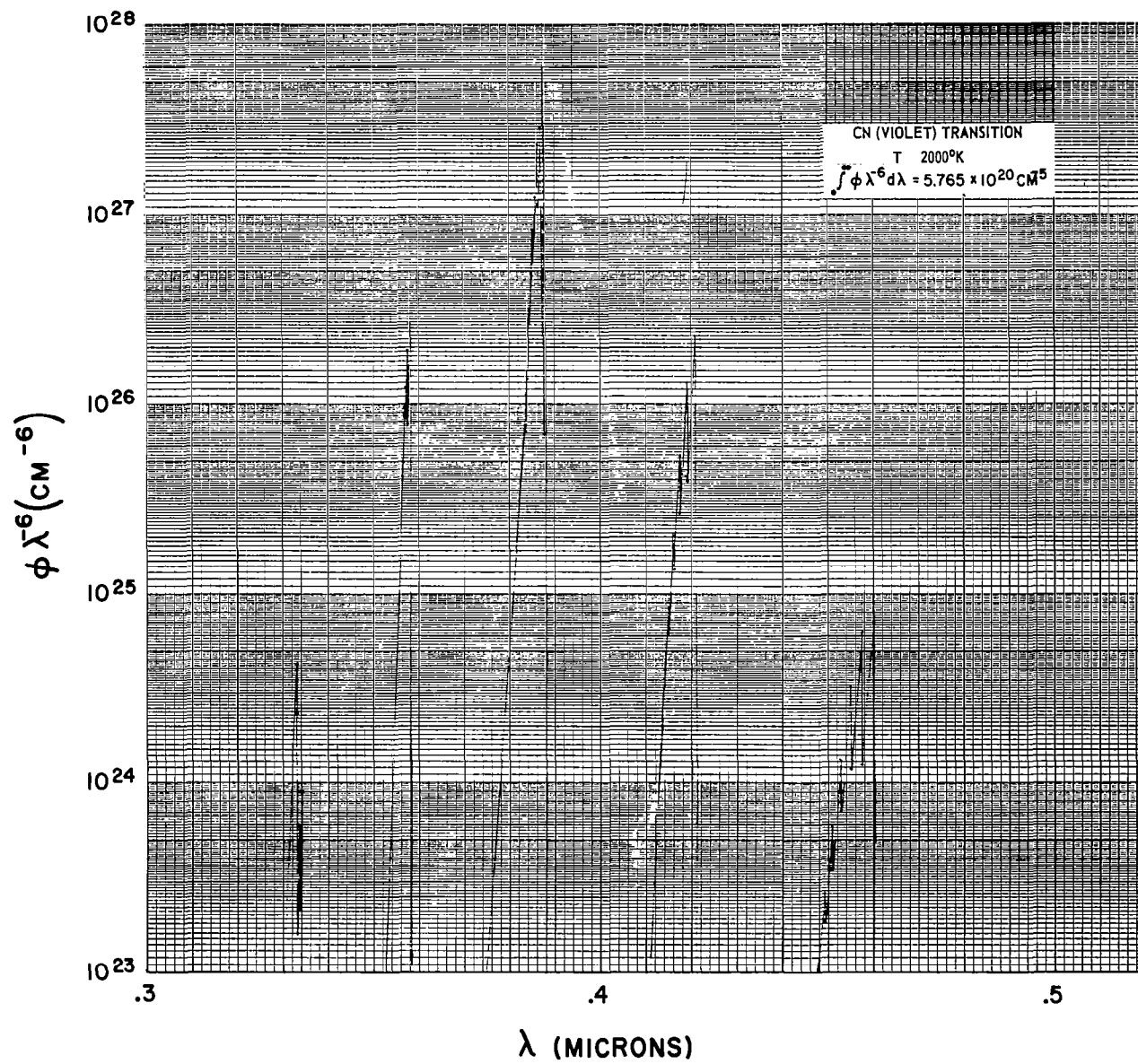
11000°K

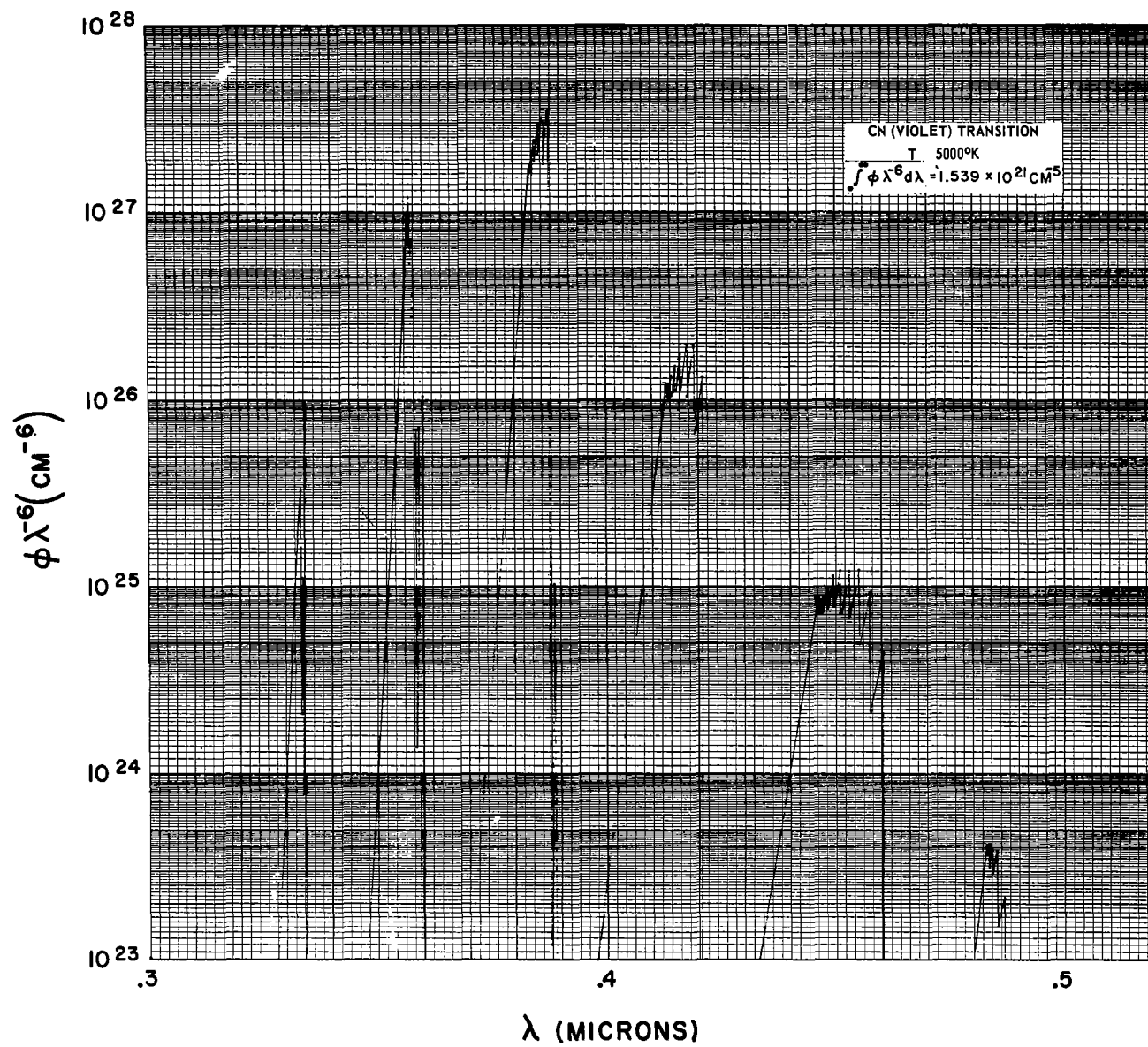
V' V''	λ, cm^{-1}	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	ϕ_1	$\bar{\nu}, \text{cm}^{-1}$	$\phi_2 \bar{\nu}, \text{cm}^{-1}$	a, cm	$\int \phi \bar{\nu}^2 d\lambda \text{ cm}^{-5}$
18 0	5686.7	1759.8	4.0124E-04	4.0125E-04	0.	1.375E 25	-1.7717E-05	0.	
19 0	5686.6	1759.1	4.0687E-04	4.0687E-04	1.1576E 25	2.9271E 25	-2.2417E-05	4.7298E 16	
17 0	5689.3	1760.3	1.7071E-03	3.3940E-04	2.0029E 25	4.6041E 25	-1.0135E-04	3.7839E 17	
20 0	5676.2	1761.3	1.7384E-03	5.3405E-04	4.2107E 25	5.8110E 25	-1.1056E-04	7.0135E 17	
16 0	5670.5	1763.5	2.0048E-03	2.0102E-04	5.1273E 25	6.6411E 25	-1.0429E-04	1.4624E 18	
21 0	5643.9	1765.4	2.5920E-03	6.0803E-04	4.5002E 25	9.5537E 25	-1.2031E-04	4.3371E 18	
15 0	5655.5	1768.3	2.1652E-03	2.0845E-04	8.2411E 25	9.1114E 25	-1.2746E-04	5.6120E 18	
14 0	5643.0	1774.6	2.1216E-03	1.2061E-04	8.7931E 25	4.3311E 25	-1.1647E-04	1.1644E 19	
13 0	5608.1	1782.9	2.7944E-03	1.3851E-04	1.4974E 25	9.3258E 25	-1.1117E-04	1.9029E 19	
12 0	5578.1	1792.6	3.0118E-03	1.0220E-04	1.7666E 25	9.0780E 25	-1.1174E-04	2.7157E 19	
11 0	5544.1	1801.7	2.9819E-03	7.3033E-05	8.6521E 25	8.6641E 25	-1.2315E-04	3.7861E 19	
10 0	5530.3	1809.3	2.0347E-03	2.0071E-03	1.4140E 25	1.4441E 25	-1.0734E-04	4.1456E 19	
19 1	5620.0	1809.4	7.2577E-03	1.4380E-03	1.4380E 26	2.0724E 26	-1.6707E-03	4.1937E 19	
17 1	5529.9	1809.9	9.1793E-03	1.9417E-03	2.0575E 26	2.6107E 26	-1.6107E-04	4.4644E 19	
20 1	5521.9	1810.9	1.1474E-03	2.2791E-03	2.2791E 26	3.2791E 26	-1.3707E-03	4.7268E 19	
16 1	5515.1	1813.7	1.3166E-02	1.7730E-03	2.7065E 26	3.7065E 26	-1.1111E-04	5.4665E 19	
21 1	5508.7	1816.3	1.5672E-03	2.4121E-03	3.6566E 26	4.6566E 26	-1.5747E-03	6.2284E 19	
10 0	5502.1	1819.5	1.5593E-03	4.2059E-05	4.2059E 26	4.1708E 26	-1.2714E-04	6.6399E 19	
15 1	5499.4	1818.4	1.6782E-03	5.5719E-03	4.7615E 26	4.7477E 26	-1.0717E-04	7.3496E 19	
14 1	5478.7	1829.7	1.7706E-03	1.1815E-03	4.6993E 26	4.6077E 26	-1.1346E-04	1.1706E 20	
13 1	5462.1	1837.7	1.6782E-03	1.1815E-03	4.6993E 26	4.6077E 26	-1.1346E-04	1.1706E 20	
12 1	5453.1	1833.0	1.6782E-03	1.1815E-03	4.6993E 26	4.6077E 26	-1.1346E-04	1.1706E 20	
11 1	5429.8	1866.0	1.9112E-03	4.0117E-04	4.2201E 26	4.1172E 26	-1.7111E-04	1.7637E 20	
10 1	5429.8	1866.0	1.9112E-03	4.0117E-04	4.2201E 26	4.1172E 26	-1.7111E-04	1.7637E 20	
11 1	5429.8	1866.0	1.9112E-03	4.0117E-04	4.2201E 26	4.1172E 26	-1.7111E-04	1.7637E 20	
12 1	5429.8	1866.0	1.9112E-03	4.0117E-04	4.2201E 26	4.1172E 26	-1.7111E-04	1.7637E 20	
13 1	5429.8	1866.0	1.9112E-03	4.0117E-04	4.2201E 26	4.1172E 26	-1.7111E-04	1.7637E 20	
14 1	5429.8	1866.0	1.9112E-03	4.0117E-04	4.2201E 26	4.1172E 26	-1.7111E-04	1.7637E 20	
15 1	5429.8	1866.0	1.9112E-03	4.0117E-04	4.2201E 26	4.1172E 26	-1.7111E-04	1.7637E 20	
16 1	5429.8	1866.0	1.9112E-03	4.0117E-04	4.2201E 26	4.1172E 26	-1.7111E-04	1.7637E 20	
17 1	5429.8	1866.0	1.9112E-03	4.0117E-04	4.2201E 26	4.1172E 26	-1.7111E-04	1.7637E 20	
18 1	5429.8	1866.0	1.9112E-03	4.0117E-04	4.2201E 26	4.1172E 26	-1.7111E-04	1.7637E 20	
19 1	5429.8	1866.0	1.9112E-03	4.0117E-04	4.2201E 26	4.1172E 26	-1.7111E-04	1.7637E 20	
20 1	5429.8	1866.0	1.9112E-03	4.0117E-04	4.2201E 26	4.1172E 26	-1.7111E-04	1.7637E 20	
21 1	5429.8	1866.0	1.9112E-03	4.0117E-04	4.2201E 26	4.1172E 26	-1.7111E-04	1.7637E 20	
10 2	5417.7	1867.7	2.5472E-03	1.3107E-03	1.3107E 26	1.3107E 26	-1.3107E-03	3.2500E 20	
11 2	5417.7	1867.7	2.5472E-03	1.3107E-03	1.3107E 26	1.3107E 26	-1.3107E-03	3.2500E 20	
12 2	5417.7	1867.7	2.5472E-03	1.3107E-03	1.3107E 26	1.3107E 26	-1.3107E-03	3.2500E 20	
13 2	5417.7	1867.7	2.5472E-03	1.3107E-03	1.3107E 26	1.3107E 26	-1.3107E-03	3.2500E 20	
14 2	5417.7	1867.7	2.5472E-03	1.3107E-03	1.3107E 26	1.3107E 26	-1.3107E-03	3.2500E 20	
15 2	5417.7	1867.7	2.5472E-03	1.3107E-03	1.3107E 26	1.3107E 26	-1.3107E-03	3.2500E 20	
16 2	5417.7	1867.7	2.5472E-03	1.3107E-03	1.3107E 26	1.3107E 26	-1.3107E-03	3.2500E 20	
17 2	5417.7	1867.7	2.5472E-03	1.3107E-03	1.3107E 26	1.3107E 26	-1.3107E-03	3.2500E 20	
18 2	5417.7	1867.7	2.5472E-03	1.3107E-03	1.3107E 26	1.3107E 26	-1.3107E-03	3.2500E 20	
19 2	5417.7	1867.7	2.5472E-03	1.3107E-03	1.3107E 26	1.3107E 26	-1.3107E-03	3.2500E 20	
20 2	5417.7	1867.7	2.5472E-03	1.3107E-03	1.3107E 26	1.3107E 26	-1.3107E-03	3.2500E 20	
21 2	5417.7	1867.7	2.5472E-03	1.3107E-03	1.3107E 26	1.3107E 26	-1.3107E-03	3.2500E 20	
10 3	5415.1	1870.5	4.1151E-03	1.2791E-03	1.2791E 26	1.2791E 26	-1.2791E-03	3.5000E 20	
11 3	5415.1	1870.5	4.1151E-03	1.2791E-03	1.2791E 26	1.2791E 26	-1.2791E-03	3.5000E 20	
12 3	5415.1	1870.5	4.1151E-03	1.2791E-03	1.2791E 26	1.2791E 26	-1.2791E-03	3.5000E 20	
13 3	5415.1	1870.5	4.1151E-03	1.2791E-03	1.2791E 26	1.2791E 26	-1.2791E-03	3.5000E 20	
14 3	5415.1	1870.5	4.1151E-03	1.2791E-03	1.2791E 26	1.2791E 26	-1.2791E-03	3.5000E 20	
15 3	5415.1	1870.5	4.1151E-03	1.2791E-03	1.2791E 26	1.2791E 26	-1.2791E-03	3.5000E 20	
16 3	5415.1	1870.5	4.1151E-03	1.2791E-03	1.2791E 26	1.2791E 26	-1.2791E-03	3.5000E 20	
17 3	5415.1	1870.5	4.1151E-03	1.2791E-03	1.2791E 26	1.2791E 26	-1.2791E-03	3.5000E 20	
18 3	5415.1	1870.5	4.1151E-03	1.2791E-03	1.2791E 26	1.2791E 26	-1.2791E-03	3.5000E 20	
19 3	5415.1	1870.5	4.1151E-03	1.2791E-03	1.2791E 26	1.2791E 26	-1.2791E-03	3.5000E 20	
20 3	5415.1	1870.5	4.1151E-03	1.2791E-03	1.2791E 26	1.2791E 26	-1.2791E-03	3.5000E 20	
21 3	5415.1	1870.5	4.1151E-03	1.2791E-03	1.2791E 26	1.2791E 26	-1.2791E-03	3.5000E 20	
10 4	5412.4	1873.3	5.7502E-03	1.6161E-03	1.6161E 26	1.6161E 26	-1.6161E-03	3.9141E 20	
11 4	5412.4	1873.3	5.7502E-03	1.6161E-03	1.6161E 26	1.6161E 26	-1.6161E-03	3.9141E 20	
12 4	5412.4	1873.3	5.7502E-03	1.6161E-03	1.6161E 26	1.6161E 26	-1.6161E-03	3.9141E 20	
13 4	5412.4	1873.3	5.7502E-03	1.6161E-03	1.6161E 26	1.6161E 26	-1.6161E-03	3.9141E 20	
14 4	5412.4	1873.3	5.7502E-03	1.6161E-03	1.6161E 26	1.6161E 26	-1.6161E-03	3.9141E 20	
15 4	5412.4	1873.3	5.7502E-03	1.6161E-03	1.6161E 26	1.6161E 26	-1.6161E-03	3.9141E 20	
16 4	5412.4	1873.3	5.7502E-03	1.6161E-03	1.6161E 26	1.6161E 26	-1.6161E-03	3.9141E 20	
17 4	5412.4	1873.3	5.7502E-03	1.6161E-03	1.6161E 26	1.6161E 26	-1.6161E-03	3.9141E 20	
18 4	5412.4	1873.3	5.7502E-03	1.6161E-03	1.6161E 26	1.6161E 26	-1.6161E-03	3.9141E 20	
19 4	5412.4	1873.3	5.7502E-03	1.6161E-03	1.6161E 26	1.6161E 26	-1.6161E-03	3.9141E 20	
20 4	5412.4	1873.3	5.7502E-03	1.6161E-03	1.6161E 26	1.6161E 26	-1.6161E-03	3.9141E 20	
21 4	5412.4	1873.3	5.7502E-03	1.6161E-03	1.6161E 26	1.6161E 26	-1.6161E-03	3.9141E 20	
10 5	5410.0	1876.0	7.4171E-03	2.2711E-03	2.2711E 26	2.2711E 26	-2.2711E-03	4.2141E 20	
11 5	5410.0	1876.0	7.4171E-03	2.2711E-03	2.2711E 26	2.2711E 26	-2.2711E-03	4.2141E 20	
12 5	5410.0	1876.0	7.4171E-03	2.2711E-03	2.2711E 26	2.2711E 26	-2.2711E-03	4.2141E 20	
13 5	5410.0	1876.0	7.4171E-03	2.2711E-03	2.2711E 26	2.2711E 26	-2.2711E-03	4.2141E 20	
14 5	5410.0	1876.0	7.4171E-03	2.2711E-03	2.2711E 26	2.2711E 26	-2.2711E-03	4.2141E 20	
15 5	5410.0	1876.0	7.4171E-03	2.2711E-03	2.2711E 26	2.2711E 26	-2.2711E-03	4.2141E 20	
16 5	5410.0	1876.0	7.4171E-03	2.2711E-03	2.2711E 26	2.2711E 26	-2.2711E-03	4.2141E 20	
17 5	5410.0	1876.0	7.4171E-03	2.2711E-03	2.2711E 26	2.2711E 26	-2.2711E-03	4.2141E 20	
18 5	5410.0	1876.0	7.4171E-03	2.2711E-03	2.2711E 26	2.2711E 26	-2.2711E-03	4.2141E 20	
19 5	5410.0	1876.0	7.4171E-03	2.2711E-03	2.2711E 26	2.2711E 26	-2.2711E-03	4.2141E 20	
20 5	5410.0	1876.0	7.4171E-03	2.2711E-03	2.2711E 26	2.2711E 26	-2.2711E-03	4.2141E 20	
21 5	5410.0	1876.0	7.4171E-03	2.2711E-03	2.2711E 26	2.2711E 26	-2.2711E-03	4.2141E 20	
10 6	5407.3	1878.8	9.1151E-03	2.7111E-03	2.7111E 26	2.7111E 26	-2.7111E-03	4.5141E 20	
11 6	5407.3	1878.8	9.1151E-03	2.7111E-03	2.7111E 26	2.7111E 26	-2.7111E-03	4.5141E 20	
12 6	5407.3	1878.8	9.1151E-03	2.7111E-03	2.7111E 26	2.7111E 26	-2.7111E-03	4.5141E 20	
13 6	5407.3	1878.8	9.1151E-03	2.7111E-03	2.7111E 26	2.7111E 26	-2.7111E-03	4.5141E 20	
14 6	5407.3	1878.8	9.1151E-03	2.7111E-03	2.7111E 26	2.7111E 26	-2.7111E-03	4.5141E 20	
15 6	5407.3	1878.8	9.1151E-03	2.7111E-03	2.7111E 26	2.7111E 26	-2.7111E-03	4.5141E 20	
16 6	5407.3	1878.8	9.1151E-03	2.7111E-03	2.7111E 26	2.7111E 26	-2.7111E-03	4.5141E 20	
17 6	5407.3	1878.8	9.1151E-03	2.7111E-03	2.7111E 26	2.7111E 26	-2.7111E-03	4.5141E 20	
18 6	5407.3	1878.8	9.1151E-03	2.7111E-03	2.7111E 26	2.7111E 26	-2.7111E-03	4.5141E 20	
19 6	5407.3	1878.8	9.1151E-03	2.7111E-03	2.7111E 26	2.7111E 26	-2.7111E-03	4.5141E 20	
20 6	5407.3</								

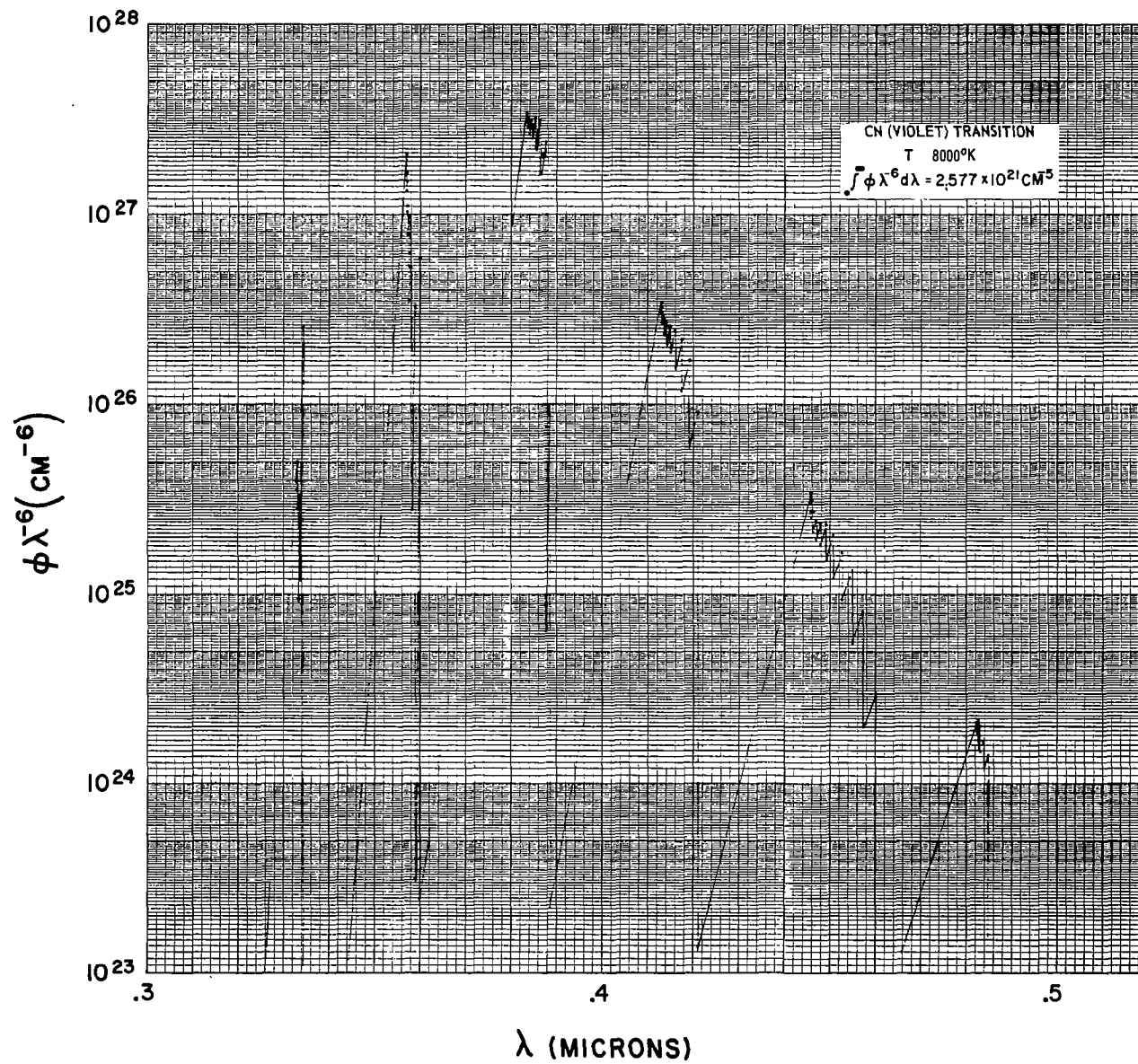
$V' V''$		$\bar{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	ϕ, cm^{-1}	ϕ_2, cm^{-1}	a, cm	$\int \phi^2 d\lambda, \text{cm}^{-1}$
5 3	47663.9	2064.9	1.2505E-01	1.7490E-03	1.5018E 27	1.5211E 27	-1.5702E-04	3.1436E 21	
11 5	47691.4	2088.1	1.2514E-01	1.7700E-03	1.4957E 27	1.5098E 27	-1.5558E-04	3.1912E 21	
18 6	47666.6	2089.1	1.2505E-01	1.7700E-03	1.4957E 27	1.5098E 27	-1.5558E-04	3.1912E 21	
19 6	47666.6	2089.1	1.2505E-01	1.7700E-03	1.4957E 27	1.5098E 27	-1.5558E-04	3.1912E 21	
17 6	47651.7	2091.2	1.2505E-01	1.7700E-03	1.4957E 27	1.5098E 27	-1.5558E-04	3.1912E 21	
0 1	47600.7	2091.8	1.2466E-01	1.7700E-03	1.4957E 27	1.5098E 27	-1.5558E-04	3.1912E 21	
20 6	47786.2	2092.7	1.2444E-01	1.7700E-03	1.4957E 27	1.5098E 27	-1.5558E-04	3.1912E 21	
16 6	47716.4	2095.7	1.2726E-01	2.2726E-03	1.4795E 27	1.5033E 27	-1.6217E-04	3.3024E 21	
21 6	47652.8	2098.5	1.2664E-01	2.8484E-03	1.4829E 27	1.4829E 27	-1.6019E-04	3.3473E 21	
2 2	47670.9	2102.0	1.3391E-01	8.5025E-03	1.5525E 27	1.5525E 27	-1.5997E-04	3.4083E 21	
7 4	47574.3	2102.0	1.4651E-01	7.7174E-03	1.5717E 27	1.5717E 27	-1.5717E-04	3.4479E 21	
15 6	47560.4	2107.1	1.3462E-01	3.0477E-03	1.5727E 27	1.5727E 27	-1.6043E-04	3.4925E 21	
10 5	47503.4	2109.1	1.3731E-01	9.7074E-04	1.5518E 27	1.5518E 27	-1.6217E-04	3.5252E 21	
4 3	47371.8	2111.8	1.4003E-01	3.0343E-03	1.5446E 27	1.5446E 27	-1.6217E-04	3.5252E 21	
14 6	47353.5	2111.8	1.4003E-01	3.0343E-03	1.5446E 27	1.5446E 27	-1.6217E-04	3.5252E 21	
13 6	47092.0	2124.2	1.4568E-01	5.7171E-03	1.5007E 27	1.5007E 27	-1.5573E-04	3.7667E 21	
6 4	47041.2	2125.3	1.5034E-01	1.2945E-03	1.5000E 27	1.5000E 27	-1.5717E-04	3.8280E 21	
1 2	46951.7	2129.6	1.4073E-01	5.0700E-04	1.5944E 27	1.5944E 27	-1.5717E-04	3.8280E 21	
12 6	46796.1	2136.7	1.4715E-01	4.4667E-04	1.5322E 27	1.5322E 27	-1.5717E-04	3.8280E 21	
3 3	46753.6	2136.7	1.4715E-01	4.4667E-04	1.5322E 27	1.5322E 27	-1.5717E-04	3.8280E 21	
8 5	46612.7	2145.4	1.5324E-01	8.5134E-03	1.5122E 27	1.5122E 27	-1.6105E-04	4.1663E 21	
4 4	46471.5	2151.6	1.5678E-01	7.1269E-04	1.5625E 27	1.5625E 27	-1.5717E-04	4.1663E 21	
11 6	46355.0	2152.9	1.5726E-01	8.2676E-04	1.5726E 27	1.5726E 27	-1.5726E-04	4.1663E 21	
18 7	46447.2	2153.0	1.5667E-01	8.2676E-04	1.5667E 27	1.5667E 27	-1.5667E-04	4.1663E 21	
19 7	46437.0	2153.0	1.5667E-01	8.2676E-04	1.5667E 27	1.5667E 27	-1.5667E-04	4.1663E 21	
11 6	46355.0	2153.0	1.5667E-01	8.2676E-04	1.5667E 27	1.5667E 27	-1.5667E-04	4.1663E 21	
20 7	46366.8	2154.7	1.5707E-01	7.0307E-03	1.5625E 27	1.5625E 27	-1.5625E-04	4.2790E 21	
16 7	46297.0	2161.0	1.5521E-01	9.5015E-03	1.5239E 27	1.5239E 27	-1.5239E-04	4.3134E 21	
2 2	46234.4	2162.9	1.5585E-01	1.4230E-03	1.5658E 27	1.5658E 27	-1.5658E-04	4.3073E 21	
21 7	46234.4	2162.9	1.5585E-01	1.4230E-03	1.5658E 27	1.5658E 27	-1.5658E-04	4.3073E 21	
15 7	46141.0	2167.2	1.5444E-01	1.0204E-04	1.4745E 27	1.4745E 27	-1.5717E-04	4.4779E 21	
2 3	46111.4	2168.7	1.5444E-01	1.0204E-04	1.4745E 27	1.4745E 27	-1.5717E-04	4.4779E 21	
11 6	46111.4	2168.7	1.5444E-01	1.0204E-04	1.4745E 27	1.4745E 27	-1.5717E-04	4.4779E 21	
10 6	46062.0	2171.0	1.5444E-01	1.0204E-04	1.4745E 27	1.4745E 27	-1.5717E-04	4.4779E 21	
14 7	45954.7	2174.0	1.5444E-01	1.0204E-04	1.4745E 27	1.4745E 27	-1.5717E-04	4.4779E 21	
4 4	45894.4	2174.0	1.5444E-01	1.0204E-04	1.4745E 27	1.4745E 27	-1.5717E-04	4.4779E 21	
13 7	45679.6	2189.7	1.5361E-01	1.0204E-04	1.4646E 27	1.4646E 27	-1.5717E-04	4.7226E 21	
9 6	45634.3	2191.1	1.5361E-01	1.0204E-04	1.4646E 27	1.4646E 27	-1.5717E-04	4.7226E 21	
3 5	45447.7	2200.3	1.5718E-01	4.0139E-03	1.5122E 27	1.5122E 27	-1.5717E-04	4.9086E 21	
1 3	45447.7	2200.3	1.5718E-01	4.0139E-03	1.5122E 27	1.5122E 27	-1.5717E-04	4.9086E 21	
12 7	45374.7	2200.3	1.5718E-01	4.0139E-03	1.5122E 27	1.5122E 27	-1.5717E-04	4.9086E 21	
20 8	45274.2	2209.1	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.1102E 21	
8 6	45109.3	2211.9	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.1102E 21	
18 8	45054.5	2214.9	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.1102E 21	
14 4	45031.8	2221.5	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.1102E 21	
5 5	45013.8	2221.5	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.1102E 21	
17 8	44901.1	2227.2	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.1102E 21	
8 8	44869.9	2227.2	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.1102E 21	
16 8	44855.3	2227.2	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.1102E 21	
21 9	44836.5	2233.9	1.5843E-01	5.3416E-03	1.5122E 27	1.5122E 27	-1.5717E-04	5.3596E 21	
6 3	44736.1	2233.9	1.5843E-01	5.3416E-03	1.5122E 27	1.5122E 27	-1.5717E-04	5.3596E 21	
15 9	44736.1	2233.9	1.5843E-01	5.3416E-03	1.5122E 27	1.5122E 27	-1.5717E-04	5.3596E 21	
7 6	44669.1	2236.7	1.5718E-01	1.0204E-04	1.4745E 27	1.4745E 27	-1.5717E-04	5.3596E 21	
10 7	44602.0	2240.9	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
2 4	44525.0	2240.9	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
14 8	44336.5	2245.4	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
13 8	44240.5	2245.4	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
6 7	44174.0	2261.7	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
6 6	44136.1	2261.7	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
12 8	43975.0	2274.7	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
1 4	43901.3	2274.7	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
3 5	43833.4	2274.7	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
7 7	43774.9	2274.7	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
18 9	43673.2	2274.7	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
19 9	43632.9	2274.7	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
17 9	43625.8	2274.7	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
20 7	43592.8	2274.7	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
5 6	43564.4	2274.7	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
21 5	43460.4	2274.7	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
15 9	43367.0	2274.7	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
2 5	43279.1	2274.7	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
7 7	43245.4	2274.7	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
10 8	43244.9	2274.7	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
14 6	43186.1	2274.7	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
4 6	42980.3	2274.7	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
13 6	42904.6	2274.7	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
9 8	42817.3	2274.7	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
6 7	42716.7	2274.7	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
12 5	42602.7	2274.7	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
1 5	42491.5	2274.7	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
3 6	42362.0	2274.7	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
8 8	42352.2	2274.7	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
18 10	42317.9	2274.7	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
15 10	42307.6	2274.7	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
17 10	42270.5	2274.7	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
11 9	42256.6	2274.7	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
20 10	42237.5	2274.7	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
10 10	42167.7	2274.7	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
5 7	42153.9	2274.7	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
21 10	42105.1	2274.7	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
15 10	42101.7	2274.7	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
10 5	41868.6	2274.7	1.5726E-01	1.4717E-03	1.5625E 27	1.5625E 27	-1.5625E-04	5.3596E 21	
0 5	41814.4	2274.7	1.5726E-01	1.4717E-03	1.				

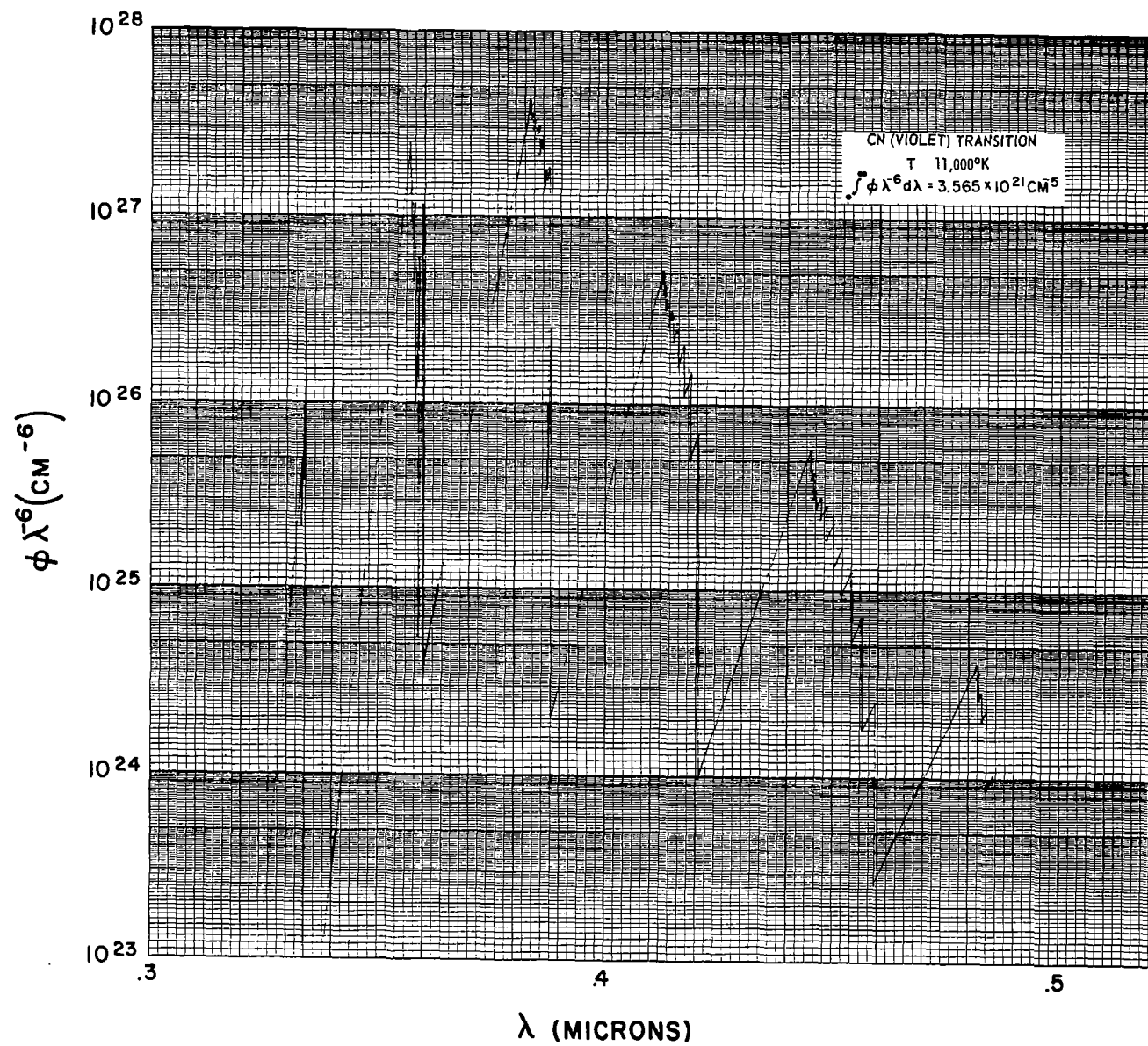
11,000°K									
V	V'	$\bar{\nu}, \text{cm}^{-1}$	$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	$\phi_1 \bar{\nu}^2, \text{cm}^{-2}$	$\phi_2 \bar{\nu}^2, \text{cm}^{-2}$	d, cm	$\int \phi \bar{\nu}^2 d\lambda, \text{cm}^{-5}$
6	6	40373.0	2476.4	2.7921E-01	6.9139E-04	1.2062E 27	1.2092E 27	-2.0097E-04	8.7440E 21
2	7	41306.5	2481.4	2.9302E-01	1.6910E-02	1.1829E 27	1.2456E 27	-1.9372E-04	8.7973E 21
13	11	42214.7	2486.7	2.6722E-01	1.1831E-04	1.2228E 27	1.2233E 27	-1.4777E-04	8.6679E 21
4	11	42106.2	2489.8	2.9037E-01	1.2470E-02	1.4299E 27	1.2999E 27	-1.6276E-04	7.9052E 21
9	10	40085.7	2494.7	2.9601E-01	2.9351E-04	1.2269E 27	1.2781E 27	-1.6532E-04	8.9614E 21
6	9	39942.7	2503.6	2.9479E-01	5.3896E-03	1.1752E 27	1.1971E 27	-1.7499E-04	9.0687E 21
17	11	39912.6	2505.5	2.9322E-01	3.1161E-04	1.1801E 27	1.1074E 27	-1.8303E-04	9.0911E 21
18	12	39669.1	2520.9	2.8294E-01	1.4575E-04	1.1012E 27	1.1626E 27	-1.2734E-04	9.2971E 21
15	12	39658.8	2521.5	2.8341E-01	4.7828E-04	1.0971E 27	1.1027E 27	-1.2291E-04	9.2743E 21
1	12	39676.8	2522.9	2.9116E-01	6.7510E-03	1.0952E 27	1.1291E 27	-2.0005E-04	9.2897E 21
17	12	39621.7	2523.9	2.9064E-01	1.0140E-06	1.1238E 27	1.1738E 27	-1.3180E-04	9.3005E 21
8	10	39620.6	2523.9	2.9113E-01	1.1385E-04	1.1234E 27	1.1262E 27	-1.1139E-04	9.3013E 21
20	12	39589.7	2526.0	2.9102E-01	1.3749E-03	1.1151E 27	1.1203E 27	-1.1572E-04	9.3241E 21
11	11	39566.7	2527.4	2.9221E-01	2.2218E-03	1.1127E 27	1.1212E 27	-1.5467E-04	9.3398E 21
3	8	39545.0	2528.8	3.1478E-01	2.2554E-02	1.1137E 27	1.2038E 27	-1.9233E-04	9.3555E 21
16	12	39518.9	2530.4	3.1373E-01	1.1001E-04	1.1970E 27	1.1952E 27	-1.3257E-04	9.3593E 21
21	12	39466.3	2534.4	3.1711E-01	1.5044E-03	1.1720E 27	1.1776E 27	-1.1445E-04	9.4228E 21
5	9	39379.0	2539.4	3.1042E-01	6.1739E-04	1.1494E 27	1.1319E 27	-1.0672E-04	9.4807E 21
15	12	39382.9	2540.5	3.0949E-01	1.3636E-03	1.1462E 27	1.1512E 27	-1.4446E-04	9.4924E 21
10	11	39178.7	2552.4	3.0515E-01	6.1061E-03	1.1081E 27	1.1755E 27	-1.6617E-04	9.6282E 21
14	12	39166.0	2553.9	3.0603E-01	2.4039E-03	1.0958E 27	1.1093E 27	-1.1452E-04	9.6425E 21
7	10	39126.4	2556.2	3.1617E-01	5.1342E-03	1.0430E 27	1.1116E 27	-1.7111E-04	9.6789E 21
6	7	39123.6	2562.2	3.0413E-01	2.7475E-03	1.0547E 27	1.0676E 27	-2.0717E-04	9.7865E 21
2	8	38902.8	2570.7	3.2622E-01	2.0812E-02	1.0492E 27	1.1140E 27	-1.9151E-04	9.8291E 21
13	12	38900.5	2571.7	3.1505E-01	1.4960E-03	1.1360E 27	1.1360E 27	-1.5103E-04	9.8361E 21
4	12	38756.9	2578.2	3.2750E-01	2.1242E-03	1.1079E 27	1.1151E 27	-1.9172E-04	9.9084E 21
9	11	38751.1	2580.6	3.3071E-01	5.1559E-03	1.1026E 27	1.1139E 27	-1.7017E-04	9.9350E 21
12	12	38748.6	2580.8	3.2405E-01	2.9571E-03	1.0736E 27	1.0736E 27	-1.7315E-04	1.0052E 22
6	10	38737.4	2583.9	3.3017E-01	1.0102E-02	1.0768E 27	1.1432E 27	-1.6636E-04	1.0054E 22
18	13	38734.9	2585.9	3.2451E-01	1.9370E-03	1.0350E 27	1.0350E 27	-1.9370E-04	1.0207E 22
19	13	38734.7	2586.6	3.2517E-01	1.2159E-03	1.0350E 27	1.0350E 27	-1.0213E-04	1.0213E 22
17	13	38734.7	2586.6	3.2517E-01	1.2159E-03	1.0350E 27	1.0350E 27	-1.0213E-04	1.0213E 22
20	13	38734.7	2586.6	3.2517E-01	1.2159E-03	1.0350E 27	1.0350E 27	-1.0213E-04	1.0213E 22
8	11	38734.7	2586.6	3.2517E-01	1.2159E-03	1.0350E 27	1.0350E 27	-1.0213E-04	1.0213E 22
11	12	38734.7	2586.6	3.2517E-01	1.2159E-03	1.0350E 27	1.0350E 27	-1.0213E-04	1.0213E 22
1	8	37735.1	2615.1	3.4222E-01	1.8500E-02	1.1017E 27	1.1017E 27	-2.0717E-04	1.0302E 22
16	13	38724.7	2618.1	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
9	13	38716.2	2618.2	3.4167E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
15	13	38698.8	2618.6	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
5	10	38725.6	2619.1	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
12	12	38744.5	2624.0	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
14	11	37661.9	2661.2	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
7	11	38716.2	2661.2	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
13	13	37660.3	2674.1	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
0	8	37555.0	2682.7	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
2	9	37526.9	2686.4	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
9	12	37436.9	2713.7	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
4	10	37431.6	2717.5	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
18	13	37431.6	2717.5	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
6	11	37252.8	2764.4	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
18	14	37100.5	2795.4	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
17	14	37100.5	2795.4	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
17	14	37053.1	2806.6	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
20	14	37020.1	2809.2	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
9	13	36956.3	2837.6	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
11	13	36956.3	2837.6	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
16	14	36956.3	2837.6	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
12	14	36956.3	2837.6	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
1	9	36922.8	2872.3	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
3	10	36811.3	2916.4	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
15	14	36794.1	2917.0	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
5	11	36809.5	2920.9	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
14	14	36787.4	2923.2	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
13	13	36770.3	2926.7	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
12	12	36846.4	2931.1	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
13	14	36831.1	2932.6	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
0	6	36179.0	2964.0	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
16	13	36179.0	2964.0	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
2	13	36142.7	2976.8	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
4	11	36097.0	2979.3	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
18	14	36097.0	2979.3	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
6	12	35918.6	2992.5	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
18	15	35865.5	2997.9	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
15	15	35865.5	2997.9	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
17	15	35764.1	3005.6	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
20	15	35764.1	3005.6	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
16	15	35635.1	3020.5	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
11	14	35634.9	3020.5	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
6	13	35617.7	3022.9	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
1	15	35612.7	3024.4	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
15	15	35595.3	3026.1	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
3	11	35476.7	3049.6	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
5	12	35374.9	3069.3	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
16	15	35332.4	3073.0	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
10	14	35295.5	3083.2	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
7	13	35177.5	3094.7	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
13	15	35076.9	3105.9	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
9	14	34888.3	3128.9	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
5	11	34836.6	3137.0	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
0	10	34824.3	3138.6	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
12	14	34782.8	3145.0	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.0312E 22
7	12	34776.9	3146.9	3.4240E-01	1.5911E-03	1.0611E 27	1.0611E 27	-1.0312E-04	1.031

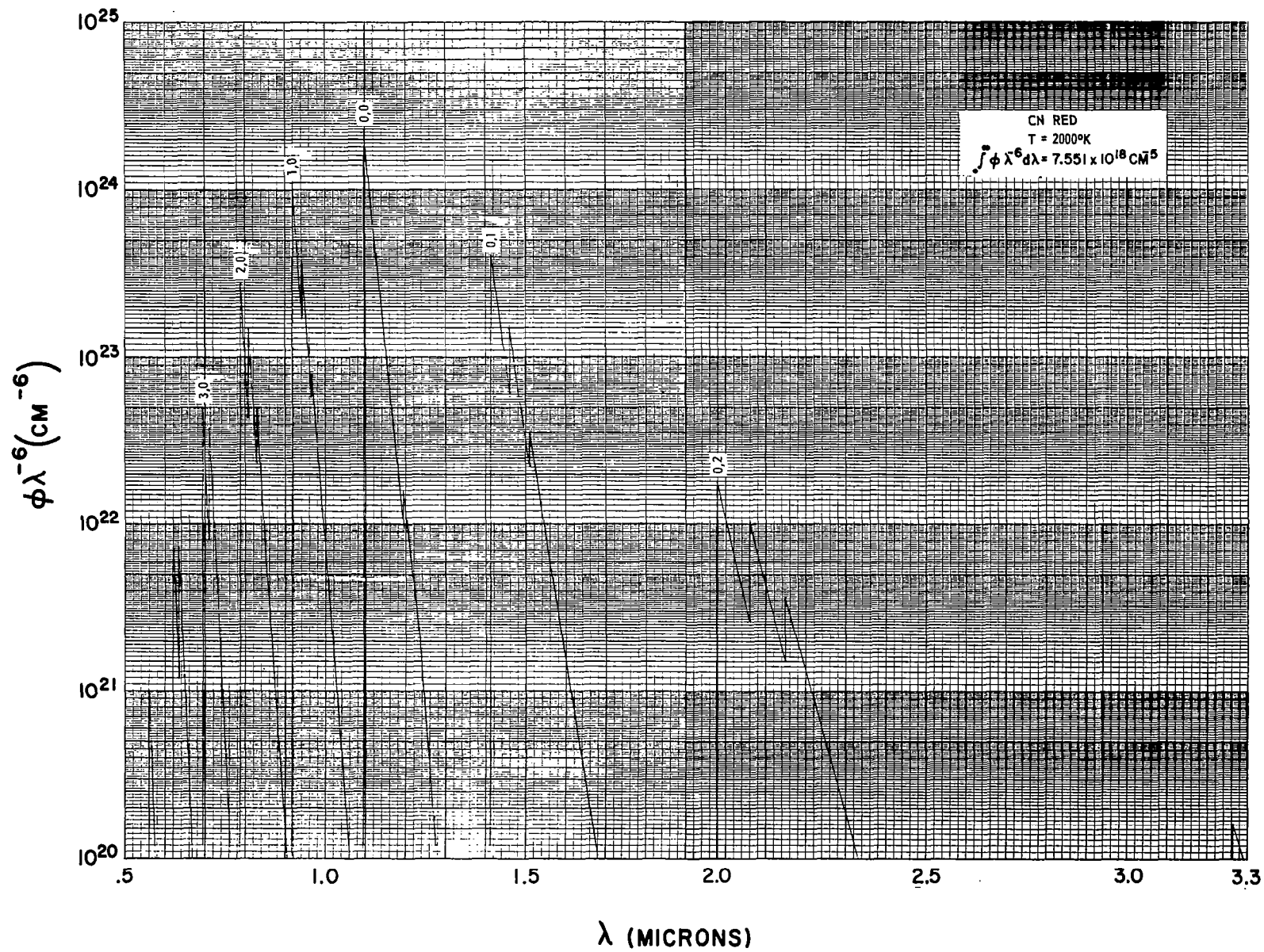
		11,000 °K											
		$\lambda, \text{\AA}$	ϕ_2	$\Delta\phi$	$\phi_1, \text{\AA} \cdot \text{cm}^{-1}$	$\phi_2, \text{\AA} \cdot \text{cm}^{-1}$	a, cm	$f\phi, \text{\AA} \cdot \text{cm}^{-1}$	a, cm	$f\phi, \text{\AA} \cdot \text{cm}^{-1}$	a, cm	$f\phi, \text{\AA} \cdot \text{cm}^{-1}$	
11	14	33192.9	3012.7	4.6667E-01	4.6107E-03	6.1796E-26	6.2413E-26	-1.8349E-04	1.3567E-22	1.3567E-22	1.3567E-22		
21	17	33170.5	3013.9	4.6615E-01	4.6102E-03	6.2232E-26	6.2232E-26	-1.2950E-04	1.2748E-22	1.2748E-22	1.2748E-22		
4	15	33148.2	3016.8	4.7115E-01	7.5320E-03	6.1507E-26	6.1507E-26	-1.9593E-04	1.3592E-22	1.3592E-22	1.3592E-22		
15	17	33086.1	3022.4	4.6487E-01	1.2760E-03	6.1071E-26	6.1238E-26	-1.6798E-04	1.1627E-22	1.1627E-22	1.1627E-22		
16	17	32879.2	3041.4	4.6162E-01	3.0245E-03	5.6676E-26	5.7056E-26	-1.6972E-04	1.1377E-22	1.1377E-22	1.1377E-22		
3	13	32747.3	3047.3	4.7047E-01	2.7041E-02	5.2459E-26	5.2459E-26	-2.4589E-04	1.1444E-22	1.1444E-22	1.1444E-22		
1	12	32650.7	3043.3	5.0117E-01	2.9648E-02	5.9348E-26	6.3079E-26	-2.3550E-04	1.3750E-22	1.3750E-22	1.3750E-22		
14	18	32806.3	3048.2	5.0707E-01	1.1022E-02	6.1640E-26	6.3214E-26	-2.1455E-04	1.3716E-22	1.3716E-22	1.3716E-22		
10	16	32804.9	3048.3	5.1008E-01	3.8604E-03	6.3100E-26	6.3642E-26	-2.9105E-04	1.3716E-22	1.3716E-22	1.3716E-22		
7	15	32648.0	3063.0	4.9084E-01	1.5440E-03	5.9980E-26	6.0409E-26	-2.0746E-04	1.1872E-22	1.1872E-22	1.1872E-22		
13	17	32623.7	3065.3	4.9950E-01	3.0398E-03	5.4852E-26	6.0219E-26	-1.7593E-04	1.3884E-22	1.3884E-22	1.3884E-22		
9	16	32577.3	3088.6	4.7823E-01	1.0131E-04	5.4828E-26	5.4606E-26	-1.9041E-04	1.4020E-22	1.4020E-22	1.4020E-22		
12	17	32521.7	3089.9	4.7194E-01	0.6626E-04	5.3710E-26	5.3909E-26	-1.0775E-04	1.4049E-22	1.4049E-22	1.4049E-22		
2	13	32328.3	3107.9	4.7261E-01	9.2346E-03	5.1922E-26	5.2957E-26	-2.3479E-04	1.4049E-22	1.4049E-22	1.4049E-22		
4	15	32216.2	3106.2	4.7166E-01	5.4131E-04	5.2027E-26	5.2733E-26	-2.2510E-04	1.4103E-22	1.4103E-22	1.4103E-22		
18	18	32193.5	3106.2	4.7115E-01	1.2256E-03	5.2316E-26	5.2522E-26	-1.4963E-04	1.4114E-22	1.4114E-22	1.4114E-22		
19	18	32183.2	3107.2	4.7045E-01	2.4651E-04	5.2247E-26	5.2247E-26	-1.4503E-04	1.4119E-22	1.4119E-22	1.4119E-22		
5	12	32175.5	3108.0	5.3389E-01	6.4151E-02	5.2121E-26	5.2929E-26	-2.4677E-04	1.4123E-22	1.4123E-22	1.4123E-22		
17	18	32146.0	3110.6	5.3297E-01	2.2570E-03	5.1654E-26	5.1912E-26	-1.5550E-04	1.4139E-22	1.4139E-22	1.4139E-22		
6	15	32114.9	3112.8	5.3014E-01	5.0331E-04	5.1106E-26	5.1816E-26	-2.1567E-04	1.4157E-22	1.4157E-22	1.4157E-22		
20	18	32114.0	3114.0	5.2995E-01	2.0348E-05	5.1117E-26	5.1120E-26	-1.3891E-04	1.4158E-22	1.4158E-22	1.4158E-22		
14	18	32043.2	3120.8	5.2473E-01	2.1915E-03	5.1653E-26	5.1902E-26	-1.6160E-04	1.4197E-22	1.4197E-22	1.4197E-22		
21	18	31980.7	3126.9	5.1660E-01	4.5441E-04	5.1539E-26	5.1693E-26	-1.7344E-04	1.4231E-22	1.4231E-22	1.4231E-22		
11	17	31975.4	3127.4	5.1630E-01	3.0000E-04	5.1539E-26	5.1693E-26	-1.7344E-04	1.4231E-22	1.4231E-22	1.4231E-22		
8	16	31912.2	3133.6	5.1374E-01	2.5711E-03	5.1057E-26	5.1272E-26	-2.0649E-04	1.4260E-22	1.4260E-22	1.4260E-22		
15	18	31887.3	3136.0	5.1264E-01	8.5156E-04	5.1001E-26	5.1091E-26	-1.6779E-04	1.4281E-22	1.4281E-22	1.4281E-22		
16	18	31875.0	3136.2	5.1247E-01	1.3074E-04	5.1014E-26	5.1174E-26	-1.7543E-04	1.4302E-22	1.4302E-22	1.4302E-22		
3	14	31955.9	3165.8	4.9604E-01	1.2624E-02	4.8101E-26	4.8952E-26	-2.3072E-04	1.4295E-22	1.4295E-22	1.4295E-22		
10	17	31587.7	3165.8	4.9444E-01	4.1775E-03	4.9147E-26	4.9612E-26	-1.9759E-04	1.4433E-22	1.4433E-22	1.4433E-22		
1	13	31564.5	3168.1	5.0765E-01	1.0577E-02	4.8577E-26	4.9207E-26	-2.4415E-04	1.4433E-22	1.4433E-22	1.4433E-22		
15	19	31569.4	3169.4	5.1517E-01	1.1879E-01	4.7944E-26	5.1117E-26	-2.2423E-04	1.4451E-22	1.4451E-22	1.4451E-22		
13	18	31624.9	3182.2	5.0675E-01	1.7097E-03	4.8863E-26	4.8801E-26	-1.8153E-04	1.4514E-22	1.4514E-22	1.4514E-22		
7	16	31612.0	3183.5	5.1577E-01	2.5367E-03	4.8958E-26	4.9178E-26	-2.1401E-04	1.4514E-22	1.4514E-22	1.4514E-22		
19	19	31605.2	3185.2	5.1602E-01	6.0402E-03	4.8718E-26	4.9337E-26	-2.0570E-04	1.4642E-21	1.4642E-21	1.4642E-21		
12	18	31122.9	3213.1	4.9629E-01	4.3149E-03	4.4712E-26	4.5146E-26	-1.8049E-04	1.4694E-21	1.4694E-21	1.4694E-21		
18	19	31012.7	3224.5	4.8508E-01	5.4410E-04	4.3186E-26	4.3726E-26	-1.5117E-04	1.4710E-21	1.4710E-21	1.4710E-21		
19	19	31002.5	3225.9	4.8508E-01	1.4825E-03	4.3186E-26	4.3726E-26	-1.5117E-04	1.4710E-21	1.4710E-21	1.4710E-21		
17	19	10965.3	3279.4	4.8777E-01	2.2163E-08	4.2955E-26	4.2955E-26	-1.3031E-04	1.4731E-21	1.4731E-21	1.4731E-21		
4	15	30950.1	3230.1	4.9436E-01	1.2240E-02	4.2451E-26	4.3520E-26	-2.1344E-04	1.4731E-21	1.4731E-21	1.4731E-21		
15	14	30953.8	3230.1	4.9436E-01	2.2064E-02	4.2451E-26	4.3520E-26	-2.1344E-04	1.4731E-21	1.4731E-21	1.4731E-21		
20	19	30932.3	3232.7	5.2181E-01	1.8104E-03	4.2451E-26	4.2451E-26	-1.3031E-04	1.4746E-21	1.4746E-21	1.4746E-21		
0	13	30881.4	3238.2	5.0415E-01	7.9344E-02	4.2451E-26	4.2451E-26	-1.3031E-04	1.4770E-21	1.4770E-21	1.4770E-21		
10	13	30875.0	3238.4	5.0415E-01	5.9836E-02	4.2451E-26	4.2451E-26	-1.3031E-04	1.4770E-21	1.4770E-21	1.4770E-21		
19	17	30867.5	3240.2	5.0778E-01	4.0561E-04	4.1597E-26	4.1597E-26	-1.6671E-04	1.4780E-21	1.4780E-21	1.4780E-21		
21	15	30795.9	3244.8	5.0130E-01	1.3775E-03	4.0362E-26	4.0362E-26	-1.3773E-04	1.4814E-21	1.4814E-21	1.4814E-21		
15	15	30742.5	3247.2	5.0130E-01	5.0130E-03	4.0362E-26	4.0362E-26	-1.3773E-04	1.4814E-21	1.4814E-21	1.4814E-21		
15	19	30706.5	3256.6	4.8573E-01	2.7172E-03	4.0872E-26	4.1100E-26	-1.7333E-04	1.4836E-21	1.4836E-21	1.4836E-21		
8	17	30695.0	3257.4	5.0797E-01	1.4839E-03	4.0872E-26	4.1100E-26	-1.7333E-04	1.4836E-21	1.4836E-21	1.4836E-21		
11	17	30672.7	3257.7	5.0523E-01	5.0523E-03	4.0872E-26	4.1100E-26	-1.7333E-04	1.4836E-21	1.4836E-21	1.4836E-21		
10	18	30386.8	3260.7	5.0531E-01	3.3717E-05	4.1911E-26	4.1911E-26	-2.0449E-04	1.5021E-21	1.5021E-21	1.5021E-21		
5	15	30340.9	3295.4	5.4724E-01	4.5745E-04	4.2654E-26	4.2654E-26	-2.2477E-04	1.5043E-21	1.5043E-21	1.5043E-21		
5	15	30315.3	3298.7	5.4555E-01	1.2575E-03	4.2654E-26	4.2654E-26	-2.2477E-04	1.5043E-21	1.5043E-21	1.5043E-21		
1	14	30292.1	3299.4	5.4732E-01	4.0732E-05	4.1911E-26	4.1911E-26	-2.0449E-04	1.5066E-21	1.5066E-21	1.5066E-21		
13	19	32344.1	3306.4	5.3550E-01	9.9747E-04	4.1137E-26	4.1213E-26	-1.1777E-04	1.5087E-21	1.5087E-21	1.5087E-21		
7	17	30194.8	3311.8	5.3521E-01	2.2746E-03	4.0741E-26	4.0741E-26	-2.2477E-04	1.5099E-21	1.5099E-21	1.5099E-21		
3	18	29961.2	3319.4	5.2517E-01	4.1274E-03	4.1100E-26	4.1274E-26	-1.1249E-04	1.5206E-21	1.5206E-21	1.5206E-21		
12	19	29942.2	3319.9	5.1107E-01	2.2472E-04	3.6612E-26	3.6612E-26	-1.3949E-04	1.5217E-21	1.5217E-21	1.5217E-21		
18	20	29845.7	3350.1	5.0102E-01	1.9561E-03	3.5630E-26	3.5630E-26	-1.5093E-04	1.5294E-21	1.5294E-21	1.5294E-21		
19	20	29845.7	3350.1	5.0102E-01	1.9561E-03	3.5630E-26	3.5630E-26	-1.5093E-04	1.5294E-21	1.5294E-21	1.5294E-21		
17	20	24802.3	3354.4	5.0130E-01	1.3717E-03	3.4644E-26	3.4710E-26	-1.5441E-04	1.5275E-21	1.5275E-21	1.5275E-21		
20	20	23765.3	3354.2	4.7794E-01	1.8538E-05	3.4644E-26	3.4644E-26	-1.5441E-04	1.5275E-21	1.5275E-21	1.5275E-21		
16	20	23765.3	3354.2	4.7794E-01	1.8538E-05	3.4644E-26	3.4644E-26	-1.5441E-04	1.5275E-21	1.5275E-21	1.5275E-21		
16	20	23765.3	3354.2	4.7794E-01	1.8538E-05	3.4644E-26	3.4644E-26	-1.5441E-04	1.5275E-21	1.5275E-21	1.5275E-21		
2	15	24698.8	3367.1	5.1949E-01	3.1577E-02	3.4024E-26	3.4024E-26	-2.5711E-04	1.5314E-21	1.5314E-21	1.5314E-21		
4	17	24681.7	3371.4	5.0221E-01	1.2427E-02	3.6821E-26	3.7179E-26	-2.1818E-04	1.5320E-21	1.5320E-21	1.5320E-21		
2	20	24671.2	3374.2	5.0221E-01	1.2427E-02	3.6821E-26	3.7179E-26	-2.1818E-04	1.5320E-21	1.5320E-21	1.5320E-21		
8	14	24606.9	3377.6	6.2798E-01	4.4946E-02	3.6821E-26	3.7179E-26	-2.1818E-04	1.5320E-21	1.5320E-21	1.5320E-21		
11	19	24596.1	3378.8	6.3139E-01	1.0474E-01	4.2170E-26	4.2170E-26	-2.1818E-04	1.5350E-21	1.5350E-21	1.5350E-21		
15	20	24593.6	3381.0	6.2181E-01	2.1818E-05	4.2170E-26	4.2170E-26	-2.1818E-04	1.5350E-21	1.5350E-21	1.5350E-21		
8	18	24546.2	3380.3	6.2442E-01	8.6915E-03	4.0860E-26	4.1231E-26	-1.5405E-04	1.5405E-21	1.5405E-21	1.5405E-21		
14	20	24336.7	3409.7	6.0407E-01	1.1741E-03	3.6581E-26	3.6581E-26	-1.5405E-04	1.5494E-21	1.5494E-21	1.5494E-21		
15	20	24336.7	3409.7	6.0407E-01	1.1741E-03	3.6581E-26	3.6581E-26	-1.5405E-04	1.5494E-21	1.5494E-21	1.5494E-21		
3	16	24104.9	3435.8	5.8914E-01	7.3481E-03	3.6361E-26	3.6361E-26	-1.5405E-04	1.5577E-21	1.5577E-21	1.5577E-21		
15	17	24098.0	3436.7	5.9299E-01	4.6922E-03	3.6709E-26	3.6709E-26	-1.5405E-04	1.5582E-21	1.5582E-21			

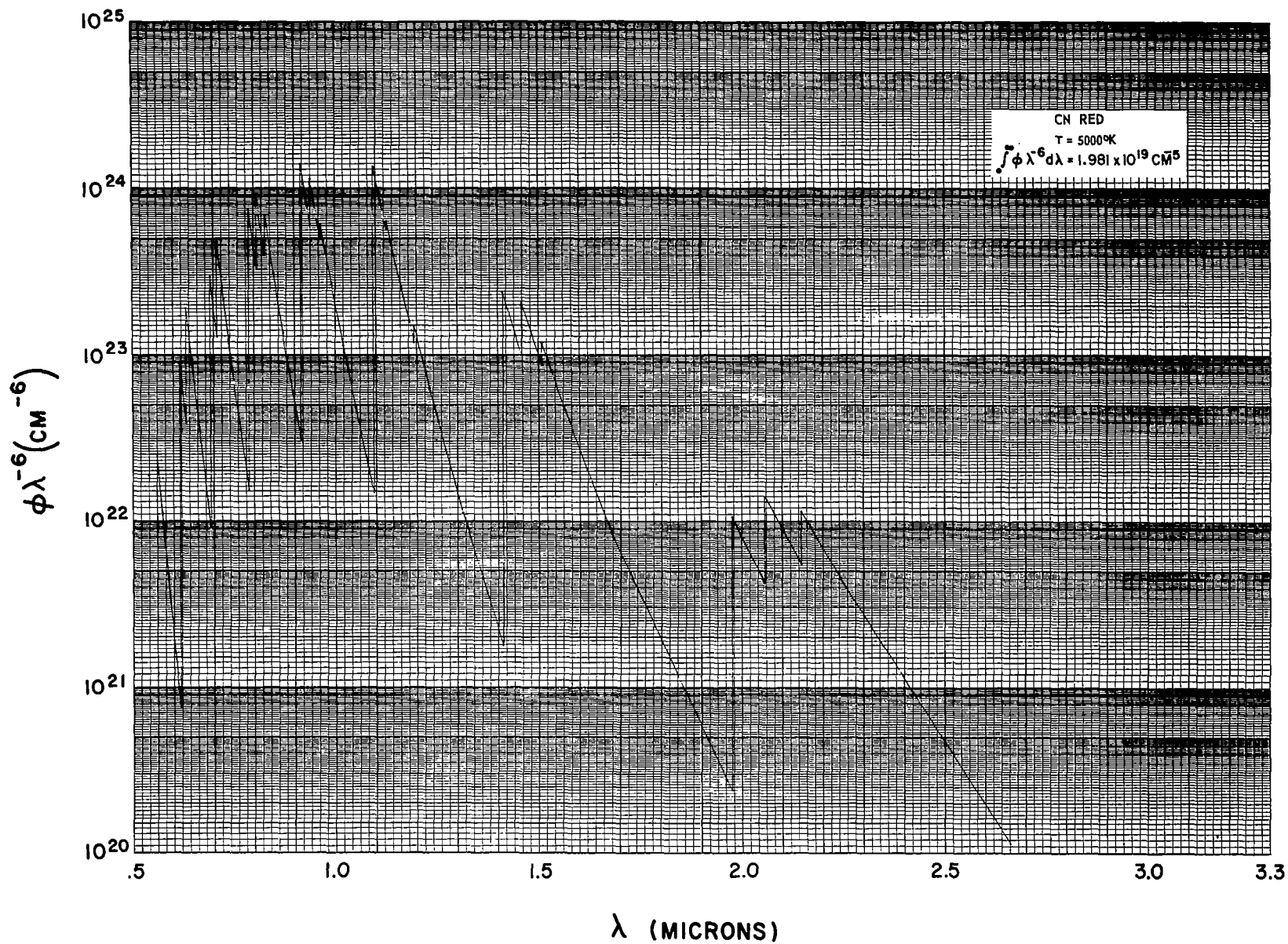


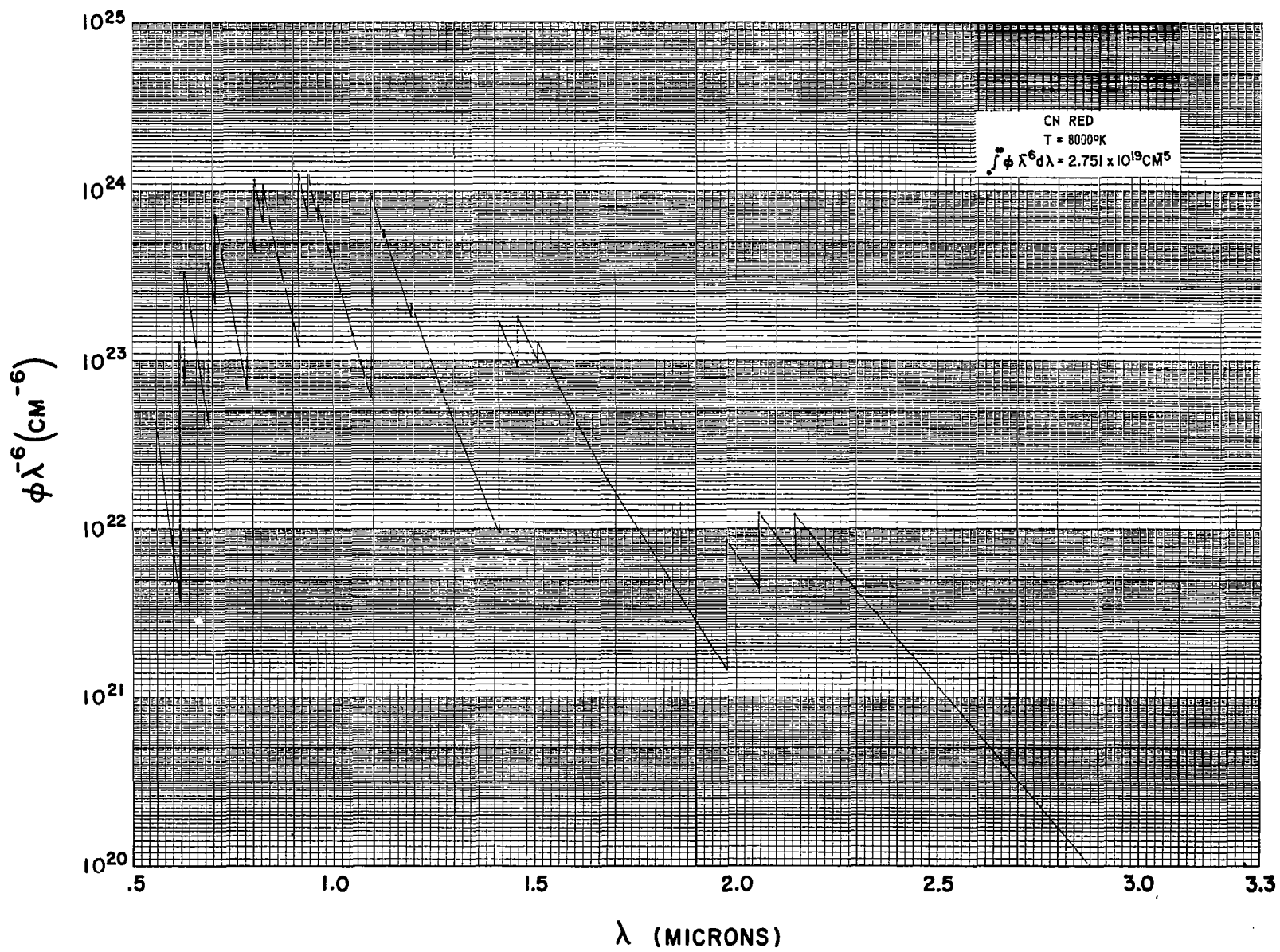


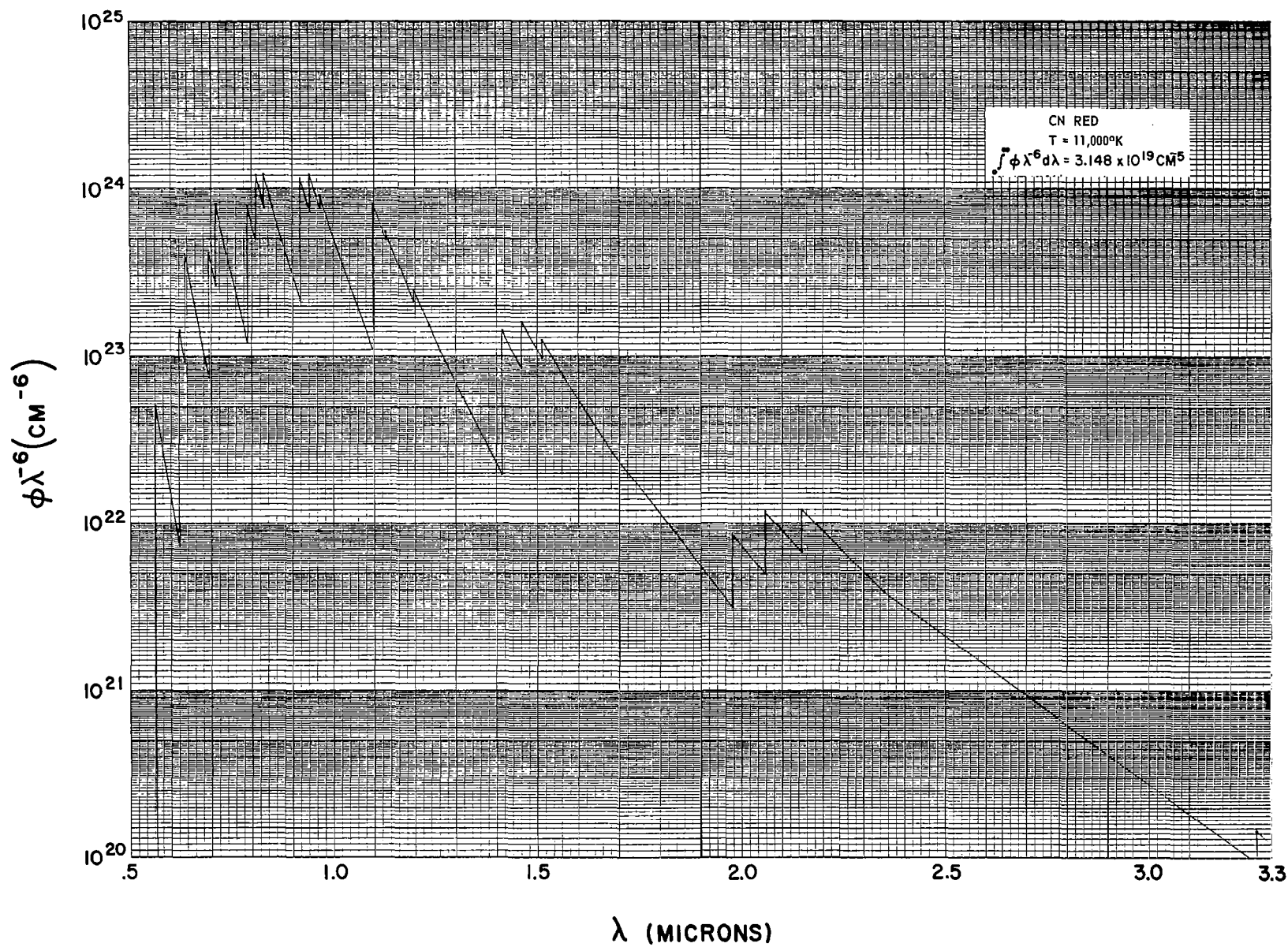






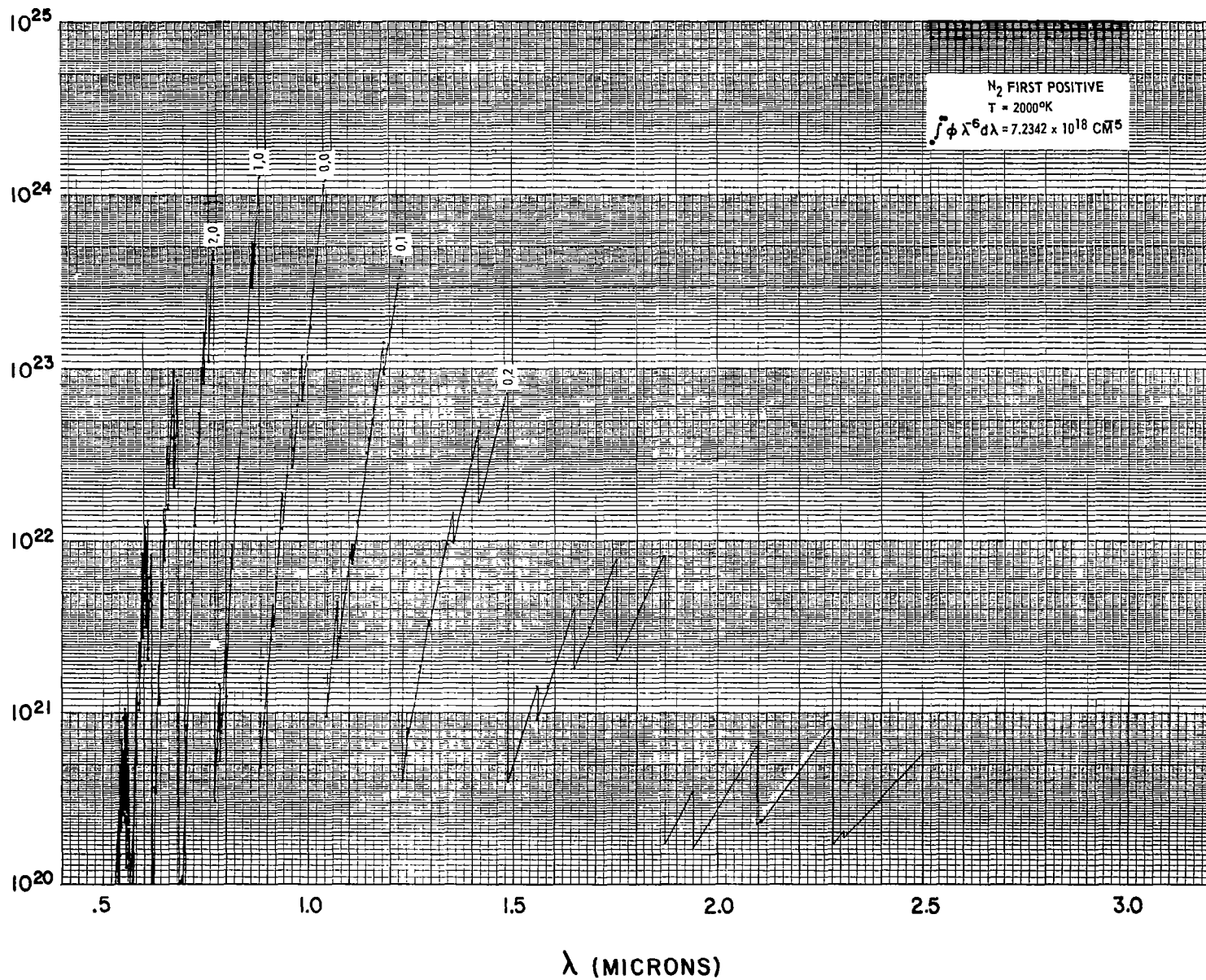






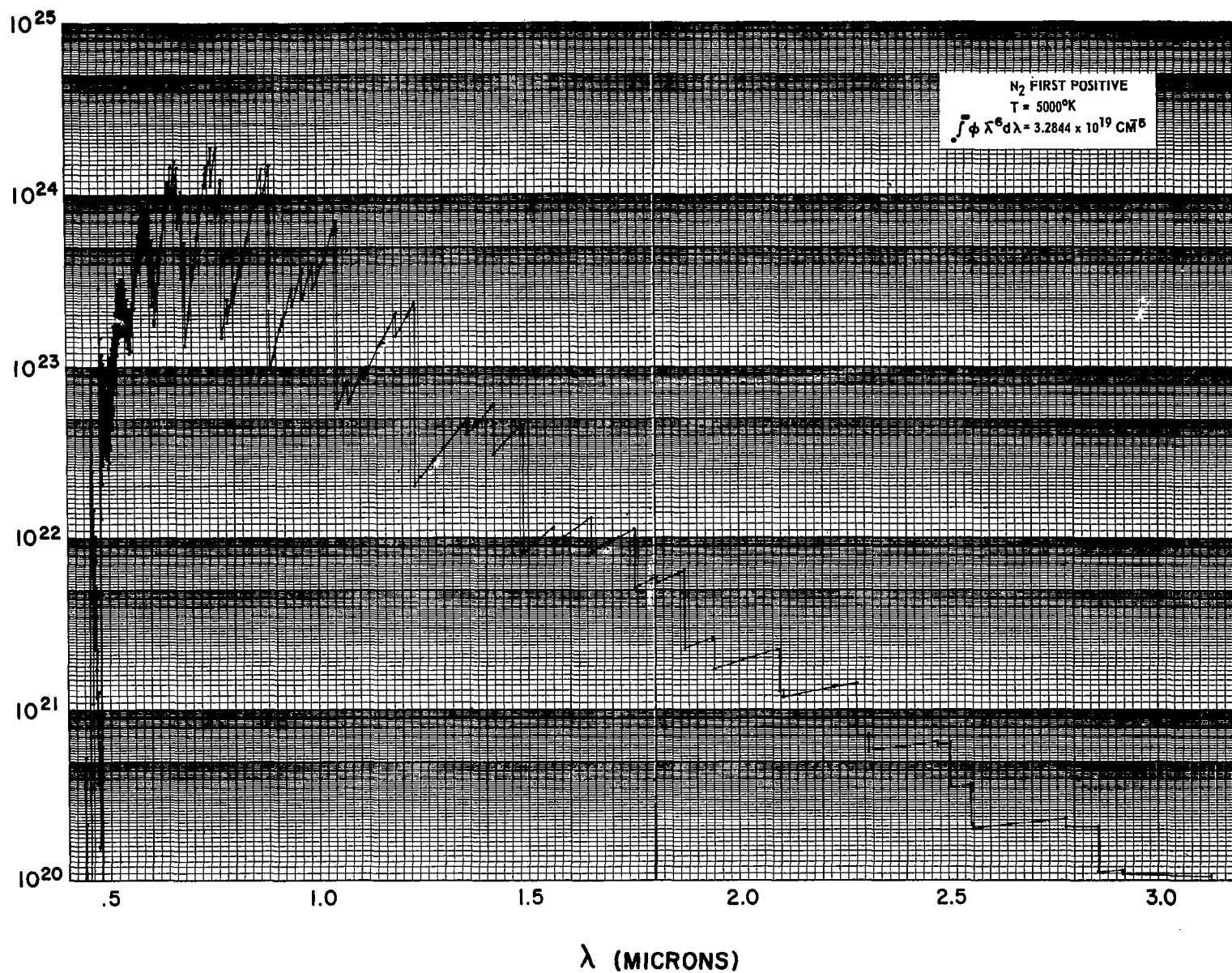
6-III

$\phi\lambda^{-6}(\text{cm}^{-6})$



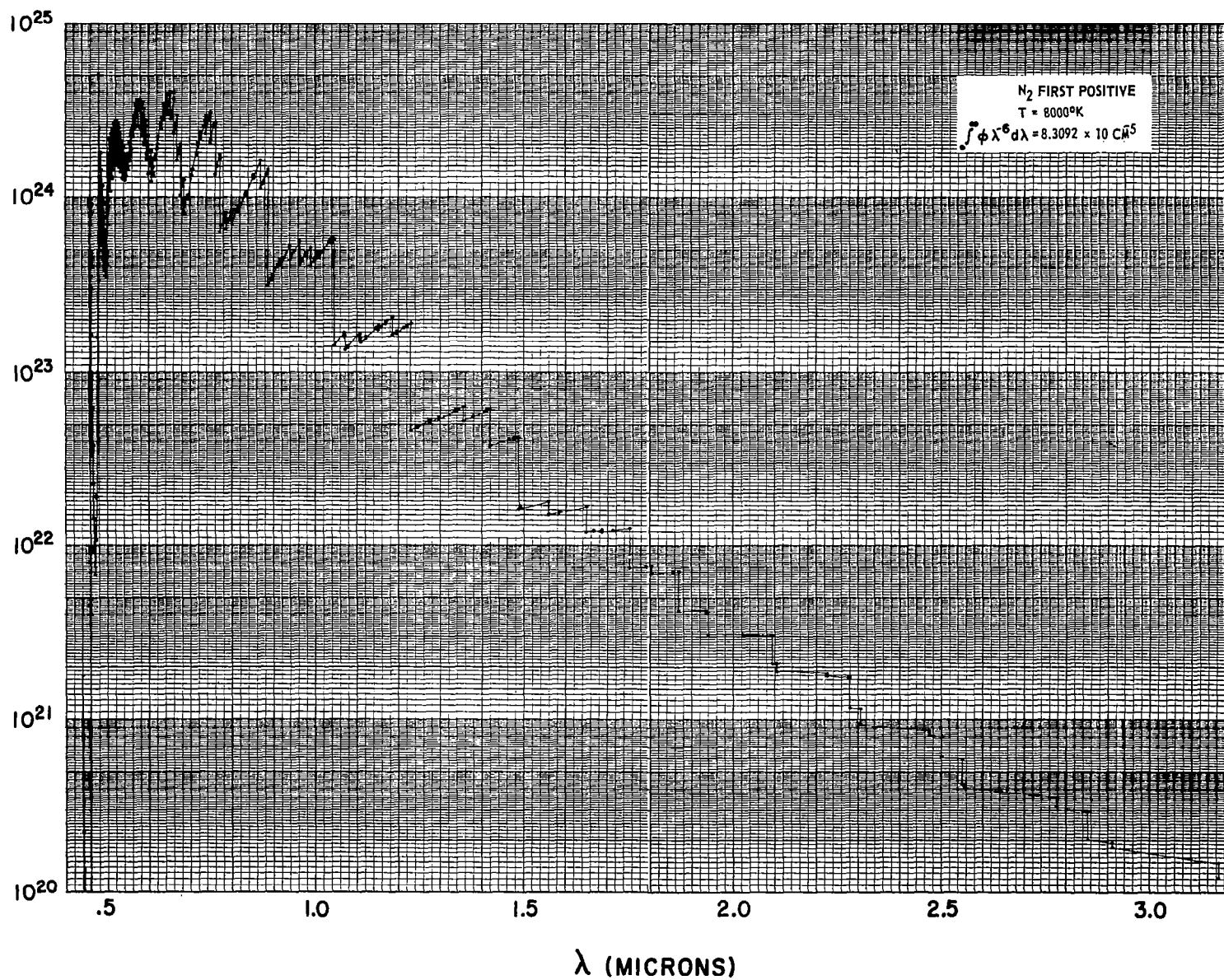
III 10

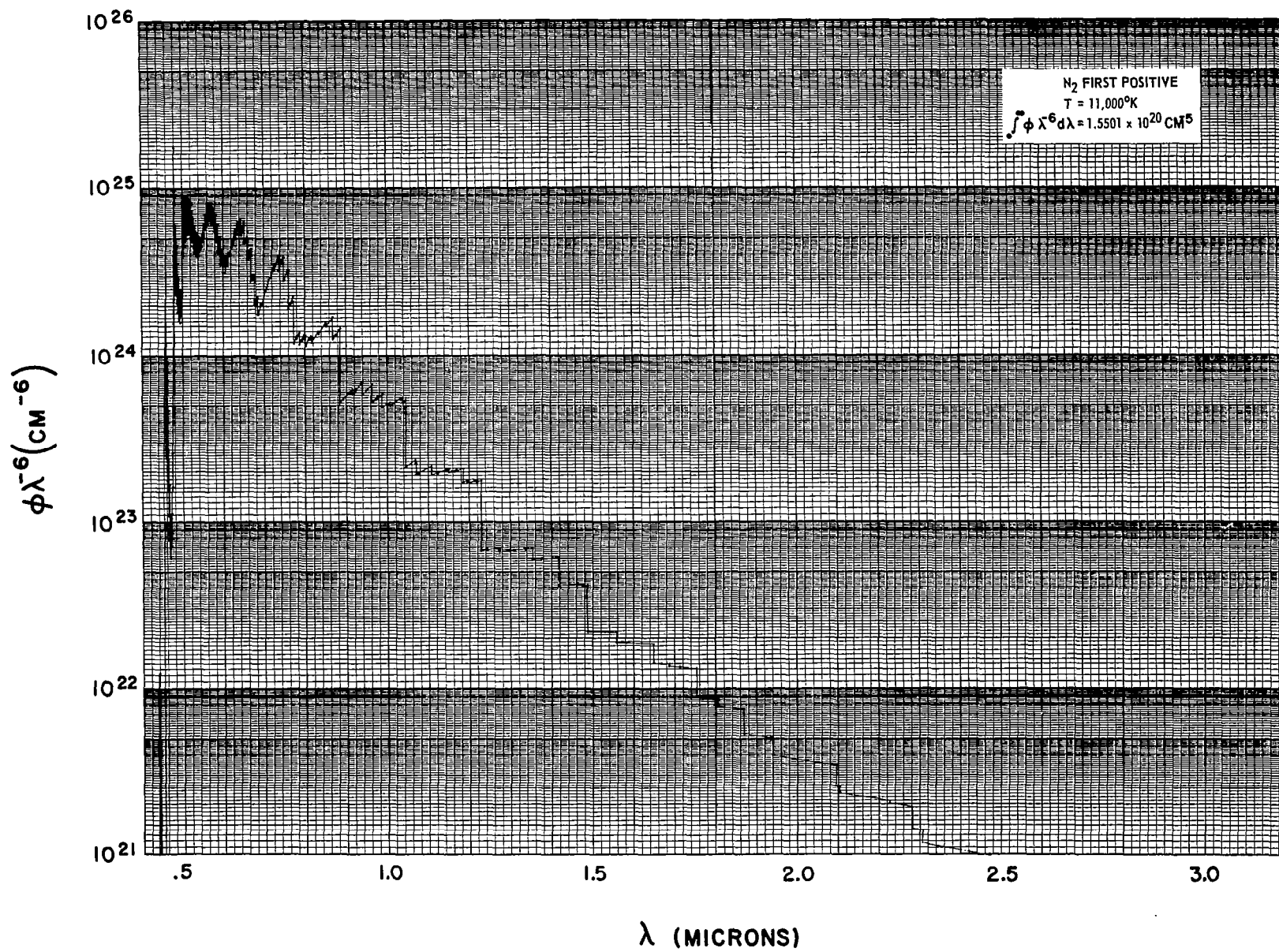
$\phi \lambda^{-6} (\text{CM}^{-6})$

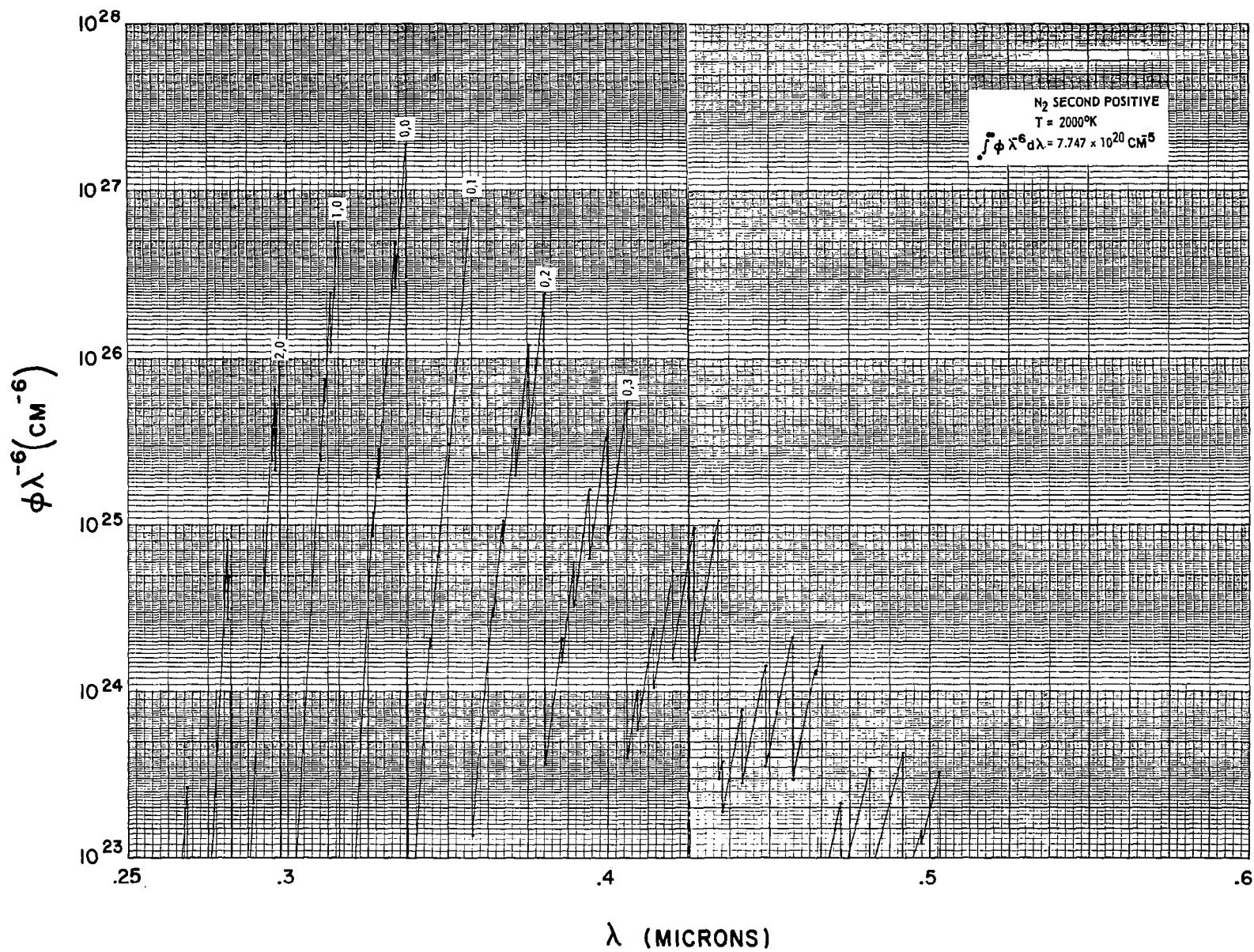


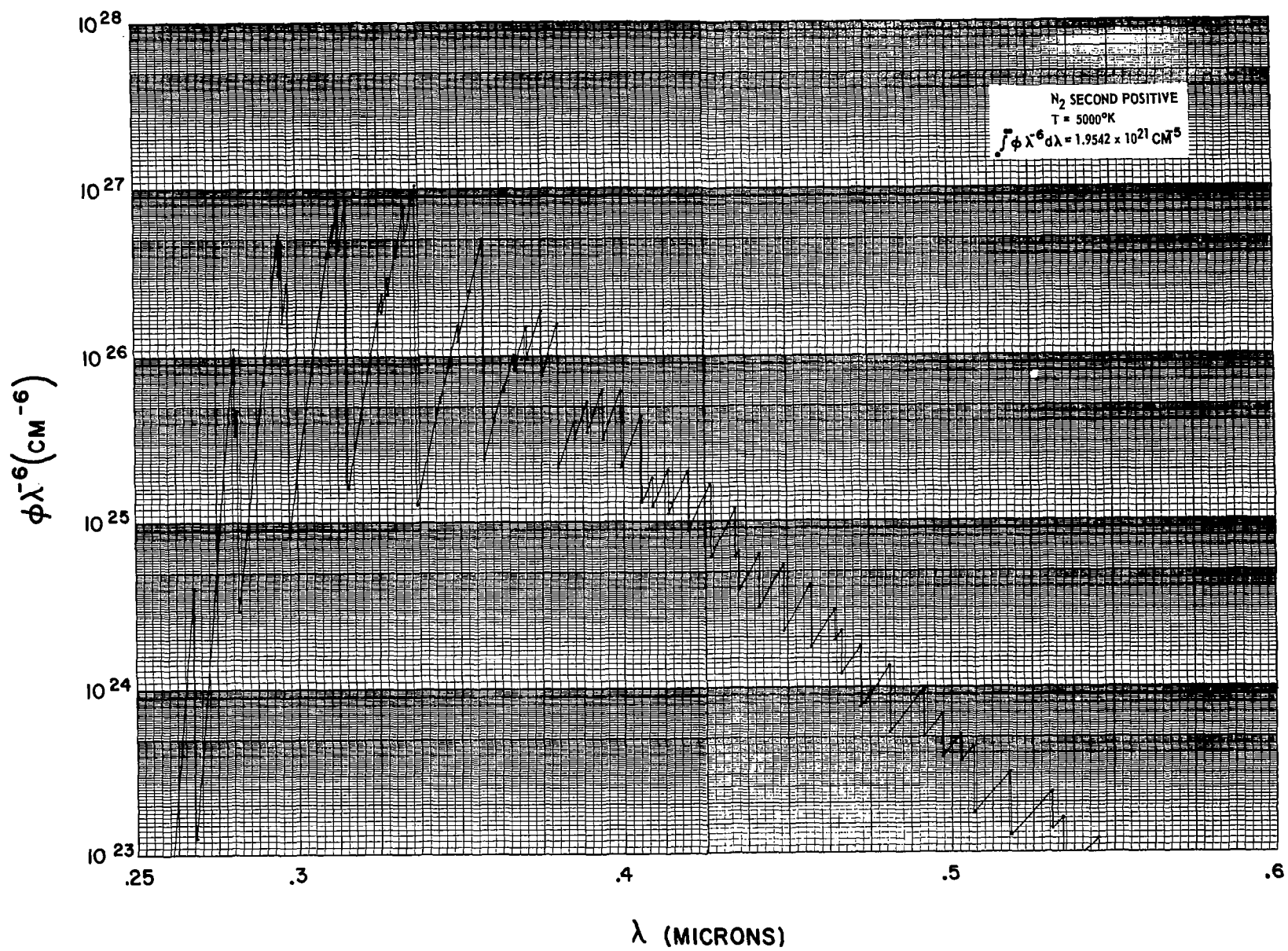
I I - III

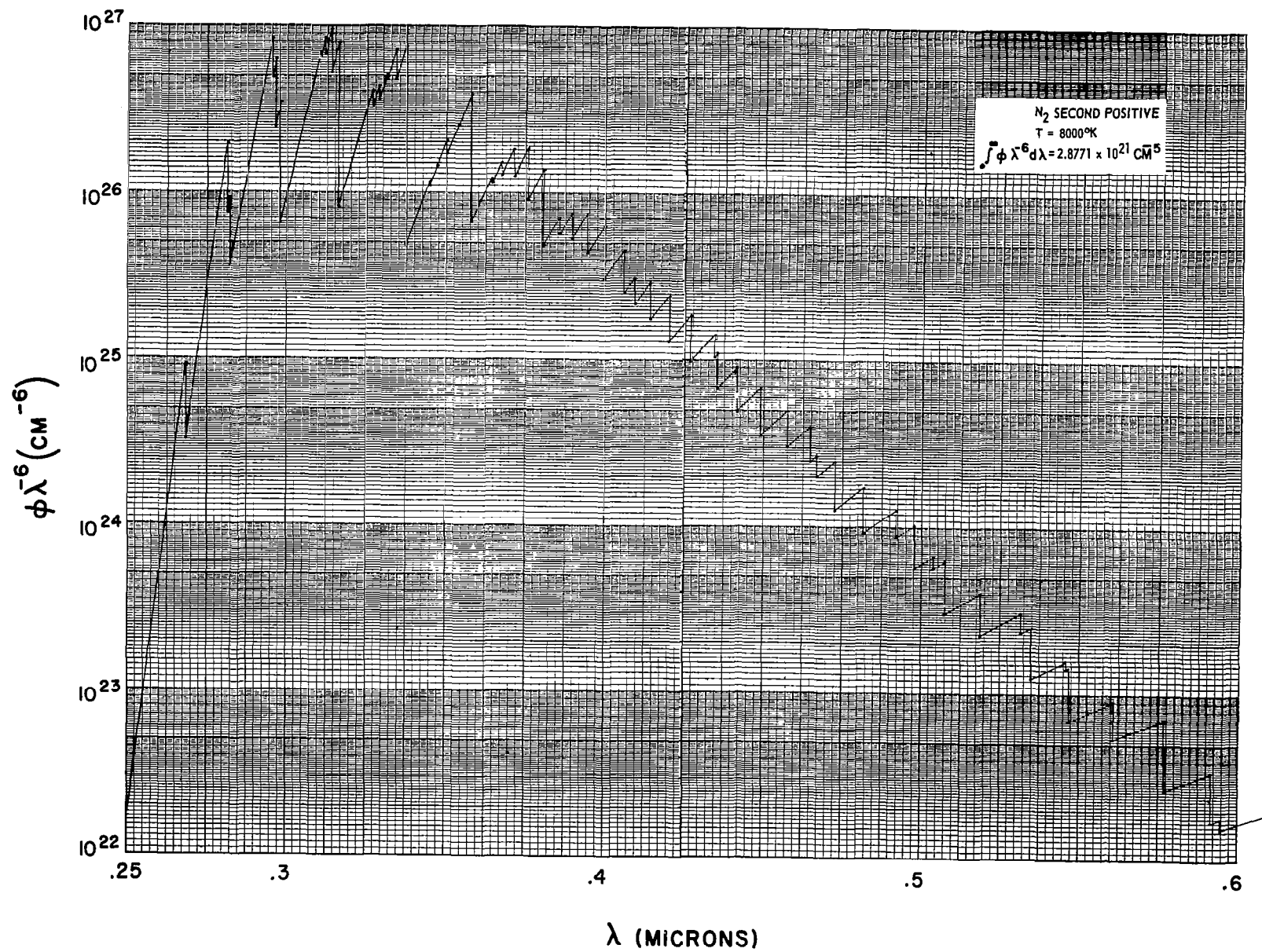
$\phi \lambda^{-6} (\text{cm}^{-6})$

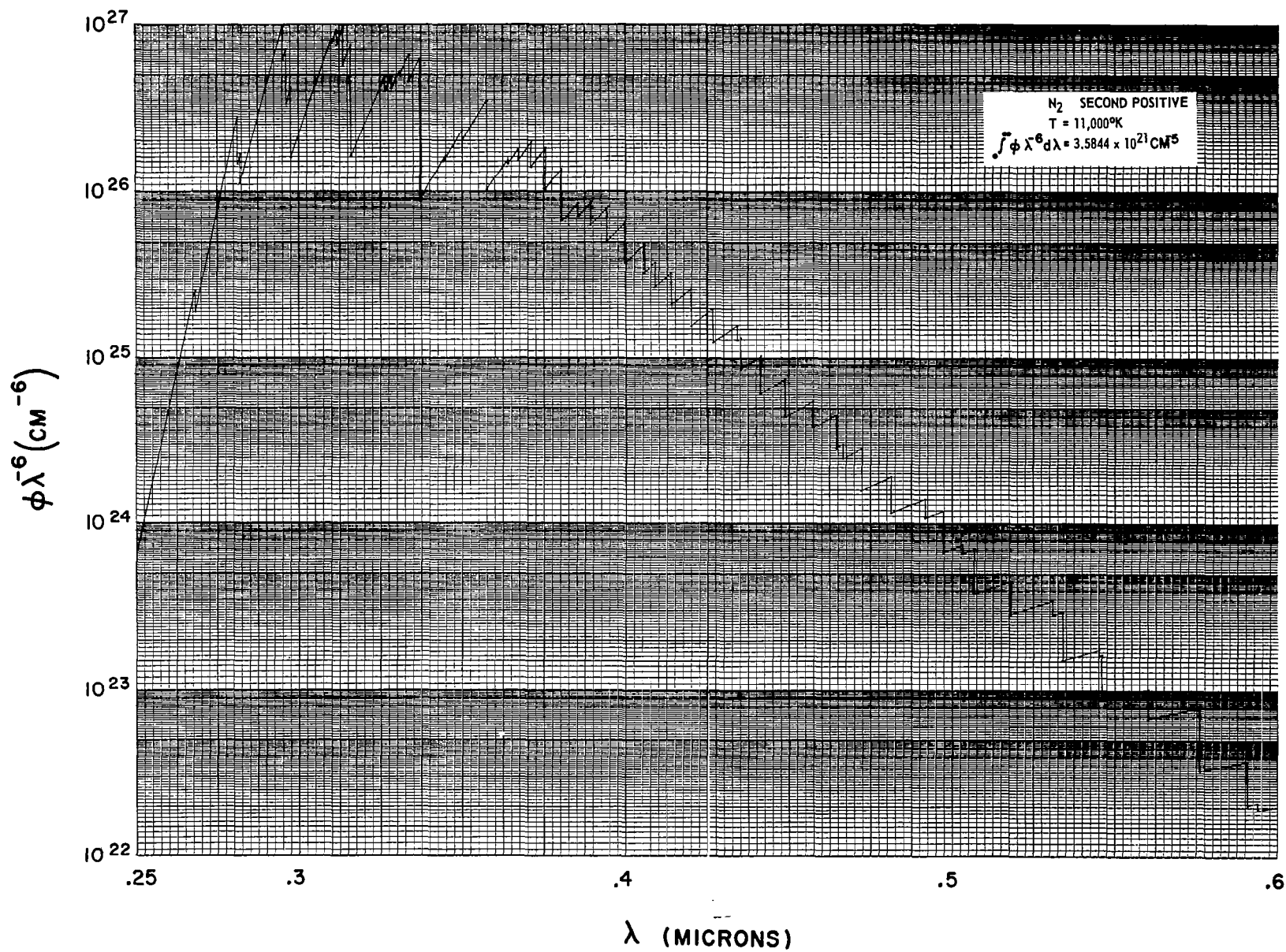






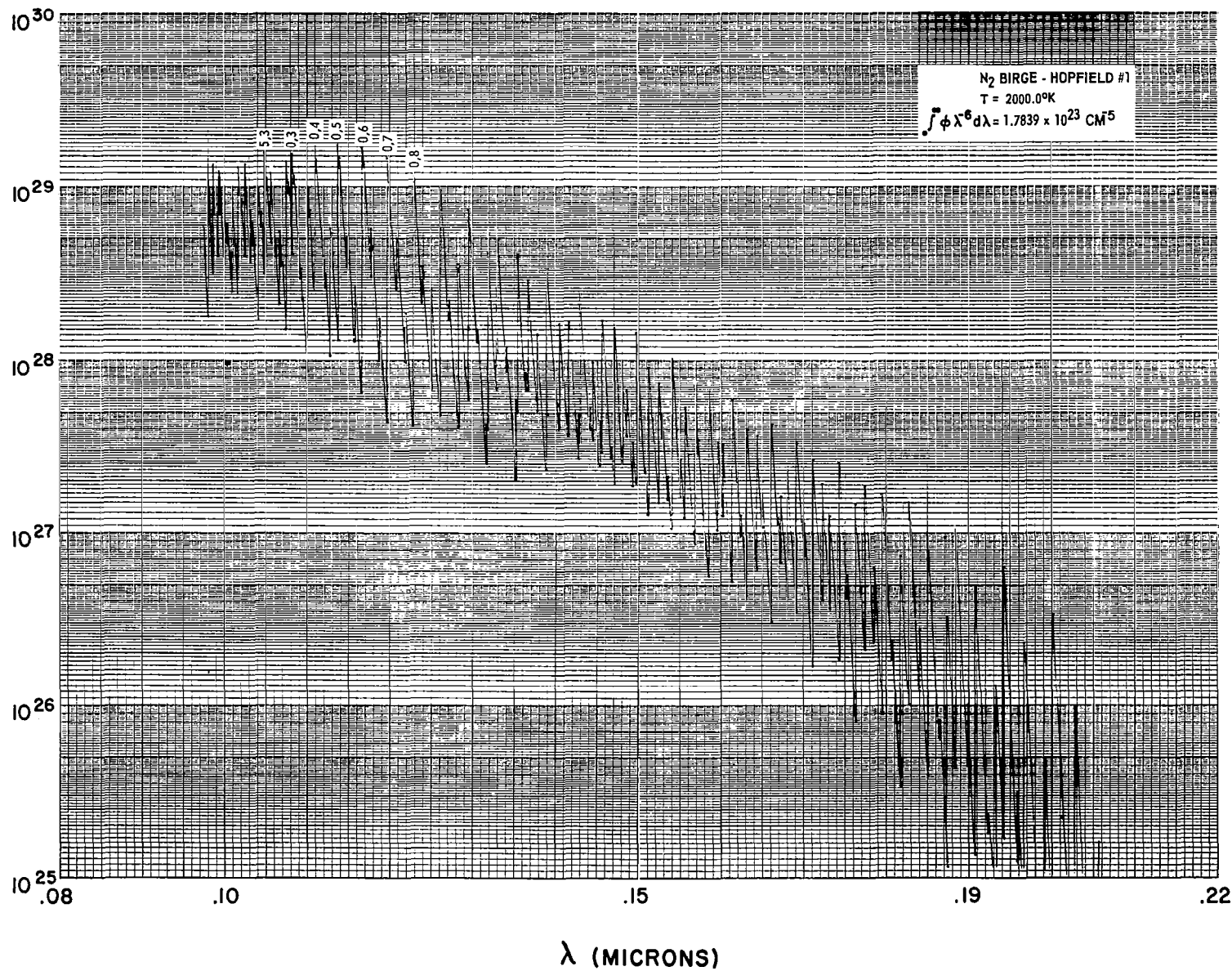


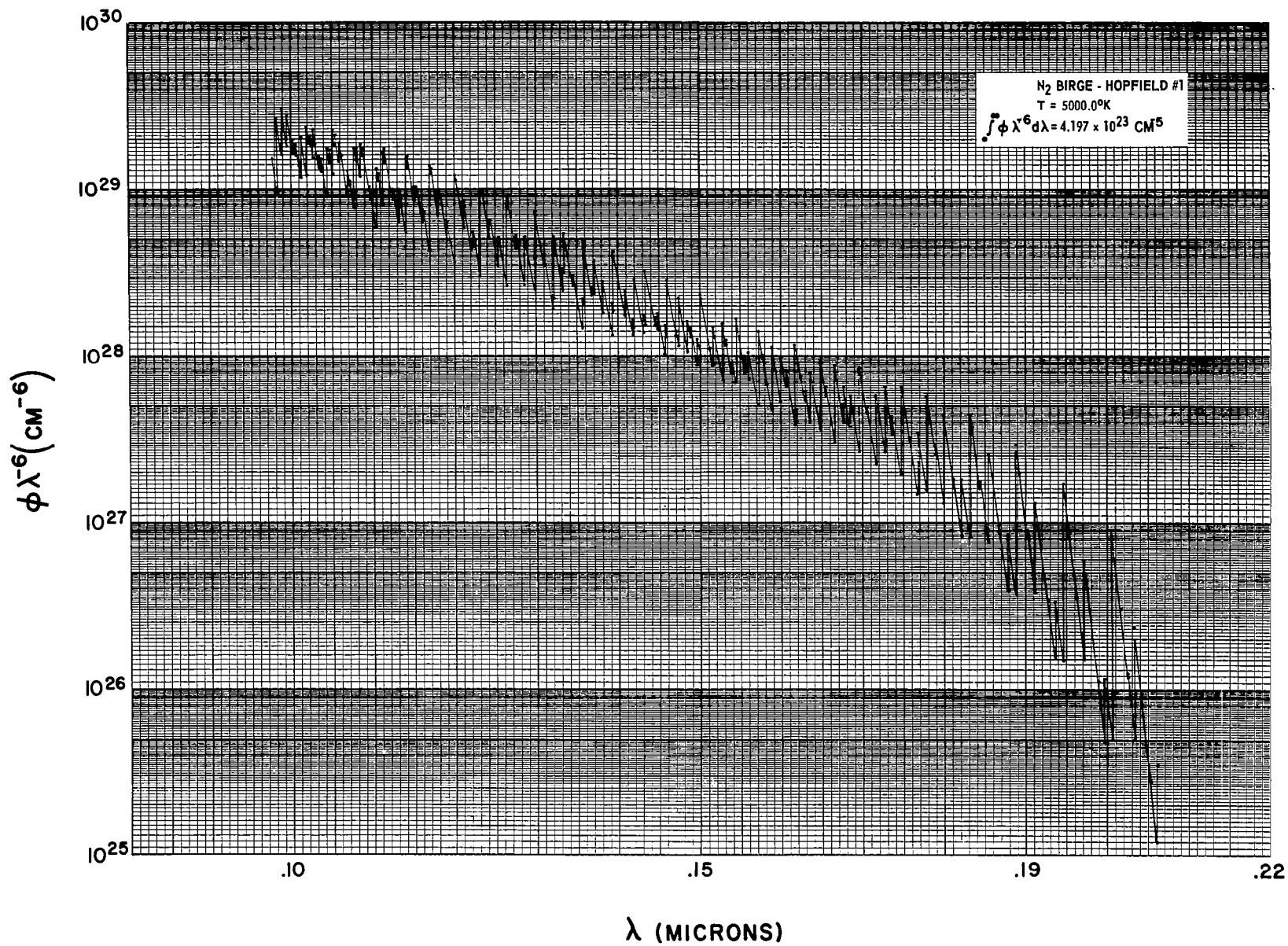




III-17

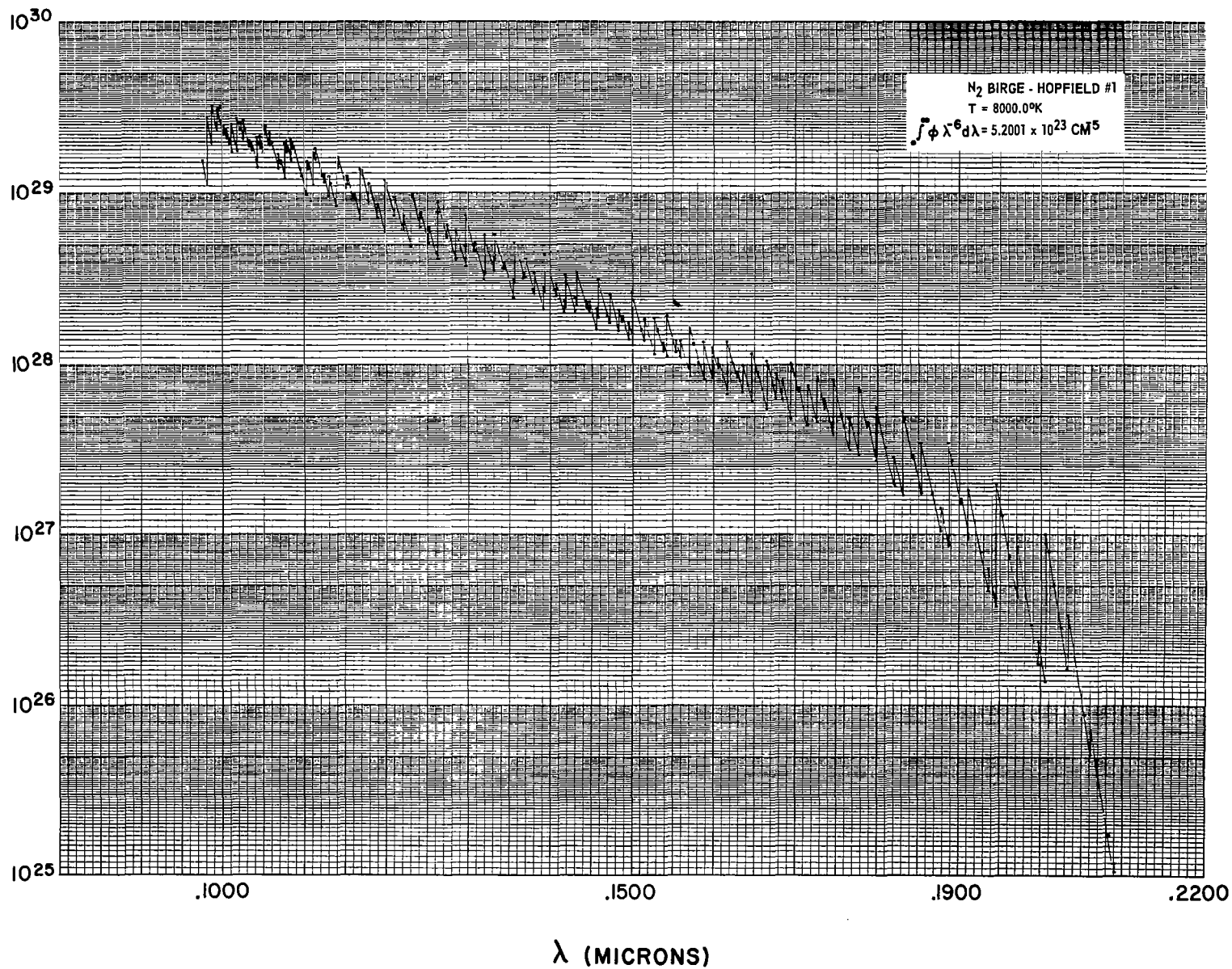
$\phi\lambda^{-6}(\text{CM}^{-6})$

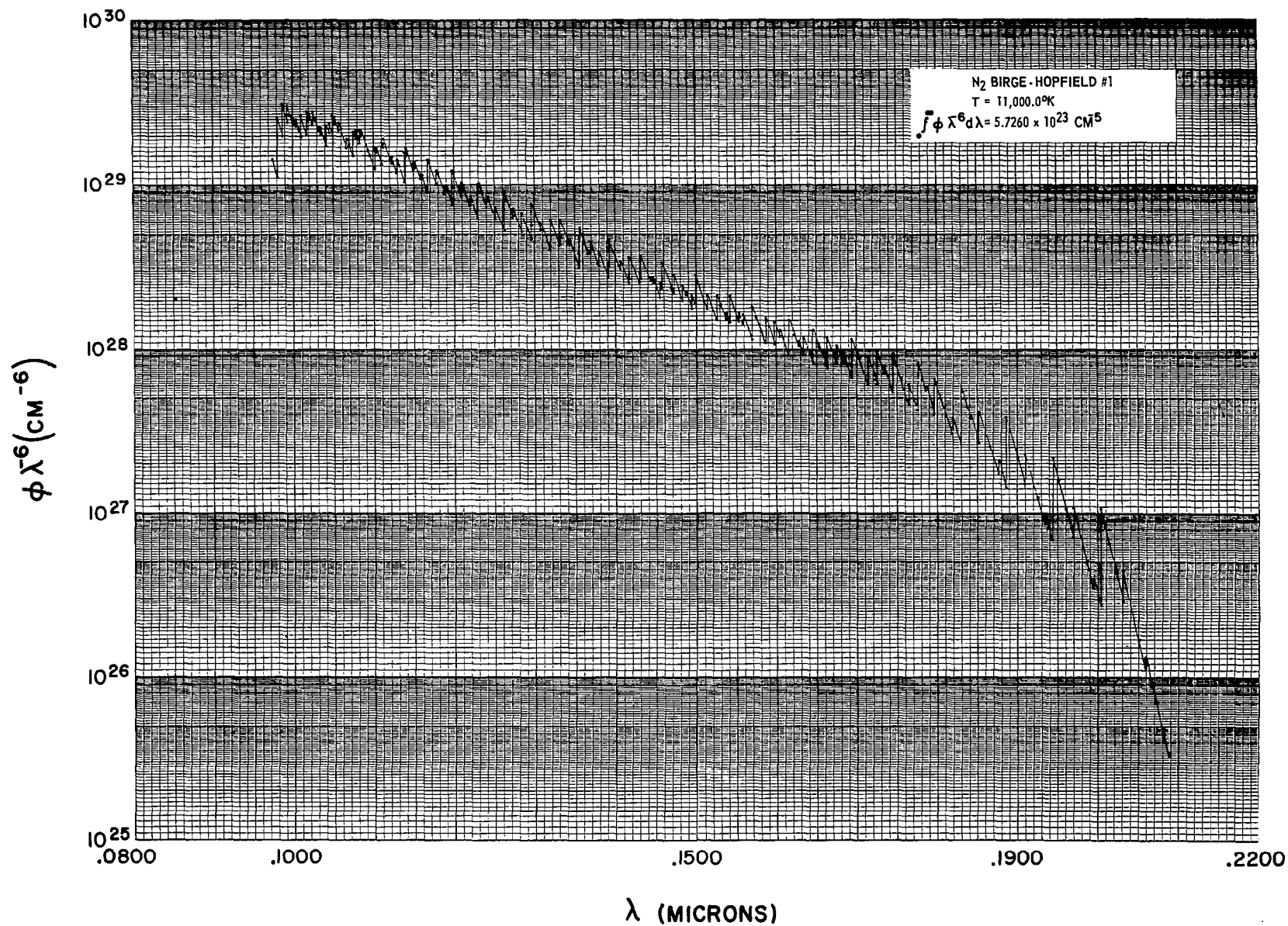




61-III

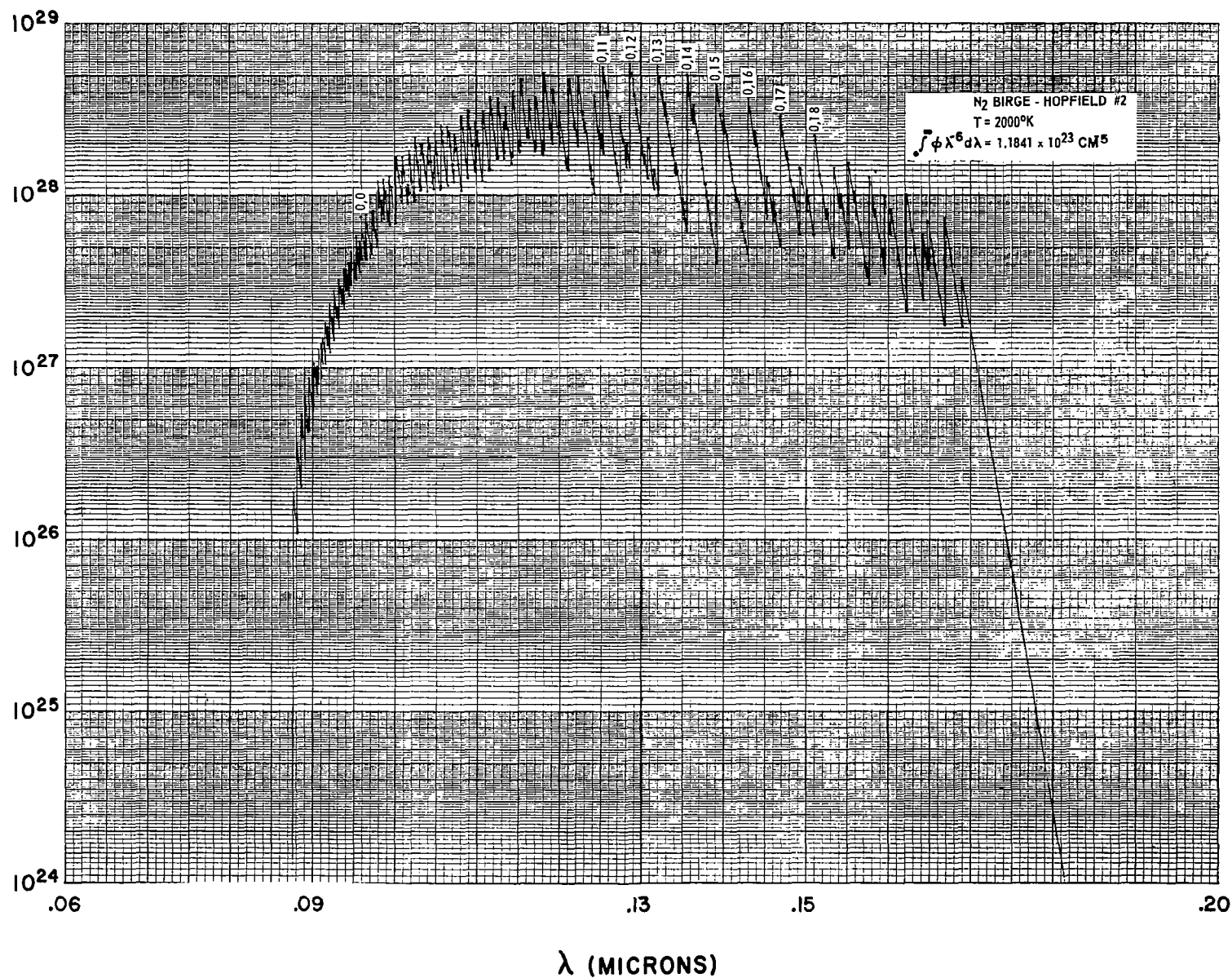
$\phi \lambda^{-6} (\text{CM}^{-6})$

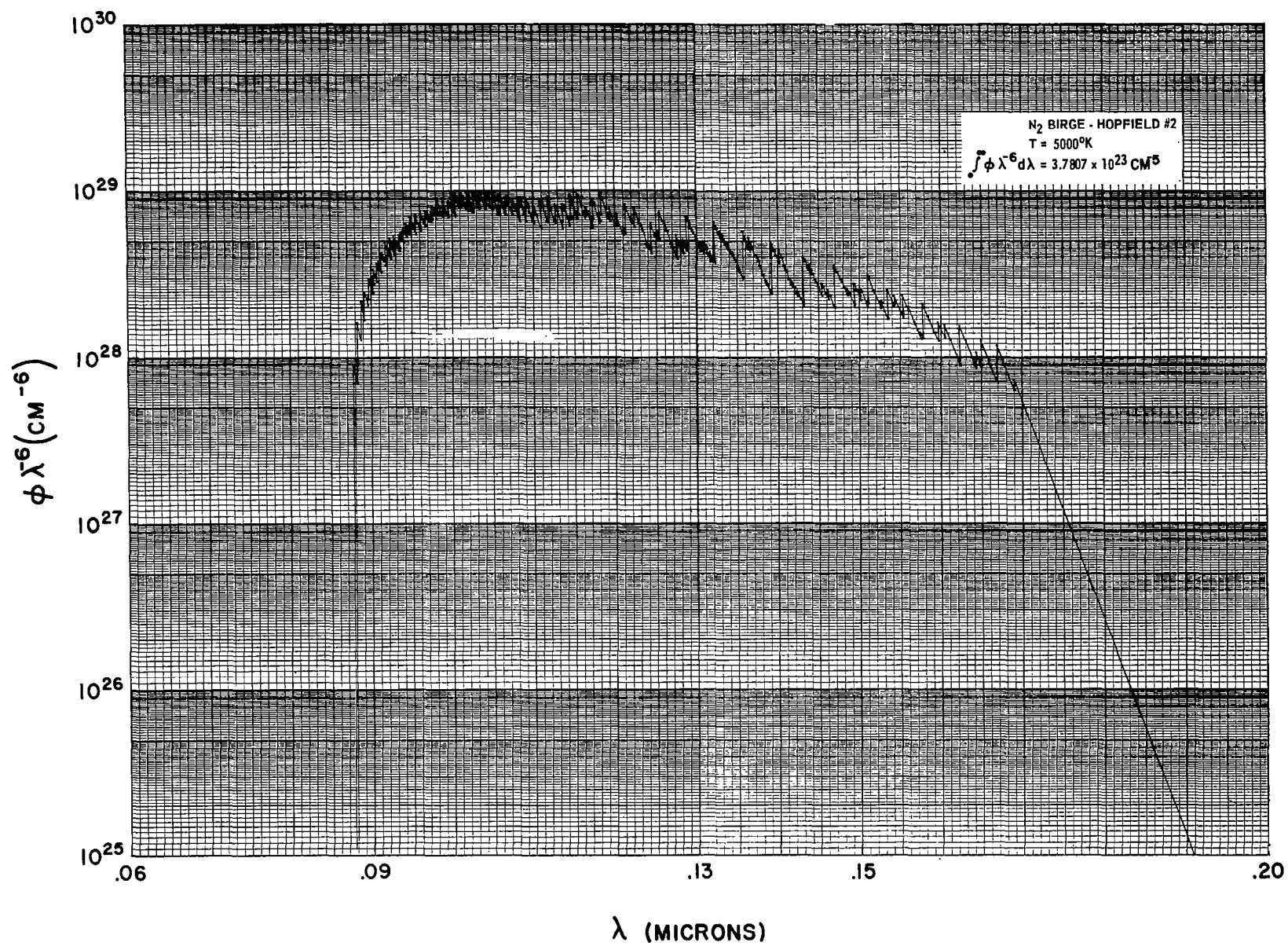


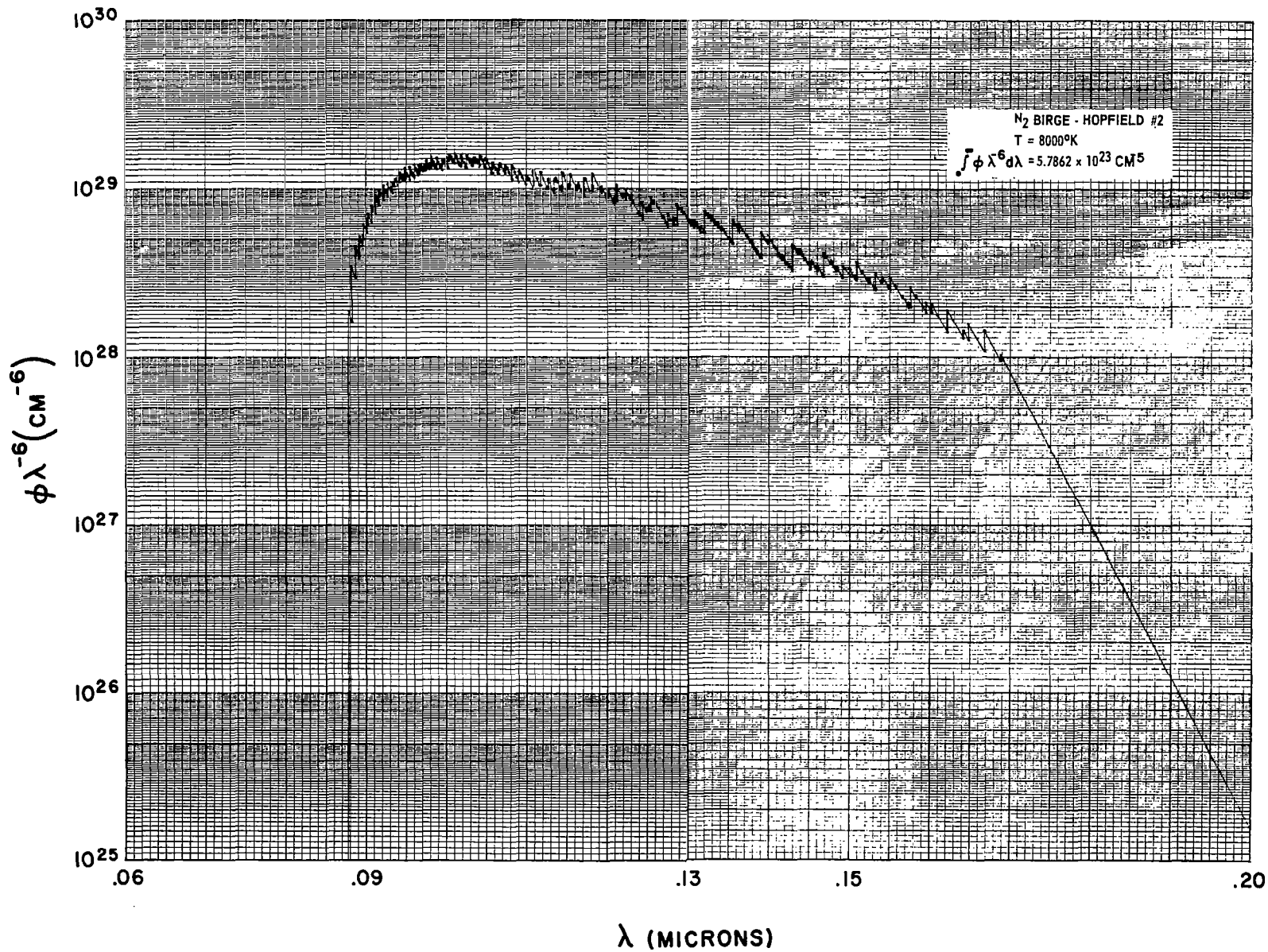


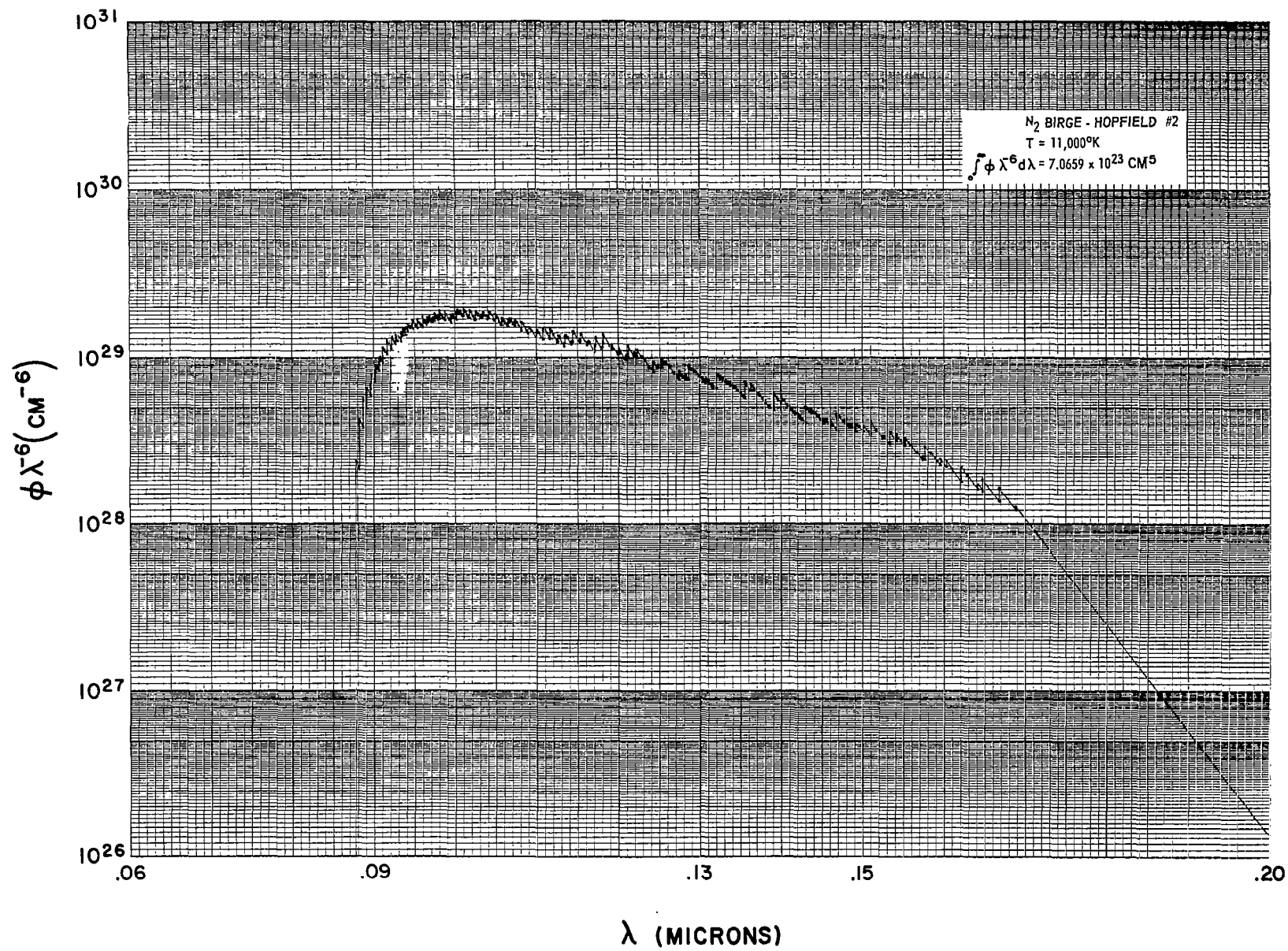
I 2 - III

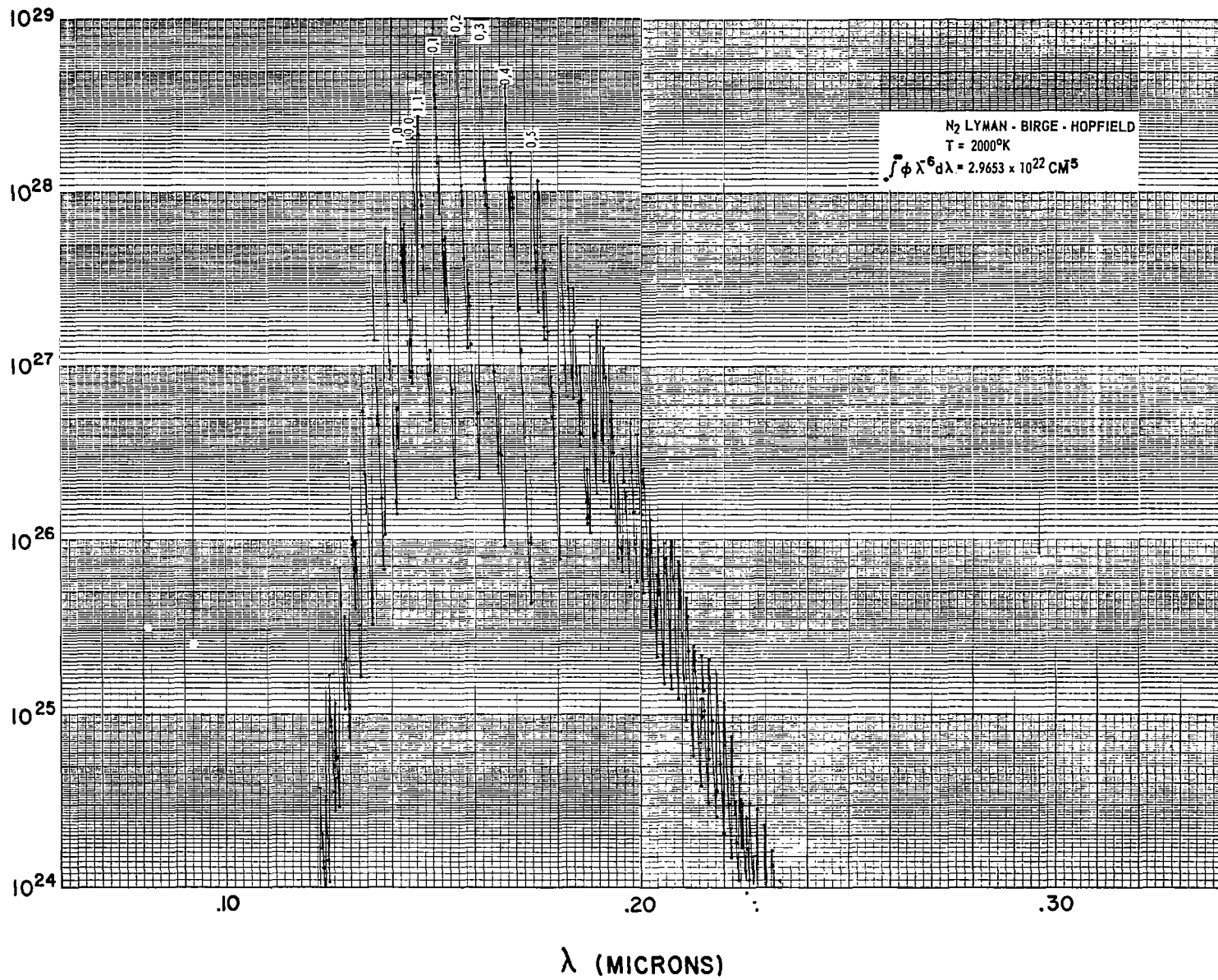
$\phi \lambda^{-6} (\text{CM}^{-6})$

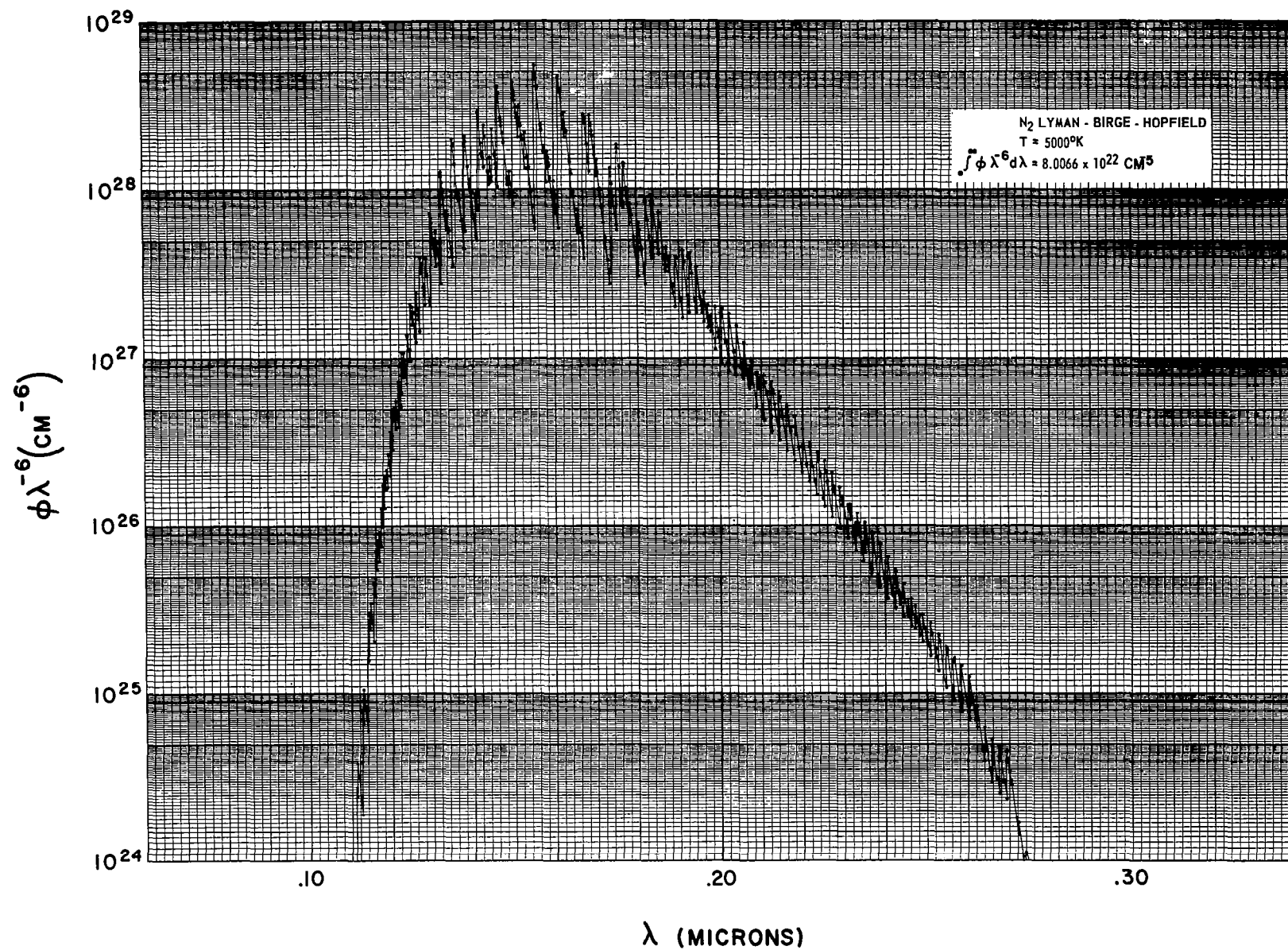


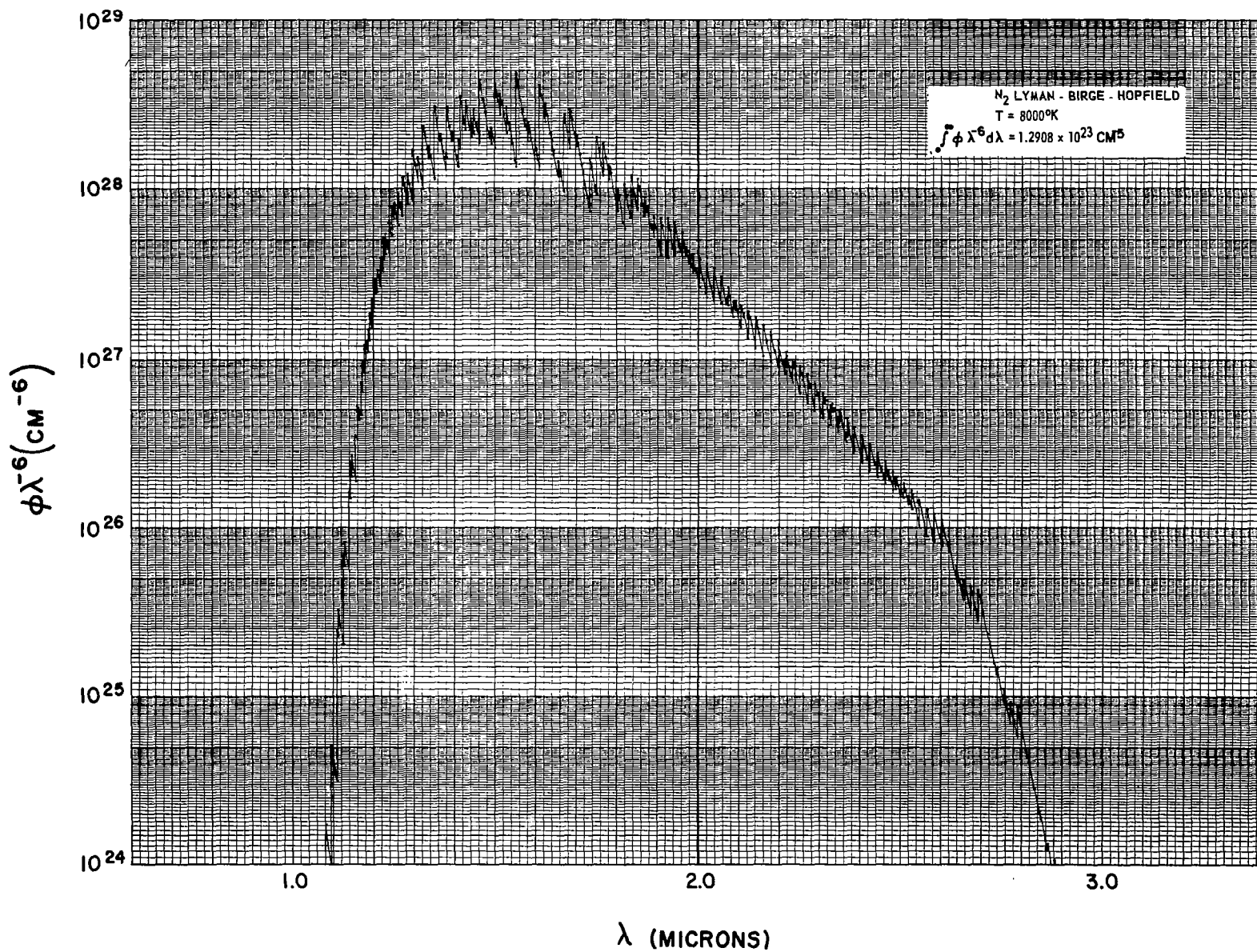


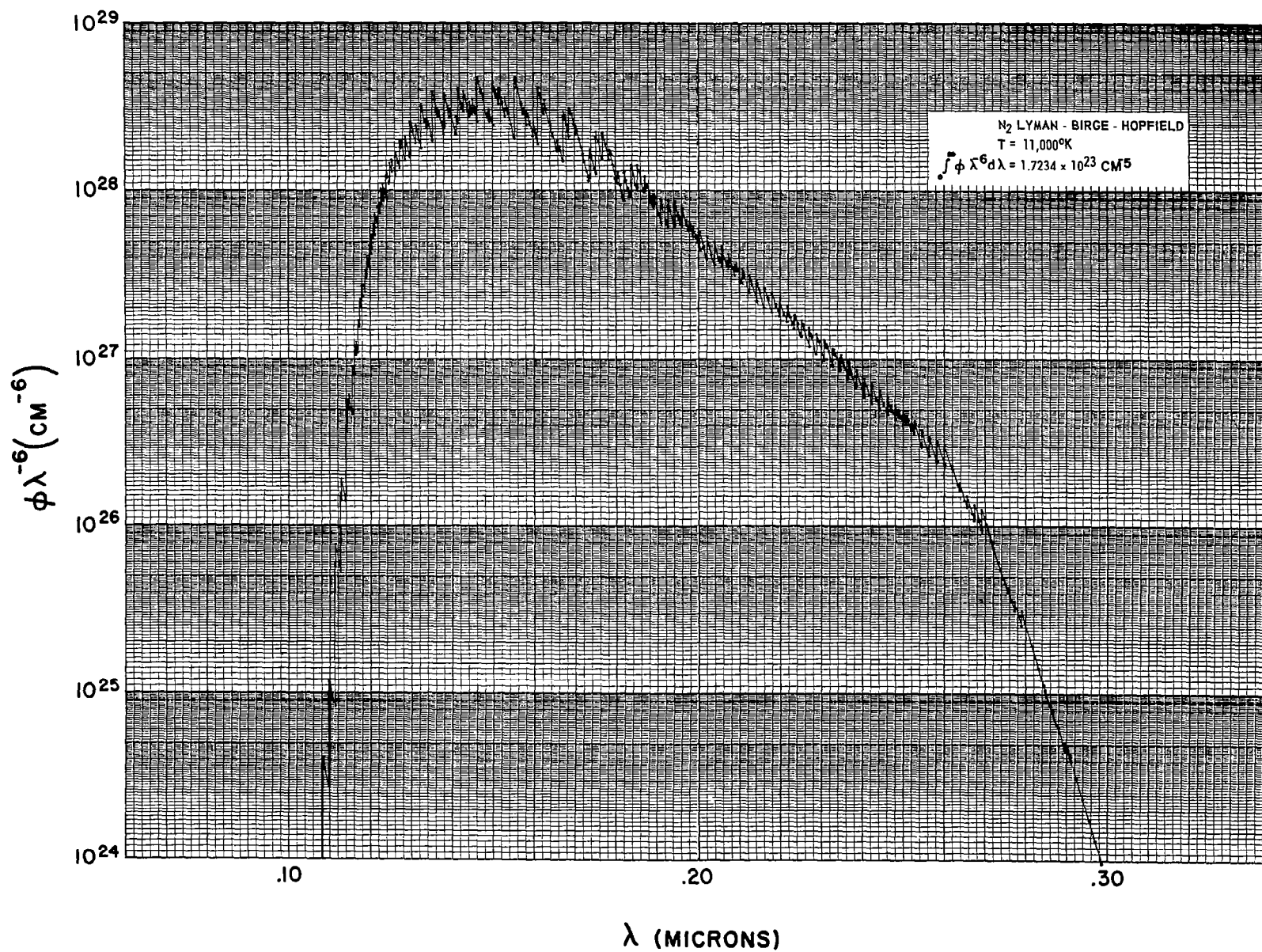


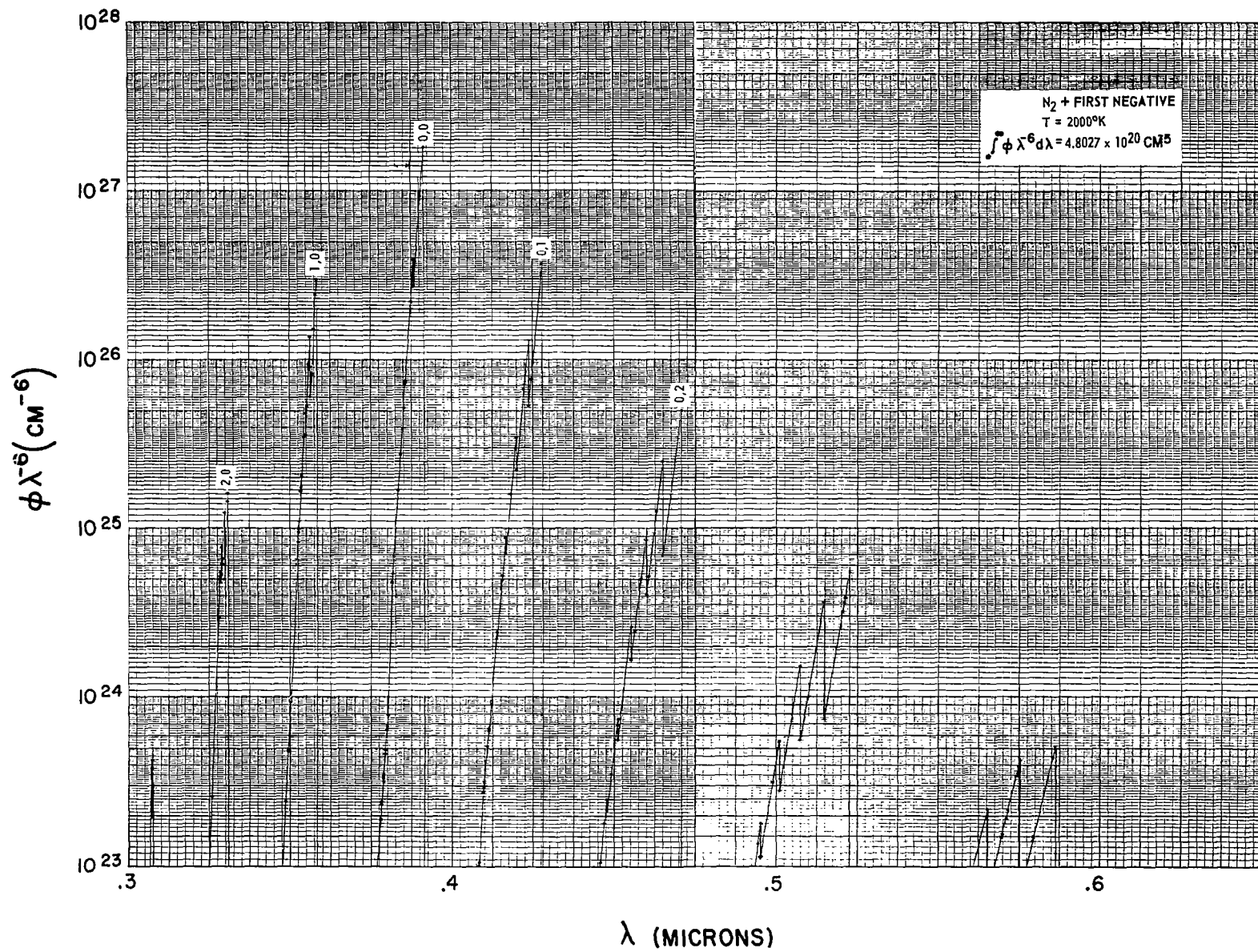


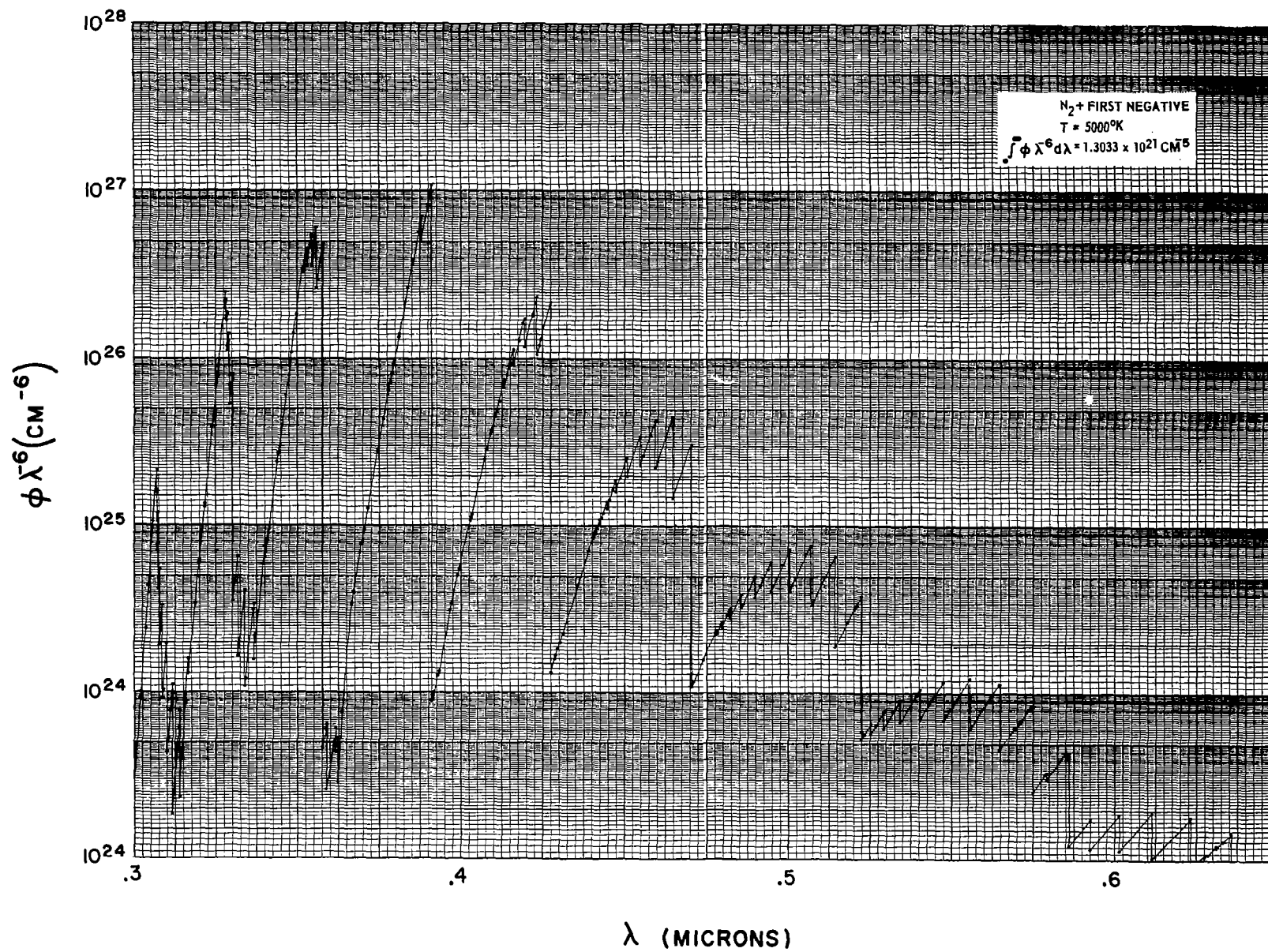
$\phi \lambda^{-6} (\text{cm}^{-6})$ 

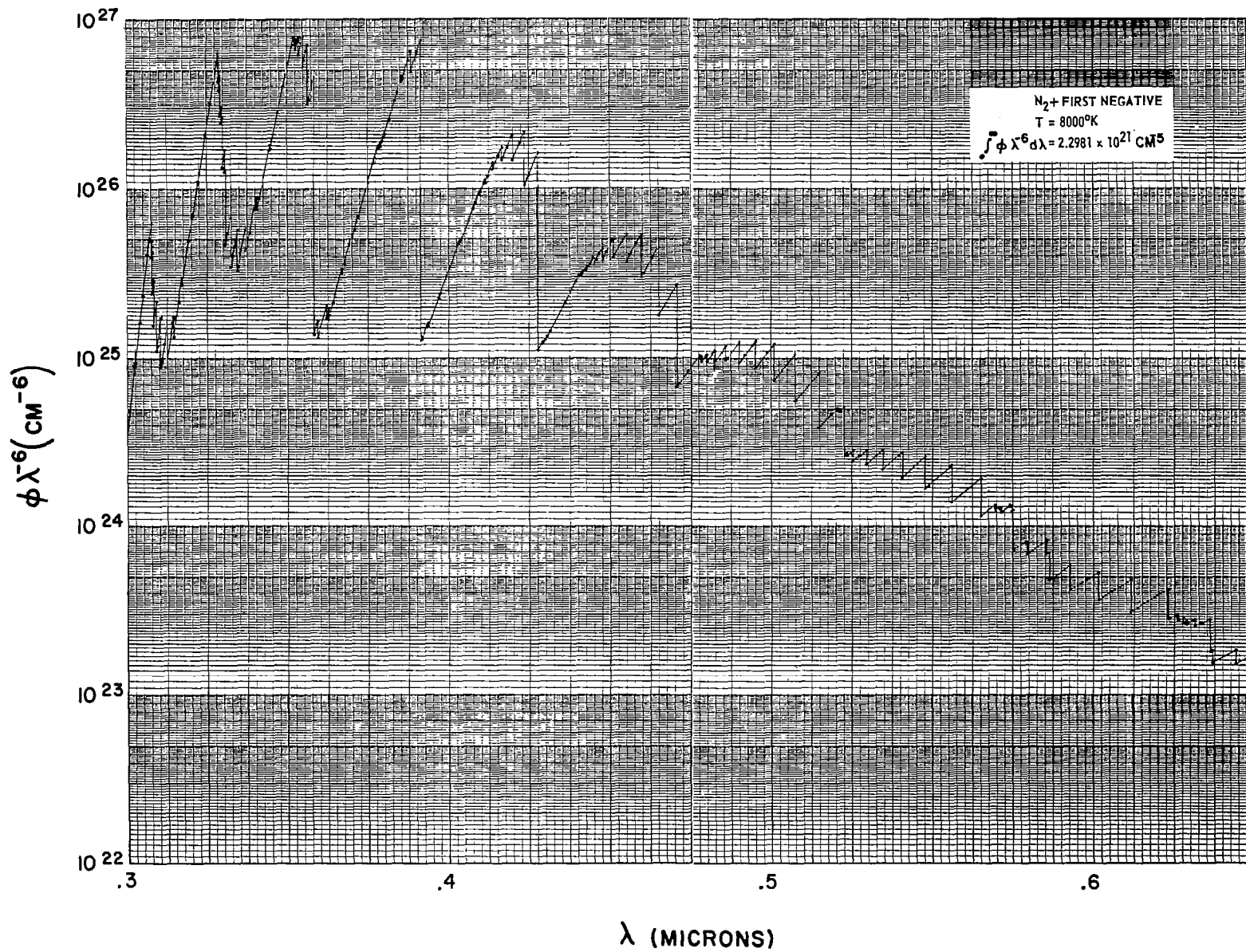


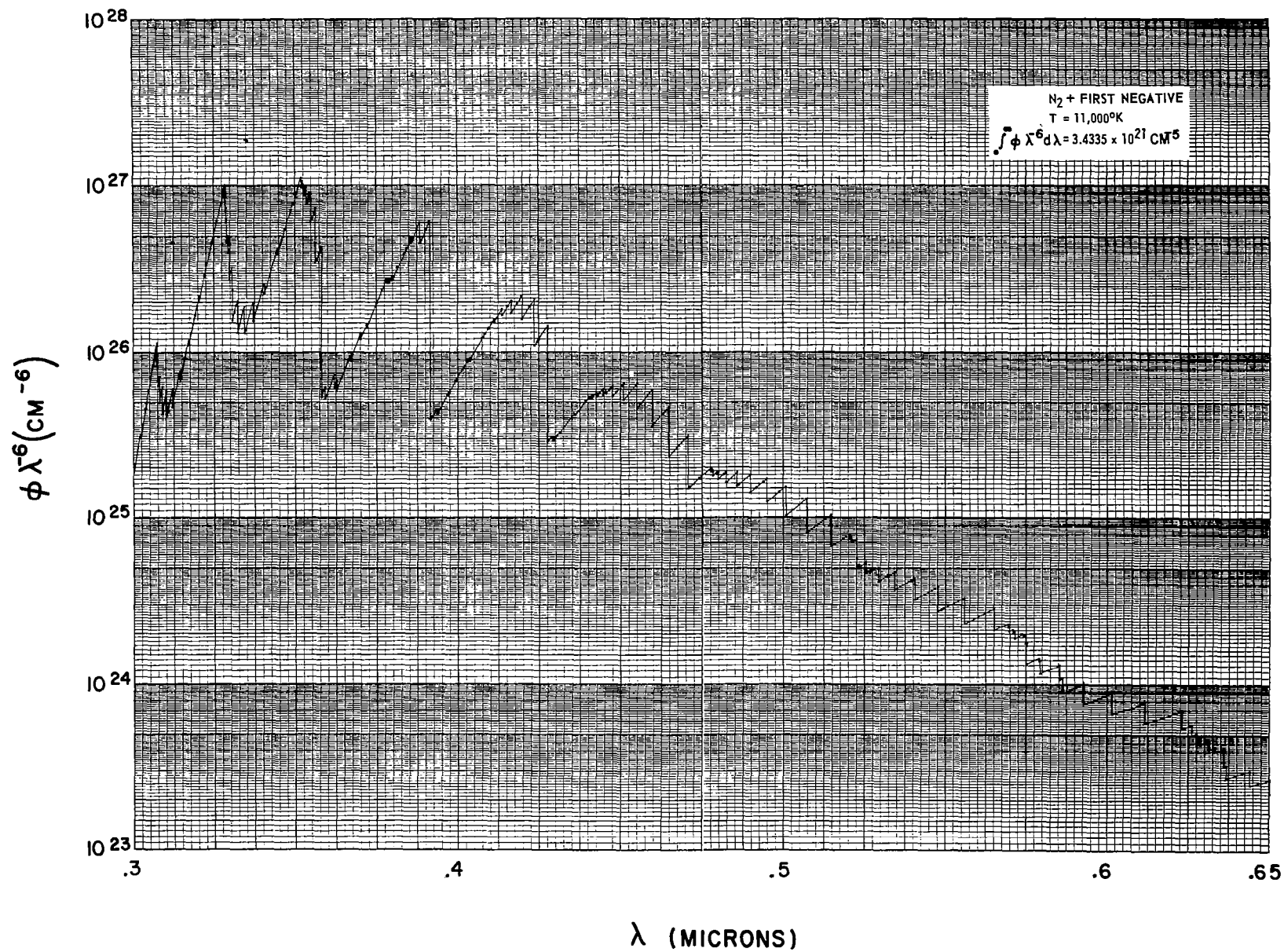


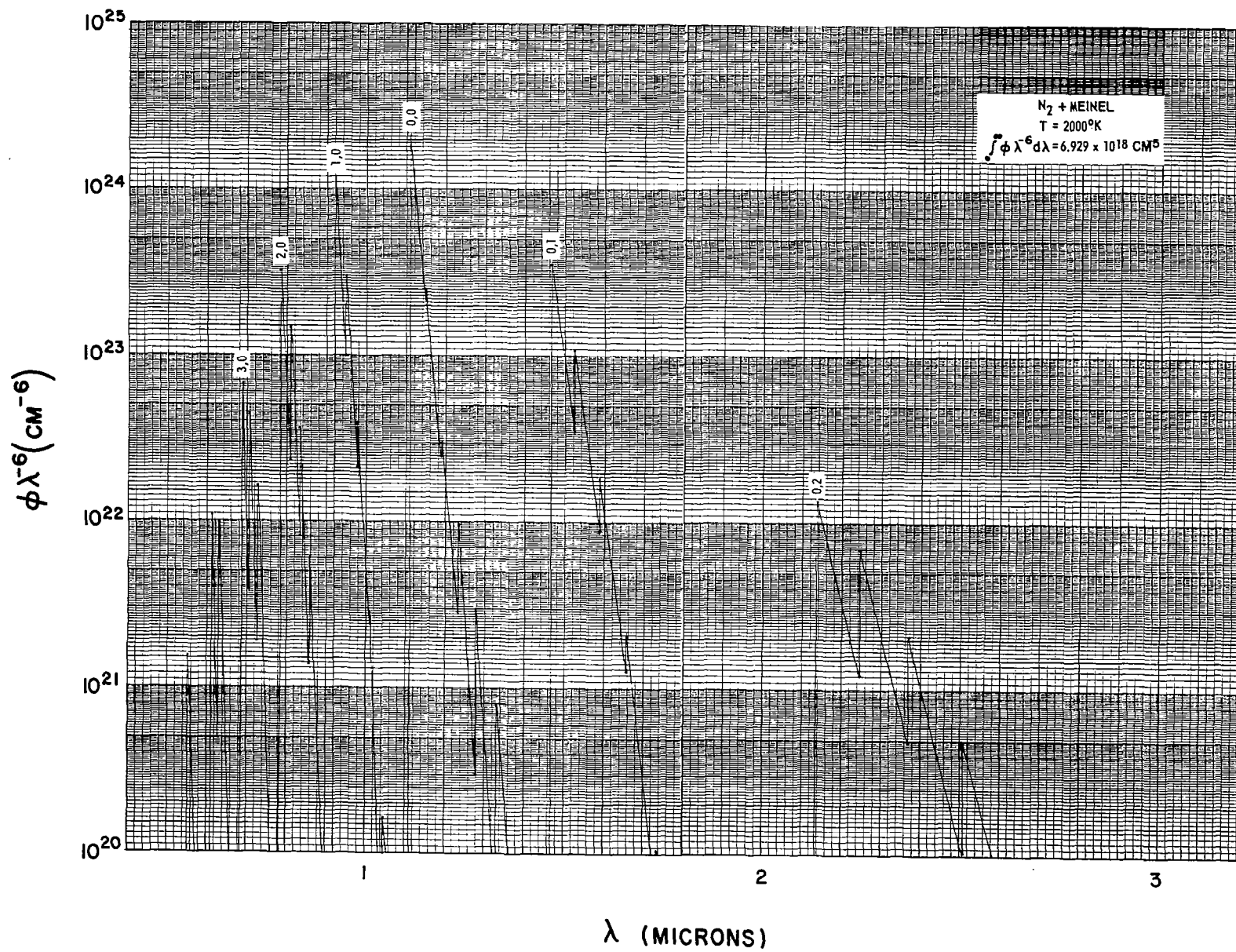


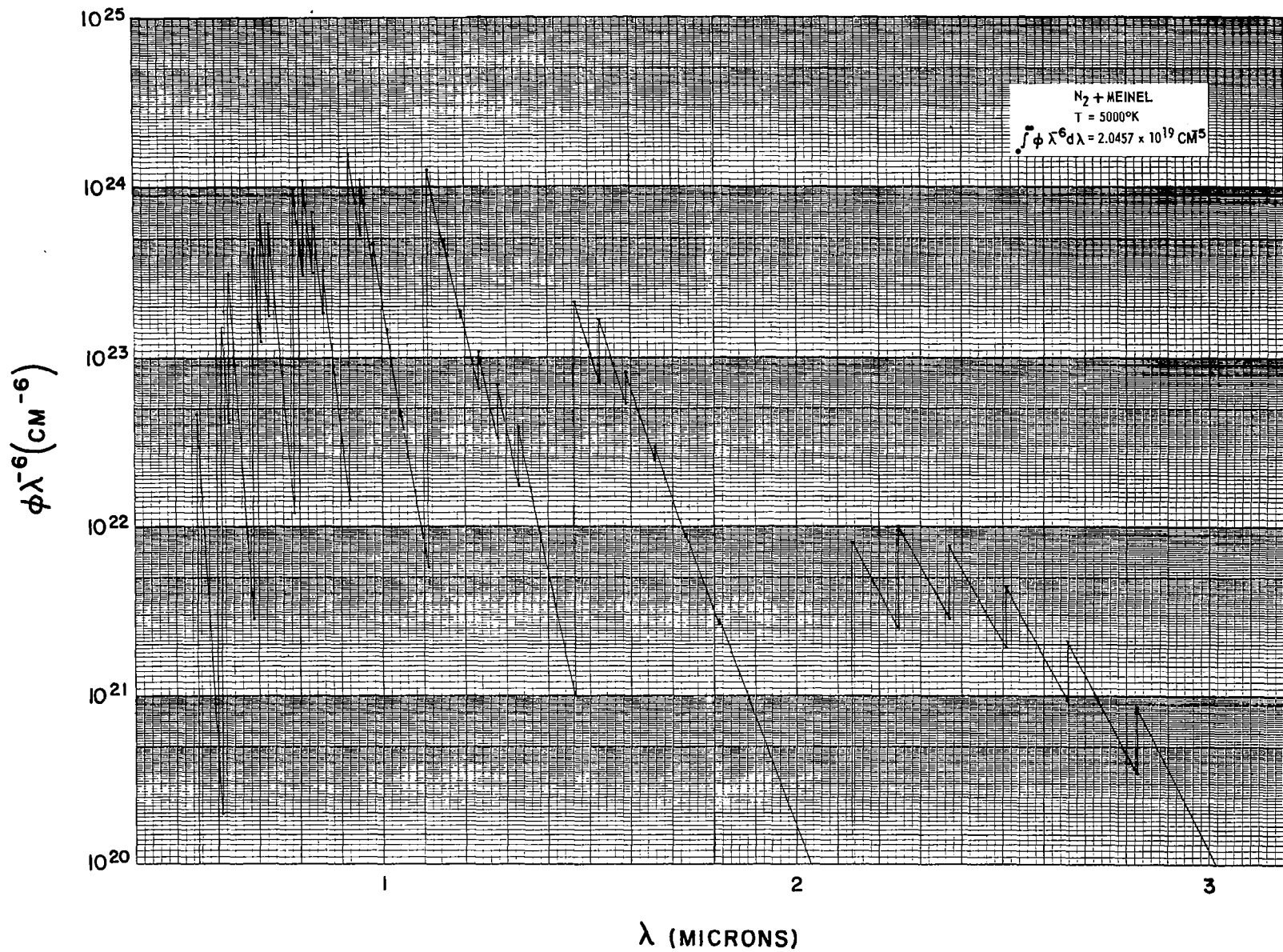


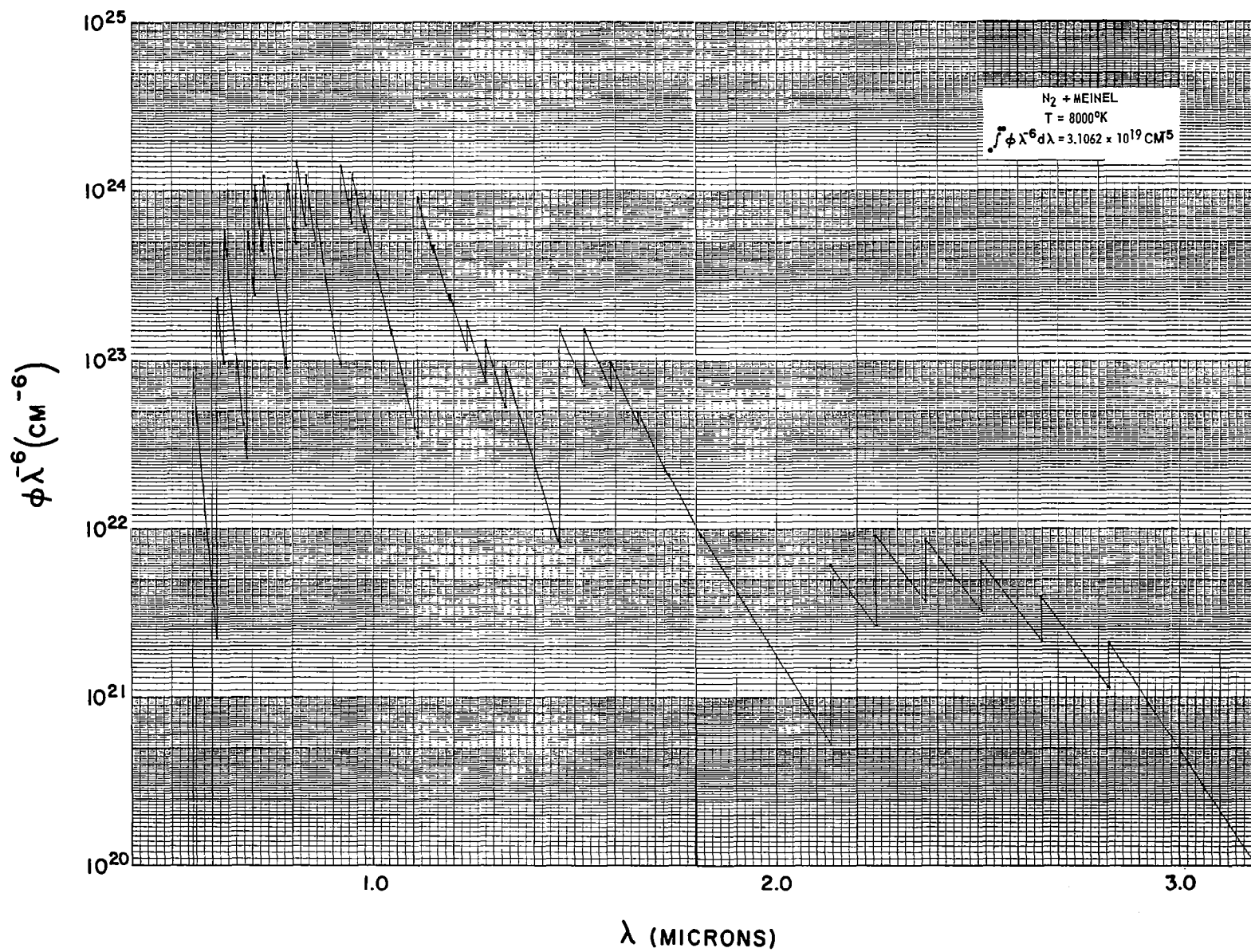


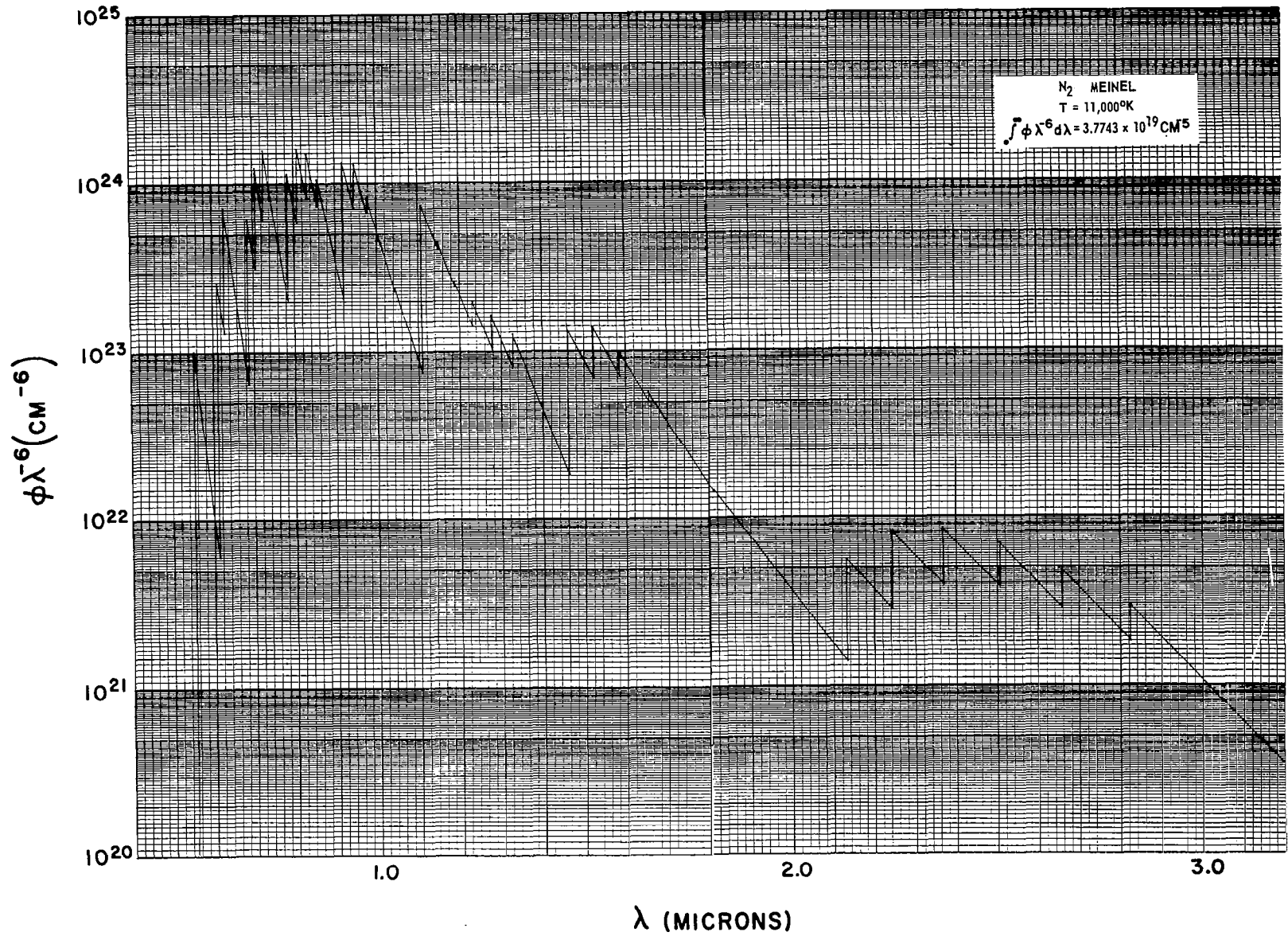


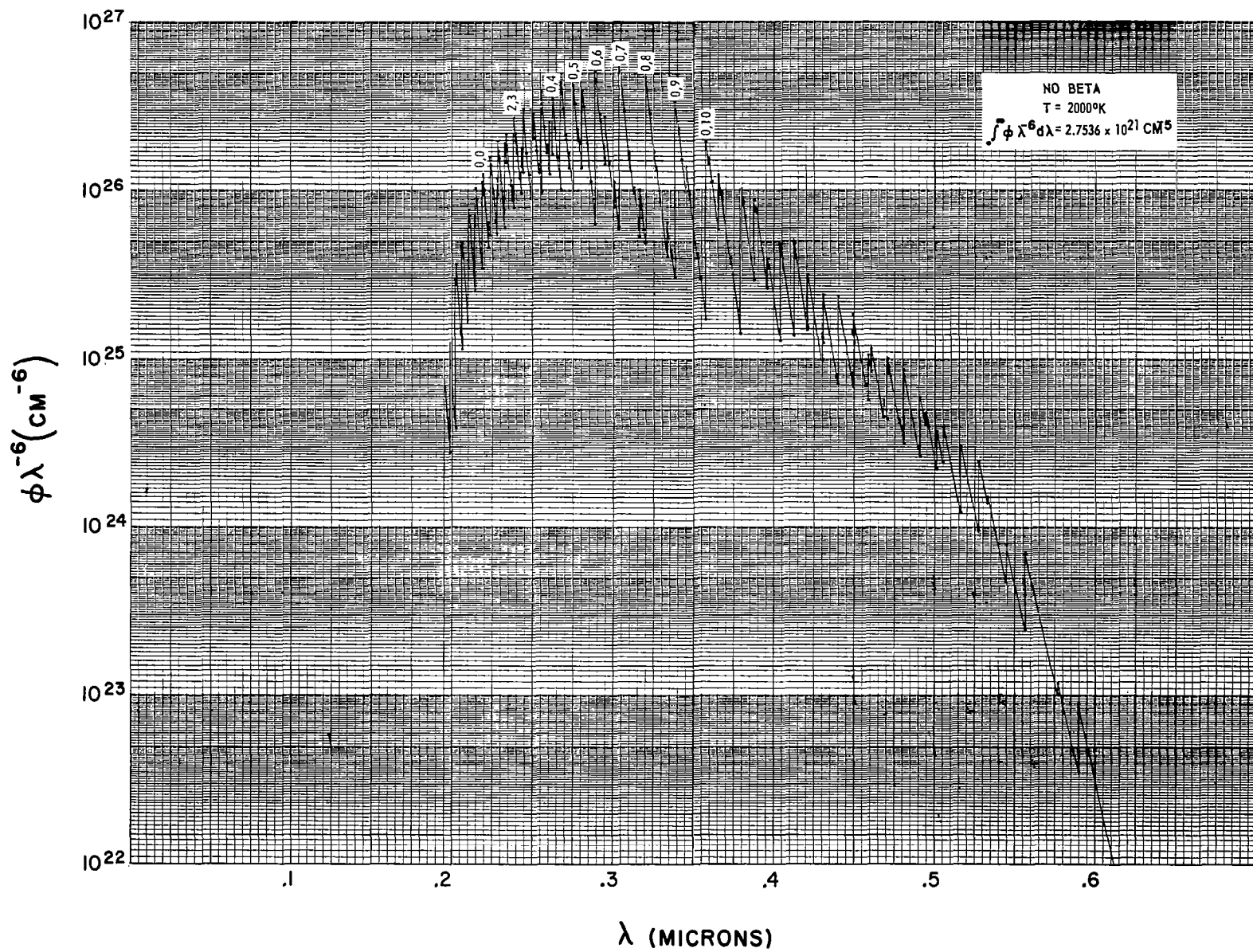


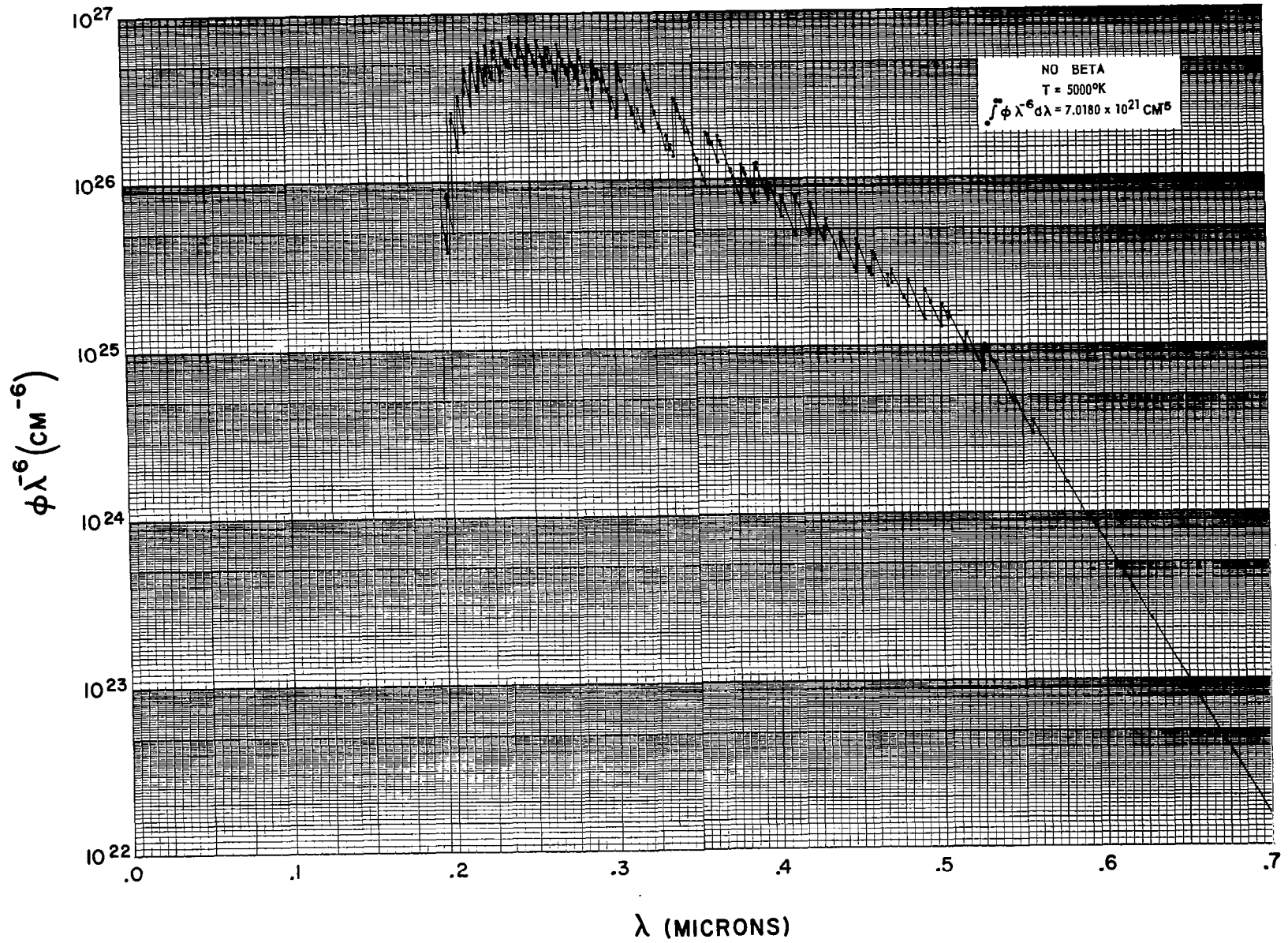


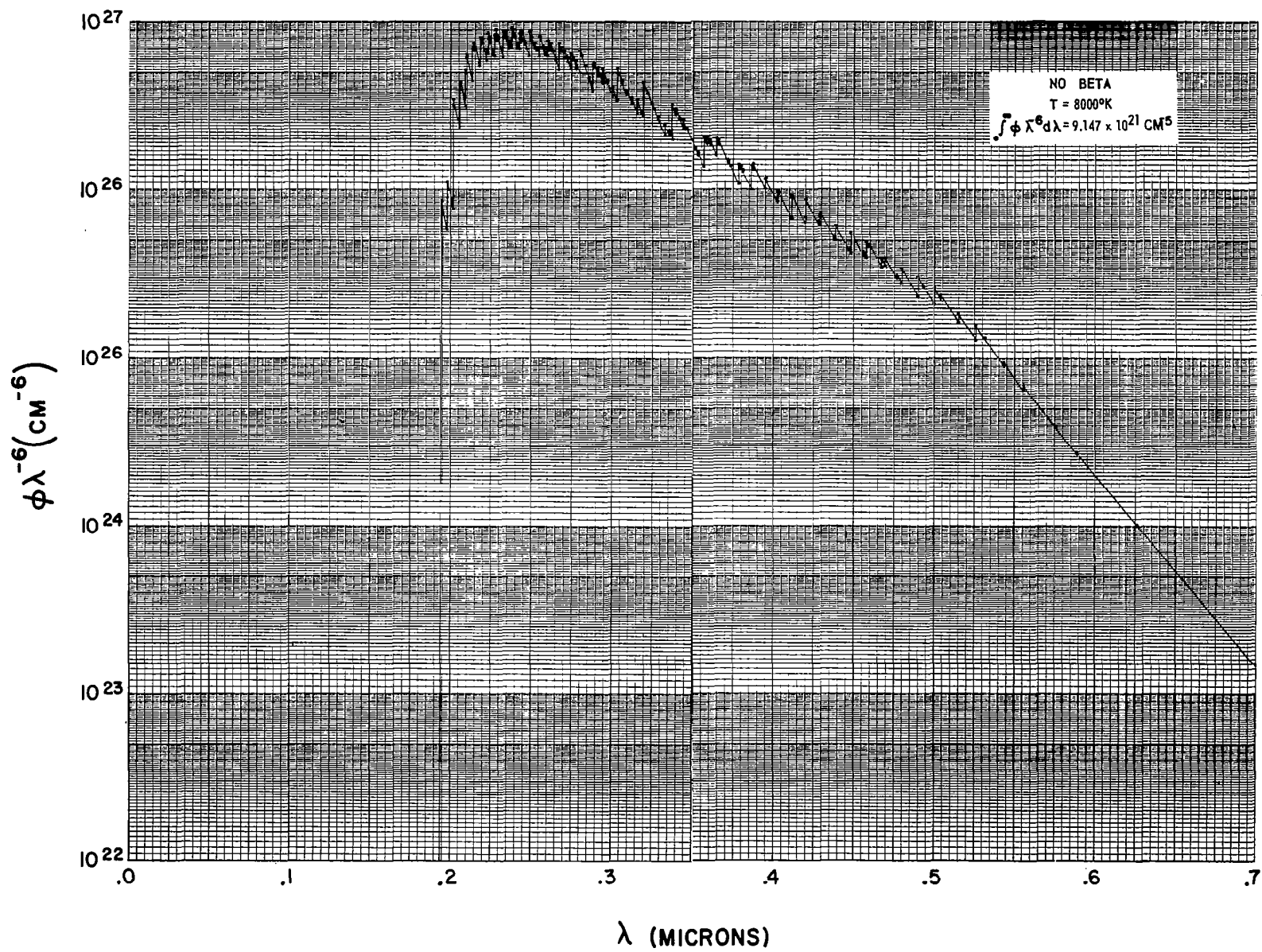


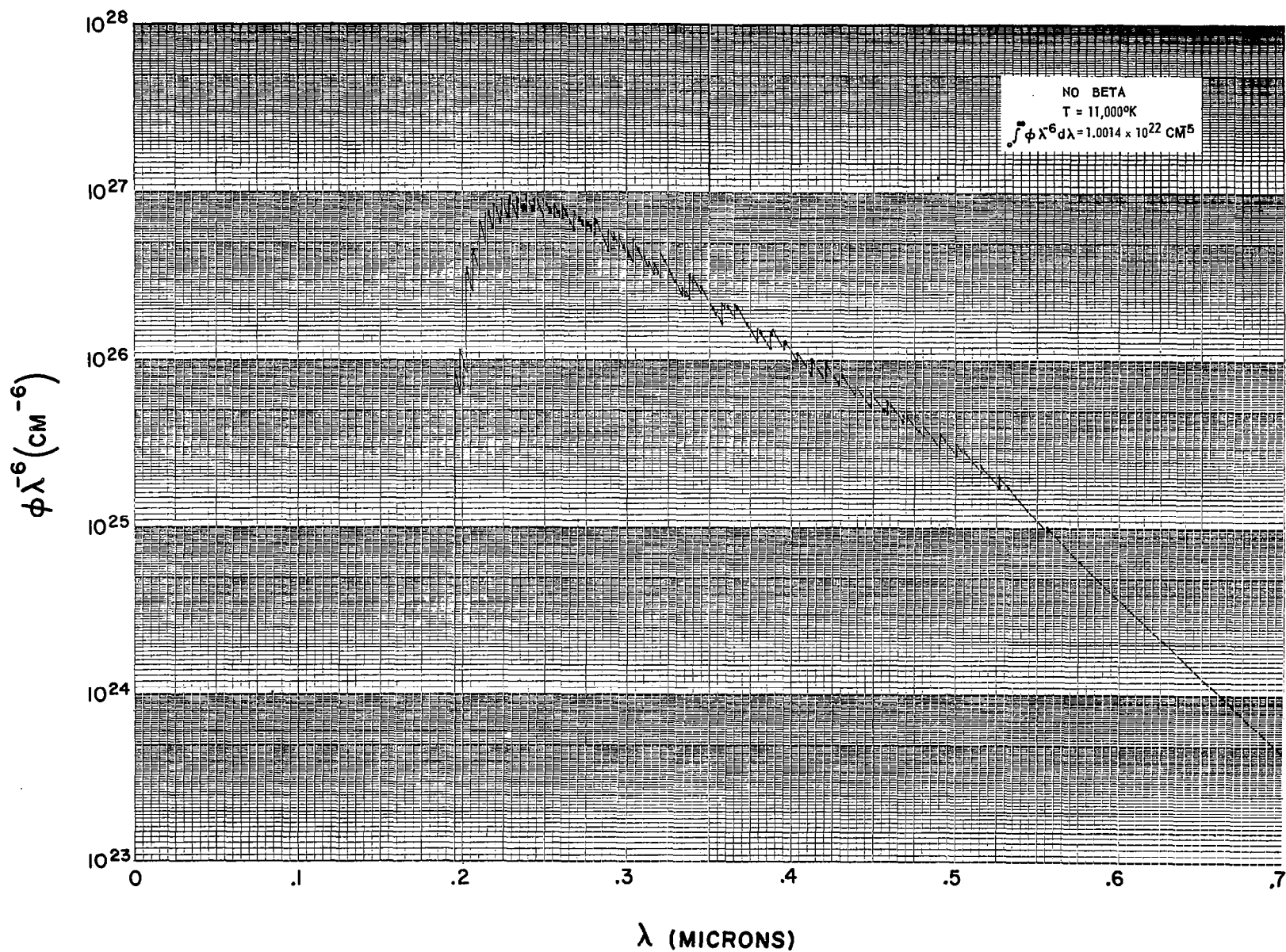


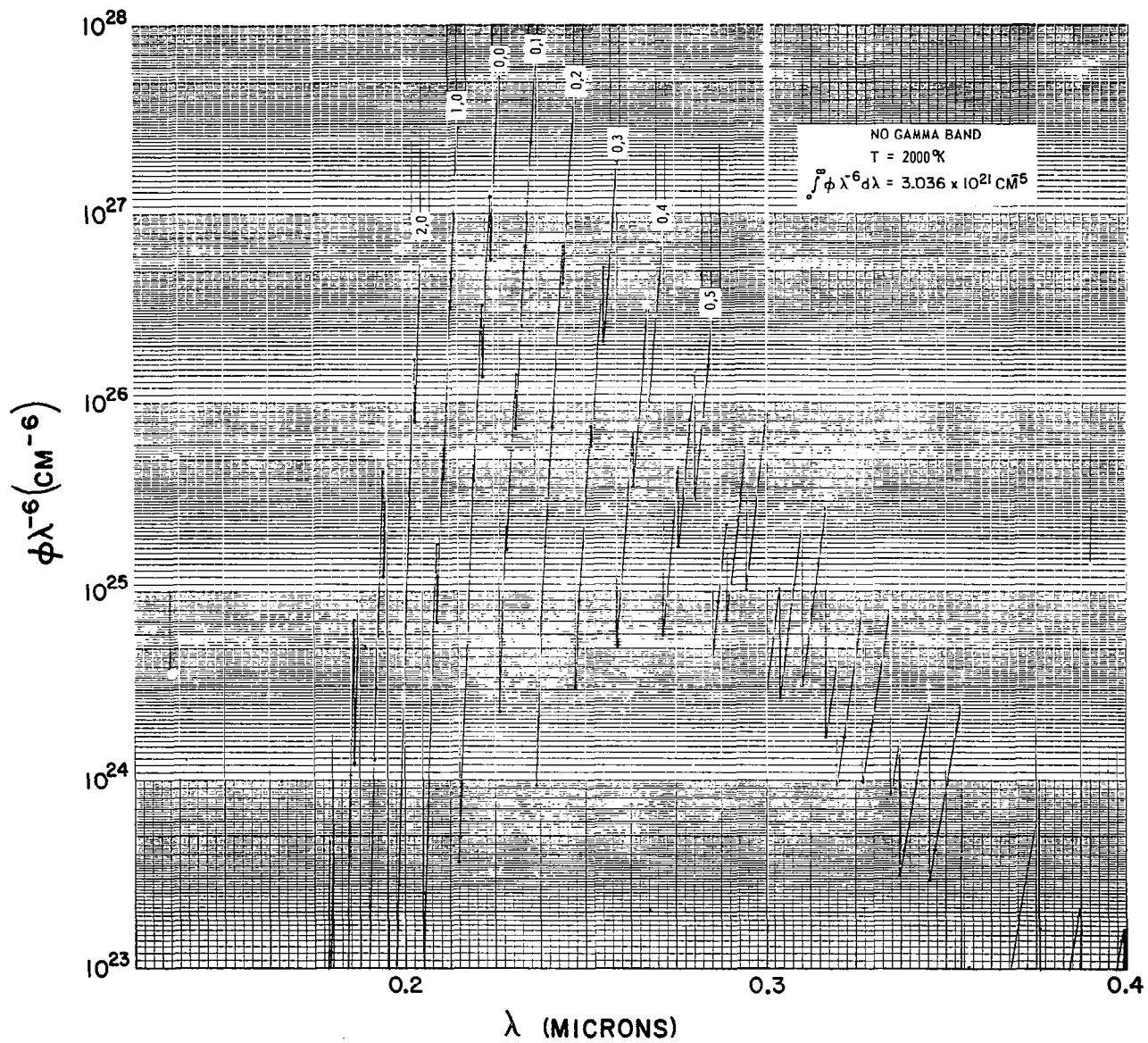


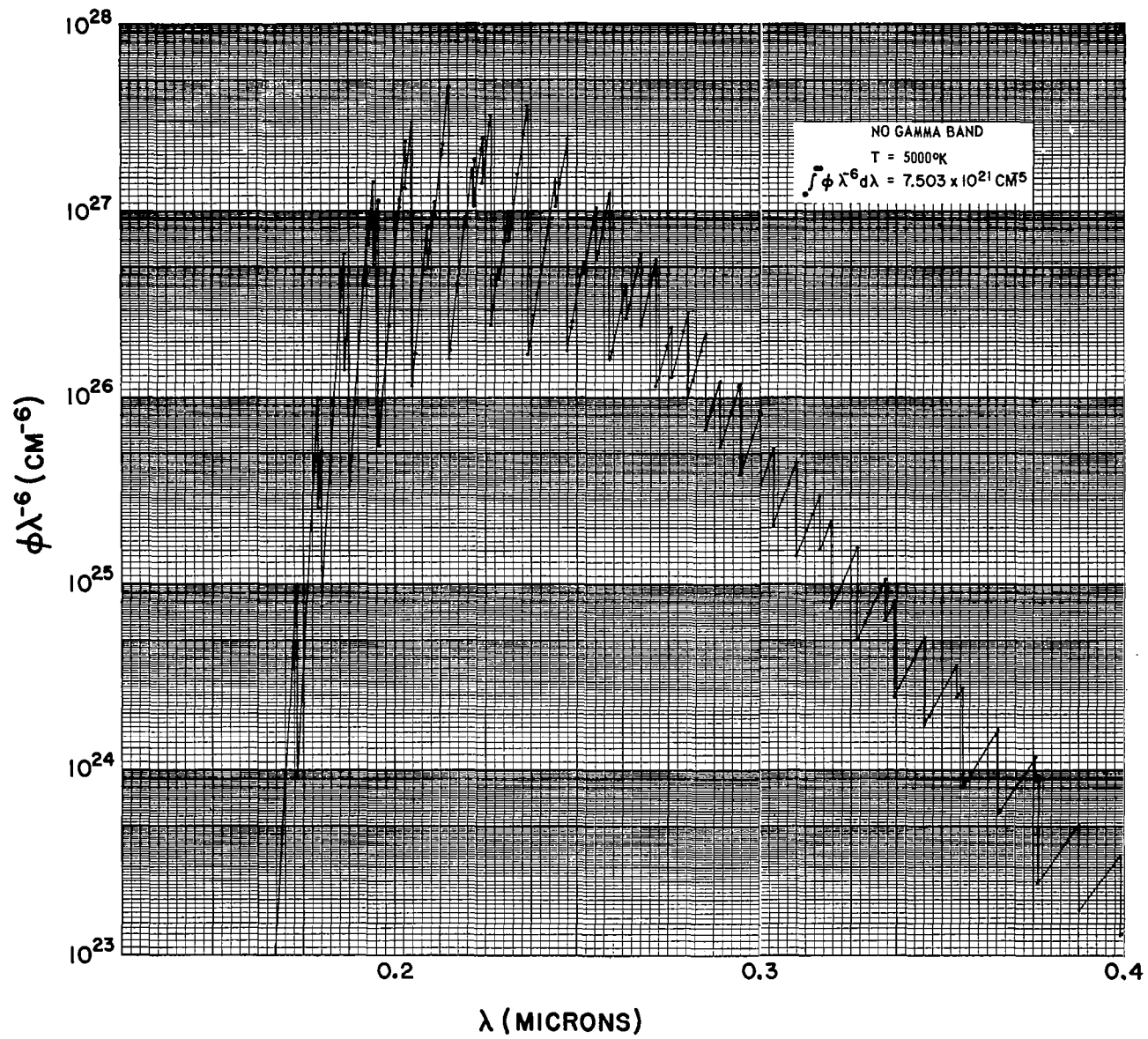


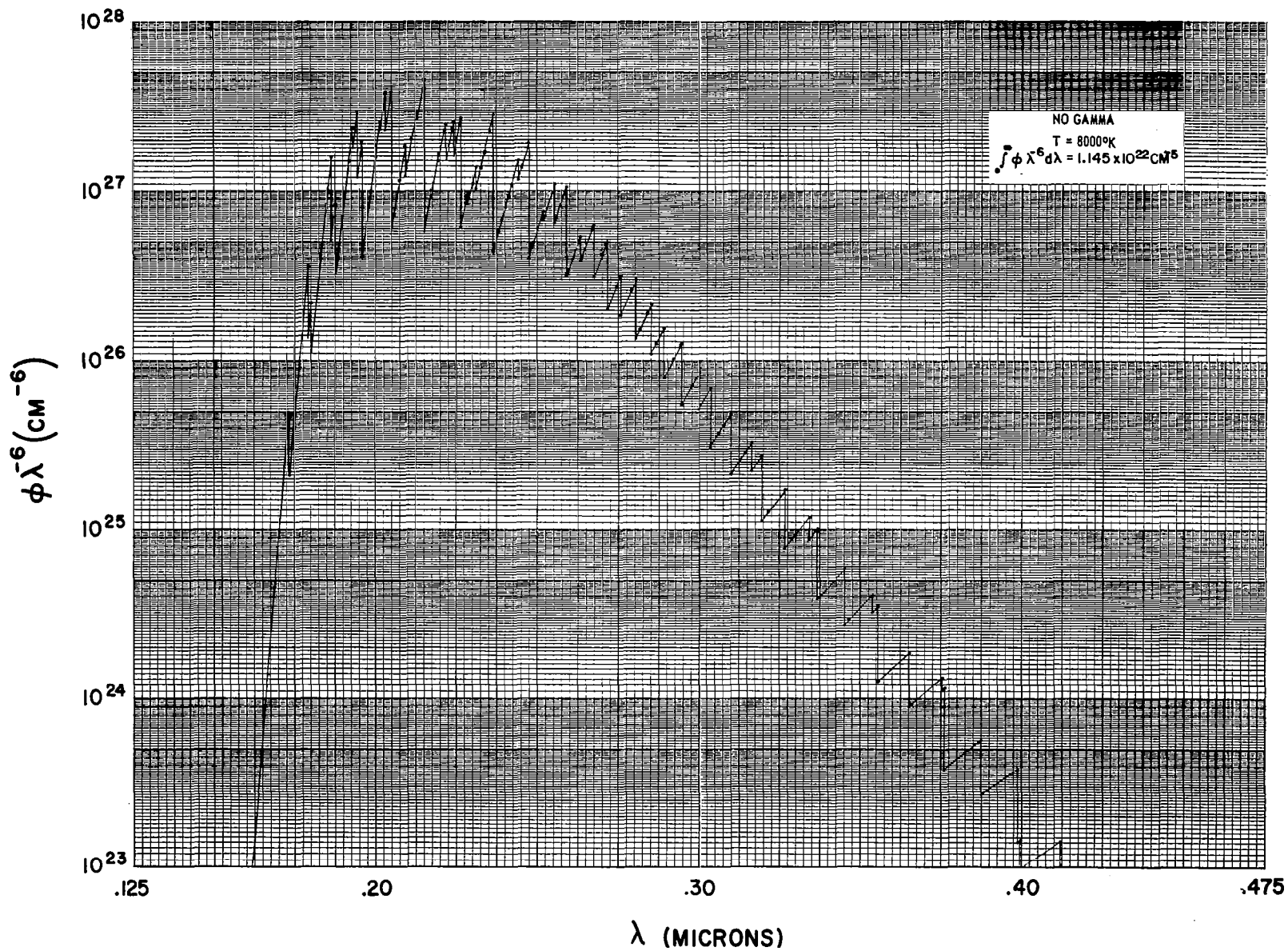


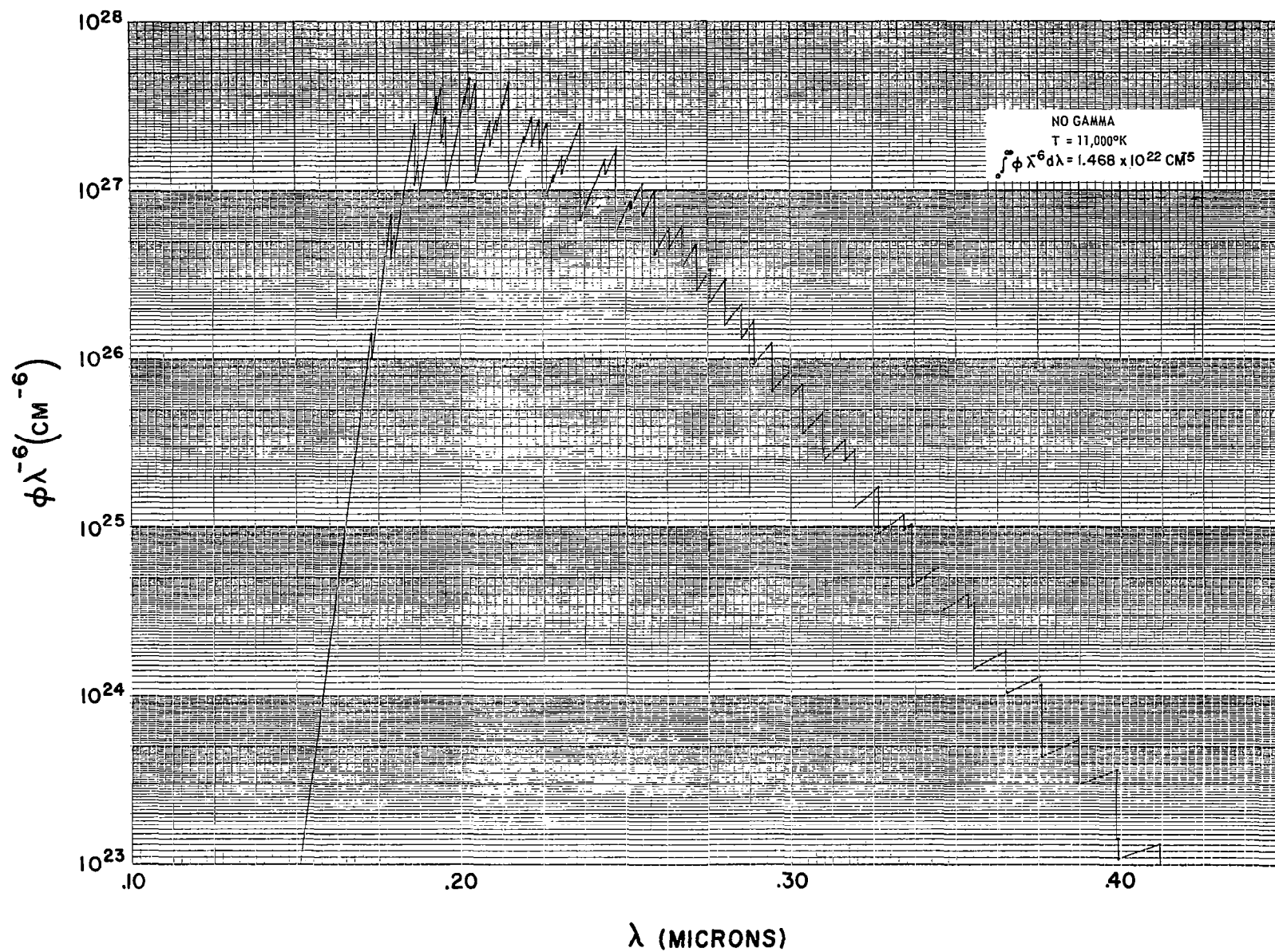


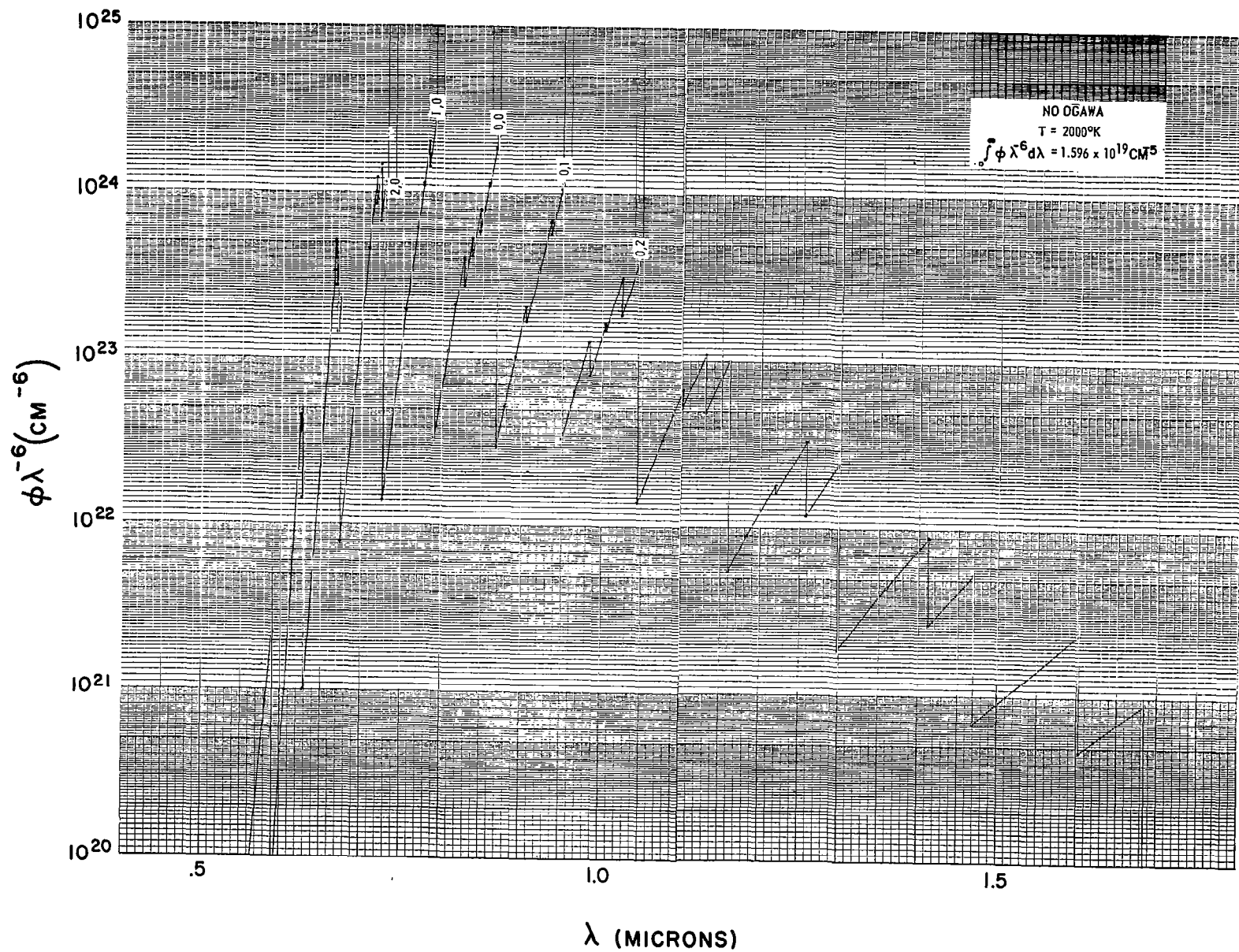


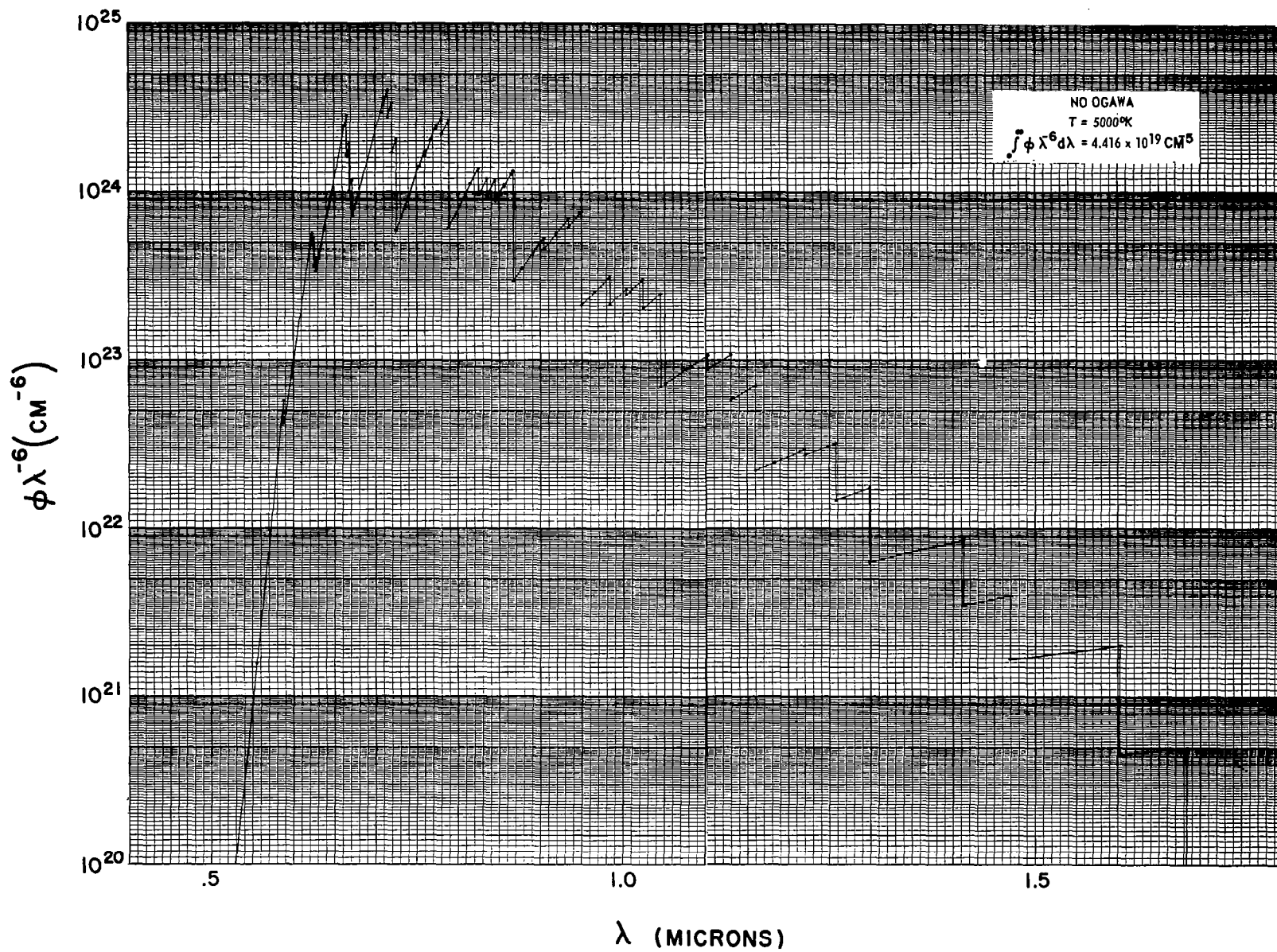


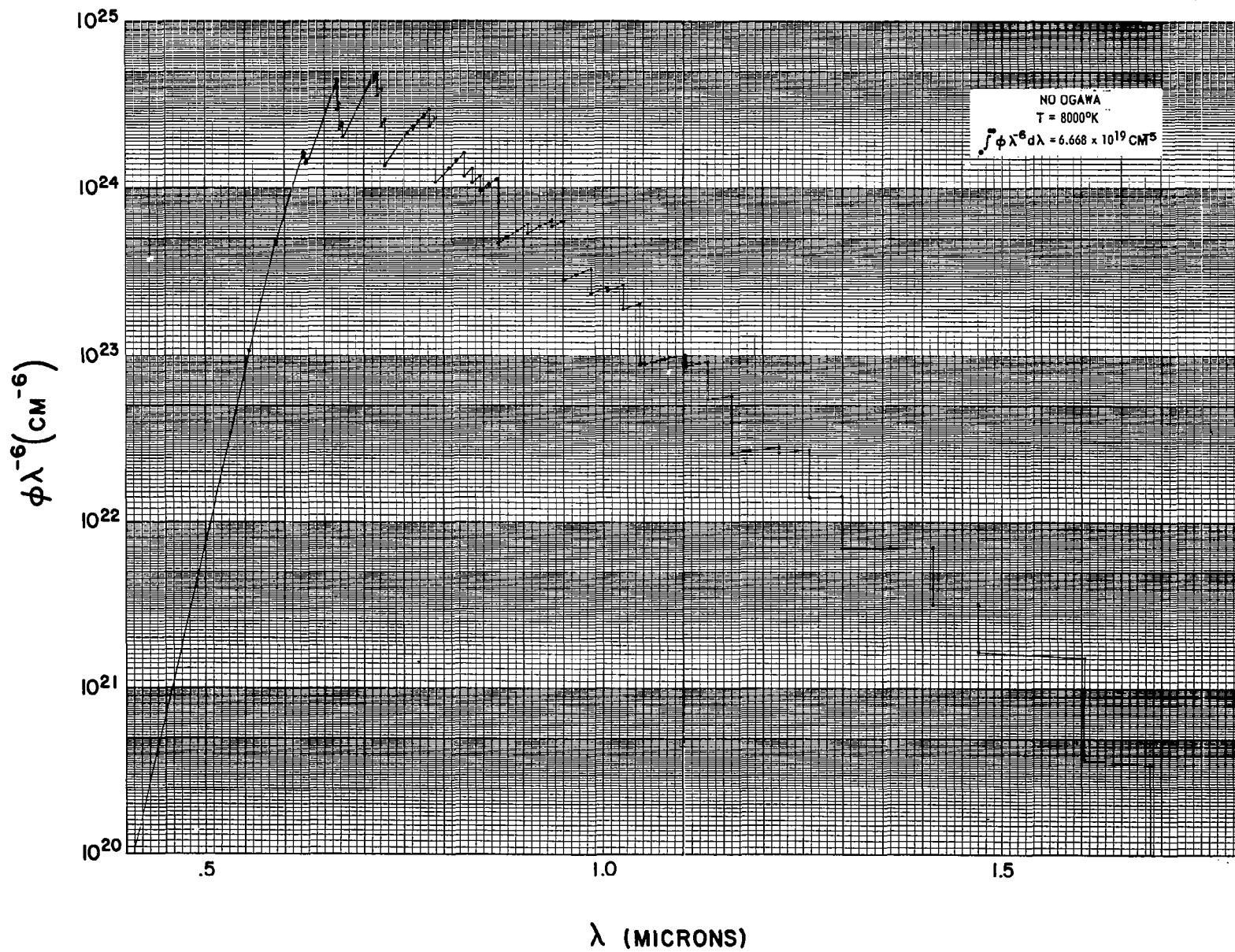


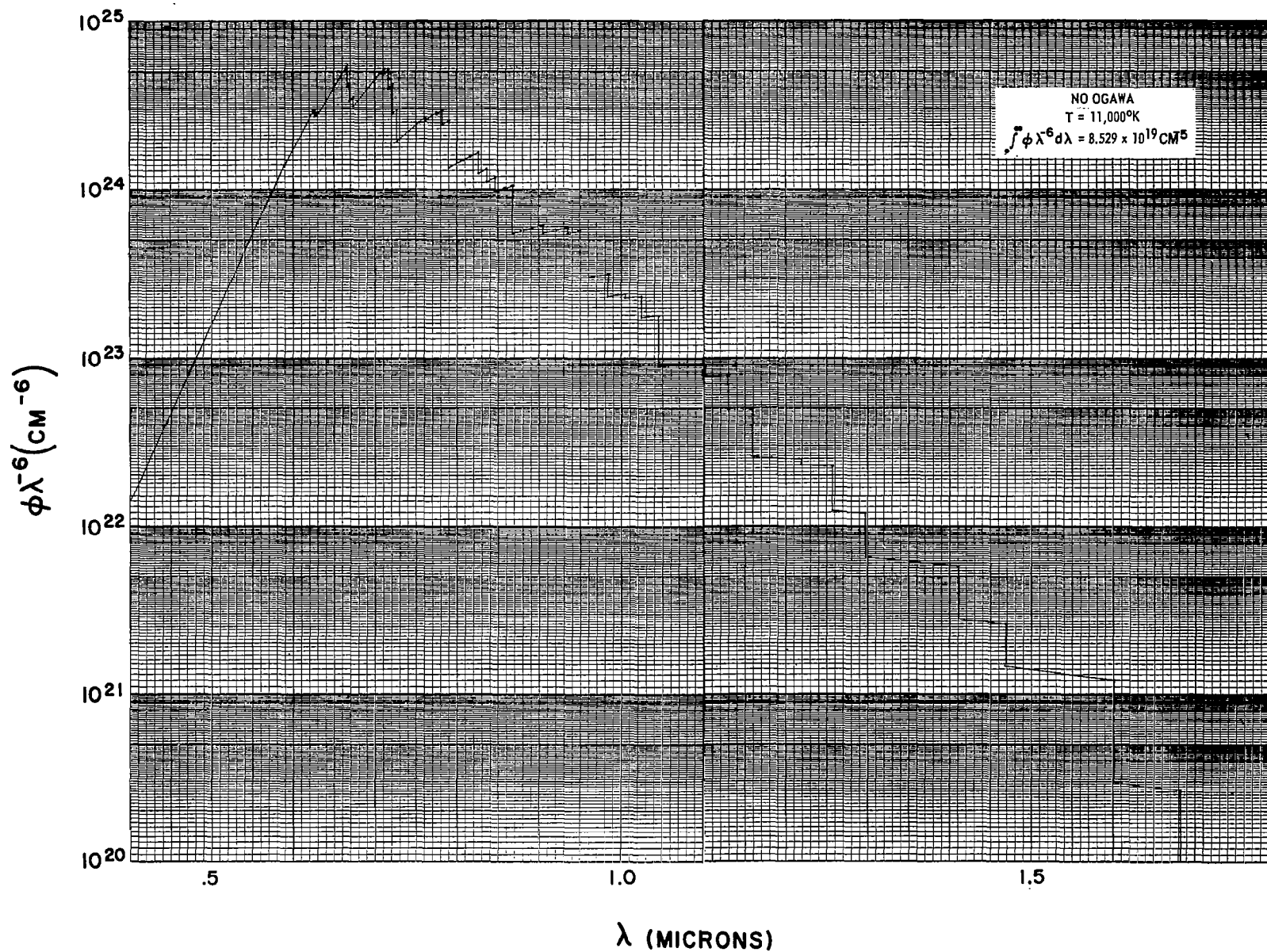


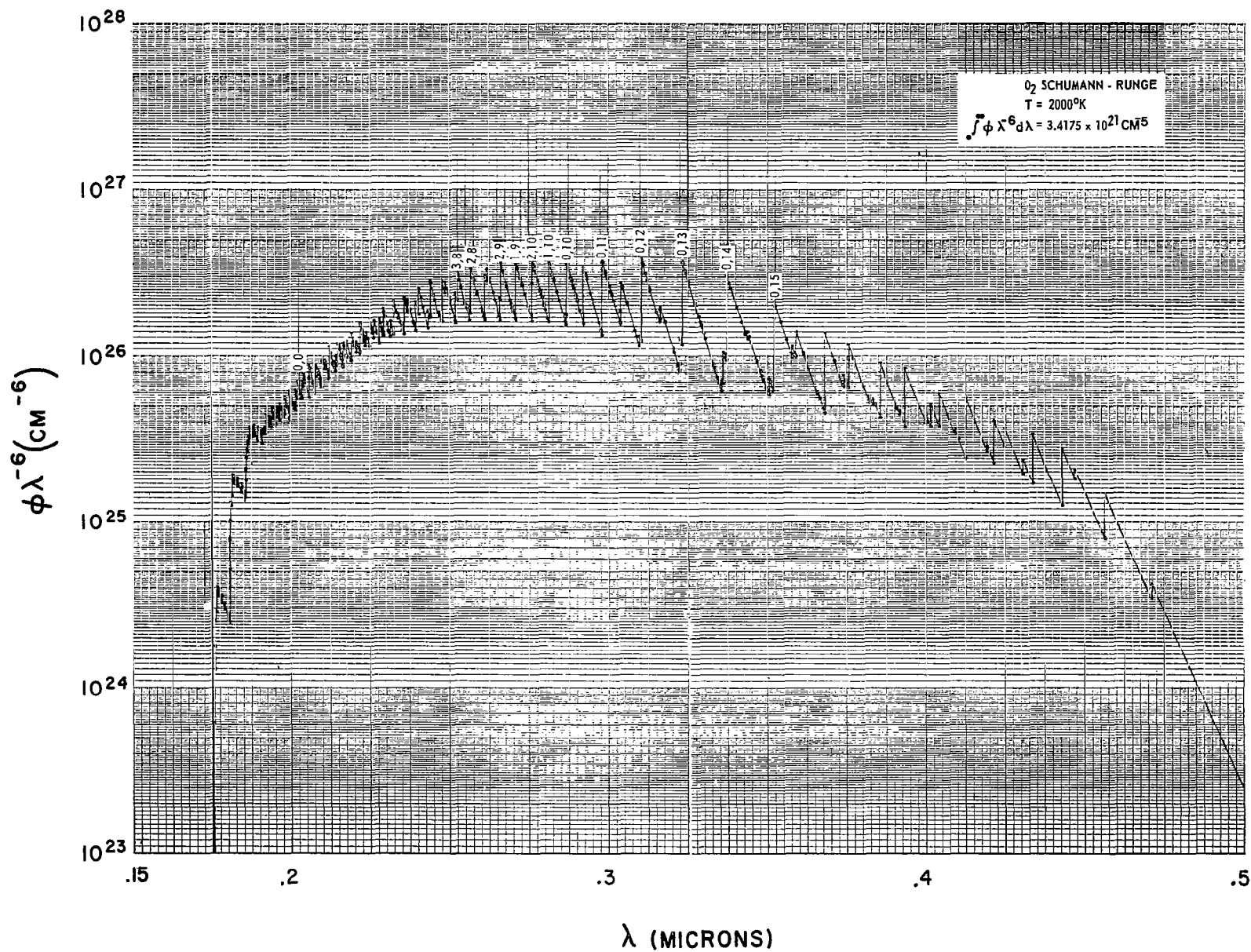


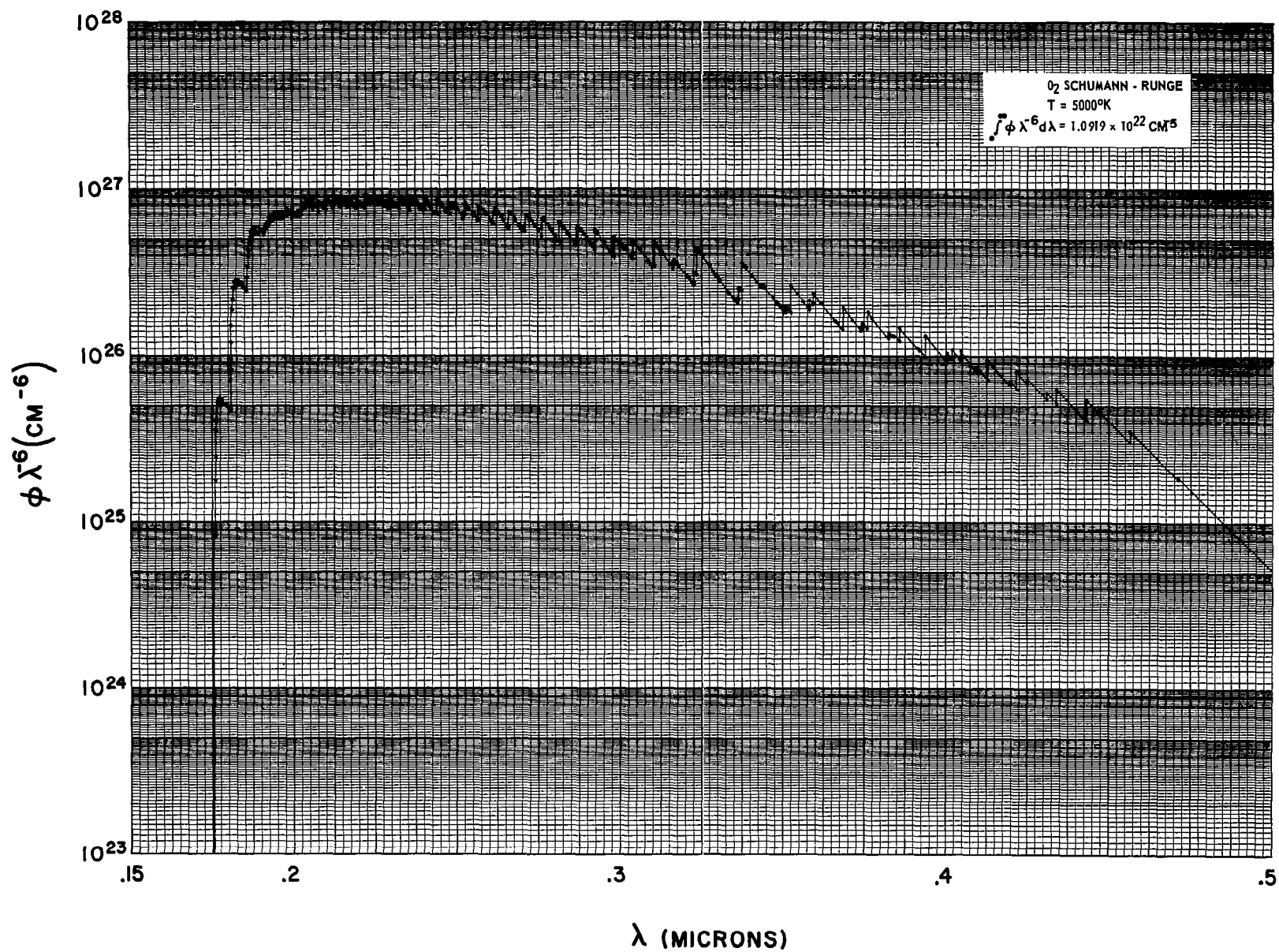




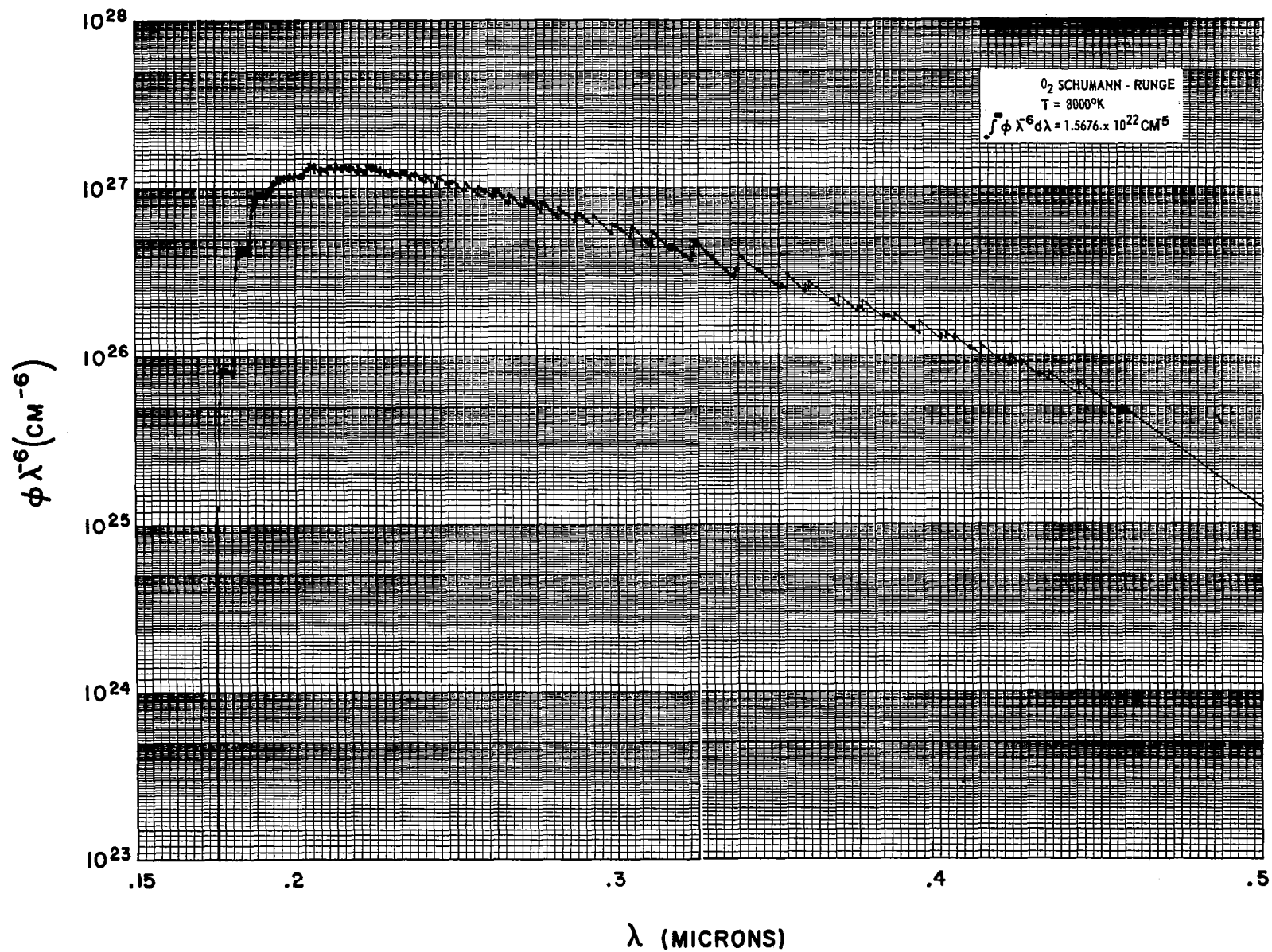


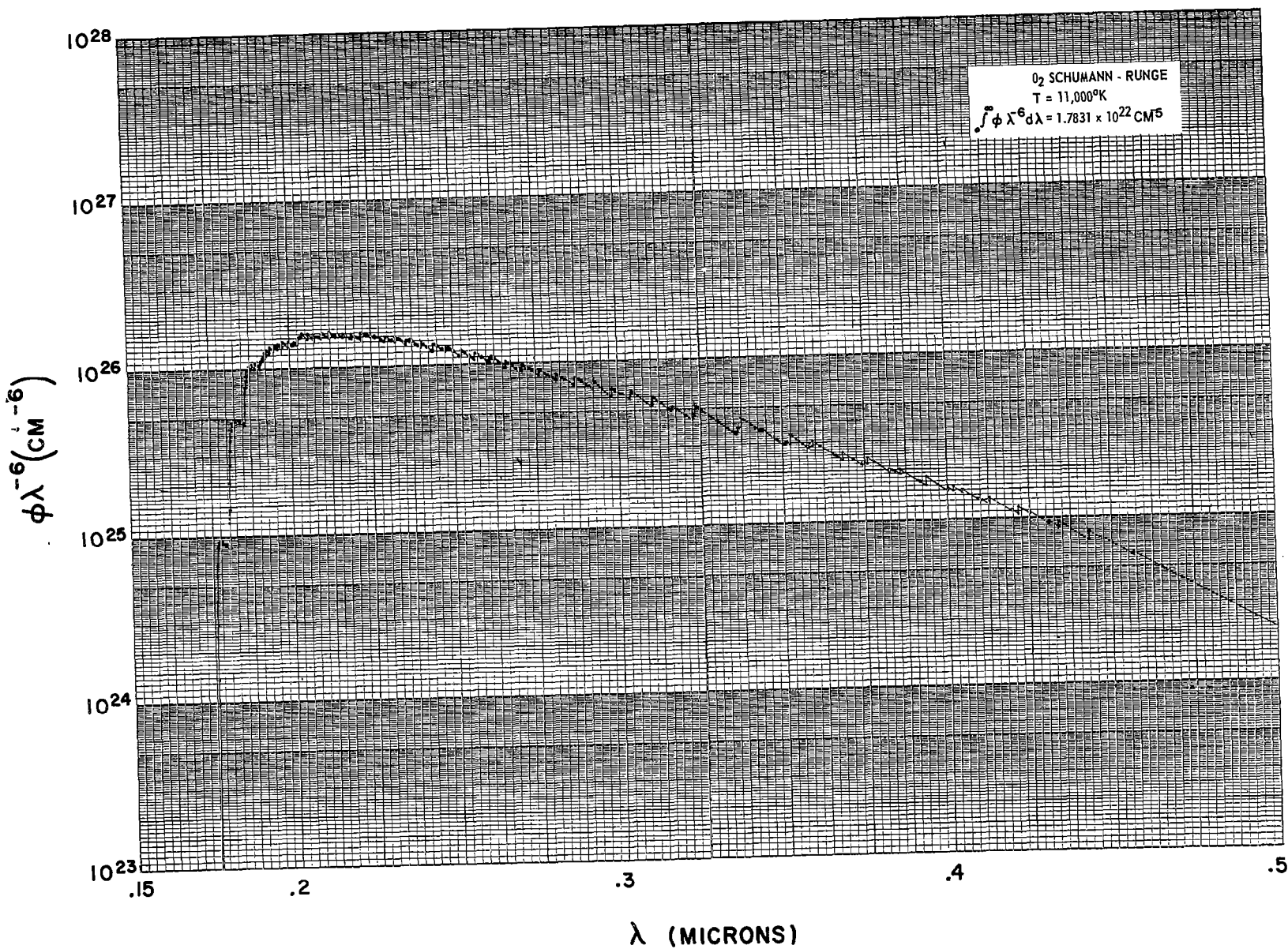






III-51





"The aeronautical and space activities of the United States shall be conducted so as to contribute . . . to the expansion of human knowledge of phenomena in the atmosphere and space. The Administration shall provide for the widest practicable and appropriate dissemination of information concerning its activities and the results thereof."

—NATIONAL AERONAUTICS AND SPACE ACT OF 1958

NASA SCIENTIFIC AND TECHNICAL PUBLICATIONS

TECHNICAL REPORTS: Scientific and technical information considered important, complete, and a lasting contribution to existing knowledge.

TECHNICAL NOTES: Information less broad in scope but nevertheless of importance as a contribution to existing knowledge.

TECHNICAL MEMORANDUMS: Information receiving limited distribution because of preliminary data, security classification, or other reasons.

CONTRACTOR REPORTS: Technical information generated in connection with a NASA contract or grant and released under NASA auspices.

TECHNICAL TRANSLATIONS: Information published in a foreign language considered to merit NASA distribution in English.

SPECIAL PUBLICATIONS: Information derived from or of value to NASA activities. Publications include conference proceedings, monographs, data compilations, handbooks, sourcebooks, and special bibliographies.

TECHNOLOGY UTILIZATION PUBLICATIONS: Information on technology used by NASA that may be of particular interest in commercial and other nonaerospace applications. Publications include Tech Briefs; Technology Utilization Reports and Notes; and Technology Surveys.

Details on the availability of these publications may be obtained from:

SCIENTIFIC AND TECHNICAL INFORMATION DIVISION
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

Washington, D.C. 20546