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NUMERICAL METHODS FOR MIE THEORY OF SCATTERING BY A SPHERE

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ABSTRACT

A new procedure for evaluating the basic quantities connected with the Mie theory of acattering by a sphere is presented. Some independent numerical techniques are developed to enable one to achieve the desired accuracy. The method is quite general in the same that it works for arbitrary but finite values of real, pure imaginary or complex indices of refraction and the size-to-wavelength parameter. Sample calculations are given for a range of size-to-wavelength parameter, for a variety of indices of refraction. The computer program is given in the Appendix.

Key Words : electron scattering—Mie theory—spherical Bossel functions—scattering and absorption afficienclas—albedo—radiation pressure—backscattering

1. Introduction

The theory of scattering of plane electromagnetic waves by a homogeneous, isotropic, and smooth sphere of arbitrary size and index of refraction was originally presented by Mie (1908). Since then, numerous applications of Mie theory have been made In atmospheric sciences, aerosols, colloids, planetary atmospheres, Interplanetary and Interstellar dust, and many other fields. Some of the readily-available numerical results come from Gumprecht and Sliepcevich (1951), Penndorf (1956), van de Hulst (1957), Denman et el. (1966), Deirmendjian (1969), and others. Unfortunately, most work in the literature has been done only on real indices of refraction and sometimes the size-to-wavelength parameter, $x = \frac{2\pi a}{\lambda}$, is chosen at rather large intervals. Besides, the published work on the values of the radiation parameters of the scattered wave are of limited use in practice because of the differences in the values of x and index of refraction, m. Therefore, It need not be emphasized that a suitably accurate, reliable and time-saving method of bringing out the theoretical resulta from the Mie theory is of prime importance so as to make meaningful comparison with the experiments.

The present computer-oriented numerical methods have been developed with this view in mind. They are useful for arbitrary values of the wavelength (λ) , the size of the sphere (a), and index of refraction (m=m'-/m'). The advantages of the present numerical techniques will be discussed in a later section. A thorough understanding of the Mie theory of scattering by a smooth uniform sphere is presumed. It will be assumed that the scattered beam has the same frequency as the incident one. A special reference is made to van de Huist's (1957) classic work whose notations have been mainly accepted in the basic formulas that follow.

2. Analytical Results from the Mie Theory of Scattering

The symbols and notations have the following meanings:

- λ the wavelength of the incident plane electromagnetic wave,
- a = the radius of the sphere,
- $k=\frac{2\pi}{\lambda}$

 $x = ka = \frac{2\pi a}{\lambda}$ = the size-to-wavelength parameter,

m = m' - /m" = the complex index of refraction of the material of the aphere, z = mx.

It is customary to express λ and a in microns. The derivatives of the spherical functions with respect to the particular argument are denoted by a prime. (1)

The plane containing the direction of the incident beam of radiation and the direction of observation defines the plane of observation. In the case of natural (i.e. unpolarized) incident beam the intensity of the acattered radiation in the plane of observation is generally expressed by two intensity functions, I_{\perp} and I_{11} , for the two cases of the electric vector vibrating perpendicular and parallel, respectively, to the plane of observation. These intensity functions are given by

 $I_{1} \rightarrow |T_{1}(0)|^{2}$

and

$$I_{11} = |T_2(0)|^2$$
, (2)

where $T_1(\theta)$ and $T_2(\theta)$ are the scattering amplitude functions. The scattering angle, θ , is defined as the angle between the direction of the scattering and the propagation vector of the incident radiation. We have used the letter T in place of S for the amplitude functions in order to avoid confusion with the symbol S_s for the Riccati-Bessel function. Somewhat explicit forms for T₁(θ) and T₂(θ) are

$$T_{1}(\theta) = \sum_{n=1}^{\infty} \frac{(2n+1)}{n(n+1)} \{ e_{n}\pi_{n}(\mu) + b_{n}\tau_{n}(\mu) \} , \quad (3)$$

$$T_{2}(\theta) = \sum_{n=1}^{\infty} \frac{(2n+1)}{n(n+1)} \{ b_{n} \pi_{n}(\mu) + a_{n} \tau_{n}(\mu) \} , \quad (4)$$

where $\mu = \cos \theta$, π_n and τ_n , omitting the argument, μ , are polynomials of real variable μ only; they are, in fact, related to the associated Legendre polynomials and their derivatives. The quantities a_n and b_n are the so-called Mie coefficients (see van de Huist, p. 123). The functions π_n and τ_n can be evaluated in a straightforward manner from the following recurrence relations

$$\pi_{n} = \frac{\mu(2n-1) \pi_{n-1} - n\pi_{n-2}}{n-1} \quad (5)$$

$$\tau_{n} \rightarrow n \mu \pi_{n} - (n+1) \pi_{n-1}$$
, (6)

with $\pi_0 = 0.0$ and $\pi_1 = 1.0$.

The amplitude functions $T_1(\theta)$ and $T_2(\theta)$ determine the intensity and state of polarization of the southered radiation in any direction specified by angle θ . The radiation incident on the sphere may have an arbitrary intensity and state of polarization.

Generally, the scattered radiation is elliptically polarized, even if the incident beam has linear polarization, because $T_1(0)$ and $T_2(0)$ are complex quantities with differing phases. The scattered light is linearly polarized when the plane of observation is parallel or perpendicular to the direction of the electric vector in the primary beam of light. However, Rayleigh scattering (x <<1) affords the special case in which the scattered light is linearly polarized for any arbitrary direction of observation in azimuth as well as latitude.

The scattered beam in any direction in the plane of observation has intensity I at a distance r from the scatterer;

$$I = I_0 (I_\perp + I_{||}) / 2k^2 r^2$$
, (7)

where I_0 - intensity of the incident beam of radiation. The degree of polarization of the scattered beam is given by

$$p \sim \frac{I_{\perp} - I_{\parallel}}{I_{\perp} + I_{\parallel}}$$
 (8)

The total forward extinction efficiency, Q_{ext} , is defined as the extinction cross section, C_{ext} , per unit geometrical cross section of the sphere,

$$\Omega_{ext} \sim \frac{C_{ext}}{\pi_n^2} \quad . \tag{9}$$

Using the fundamental extinction formula (van de Hulst, 1957, p. 31), one obtains

$$Q_{ext} = \frac{4}{\chi^2} \operatorname{Re} \{ T (0^\circ) \}$$
 (10)

In the case of homogeneous, isotropic and smooth spheres, the scattering amplitude functions are identical for the forward direction ($\theta = 0^\circ$), i.e. T_1 (0°) = T_2 (0°) = T (0°). This is the case of the highest symmetry implying that the extinction is independent of the state of polarization of the incident light. Thus we have for $\theta = 0^\circ$

$$T(0^{n}) = \frac{1}{2} \sum_{n=1}^{\infty} (2n+1) \{a_{n} + b_{n}\}$$
 (11)

Combining (10) and (11) one obtains

$$\Omega_{ext} = \frac{2}{x^{\frac{2}{3}}} \sum_{n=1}^{\infty} (2n+1) \operatorname{Re} \{a_n + b_n\} .$$
 (12)

The total scattering efficiency is given by

$$\Omega_{eca} = \frac{2}{x^2} \sum_{n=1}^{\infty} (2n+1) \{ [a_n]^2 + |b_n|^2 \}$$
(13)

If $m' \sim 0$, $\Omega_{ext} \sim \Omega_{acs}$ and $\Omega_{abs} \sim 0.0$.

Finally, the absorption efficiency, Ω_{abs} , obtained from the law of conservation of energy, is given by

$$\mathbf{Q}_{\mathbf{a}\mathbf{b}\mathbf{s}} = \mathbf{Q}_{\mathbf{a}\setminus\mathbf{L}} - \mathbf{Q}_{\mathbf{a}\mathbf{c}\mathbf{a}} \tag{14}$$

The albedo is simply defined by

$$albedo = \frac{Q_{aca}}{Q_{ext}}$$
(15)

These and other quantities like efficiency for radiation pressure, asymmetry factor, backscattering cross section, Stokes parameters of the scattered radiation, etc., can be computed without difficulty once the Mie coefficients a_n and b_n are made available. One may consult van de Huist (1957) for further details about these quantities.

3. A Simple Representation of the Mie Coefficients

The numerical evaluation of the Mie coefficients (see van de Hulst, p. 123) can be considerably facilitated if they are represented as follows :

$$a_{m} = \frac{A_{m}(z) - m B_{m}(x)}{A_{m}(z) G_{m}(x) - m H_{m}(x)}$$
(16)

$$b_n = \frac{m A_n(z) - B_n(x)}{m A_n(z) G_n(x) - H_n(x)}$$
 (17)

where

$$A_n(z) = \frac{S'_n(z)}{S_n(z)}$$
 (18)

$$B_n(x) = \frac{S'_n(x)}{S_n(x)}$$
 (19)

$$G_{\bullet}(x) = \frac{\delta_{n}(x)}{S_{n}(x)}$$
(20)

$$H_n(x) = \frac{d'_n(x)}{S_n(x)}$$
 (21)

and where

$$t_n(x) = S_n(x) + / C_n(x)$$
 (22)

 S_n (x) and C_n (x) are the Riccati-Bessel functions defined by

$$S_n(z) = \left(\frac{\pi z}{2}\right)^{\frac{1}{2}} J_{n+\frac{1}{2}}(z) \qquad (23)$$

$$C_n(x) = -\left(\frac{\pi x}{2}\right)^{\frac{1}{2}} N_{n+\frac{1}{2}}(x)$$
 (24)

where $J_n + \frac{1}{2}$ and $N_n + \frac{1}{2}$ are the spherical Bessel and Neumann functions respectively. Note that n is an integer including zero.

The two logarithmic derivatives, $A_n(z)$ and $B_n(x)$ in equations (18) and (19), and the two ratios in equations (20) and (21) are essentially the four quantities to be evaluated numerically. The first two of these and portions of the last two are determined In a very indirect manner by using the method of continued fractions discussed by Brouwer and Clemence (1961). These authors have shown a method of deriving accurately the higher integral orders of Bessel functions of real argument. It was further extended to complex variable by Shah (1967) In connection with the scattering of EM waves by an infinite circular cylinder at oblique incidence. We have developed here a similar procedure for evaluating the Riccati-Bessel function $S_n(z)$ and simultaneously Its logarithmic derivative $A_n(z)$ in just one downward recursion. This holds for $S_n(x)$ and $B_n(x)$ also, Furthermore, if necessary, one can compute the spherical Bessel functions as by-products from the definition (23) without an additional downward recursion.

It may be mentioned that An(z) given in equation (18) is a logarithmic derivative first introduced by Infeld (1947) and subsequently used by Aden (1951) to compute its value by upward recursion. Unfortunately, the upward recursion for $A_n(z)$, $S_n(z)$ or $J_n+1(z)$ could become unstable, especially for n > z. Recently Kattawar and Plass (1967) have chosen almost the same numerical scheme of Aden with the difference that they apply a downward recursion on a logarithmic derivative. However, they seem to obtain another logarithmic derivative [G, (x) in their notation] by an upward recursion. Now their $G_n(x)$ is a composite function of $S_n(x)$ and $C_n(x)$ both. In practice, the numerical evaluation of these functions is stable if one uses downward recursion on S_n(x) and an upward recursion on $C_n(x)$. Therefore, it is edvisable to avoid the use of upward recursion on such composite functions, particularly for large values of n and/or x. Also, Kattawar and Plass perform separately downward and upward recursions on

 $J_n+\frac{1}{2}(x)$ and $N_n+\frac{1}{2}(x)$, respectively. This means unnecessary extra work in the computation of $S_{\mu}(x)$.

The present procedure is independently developed and has nothing in common with other methods except for the well-known special functions and their recursions. The objective is to get rid of the inherent truncation errors and avoid indiscrete use of the recursion relations. The function $A_n(z)$ has been obtained as a by-product in the derivation of the higher orders of $S_n(z)$, as explained in the next section. We do not require an additional recursion on $J_n + \frac{1}{2}(x)$ at all.

4. Numerical Procedure

The Riccati-Bessel functions, $S_n(x)$ and $C_n(x)$, satisfy the following recurrence relations:

$$S_n(z) = \frac{2n-1}{z}S_{n-1}(z) - S_{n-2}(z)$$
 (25)

with

$$S_1(z) = -\frac{\sin z}{z} - \cos z$$
, (26b)

$$S'_{n}(z) = -\frac{n}{z}S_{n}(z) + S_{n-1}(z)$$
, (27)

$$C_n(x) = \frac{2n-1}{x} C_{n-1}(x) - C_{n-2}(x)$$
, (28)

with

$$C_1(x) = \frac{\cos x}{x} + \sin x$$
, (29b)

$$C'_{n}(x) = -\frac{n}{x}C_{n}(x) + C_{n-1}(x)$$
 (30)

The argument, z, may be either real or complex.

We define a set of coefficients P_{μ} and Q_{n} in the case of S_{μ} (z) and R_{n} in the case of S_{n} (x) as follows :

$$\frac{S_{\mu}(z)}{S_{\mu+1}} \approx P_{\mu} + /Q_{\mu} , \qquad (31)$$

$$\frac{S_{n}(x)}{S_{n-1}(x)} = R_{n} \qquad (32)$$

From (25) one obtains

$$\frac{S_{n}(z)}{S_{n-1}(z)} = \frac{2n-1}{z} - \frac{S_{n-2}(z)}{S_{n-1}(z)}$$
(33)

Substituting from equation (31) this reduces to

$$\frac{1}{P_{n-1} + /Q_{n-1}} = \frac{2n-1}{z} - (P_n + /Q_n) \quad . \quad (34)$$

Let $z = y_1 + / y_2$ and $y = |z|^2$, where $y_1 = xm'$ and $y_2 = -xm''$. Define

$$a_n = \frac{(2n-1)\gamma_1}{y} - P_n$$
, (36)

$$\beta_n = \frac{(2n-1) \gamma_2}{\gamma} + \Omega_n$$
 (36)

Now one obtains, after some algebra,

$$P_{n-1} = \frac{a_n}{a_n^2 + \beta_n^2} , \qquad (37)$$

and

$$Q_{n-1} = \frac{\beta_n}{a_n^2 + \beta_n^2}$$
 (38)

Similarly,

$$R_{n-1} = \frac{x}{(2n-1) - xR_n}$$
 (39)

The equations (35-39) are used to carry out downward recursions which provide the coefficients (P., Q_n) and R_n of all necessary orders for arguments z and x, respectively. Initially, the starting value N for n is assumed sufficiently large, preferably much larger than the largest z or x anticipatod, so that P_{π} , Q_{π} and R_{π} can be set equal to zero in the first instance. Then equations (37, 38 and 39) are used to calculate P_{n-1} , Q_{n-1} and R_{x-1}, respectively. These downward recursions are carried out successively till one obtains P1, Q1 and R_1 . The coefficients P_n , Q_n , R_n should be stored by treating them as dimensioned variables in the computer program. The Initial guess of N, however, may be varied and experimented upon to derive the related Bessel functions of orders greater than zero. The argument of course would have the largest value likely to be encountered in practice. N is raised successively until the desired accuracy is achieved; this happens when raising N higher than a certain value does not affect the accuracy anymore. A comparison with the published tables of Bessel functions may be helpful in the beginning. Thus let us suppose that the coefficients P_{μ} , Q_{μ} and R_{μ} are computed for n = N, N-1, ----3, 2, 1. The coefficients Pn, Qn and Rn may be required to be stored up to orders N_{o} (<N). The manner in which N and N_o have been selected empirically is explained in the last section.

The higher orders of $S_n(z)$ and $S_n(x)$ are obtained from the definitions of the coefficients themselves as follows :

Re {
$$s_n(z)$$
 } - P_n Re { $s_{n-1}(z)$ } - Q_n lm { $s_{n-1}(z)$ } , (40)

Im { $s_n(z)$ } = P_n Im { $s_{n-1}(z)$ } + $Q_n \operatorname{Re} \{ s_{n-1}(z) \}$, (41)

$$s_n(x) = R_n s_{n-1}(x)$$
 (42)

The starting values of the functions s_o (z) and s_o (x) are adopted according to equation (26a). Fortunately for our purposes, the computations from equations (40) and (41) need not be done at all because the logarithmic derivatives A_n (z) and B_n (x) can be expressed directly in terms of the coefficients P_n and Q_n as follows :

$$A_n(z) = (P_n + /Q_n)^{-1} - \frac{n}{z}$$
, (43)

$$B_n(x) = (\frac{1}{R_n}) - (\frac{n}{x})$$
, (44)

So far we have shown how to evaluate two of the four quantities essential for the calculation of Mie coefficients. The remaining functions, $G_{\bullet}(x)$ and $H_{\bullet}(x)$, are treated in what follows.

From equations (19-22) we have

$$G_{n}(x) = 1 + \frac{C_{n}(x)}{S_{n}(x)}$$
 (46)

$$H_{a}(x) = B_{a}(x) + \frac{C'_{a}(x)}{S_{a}(x)}$$
 (46)

Notice that $S_n(x)$ and $B_n(x)$, appearing in equations (45) and (46), have already been made available in equations (42) and (44), respectively, and hence they save some time of computation. It remains to compute $C_n(x)$ and $C'_n(x)$. Here the upward recursion, as in the case of Neumann functions, is found to be stable. The method consists of computing $C_n(x)$ and $C_1(x)$ first from their definitions [equations (29a, b)]. Then the higher orders of $C_n(x)$ and $C'_n(x)$ can be evaluated with the help of equations (28) and (30), respectively. However, some simplification may be accomplished by the following method. Dividing equations (28) and (30) by C_{n-1} we obtain (omitting the argument)

$$\frac{C_{n}}{C_{n-1}} = \frac{2n-1}{x} - \frac{C_{n-2}}{C_{n-1}}$$
(47)

$$\frac{C'_{n}}{C_{n-1}} = 1 - \frac{n}{x} \left(\frac{C_{n}}{C_{n-1}} \right)$$
(48)

Define :
$$r_n = \frac{C_{n-1}}{C_n}$$
 (49)

The starting value for n - 1 in equation (49) is $r_1 - C_o/C_1$ and can be evaluated easily with the help of equations (29a, b). Equations (47) and (48) reduce to new pairs of recurrence relations,

$$r_n^{-1} = \frac{2n-1}{x} - r_{n-1}$$
 (50)

$$\frac{C'_{n}}{C_{n-1}} - 1 - \frac{n}{x} \left(\frac{1}{r_{n}}\right)$$
(51)

The next step is to compute r_2 from equation (50) and then C_2 is obtained from the definition in equation (49). Initially, $C'_n(x)$ is available directly because C_o and r_1 have been known. Now $C'_2(x)$ can be evaluated from equation (51). The process can be continued up to the desired order, N. It is clear that r_n has been useful in the computation of both C_n and C'_n . The program statements may be suitably arranged to avoid dimension variabes from C_n and C'_n and possibly $S_n(x)$ and $S_n(z)$ as well.

Another method of deriving C_n is to employ the Wronskian relation

$$N_{r}J_{r+1} - N_{r+1}J_{r} \simeq \frac{2}{\pi x}$$
 (52)

Using the definitions of S_n and C_n in terms of $J_n + \frac{1}{2}$ and $N_n + \frac{1}{2}$, respectively, one obtains

$$C_n = R_n C_{n-1} - \frac{1}{S_{n-1}}$$
 (53)

where R_n is given by equation (32). It may be recalled that R_n and S_n for all orders ($n \ge 1$) have been calculated previously. Therefore, with C_o as the only starting function, one can derive C_n for $n \ge 1$ from equation (52). Use is made of equation (30) to obtain C'_n . This apparently elegant method of obtaining C_n with the aid of the Wronskian relation turned out to be somewhat less accurate compared to the one described previously. The difference occurred in the sixth significant digit while working with 8-digit storage of numbers in IBM 1620 IID. This completes the essentials for the calculations of Mie coefficients.

Results and Discussion

The results for extinction, total scattering, absorption and back scattering efficiencies, albedo, asymmetry factor, radiation pressure and angular Intensity functions for various indexes of refraction, agree with the available sources in the literature. It has been found that the calculations are correct to at least five significant digits while working with 8-digit precision. An example, for m 1.6 - 0.0/ and x 23.1 and 23.2, has been given for the extinction efficiency in Table 1. These computations have been done on an IBM 1620 IID computor. The first column represents the precision of the floating point numbers stored in and carried out from the memory core area for evaluating the arithmetic expressions.

Table 1. Test case of extinction by a sphere Index of Refraction, m 1.5- 0.0/

Presision	Extinction Effici	ioncy, Q _{ext} (x)
(Deolmal digits)	Q _{ext} (x 23.1)	Q _{ext} (x - 23.2)
8	2,4622573	2 6 1849 12
10	2 4022683T2	2.518491950
11	2.4822583154	2.5184910684
12	2 462259317 72	2.51849195917
16	2.462268317240436	2.618491959261802
·		· · -

Previous calculations (Penndorf, 1956) for m 1.5 -0.0/, performed on an IBM 7090 computer, give Q.x.-2.462258316 for x-23.1 and Q.x.-2.518491911 for x=23.2. These values of Qext agree up to 10 and 8 significant digits, respectively, with those of Table1. A survey of the literature does not show any comparative results for either a real or complex index of refraction. Therefore, it is difficult to assess the accuracy of the higher precision in Table 1. However, chosing the 16-digit precision as standard, one can find out the correct number of significant digits at lower precision. This is indicated by a flag before which all the digits are believed to be correct. It can be concluded from Table 1 that the computer program MIEHISS, given in Appendices A and B must be operated at a precision of at least three digits higher than the numbr of correct significant digits desired.

Some interesting results on resonance in the extinction due to small metallic particles are shown in Figure 1. A noticeable feature in each of the curves for sodium, potassium, and calcium is the prominent first maximum in Qest. The minima are much shallower compared to the maxima. The peaks recur at nearly regular intervals, $\Delta x \sim 0.7$ for Na, K and Ca. The mean value of Q_{ext} is far above the case of dielectric dirty ice (m = 1.33 - 0.05/) even up to fairly large values of x. The amplitudes of the successive maxima decrease with increase in x and the curves approach the usual extinction efficiency at rather large values of x. A more dramatic sizedependent resonance effect has been plotted in Figure The index of refraction, m = 0.003535 – 1.41775 i, roughly corresponds to that suggested by Unsold (1964) in connection with the unidentified diffuse interstellar absorption band at 24430. It may also be mentioned that O_{ext} tends to zero as $x \rightarrow 0$ for all the curves in Figures 1 and 2. We wonder if these and similar size-dependent resonance effects can explain certain structures in the interstellar extinction and polarization.

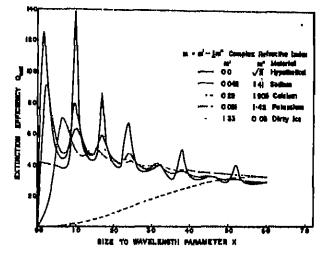
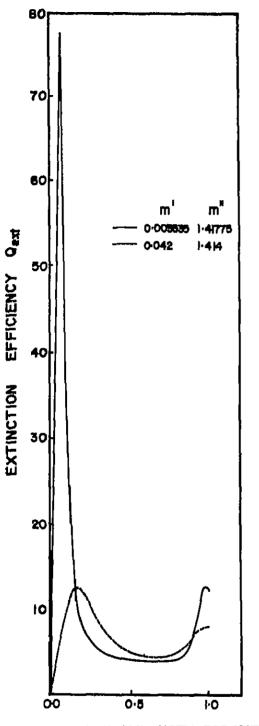


Fig. 1 Theoretical extinction efficiencies, Qext vs. size-towavelength parameter, $x = \frac{2\pi a}{\lambda}$, showing size-dependent resonance effect by small metallic particles.

The computer program, MIEHISS (Mie theory of scattering by a homogeneous isotropic smooth sphere), is based on the numerical techniques described in sections 3 and 4. In order to gain some idea about its range of validity we have given some general results on sundry physical quantities in Table 2. They are presented only for selected values of x and m. However, they have an important purpose to serve. The optimization of the program for specific applications in a given m-x domain (s) may render the program more efficient. The author would anticipate that some users might like to make appropriate



SIZE TO WAVELENGTH PARAMETER X

Fig. 2 Comparison of Mie calculations of Q_{ext} for particles of sodium and for a hypothetical material representing the absorption within the unidentified interstellar band at $\lambda4430$

changes after preliminary experimentation. Therefore, Table 2 would certainly aid in checking out any modifications one might introduce in the present computer program MIEHISS. The angular scattering functions are also available from the program MIEHISS but we have preferred to omit them here for space saving. Note that all the results in Table 2 have been obtained by employing *single* precision on a CDC-3600 computer. Some indices of refraction in Table 2 have been chosen following the work of van de Hulst (1957) and Deirmendjian (1969). The time taken for the entire calculations in Table 2 is approximately 15 minutes, including compilation, execution, and print output.

Some physical laws of scattering and precision can at once be visualized from Table 2. For instance, Rayleigh's law of scattering, for m⁴ - 0, shows up in that Q_{ext} varies as the fourth power of x (or size or inverse wavelength) for x < 1. An addition of a small imaginary part (m^{*}) reveals that the absorption contributes predominantly to Q_{oxt} for x < 1, and that Q_{axt} and Q_{aby} are proportional to x as long as x is sufficiently small compared to unity. An interesting feature of the backscattering efficiency, Qback, is that It attains nearly a constant value starting with and beyond sufficiently large x, provided that m^e is nonzero. This happens for $x \simeq 100$ in Table 2. The exact value of x can be found from more extensive calculations. Herman and Battan (1961) have reported that the ilmiting value of Qback for large values of x can be expressed in terms of the Fresnel reflection coefficient for perpendicular incidence of the electromagnetic wave. Deirmendilan (1969) has verified almost perfect validity of this fact which can be written symbolically as

$$\lim_{x \to \infty} \{ Q_{\text{back}}(m,x) \} = \left| \frac{m-1}{m+1} \right|^* \quad (54)$$

The present calculations in Table 2 strongly conform to equation (54); though its analytical proof, using Mie coefficients, remains obscure so far.

A closer look at Table 2 further indicates that albedo, asymmetry factor ($< \cos \theta >$), and radiation pressure behave in a fashion similar to the case of Ω_{back} for large values of x. Here one may notice that the condition, m"=0, seems to be relaxed to some extent. The asymptotic values of Ω_{pr} and $< \cos \theta >$ for real indices of refraction given by Debye (1909) begin to be almost satisfied for $x \gtrsim 100$.

Some unusually large values of the backscettering efficiency, Q_{back}, may be noted for real indices of

refraction (e.g., m = 1.33, 1.5, 1.6, 2.0, 4.0, 5.0, etc.) and certain large values of x > >1. This appears to hold also for weakly absorbing spheres (m^{*} < <1). A maximum value of Qback ~ 38 for x - 60.0 and m - 1.78 - 0.0024/ (Ice spheres Illuminated by microwaves) has been reported by Herman and Battan (1961). It is gratifying that the calculations for the same set of parameters, using our program (MIEHISS), 38.58; moreover, Qback conforms to gives Qback equation (54) asymptotically for very large values of x. We feel that the large values of Qback for certain very large values of x and predominantly real m, as are evidenced in Table 2, could speak of an important factor in LIDAR and RADAR backscattering experiments and some physical phenomena.

The extinction efficiency for very large values of x, and index of refraction in the range, $1.0 \leq m \leq 2$, can be calculated on the basis of the best approximate formula suggested by van de Hulst (1957, p. 264) :

$$\Omega_{\text{ext}} \simeq 2.0 \pm 1.84 \, \text{x}^{-2/3} \pm \text{Im} \left[\left\{ \frac{4}{(\rho \pm 4x)} \right\}^2 \frac{\text{e}^{1\rho}}{\rho} \right] (56)$$

where $\rho = 2x (m-1)$. Here the contribution due to ripple has been ignored. Sample calculations based on equation (65) have been compared with the Mie theory results in Table 2. It has been found that equation (55) is a reasonable approximation in that it gives errors much less than 1% in most cases. The complex index of refraction seems to be admissible in equation (55). It may be interesting to inquire about the validity of equation (55) in the $(x - \rho)$ plane for a given tolerance of accuracy of Q_{ext} .

6. Conclusion

It may be useful to give some practical hints in conclusion. Normally, one needs the Mie series to be summed up to a certain order N_o which is usually a few percent larger than the particular value of x. For instance, if x = 2000, N_o ≈ 2054 or less depending on m', m' and the proposed accuracy. We have set the maximum value of N_o to be N_u, max = 2100 assuring a safe margin for all values of size to wavelength parameter in the range $x \leq 2000$ irrespective of the order at which downward recursions are started.

Thus we have

$$x \le 2000.0$$
 ,
 N_{o} , max = 2100 ,
 N_{o} -= K₁ |z| + K_ox + K₂ , (56a)

$$N_{o} = \begin{cases} N_{o}' & \text{If } N_{o} \leq N_{o}, \text{ max} \\ N_{o}, \text{ max} & \text{if } N_{o} > N_{o}, \text{ max} \end{cases}$$
(56b)

The downward recursions for P_a, Q_n and R_a are started at the highest order given by

$$N = \begin{cases} N_{o}^{'} + K_{3}x + K_{1}, \text{ if } m^{*} = 0 & (57a) \\ N_{o} + K_{3}x + K_{6}, \text{ if } m^{*} \neq 0 & (57b) \end{cases}$$

At present the following values have been adopted for various constants in an empirical manner :

$$K_{a} \begin{cases} 1-m' \text{ if } m' < 1 \\ 0 \quad \text{ if } m' \ge 1, \end{cases}$$

$$K_{1} = 1.01, \quad K_{2} = 50.0, \quad K_{3} = 0.75, \qquad K_{4} = 50.0, \qquad K_{3} = 0.75, \qquad K_{5} = 50.0, \end{cases}$$

The constants, K_1 (1 - 0 to 6), can be optimized after careful experimentation in order to further economize machine time and storage. The coefficients P_n , Q_n , and R_n would have to be stored from n = 1 to N_e ; this also applies for the Mie coefficients, a_n and b_n , if one is interested in angular intensity functions.

The combinations of x, m' and m" should be such that No, calculated according to equation (56b), does not exceed the number of memory words provided for each of the dimensioned variables. For example, In Appendix B, the value of No., the highest order coefficients stored, must be less than 2100. The value of x can vary typically from 10-8 to 2000.0. If x > 2000, it is advisable to increase the argument of the dimensioned variables, provided the computer memory does not overflow. Similarly, it would be convenient to reduce the argument of the dimensioned variables if one is concerned with the use of moderate values of x < < 2000. The program MIEHISS gan be operated for any finite value of pure real, pure imaginary or complex index of refraction. However, a similar program can be written down for the perfeatly conducting case, $m = \infty$. The starting equations for the corresponding Mie coefficients are far more simplified because they contain the Riccati-Beasel functions and their derivatives of real variable only.

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Appendix A

Explanation of some FORTRAN words in the Computer Program MIEHISS

Fortran Word	Equation Number	Meaning or Equivalence in the text
NMAX		Arguments of the dimensioned variables, Pn, Qn, Rn, an and bn
x		Size-to-wavelength parameter, $x = \frac{2\pi a}{\lambda}$
AMU1		Real part of the index of refraction, m
AMU2		Absolute value of the imaginary part of m. Thus m = AMU1 - /AMU2
NYY	(56a)	N'
NX	(56b)	Νσ
N	(67a, b)	N
CX	(29a)	Co (x)
C(1)	(29b)	$C_1(x)$
sx	(26b)	So (X)
ca	(49)	$r_1 = C_0 (x)/C_1 (x)$
QC	(60)	Subsequently QC and CQ are used to accommodate the recursion relation
PJN1		PJN1, QJN1 and RJN1 are the values of the coefficients Pp. Qp. Rp
QJN1		and in the first instant they are set to zero fo n = N for starting
RJN 1		downward recursions in equations (37), (38) and (39). PJN, QJN
PJN	(37)	RJN are the same coefficients for one lower order.
QJN	(38)	
RJN	(39)	
JN		Current order of the coefficients P_{μ} , Q_{μ} and Rn . These coefficients are stored if $JN \leq NMAX$.
CN - NS		n, current order of the Mie coefficients
S(NS)		S _n (x) } - Riccati-Bessel functions.
C(NS)		$C_{n}(x)$
DCX		C' _n (x)
ZR1, ZI1	(43)	Real and Imaginary parts of A _a (z)
X1	(44)	$B_n(x)$
ZR2, ZI2	(45)	Real and Imaginary parts of G _n (x)
ZR3, ZI3	(46)	Real and Imaginary parts of H _s (x)
ARNS, AINS	(16)	Real and Imaginary parts of a
BRNS, BINS	(17)	Real and Imaginary parts of ba
TEST	(,,,)	Current contribution to extinction relative to the total extinction
		Quantities following statement Number 20 :
QEXT	(12)	Extinction efficiency
QABS	(14)	Absorption efficiency
ALBED	(15)	Albedo

Fortran Word	Equation Number	Meaning or Equivalence in the Text
ASYM	•	Asymmetry factor, < cos (0)>.
OPR	•	Radiation pressure.
QBAK	٠	Efficiency for back scattering.
NN		Highest order upto which the Mie coefficients have been considered depending on the accuracy prescribed. If TEST $<10^{-11}$ for n $-$ NN, then the Mie series is terminated at n = NN.
THETA		Scattering angle θ in degrees.
SS1, SS2	(1), (2)	Angular intensity functions $I_{\perp}(0)$ and $I_{11}(0)$, respectively.
SS		Just preceding statement number 150, it represents the average angular intensity function.
POLAR	(8)	Degree of polarization,

* See van de Hulst (1957).

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Appendix B

Listing of the Ferrma program MiGH155

2

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X	'QEXT	** 8459	ALUEDO	ABYH	9 # R	GBAK	199 - 19 - 19 - 19 - 19 - 19 - 19 - 19
1.000002-05	1.161195-24	Q+	1+000002+00	1.002072-11	1:10119E-24	1.771765-24	2
1.00000E-04	1.16119E~20 1.16119E~16	8. 7.888612-31	1.000005+00	1.000108-09	1+14119E-24		2
1.00000E-03 1.00000E-02	1.10117E-10 1.10114E-12	/+++++1C-J; 6+46235E-27	1+00000E*00 1+00000E*00	1.60590E-07 1.60591E-05	1+18119E-14 1+18112E-12	1.77178E=14 1.77164E=12	5
1.00000E-01	1.17660E-0W	0+	1.0000E+00	1.60676E-03	1+174718-08	1.757525-10	i
1.00000E+00	8.11872E-05	9 •	1+00000E+00	1.673026-41	4.76044E-05	7.694516-05	š
1+00000E+61 1+00000E+61	1.98689E-## 1.41291E+#0	1+11022E-14 7+10543E+18	1.00000E*00 1.00000E*00	9.71395E-01 9.99340E-01	8.59774E=04 1.00498E=03		.14
2.0000000448	2.909945+00	1.421098-14	1.000000000	9,99552E+61	1.302482-03		111
S+00000E+0Z	2.31238E+#0	# •	1+00000E+00	9.99340E-01	1.525218-03	3.974896+44	\$19
7+00000E+03	1.437136+00	7+10#4 3E -15	1.00000E+ee	2.99000E-01	1.43703Ene3		1434
1.57580E+03 1.66990E+03	2+013#1E+#0 1+94394E+#0	0+ 0+	1.00000E+00 1.00000E+00	9,98926E=01 9,98879E=01	2.16143E+63 2.17833E-63		1899 1689
1+4000E+03	2+127#1E+#0	0.	1.00000E+00	9,94920E-01	2.294225-43		1434
2+04040E+03	1.940512+00	1+421092-14	1+00000E+00	9,98754E-01	8.41764E=03	6.02154E=64	2031
	DEX OF REFRACT	ION, REAL PART	- 1+01000690	00 -INAGI			
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1.00000E-04	1.329616-05	1+329615-05	2+312602+14	1.008018-09	1.329516-98	4+61195K=19	Ï
1+00000E-03 1+00000E-02	1+32952E=04 1+32952E=03	1+329515-64 1+32952E-63	2.31260E*11	1.000018-07	1+327516-64		3
1+88000E=02	1.329686402	1+329622-02	2+312816-08 2+303296-05	1.60562E-05 1.605966-63	1,32752E+03 1,32968E-62	4.41184E-11 4.87844E-67	4 5
1.000000000	1.319716-01	1.29932E-01	1.545196-02	1+498825-01	1+314855-01	1.49334E++3	ĭ
1+04040E+01	9.76889E+01	7.384862-01	8.494148-01	9.70979E-01	7.399888E-01	4.71439E=44	21
1+0#0000E+02 2+\$00000E+02	1+99#03E*00 2+0190#E+00	1+80917E+00 9 +99680E-8 1	4.928868×01 8.039012×01	9.965362-01	1+012876+00		122
8.0000E+02	2+01501E+00	9.926996-01	5+073535=01	\$,97178E-#1 9,9736@E-#1	1.00265E+00 9.95387E-01	&.43183E=#4 6.43181E=#4	279 1536
1+00000E+03	2:01187E+00	9,8789 26 -01	8.08969E-01	9.97443E-01	9.90511E-01	4.43151E-44	1048
1.578401+03	2+00969E+00	9.88799E-01	5+094778-01	9.97470E-01	9+68389E-#1	4+43151E-44	1422
1+66000E+03 1+00000E+03	1.009074+00 2.009074+00	9+85728E-#1 9+85295E-01	8+09491E-01 5+89576E-01	9,97471E-01 9,9747 46-0 1	9,88317E-01 9,87879E-01	6,43151E-84 6,43151E-84	146g 1884
2.00800E+03	2.008860E+00	9.84948K=01		. 9.97480E-01	9.875202-01	4.43161E+#4	2165
بالأخاذ الأغراب برجم والحاط ال	ردر دو هر خذچه دو خو او خد خد بدو زند ادا اه			ا از باشهای کردی و او با از ا			
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 | ALSEDO | QA85 | OEXT
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| ., | 4.17477E-22 | 1+28080E-04 | 1.47047E-11
 | 2.234302-14 | 1.28084E-44 | 1.24050E-04
 | 1.4000E-05

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| | 4.178776-18 | 1.250895-98 | 1.475236-07
 | 2-134345-13 | 1.28eSeC-es | 1.280806-08
 | 1.000004-04

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 | | |
| | 4,198975=14 | 1+254562-04 | 1.496178-07
 | 2.23436E+10 | 1.284808-84 | 1.284SaE-a4
 | 1+00000E-03

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 | | |
| | 4.170676-18 | 1.254528-03 | 1.495176-48
 | 2+234215=47 | 1-254525-43 | 1.254526-03
 | 1.8888805-02

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| | 4.16313E-04 | 1.25294K-02 | 1.49630E-03
 | | 1.252622-42 | 1.25290E-02
 | 1.40000E-01

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| • | 1,844345-02 | 1.52.626-01 | 1.762956-01
 | 1.307385-01 | 1.383195-01 | 1.556765+01
 | 1+88880E+08

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 | | | | | | | | |
 | | |
| | 7.13617 5-6 3 | 9,42298K=01 | 9.60304E-01
 | 6.47762E-01 | \$178193K+61 | 2+493182+08
 | 1+********

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 | | |
| 1 | 5,40417 5 -83 | 1+0 3417E+0 0 | 9 .00426E-01
 | \$,08833E-81 | 1.023906400 | 2,004622+00
 | 1.0000002+08

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 | | |
| 1 | 6.40243K-03 | 1+0 0232E +00 | 7.89184E-01
 | 8,1 90166-0 3 | 7.98907E-61 | 2.84688E+88
 | 2.500005402

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 | | |
| | 8.448412-03 | 9,89294 <u>6-01</u> | 9.89396E-01
 | 5.180882-01 | \$178143E+#1 | 2+929715+88
 | 5+00000C+02

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 | | |
| - 1(| 8,40541E+03 | 9,42478E-01 | 9.89481E+01
 | \$+19#2#E=#1 | 9+71088E+01 | 2:01894E+00
 | 1+8000#E+#3

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| - 19 | 8.44841KH03 | 9.79247E=01 | 9 .89804E=01
 | 5-17208E-01 | 9+6#270K-#1 | #+#1411E+##
 | 1+\$70802+03

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 | | |
| - 19 | 8,49841E+93 | 9.79 <u>184</u> 8-0 <u>1</u> | 9. 095 88E-01
 | 6+17263E-01 | 9+68179E+01 | 2+013 98 E+00
 | 1.000002+03

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| - 14 | 8,40541E+83 | 8.732831FmA1 |
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| | | 9,78893E=01 | 9,895,46+41
 | 8+19891K+01 | 9+67626E-91 | 2+01291E+00
 | 1+80004E+03

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| | 8,405415+03 | 9,781398=01 | 9,89518E=#1
 | \$.19388E=01 | 9+67178E=#1 | 2+01206E+00
 | 2+40400E+43

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| | 8.40841E-03
040180000 | 9,781398=01
NARY PART= - | ♦,69818E-01
♦♦ -INA61
 | \$.19398E-01
T= 1.21200000 | 9.67178E-61
104, REAL PAR | 2.01206E+00
DEX OF REFRACT
 | 2.0000E+03
IN

 | | | | | | | | |
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 | | |
| | 8,488418+63
0481888808 | 9,701398-01
NARY PART= . | 0,89810E-01
00 -1HA81
 | 8.19300E-01
7= 1.2120000 | 9.67178E-91
104: REAL PAR | 2.01206E+00
DEX OF REFRACT
 | 2.666666E+63
IN

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 | | |
| | 8.488418+63
0481888800
988K | 9,701398+01
NARY PART= +
QPR | 0:89510E=01
00 - 1HA01

 | 5.173888-01
T= 1.212888888
ALBEDO | 9+67178E-61
104+ REAL PAR
QA88 | E-01204E+09
DEX OF REFRACT
QEXT
 | Ë+ 66600E+03
IN
IN

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 | | |
| | 8,488418+03
048180000
9888
7,985648+25 | 9:781398=01
NARY PART= .
OPR
1:453228=05 | 0.89510E-01
00 -IHA0I
A8YM
1.73871E-11
 | 5.17J00K-01
T= 1.21209000
ALBEDO
3.62672E-16 | 9.67178E-61
IOH: REAL PAR
QABS
1.48328E-66 | 2.01206E+00
DEX OF REFRACT
QEXT
1.45322E+00
 | 2+00000E+03
IN
A
1+00000E+05

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| | 8,48841E=03
G40100000
G80K
7,90544E=18
7,90544E=18 | 9.781398=01
NARY PART= .
 | ••••••••••••••••••••••••••••••••••••••
 | 5.17308E-01
T= 1.8180900
ALBEDO
3.62672E-14
3.62672E-13 | 9.67178E-61
ION: AKAL PAR
CA88
1.48322K-86
1.48322K-85 | 2.01208E+69
DEX OF REFRACT
0.48322E+66
1.48322E+66
 | 2+0000E+03
IN
X
1+0000E+05
1+0000E+05
1+0000E+04

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 | | |
| | 8,40841E-03
040100000
08AK
7,40564E-82
7.90564E-14 | 9,781398=61
NARY PART= .
GPR
1,483282=05
1,483282=05
1,483282=05 | •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •.<
 | 5.17308E-01
T= 1.21200000
ALBEDO
3.42672E-14
3.62672E-13
3.62672E-13 | 9.67178E-61
104, AKAL PAR
GASS
1.4832E-86
1.4832E-86
1.4832E-86 | 2.01208E+69
DEX OF REFAACT
96XT
1.48322E+66
1.48322E+66
1.48322E+66
1.48322E+66
 | 2+0000E+03
IN
1+0000E+05
1+0000E+05
1+00000E+05
1+00000E+05
1+00000E+05

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 | | |
| | 6,40641E+03
040100000
0804
7,40864E+20
7,40864E-10
7,40864E-14
7,40864E-14
7,40864E-14 | 9,78139E=01
NARY PART= .
 | \$.698jeE=6j
 | 5.19306E-01
T= 1.81809000
ALBEDO
3.42478E-14
3.42478E-13
3.42478E-13
3.42478E-14
3.42478E-14 | 9.67178E-61
104, REAL PAR
QA85
1.68322E-66
1.68322E-65
1.68322E-65 | 2.01208E+69
DEX OF REFRACT
1.48322E+86
1.48322E+86
1.48328E+86
1.48328E+86
 | X
1.00000E=03
1.00000E=05
1.00000E=05
1.00000E=03
1.00000E=02

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 | | |
| | 8,40841E+03
040100000
98AK
7.90564E+28
7.90564E+18
7.90564E+14
7.90564E+16
7.80542=10 | 9,781398=01
NARY PART= .
 | •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •. •
 | 5.17308E-01
T= 1.8120000
ALBEDO
3.62672E-14
3.62672E-13
3.62672E-13
3.62672E-13
3.62672E-13
3.62672E-14
3.62672E-14 | 9.67178E-61
104, REAL PAR
QA83
1.68322E-66
1.68322E-65
1.68322E-63
1.68322E-63
1.68326E-63
1.6871E-62 | 2.01208E+69
DEX OF REFRACT
9EXT
1.48322E+96
1.48322E+96
1.48322E+96
1.48322E+96
1.48322E+96
1.48322E+96
1.48322E+96
1.48322E+96
 | X + 00000 E + 03
IN
IN
I + 00000 E + 05
J + 00000 E + 04
J + 00000 E + 04
J + 00000 E + 02
J + 00000 E + 01
J + 00000 E + 01

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 | | |
| | 6,40641E+03
G40100000
G8AK
7,90544E-18
7,90544E-18
7,90544E-18
7,90514E-10
7,85722E-06
3,5749E-06 | 9,78139E=01
NARY PART= .
 | •.••9510E-01 •• -IHA0I •• -
 | 5,19306E-01
T= 1,81200000
ALBEDO
3,62672E-16
3,62672E-13
3,62672E-13
3,62672E-13
3,62672E-13
1,6272E-13
3,62703E-64
1,9912E-64 | 9.67178E-61
ION: AEAL PAR
4A88
1.68322E-66
1.68322E-66
1.68322E-64
1.68322E-64
1.68322E-64
1.6832E-62
1.68671E-62 | 2.01208E+69
DEX OF REFAACT
1.48322E+96
1.48322E+96
1.48322E+96
1.48328E+96
1.48328E+96
1.48328E+96
1.48328E+96
1.48328E+91
 | X + 0000000
X
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| | 6,40641E+03
G4100000
GBAK
7,40564E+2
7,90544E-18
7,90544E-14
7,60516E-10
7,65722E-06
3,8949E-02
4,14348-02 | 9,78139E=01
NARY PART= .
 | •.•99510E-01 •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• •.• <
 | 5,19306E-01
T= 1,8180000
ALBEDO
3,42678E-13
3,42678E-13
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3,42678E-14
3,42678E-14
1,95126E-07
1,50993E-04
1,95126E-01
4,40248E-01 | 9.67178E-61
ION: REAL PAR
QA88
1.48322E-86
1.48322E-86
1.48322E-85
1.48326E-83
1.48326E-83
1.48471E-82
1.63618E-01
1.00649E+88 | 2.01208E+09
DEX OF REFRACT
1.48322E+95
1.48322E+95
1.48328E+05
1.48328E+03
1.48328E+03
2.03884E+03
2.03884E+03
 | X+000000
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1+000000
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| | 6,40641E+03
G40100000
G8AK
7,90544E-18
7,90544E-18
7,90544E-18
7,90514E-10
7,85722E-06
3,5749E-06 | 9,78139E=01
NARY PART= .
 | \$.69516E-61
 | 5,19308E-01
T= 1.81200000
ALBEDO
3.42672E-14
3.42672E-14
3.42672E-14
3.42672E-14
3.42672E-14
3.42672E-14
3.42672E-14
1.95124E-01
4.40248E-01
5.4608E-01 | 9.67178E-61
10N; REAL PAR
QA88
1.48322E-86
1.48322E-86
1.48322E-85
1.48322E-83
1.48571E-83
1.48471E-82
1.63618E-81
1.00649E+88
1.0093E+88 | 2.01208E+69
DEX OF REFRACT
9EXT
1.48322E+98
1.48322E+98
1.48322E+98
1.48328E+93
1.48724E+02
2.03284E+01
2.79770E+08
2.98672E+08
 | X+4000000000000000000000000000000000000

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 | | |
| | 6,40641E+03
G4010000
GBAK
7,90544E-18
7,90544E-18
7,90544E-18
7,90514E-10
3,5749E-06
3,5749E-06
4,14348E-03
9,91448E-03
9,91448E-03 | 9,78139E=01
ARY PART=
GPR
1,48322E=06
1,48322E04
1,4832E604
1,4832E604
1,4832604
1,4832604
1,4832604
1,48724602
1,96136601
1,10297E+00
1,02877E+00
1,9674E=01 | ¢, 698 jeE-ej
ASYM
1 73871E-1
1 73921E-0
1 73922E-0
1 73922E-0
1 73922E-0
1 73922E-0
1 80842E-0
9 46138E-01
9 4818E-01
9 4818E-01
 | 5,19306E-01
T= 1,81200000
3,62672E-16
3,62672E-16
3,62672E-13
3,62672E-13
3,62672E-13
3,62672E-14
3,6272E-14
3,6272E-14
4,60242E-01
5,10566E-01
5,2232E-01 | 9.67178E-61
ION: REAL PAR
CA88
1.68328E-66
1.68328E-65
1.68328E-65
1.68328E-63
1.68518E-61
1.70669E-60
1.70693E-60
7.78686E-61 | 2.01208E+09
DEX OF REFRACT
1.48322E-08
1.48322E-08
1.48322E-08
1.48328E-03
1.48328E-03
1.48728E-03
2.579776E-08
2.79770E-08
2.79770E-08
2.98472E-00
2.98472E-00
 | X + 00000C+03
I + 00000C-05
A + 00000C-05
A + 00000C-05
I + 00000C-05
I + 0000C+01
A + 0000C+00
I + 0000C+01
B + 0000C+00
B + 000C+00
B + 000C+00C+00
B + 000C+00C+00
B + 000C+00C+00
B + 000C+00C+00C+00C+00C+00
B + 000C+00C+00C+00C+00

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 | |
| | 6,40641E+03
C40100000
C40100000
CBAK
7,00544E-18
7,00544E-14
7,00544E-14
7,0514E-10
7,85722E-06
3,57409E-02
4,16340E-03
9,91676E-03 | 9,78139E=01
NARY PART= .
 | \$.69516E-61
 | 5,19306E-01
T= 1,8180000
ALBEDO
3,42678E-14
3,42678E-13
3,42678E-13
3,42678E-13
3,42678E-13
3,42678E-13
3,42678E-01
5,16968E-01
5,2336E-01
5,2336E-01
5,2454E-01 | 9.67178E-61
10N; REAL PAR
QA88
1.48322E-86
1.48322E-86
1.48322E-85
1.48322E-83
1.48571E-83
1.48471E-82
1.63618E-81
1.00649E+88
1.0093E+88 | 2.01208E+09
DEX OF REFRACT
1.48322E+06
1.48322E+06
1.48328E+06
1.48328E+06
1.48328E+06
2.0388E+01
2.79770E+00
2.98672E+00
2.94762E+00
2.94762E+00
 | X+00002+03
IN
X
1+000002-05
1+00002-05
1+00002-05
1+00002-05
1+00002+05
1+00002+01
1+00002+01
1+00002+02
5+00002+02

 | | | | | | | | |
 | | | | | | | | |
 | | |
| 1 | 6,40641E+03
G4100000
GBAK
7,40564E+2
7,40564E+1
7,40564E-1
7,40516E-10
7,85782E-66
3,85464E-03
4,91646-03
4,91637E-03
4,91637E-03 | 9,78139E=01
NARY PART= .
GPR
1.48322E=05
1.48322E=05
1.48322E=05
1.48322E=05
1.48322E=05
1.48724E=02
1.98126E=02
1.0297E=00
1.0297E=00
4.9450E=01
9.76337E=01 |
 | 5,19306E-01
T= 1,81200000
3,62672E-16
3,62672E-16
3,62672E-13
3,62672E-13
3,62672E-13
3,62672E-14
3,6272E-14
3,6272E-14
4,60242E-01
5,10566E-01
5,2232E-01 | 9.67178E-61
10N, REAL PAR
QA83
1.48322E-86
1.48322E-86
1.48322E-86
1.48322E-83
1.48671E-82
1.63618E-81
1.00983E+88
9.78686E-81
9.6896E-81
9.6896E-81 | 2.01208E+09
DEX OF REFRACT
1.48322E+08
1.48322E+08
1.48322E+08
1.48322E+08
1.48328E+09
1.48724E+08
2.93284E+09
2.94770E+08
2.94762E+00
2.91724E+00
2.91724E+00
 | X + 00000 C + 03
I + 00000 C + 05
X + 00000 C + 05
X + 00000 C + 05
X + 00000 C + 01
X + 00000 C + 02
X + 00000 C + 00000000000000000000000000

 | | | | | |
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 | |
| | 6,40641E+03
040100000
08AX
7,00544E-18
7,00544E-18
7,00544E-14
7,00544E-14
7,0544E-06
3,07409E-02
4,16346E-03
9,01636E-03
9,01636E-03 | 9,78139E=01
NARY PART= .
 | \$.695jeE=6j
 | 5,19305E-01
T= 1,81200000
3,02672E-16
3,02672E-16
3,02672E-16
3,02672E-13
3,02672E-13
3,02672E-13
3,02672E-14
3,02672E-01
6,26292E-01
5,22592F-01
5,22592F-01
5,25959E-01 | 9.67178E-61
ION, REAL PAR
QA88
1.48322E-86
1.48322E-86
1.48322E-86
1.48322E-83
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1.70649E-88
1.00903E-88
7.78896E-81
9.68762E-81 | 2.01208E+09
DEX OF REFRACT
1.48322E-08
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1.48328E-03
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1.48724E-02
2.03284E-01
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7,90544E-18
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7,90544E-16
7,00514E-16
3,5749FE-02
4,16340FE-02
9,91646E-03
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9,91636E-03 | 9,78139E=01
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 | 5,19306E-01
T= 1,8120000
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1,440742E-01
5,22306E-01
5,2230E-01
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DEX OF REFRACT
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1,48724E=08
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9,74397E=01
9,7498E=01
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9,73138E=01 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
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1.484716-62
1.63640E-61
1.00903E40
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9.56678E-61
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9.5666E-61 | 2.01208E+09
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NARY PART=
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DEX OF
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1.0000VE-J4	1.109895-17	9 •	1.00000E+00	1.632796-09	1.109898-17		R I
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1.0000000-02	1.1.09005+09	1.323495-23	1.00000K+00	1.632775-05	1.109868-09		
L+000000E-01 L+000000E+00	1.10744E-08 7.39546E-02	8+421+15-20 4+44099E-14	1.00000E*00 1.00000E*00	1.82196E-03 1.84517E-01	1.10703E-05 7.65738E-08		1
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. 6000gE+#2	2.014888.00	04		8,77173E-01	2,473968-01		270
+00006E+62	2.436376+48	1+48109E-14	1.000005+00	8,815645-01	2.404682-01		622
+08000E+83	2.010505+99	1+42109E=14	1.0000E*00	8,8 1493K =01	2.357826-01	6.76204E=#1	1030
+67880E+03	2.017442.00	1+421095+14	1.0000002+00	8.823246-01	2.37396E-01	1:680745+01	1443
+\$0000E+03	2.01164E+88	0.	1.0000 0E+0 0	8,800E=01		2,8600BE-#1	1654
.##000E+#3	2,011046400	1.48109E-14	1,00000E+00	8,43483E.el	2,336378-01	1,98725E+##	
	2.01 0256 +00	1+48109E=14	1.000002400	8.84243E+01	1.32700E-01	2,96443E+44	2034
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	1,123676+86	1.123676-06	1.01096E=15	1.83278E-11	1.123678-06		
+000000L-04	1.123478.08	1+123476-45	1.010968-18	1.83190K-09	1.12367E-08		3
.00000E=03	1.183678-04	1+123675-04	1.01096E-09	1.63160E-07	1.123672-64	1.703976-13	3
+ D0844E-42	1,129712-03	1.123716-03	1:01091 C=0 6	1,031872-05	1.123716-03		4
.00000E-01	1.12899E+82	1+127865-02	1.00541E-03	1.431092-03	1.128996-02		5
••••••	2,317565-01	1+39009E=01	3+998472-#1	1.87696E-#1	2+14363E-01		
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• \$086aE+02	2.09002E+08 2.04910E+00	9.84599£-01 9.54183£-01	5.26990E-01 5.32388E-01	9.7052E-01	1.021036+00		124 241
.00000E+02	2.03106E+00	9.466886=01	5.33095E=01	9.71272E-01 9.71419E-01	9.89522E-01 9.77680E-01		536
++004+E+03	2.01964E+00	9.404036-01	5,34371E=01	9.71436E-01	9.712312-01		1047
\$7054E+03	2.#1457C+00	9-379636-01	5.34410E-01	9.7141 E-01	9.667346-01		1624
.60000E+03	2.01439E+08	9.378836-01	5.344092-01	9.71417E-01	7.68652E-01		1603
· B00000E+03	2.01331E+00	9.37401E-01			9.68166E-01		
		~~~~~	5,343982-81	¥.71411C-01			1865
	2+01241E+00	9+376126+01	B.34384E-41	9.71411E-01 9.71406E-01	9.67762E-01	2.05104E=02	2087
	2+01241E+00 DEX OF REFRACT	9.370128-01 ION: REAL PART	B.34384E-01	9,71406E-01 00 -[HAOI	9.67762E-01	2.05104E-02 .1048068888	2087
IN	2+01241E+00 DEX OF REFRACT	9.376128-01 Ion: REAL PART	8,34344E+61 [* 1.33068000	9,71406E-01 00 -IMAGI	9.67762E-01	2.05104E=02 +1048048444	2087
IN 	2+01241E+00 DEX OF REFRACT	9+37+12E+41 ION+ REAL PART GABS	B.34344E-41	9,71466E+01 00 - IMAGII 00 - IMAGII 00 - IMAGII	9.67762E-01 NARY PART= OPR	2.05104E-02 +1048068888	2087 NH
IN X 8u- <u>9</u> 0000	2+01241E+00 DEX OF REFRACT QEXT 2+24787E=06	9.370125-01 ION: REAL PART CABS 2.247075-06	B.34344E.ej - 1.33000000 ALHEDO B.40205E.=16	9,71466E~01 09 ~ IMAGI A\$YH 1.63075E~11	9.67762E-01 NARY PART= OPR 2.24787E+06	2+08104E+08 +1048048444 CBAK 1+48164E+21	2087 
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IN x •00000E-u5 •00000E-04 •00000E-03 •0000E-03 •0000E-03	2:01#41E+00 DEX OF REFRACT 2:24787E=06 2:24787E=06 2:24787E=06 2:24784E=03 2:24794E=03	9.370128-01 IOH, REAL PART QAB8 2.247078-06 2.247078-06 2.247078-04 2.247048-03	B.34344E.ej - 1.33000000 ALHEDO B.40205E.=16	9,71466E~01 09 ~ IMAGI A\$YH 1.63075E~11	9.67762E-01 NARY PART= OPR 2.24787E+06	2:08104E=02 ·1088089888 QBAK 1:88164E=21 1:82164E=12 1:82164E=12	2087 NH 2 3
IN •00000E-u5 •00000E-u5 •0000E-u5 •0000E-u2 •0000E-u1	2:01#41E+00 DEX OF REFRACT; QEXY 2:24787E=06 2:24787E=08 2:24787E=03 2:84748E=03 2:84748E=03	9:370128-01 104: REAL PARI QABS 8:247878-06 8:247878-06 8:247878-04 8:24788-03 8:256215-02	B.34344E+61 F= 1.330640000 ALHEDO B.40205E=16 B.40205E=13 B.40205E=13 B.40205E=10 B.40205E=04 B.37544E=04	9,71466E~01 	9.67762E-01 VARY PART= OPR 2.24787E-06 2.24787E-06 2.24787E-08 2.24787E-02 2.24787E-03 2.24784E-03	2:00104E=02 -10000000000 -000000000 -000000000 -00000000	2087 NH 2 3 3 4 6
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IN •0000E-05 •0000E-05 •0000E-03 •0000E-01 •0000E+01 •0000E+01 •0000E+02 •0000E+02 •0000E+02 •0000E+03 •0000E+03 •0000E+03	2:01241E+00 DEX OF REFRACT: QEXT 2:24787E=06 2:24787E=06 2:24787E=06 2:24794E=03 2:87942E=03 2:87942E=03 2:39853E+00 2:04784E=00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E+00 2:01948E	9+37012E-01 IOH, REAL PART OABS 2+24707E-06 2+24707E-06 2+24707E-08 2+707E-03 2,25621E-02 2,25621E-02 2,70037E-01 1+2112E+00 9+84523E-01 9+3530E-01 9+3530E-01 9+3530E-01	B.34344E-01 ALHEDO B.40205E-16 B.40205E-13 B.40205E-13 B.40205E-13 B.40205E-13 B.40205E-13 B.4020E-07 B.37544E-04 B.2520E-01 B.35605E-01 B.35605E-01 B.35605E-01 B.35605E-01	9,71466E-01 	9.67762E-01 VARY PART= OPR 2.24787E-06 2.24787E-06 2.24787E-06 2.24787E-03 2.25742E-03 3.47409E-01 1.30697E-00 9.6097E-01 9.67632E-01 9.67752E-01 9.67752E-01	2:00104E=02 -1000000000 -1000000000 -1000000000 -100000000 -100000000 -100000000 -100100000 -10010E-02 -10010E-02 -10010E-02 -10010E-02 -10010E-02 -10010E-02	2057 NH 2 3 4 5 8 21 123 23 538 1646 1646 1640
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IN X •0000E-u5 •0000E-u5 •0000E-u2 •0000E-u2 •0000E-u2 •0000E+u2 •0000E+u2 •0000E+u2 •0000E+u2 •0000E+u3 •0000E+u3 •0000E+u3 •0000E-u5 •0000E-u5 •0000E-u5 •0000E-u5 •0000E-u5	2:0124jE+00 DEX OF REFRACT 2:24787E-06 2:24787E-06 2:24787E-06 2:24787E-06 2:24787E-06 2:24794E-03 2:24794E-03 2:24794E-03 2:24794E-03 2:24794E-03 2:24794E-03 2:0518E-00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:01492E+00 2:0	9.370128-01 IOH, REAL PART OABS 2.24767E-06 2.24767E-06 2.24794E-03 2.25621E-02 2.76037E-01 1.21108+00 9.64523E-01 9.3530E-01 9.37706-01 9.37706-01 9.3478E-01 9.3478E-01 9.34493E-01 9.34493E-01 9.34493E-01 9.34493E-01 9.34493E-01 9.34493E-01 9.34493E-01 9.34493E-01 9.34493E-01 9.34493E-01 9.34493E-01 000, REAL PART	B:34344E+01 ALHEDO B:40205E+16 B:40205E+16 B:40205E+13 B:40205E+13 B:40205E+13 B:40205E+07 B:37544E+04 2:51723E+01 B:38456E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01 B:3565E+01	9,71466E-01 - 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	QBAK				QABS	GEXT	
		1.121445-06		1.429345-18	1,121448-06	1.121448-86	1.0000000-05
		1.181446-83	1.834895-89			1,121448-85	1.000006-04
	1.731916-13			1,021348-09	1.121446-84	1.121446-84	1.00000E-03
	1,731425-09	1.121496-83		1. 02929K-06	1,121482-83	1+12149E-87	1.00000E-02
		1,126412-02	1,477996-87		1,129665+42	1.126812-92	1.080092-01
	8,484795-82	2,197346-81	1.879216-81		1.391312-81	2.3346FE-81	1.00000E+00
	6. 24641E-82	1,214542+00		5.591556-01	1.834406+88	2,346412+88	1. 00000E+01
	2,04230 <u>C</u> -02	1.428475+88		F. 87 25 FE-11	9, 8849 25-81	2.89884E+88	1.00000E+42
	z, 88238E-82	9.6939 <u>12</u> -81		9, #2636E-81	9, \$7680E-81	Z. 84911E+88	2.500042+42
	2.98239 <u>X</u> -92	9.77964E-81	9.71898E-61	\$,34137E-81	9.46201E-01	2.831872+80	5, <b>886986</b> +92
	2,682298-02	9.711242-81		F, 74609E-01	9.39926E-81	2.01963E+01	1.000002+03
- 1	2.882298-92	9.88639E-81	9,718876-61		9,37489E-41	2,814572+88	1.978882+83
- 10	2,052292-82	9.68 <b>8486</b> -81	9.718878-81		9.374898-81	2.014392+00	1.60800E+03 1.80000E+03
- 14	2,082292-92	9,688978-81	9,718882-81		9,36928E-01	2.013312+00	
2( 	2.66229E-82		9.718745-81		******	2,01241E+00	
	•••••••••••	MARY PART= 8.	ee -ihati	T= 1. #200000	ION, REAL PAR	DEX OF REFRACT	IN
, 1 1 1	ÓBÁK	OPR	ATYM	ALBEDO	CA CS	QEX I	*
-	1.774232+21	1,184192-21	1.042688-11	1.00000E+00		1.104162-21	1,888882-85
	1.776238-17	1.184192-17	1.447745-89	1.00000£+00		1.184198-17	1.000002-04
	1.776238-13	1.184192-13	1.842722-87		8+ 87794E-28	1.184192-13	1.80000E-03
	1,776142-89	1,184128-89	1.842712-85	1.00000K+00	1.323492-23	1,154148-89	1.000000-02
	1.767288-88	1.181222-05	1.441882-83	1.004002+08	1.844286-19	1.163402-08	L. 006002-41 L. 00600E+60
	9. 87365E-42	8.22172E-82	1.893978-81	1.000000000	1,332272-15	1,000298-01	L. 400042+61
	4 <b>.99883E-81</b>	6 <b>.339</b> 462-01	6.83843E-81 8.74962E-81	1.000000000		2.413372+84	L. DQ905E+62
1	2.#2869E-81	<b>2.67075K-01</b>	8.74962E-01	1,004006488	1.421892-14	2.139942+00	2.5800000+42
Í	1.619018+00	2.698842-81	8.66769E-81	1.420442+84	1.421898-14	2.82413E+89 2.83833E+84	F. ############
	8.78794£+88	2, F49995-91	8.744496-81	1. 0000 HE+00	<b>1</b>	2.024352+00	1.084886+43
- 11	2.474836+88	2,46476E-81	8.78256E-81		1+481895-14	2.012972+00	L- 97889E+83
- 11	1,888192+88	2,489F4E-81		1.000660E+00	1.421092-14	2.849212+84	.68888E+83
- 16	1.896436-01	2,43043 <b>2-</b> 81		1,404092+88	4.		
- 11							
	1.499076498	R.41918E-81	8.79874E-01	1.808882+88	1+421898+14	2+013986+04	L+8888882+93
	1.49007E+88 6.46839E-91	R.47866E-91	6.79415E-01	1.000002+00	1.42189E-14 1.42189E-14	2.01390E+01 2.01971E+01	L+880868+93 2+088082+83
t .	6.46839E-\$1 Leog#80885	8.430662-01 MRY PART= .1	6.79415E-01 10 ~IMAGIN	1.90900£+00 T= 1.34200000	1.42189E-14 1.42189E-14 Ion, REAL PAR	2.013906+45 2.019716+08 EX OF REFRACT:	1.880065+93 2.08900E+03 IN1
20 	6.46839E-91 Leogeeses	2.430662-01 WRY PART= .:	6.794152-01 90 ~IHAQIP ASYH	1.00000£+00 T= 1.34200000	1.421892-14 1.421892-14 CON, REAL PAG	2.013906+05 2.019716+08 EX OF REPRACT: QEXT	L.880082+43 2.899082+83 INS INS X
t .	6.46839E-91 Leogeeses	2.430662-01 MRY PART=	8.794158-61 90 ~IKAGIP Asyk 1.635948-11	1.999992+00 T= 1.34200000 ALBEDO 9.77431E-16	1.421692-14 1.421992-14 CON; REAL PAG QASS 2.22994E-85	2.013906+05 2.019716+08 EX OF REFRACT: 02XT 2.229946-06	L.8800E+43 2.0300E+83 
20 	6.46439E-\$1 Lecovectors GBAK 1.43212E-21	2.430662-01 WRY PART= .:	6.794158-01 00 ~IHAGIN ASYH 1.635948-11 1.835948-09	1.000002+00 T= 1.34200000 ALBEDO 9.77431E-16 5.77431E-13	1.421892-14 1.421992-14 CON, REAL PAR GABS 2.229942-85 2.229942-85	2.01300E+88 2.01071E+08 EX OF REFRACT: QEXT 2.220945-88 2.22094E-88	L
20 	6.46839E-\$1 L900\$90685 QBAK	2.430662-01 MRY PART=	6.79415E-01 	1.000002+00 T= 1.34200000 ALBEDO 9.774312-16 9.774312-13 9.774312-13	1.421892-14 1.421892-14 (ON, REAL PAR GARS 2.229942-85 2.229942-85 2.229942-85	2.613966+88 2.019718+88 EX OF REFRACT: 02XT 2.22945-86 2.22945-88 2.22945-88	L. 888885+83 2. 888885+83 IND X 1. 888865-93 . 888805-93 . 888805-83
20 	6.46439E-31 L000000555 QBAK 1.073122-21 1.0972122-17	R.438662-81 MRY PART= .: QPR 2.229942-86 2.229942-86	6.79415E-01 	1.000002+00 T= 1.34200000 ALBEDO 9.77431E-16 9.77431E-13 9.77431E-19 9.77484E-07	1.421892-14 1.421892-14 (ON, REAL PAR 2.22994E-85 2.22994E-85 2.22994E-85 2.22994E-85 2.22994E-85 2.22994E-85 2.22994E-83	2.01300E+88 2.01971E+88 EX OF REFRACT 2.22945-86 2.22945-86 2.22945-88 2.22945-88	L. 8800 45 + 43 2. 8899 82 + 83 IND X L. 8886 85 - 45 . 8866 85 - 45 . 8866 85 - 45 . 8866 85 - 42
20 	6.46439E-81 Leoossosso QOAK 1.93212E-81 1.93212E-17 1.93212E-13 1.93202E-83	2.430662-01 MARY PART= .: QPR 2.229942-86 2.229942-86 2.22942-68 2.230942-68 2.230942-84 2.230942-83 2.230942-83	6.79415E-01 	1.000002+00 ALBEDO 9.774312-16 9.774312-10 9.774312-10 9.77442-07 9.74492-07 9.74492-04	1.42109E-14 1.42109E-14 CON, REAL PAR QADE 2.22994E-05 2.22994E-05 2.22994E-05 2.22994E-05 2.22994E-05 2.23094E-05 2.23094E-05 2.23094E-05	2.013906+03 2.01971E+03 EX OF REFRACT: 02XT 2.22945-05 2.22945-05 2.22945-04 2.22945-04 2.22945-03 2.22945-03 2.23075E-03	L.88888543 2.00002403 IND X L.00005703 .00005703 .00005703 .00005703
20 	6.44439E-81 Leooseoseo QOAK 1.432122-81 1.93212E-13	2.430662-01 MRY PART= .: UPR 2.229042-86 2.2294E-68 2.2294E-64 2.2294E-64 2.2294E-64	6.79415E-01 ASYM ASYM 1.83594E-11 1.83014E-09 1.83012E-07 1.83012E-07 1.83012E-03 1.8305E-03 1.91426E-01	1.999992+00 T= 1.34200000 ALBEDO 9.77431E-16 9.77431E-13 9.77431E-10 9.77431E-10 9.77492-07 9.77497E-04 2.74197E-04	1.42109E-14 1.42199E-14 (ON, REAL PAR QABS 2.22994E-05 2.22994E-05 2.22994E-04 2.22994E-04 2.22994E-04 2.23091E-05 2.73397E-01	2.613966+88 2.019718+88 EX OF REFRACT: 2.22945-88 2.22945-88 2.22945-84 2.22945-83 2.23958-83 2.23958-83 3.264785-82	L. 88888543 . 88988543 IRO X . 88888543 . 88885543 . 88885543 . 86885543 . 86885543 . 86885543
# 0 	6.44439E-81 LOODFOGS5 QBAK 1.93212E-17 1.93212E-17 1.93212E-13 1.9222E-09 1.9222E-09 6.99457E-02	2.430662-01 MARY PART= .: QPR 2.229942-86 2.229942-86 2.22942-68 2.230942-68 2.230942-84 2.230942-83 2.230942-83	6.79415E-01 - IMAGIN ASYM 1.8394E-11 1.8394E-09 1.83912E-07 1.83912E-07 1.8392E-03 1.91426F-01 9.16789E-01	1.000002+00 T= 1.34200000 ALBEDO 9.77431E-16 9.77431E-13 9.77431E-19 9.77404E-07 9.74407E-04 E.74197E-04 2.74197E-04 2.74197E-04	1.421092-14 1.421092-14 (ON, REAL PAR 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.230512-02 2.733972-01 1.215222+00	2.01300E+88 2.01971E+08 EX OF REFRACT 2.22945-06 2.22945-08 2.22945-08 2.22945-08 2.22945-08 3.784785-01 2.37421E+01 2.37421E+01	L. 888465 + 83 . 088806 + 83 IND X . 080605 - 65 . 080605 - 94 . 080605 - 94 . 080605 - 91 . 080605 - 91 . 080605 + 91
# 0 	6.46439E-81 LOOD\$90665 QBAK 1.93212K-21 1.93212K-13 1.93212K-13 1.93212K-05	2.430662-01 MRY PART= .3 QPR 2.229942-86 2.229942-86 2.229942-65 2.229942-64 2.239792-64 3.929282-61 1.31224264 1.01422648	6.79415E-01 - IMAGIN ASYM 1.83954E-11 1.83954E-11 1.83954E-09 1.83914E-09 1.83914E-09 1.83954E-03 1.91426E-03 1.91426E-01 9.167784E-01 9.677784E-01	1.000002+00 ALBEDO 5.774312-16 5.774312-16 5.774312-10 5.77442-07 5.74402-07 5.744072-04 2.744072-04 2.74578-01 4.84532-01	1.42109E-14 1.42109E-14 CON, REAL PAR QABS 2.22994E-05 2.22994E-05 2.22994E-05 2.22994E-05 2.22994E-05 2.22994E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.23094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-05 2.33094E-0	2.01390648 2.019718408 EX OF REFRACT: 0227 2.22945-06 2.229445-08 2.229445-04 2.229445-04 2.22945-04 2.22945-03 2.230785-03 3.762785-01 2.374218+00 2.90782400	L. 8888 65 +83 . 8888 85 +83 IND X 1000 85 -93 . 8888 85 +93 . 8888 85 +93
#	6.46439E-\$1 .000\$0665 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004 .004	2.430662-01 	6.79415E-01 ATYH 1.63594E-11 1.63594E-09 1.63014E-09 1.63012E-07 1.63012E-07 1.63012E-01 9.6643E-01 9.667780E-01 9.667780E-01	1.999992+00 T= 1.34200000 ALBEDO 9.77431E-16 9.77431E-16 9.77431E-10 9.77431E-10 9.77492-07 9.74492-07 9.74492-01 9.74492-01 9.73492-01 9.73492-01 9.73492-01 9.73492-01	1.421092-14 1.421092-14 1.421092-14 QAB3 2.229942-05 2.229945-05 2.229945-05 2.229945-05 2.229945-05 2.229945-05 2.239515-02 2.703572-01 9.52522+01 9.52552-01 9.53556-01	2.613966+88 2.019718+88 EX OF REFRACT: 02XT 2.22945-86 2.22945-86 2.22945-84 2.22945-84 2.22945-83 2.22945-83 2.23878-83 3.724218+88 2.4374218+88 2.4374218+88 2.4374218+88	L. 68866543 . 003002403 IRO X . 004002-03 . 004002-03 . 004002-03 . 004002-03 . 004002-03 . 004002-03 . 00400243 . 00600243 . 00000243 . 000000243 . 000000243 . 00000243 . 000000243 . 000000243 . 00000243 . 000000000000000000000000000000000000
# 0 	6.46439E-81 .000\$050505 .000\$0505 .000\$0505 .000\$122-21 .000\$122-17 .000\$122-17 .000\$122-17 .000\$122-17 .000\$122-17 .000\$407E-00 1.007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-0	2.430662-01 KRY PART= .: UPR 2.229942-86 2.22994E-66 2.22994E-68 2.23979E-68 3.52022-63 1.31224E-61 1.01422E+00 9.77693E-01 9.77693E-01	6.79415E-01 - IMAGIN ATYM 1.8394E-11 1.8394E-11 1.8394E-09 1.83911E-09 1.83921E-09 1.8392E-03 1.9142E-01 9.6549E-01 9.6849E-01	1.999992+00 T= 1.34200000 ALBEDO 9.77431E-16 9.77431E-16 9.77431E-10 9.77442-07 9.77442-07 9.77442-07 9.77442-07 8.74497E-01 9.744978-01 9.39378E-01 9.346510E-01	1.42109E-14 1.42109E-14 CON, REAL PAR CAUS 2.22994E-04 2.22994E-04 2.22994E-04 2.22994E-04 2.22994E-03 2.23991E-02 2.70377E-01 1.215232+00 9.82562E-01 9.4216E-01	2.01300E+88 2.01971E+08 EX OF REFRACT 2.22945-04 2.22945-04 2.22945-04 2.23092-03 2.22078-03 3.76473E-01 2.37421E+08 2.03762E+08 2.0430E+08	L. 8884 65 483 . 0888 02 403 IKU X . 0848 05 - 05 . 0848 05 + 05 . 0848
#	6.46439E-81 .000\$050505 .000\$0505 .000\$0505 .000\$122-21 .000\$122-17 .000\$122-17 .000\$122-17 .000\$122-17 .000\$122-17 .000\$407E-00 1.007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-02 .007\$32-0	2.430662-01 KRY PART= .3 CPR 2.229942-86 2.229942-86 2.229942-86 2.229942-85 2.229792-83 2.239792-81 3.529282-81 9.59408-91 9.59408-91	6.79415E-01 - IMAGIN ASYM 1.83994E-11 1.83914E-09 1.83914E-09 1.83914E-09 1.83914E-09 1.83986E-03 1.91426E-01 9.66493E-01 9.66997E-01	1.000002+00 ALBEDO 9.774312-16 5.774312-16 5.774312-10 5.774312-10 5.774472-07 5.744972-01 4.841972-01 5.274972-01 5.274592-01 5.274592-01 5.346592-01 5.355922-01	1.42109E-14 1.42109E-14 OARS 2.22994E-05 2.22994E-05 2.22994E-05 2.22994E-05 2.22994E-05 2.22994E-05 2.22994E-05 2.23091E-02 2.70397E-01 1.21929E+01 9.02992E-01 9.32913E-01	2.013906+03 2.01971E+03 EX OF REFRACT: 2.22945-06 2.22945-08 2.22945-04 2.22945-04 2.22945-04 2.22945-04 2.229752-02 3.762752-02 3.762752-01 2.374216+00 2.013065+00 2.013465+00	L. 888885+83 . 888885-83 X 180885-95 . 888805-95 . 888805-85 . 888805-85 . 888805-81 . 8
20 	6.46439E-81 .00080805 .00080505 .00080505 .00080805 .00080805 .00080805 .00080805 .00080805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805 .000805	2.430662-01 	6.79415E-01 ATYH 1.63594E-11 1.63914E-09 1.43914E-09 1.43914E-09 1.63924E-07 1.63924E-01 9.65736E-01 9.65736E-01 9.65994E-01 9.6597E-01 9.6597E-01 9.6597E-01	1.9994002+00 ALB2DO 9.774312-16 9.774312-16 9.774312-18 9.774312-19 9.77492-07 9.74492-07 9.74492-07 9.74492-01 9.74692-01 9.34592-01 9.36592-01 9.3659762-01	1.421092-14 1.421092-14 1.421092-14 QAB3 2.229942-05 2.229945-05 2.229945-05 2.229945-05 2.229945-05 2.229945-05 2.229945-05 2.703572-01 1.235272+00 9.3359132-01 9.359132-01 9.359132-01	2.01300248 2.013712408 EX OF REFRACT: 2.22345-04 2.22945-04 2.22945-04 2.22945-04 2.22945-04 2.22945-04 2.22945-04 2.23032-03 2.23742-02 2.37742-02 2.37742-02 2.47742-03 2.47742-03 2.49732-03 2.49732-03 2.49732-03 2.49732-03 2.49732-03 2.49732-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.49742-03 2.4974	L. 889965+93 . 099902+93 IRD X . 099902-93 . 099902-93 . 099902-93 . 099902-93 . 099902-93 . 099902+93 . 09995+93 . 09995+93
20  H 1 2 1 1 1 1 1 0	6.46439E-81 .000\$0665 .004K 1.93212K-21 1.93212K-21 1.93212E-17 1.93212E-05 1.93212E-05 1.92224E-05 2.31052E-02 2.31052E-02 2.31052E-02 2.31055E-02 2.31055E-02	2.430662-01 KRY PART= .3 CPR 2.229942-86 2.229942-86 2.229942-86 2.229942-85 2.229792-83 2.239792-81 3.529282-81 9.59408-91 9.59408-91	6.79415E-01 -IMAGIN ATYH 1.8394E-11 1.8394E-11 1.8394E-09 1.83921E-09 1.83921E-09 1.93911E-09 1.93911E-09 9.66498E-01 9.66498E-01 9.66494E-01 9.66494E-01 9.66497E-01	1.9994982+00 T= 1.34200000 ALBEDO 9.77431E-16 9.77431E-16 9.77431E-10 9.77432E-10 9.77442-07 9.77442-07 9.77442-07 9.74497E-01 9.34592E-01 9.34576E-01 9.34576E-01	1.421092-14 1.421092-14 1.421092-14 000, REAL PAR 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.229942-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.230912-05 2.23002-05 2.23002-05 2.23002-05 2.23002-05 2.23002-05 2.230020	2.01300E+88 2.01971E+08 EX OF REFRACT 2.22945-04 2.22945-04 2.22945-04 2.23094E-08 2.22094E-08 2.22094E-08 2.22094E-08 2.22094E-08 2.7427E-08 2.7427E-08 2.37427E+08 2.01946E+08 2.01946E+08 2.01445E+08	L. 889965+93 . 099905+93 IRO X . 099905-93 . 064005-93 . 064005-93 . 064005-93 . 064005-93 . 064005+93 . 000055+93 . 000055+93 . 064055+43 . 064055+43
20 	6.46439E-81 .000\$0665 .004K 1.93212E-81 1.93212E-17 1.93212E-17 1.93212E-17 1.93212E-05 6.97467E-05 2.31052E-02 2.31052E-02 2.31055E-02 2.31055E-02 2.31055E-02 2.31055E-02	2.430662-01 KRY PART= .3 CPR 2.22994E-86 2.22994E-86 2.22994E-86 2.22979E-04 2.23979E-03 2.23979E-02 3.52222E-01 3.5242E40 1.01422E40 9.5743E-01 9.67915E-01 9.6743E-01	6.79415E-01 - IMAGIN ASYH 1.8394E-11 1.8394E-09 1.8394E-07 1.83912E-07 1.83912E-07 1.8392E-03 1.9392E-01 9.6694E-01 9.6694E-01 9.6694E-01 9.6694E-01 9.6694E-01	1.9994982+00 T= 1.34200000 ALBEDO 9.77431E-16 5.77431E-13 5.77431E-19 5.77431E-19 5.77497E-01 5.74497E-01 5.36110E-01 9.34592E-01 9.34592E-01 9.34592E-01 9.36512E-01 9.36512E-01 9.36512E-01 9.36512E-01	1.42109E-14 1.42109E-14 CON, REAL PAR CASS 2.22994E-05 2.22994E-05 2.22994E-05 2.22994E-05 2.22994E-05 2.22994E-05 2.22994E-05 2.22994E-01 9.3294E-01 9.3294E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.3299E-01 9.329E-01 9.329E-01 9.329E-01 9.329E-01 9.329E-01 9.329E-01 9.329E-01 9.329E-01 9.329E-01 9.329E-01 9.329E-01 9.329E-01 9.329E-01 9.329E-01 9.329E-01 9.329E-01 9.329E-01 9.329E-01 9.329E-01 9.329E-01 9.329E-01 9.329E-0	2.01300E+08 2.01971E+08 EX OF REFRACT: 2.22945-08 2.22945-08 2.22945-08 2.22945-08 2.22945-08 2.22945-08 2.220945-08 2.220945-08 2.220945-08 2.77421E+08 2.03065E+08 2.01945E+08 2.01945E+08 2.01427E+08 2.01427E+08	L. 68866543 . 001002403 IRO X . 004002-03 . 004002-03 . 004002-03 . 006002-03 . 006002-03 . 00600243 . 00600243 . 00000243 . 00000245 . 000000245 . 000000000000000000000000000000000000
20 	6.46439E-91 .00050055 .0005055 .0005055 .000522 .000522 .000522 .000522 .000522 .000522 .000522 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00052 .00	2.430662-01 	6.79415E-01 ATYH 1.63994E-11 1.8394E-09 1.8394E-09 1.8394E-09 1.8391E-09 1.8391E-09 1.8391E-09 1.9382E-01 9.6694E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01 9.6497E-01	1.9994002+00 ALBEDO 9.774312-16 9.774312-16 9.774312-16 9.774312-19 9.774312-19 9.774972-01 9.74492-01 9.345922-01 9.345922-01 9.345922-01 9.345922-01 9.345922-01 9.345922-01 9.345922-01 9.345922-01 9.345922-01 9.345922-01 9.345922-01 9.345922-01 9.345922-01 9.345922-01 9.345922-01 9.345922-01 9.345922-01 9.345922-01	1.42109E-14 1.42109E-14 CON, REAL PAR QA83 2.22994E-05 2.22994E-05 2.22994E-05 2.22994E-05 2.22994E-05 2.22994E-05 2.23994E-05 2.23994E-05 3.23951E-02 3.23851E-01 9.329513E-01 9.329515E-01 9.32987E-01 9.32987E-01 9.32987E-01 9.32882E-01 9.32882E-01	2.01300648 2.019718408 EX OF REFRACT 2.229465-86 2.229445-86 2.229445-86 2.229445-86 2.229445-86 2.229445-86 2.22945-84 2.22945-84 3.762785-81 2.37421848 2.014455480 2.014455480 2.014455480 2.01427548 2.01221848 2.01221848	L
20 10 10 10 10 10 10 10 10 10 10 10 10 10	6.46439E-\$1 .000\$0605 .000K 1.932122-21 .932122-17 1.932122-17 1.932122-17 1.932122-05 .932022-05 1.922022-05 2.310522-02 2.310522-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 2.310552-02 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2.23979E-83 2.23979E-82 3.572928E-81 3.574928E-81 9.59940E-81 9.59940E-81 9.6599E-81 9.65957E-81 9.6597E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 9.6587E-81 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1.83912E-07 1.63924E-01 9.66442E-01 9.66442E-01 9.66442E-01 9.66442E-01 9.66442E-01 9.66442E-01 9.66442E-01 9.66446E-01 9.669766E-01 9.669766E-01 9.669766E-01 9.669766E-01 1.1248E-07 1.1248E-07 1.1248E-07 1.1248E-07 1.1248E-07 1.1248E-07 1.1248E-07 1.1248E-07 1.1248E-07 1.1248E-07 1.1248E-01 7.76878E-01 7.76878E-01 7.76878E-01 7.7788E-01	1.9994002+00 ALBEDO 9.774312-16 9.774312-16 9.774312-16 9.774312-16 9.774312-18 9.774312-19 9.774312-19 9.774312-19 9.774972-01 9.74492-01 9.345742-01 9.345742-01 9.345742-01 9.345742-01 9.345742-01 9.345742-01 9.351192-12 1.931192-12 1.931192-12 1.931192-01 0.946422-01 0.173522-01 0.734822-01 0.734822-01	1.42109E-14 1.42109E-14 1.42109E-14 QASS 2.22994E-05 2.22994E-05 2.22994E-05 2.22994E-05 2.22994E-05 2.22994E-01 3.2397E-01 9.3295E-01 9.32467E-01 9.32467E-01 9.32467E-01 9.32467E-01 0H, REAL PART QASS 2.35764E-01 2.35764E-01 1.49613E-01 6.75540E-01 6.56399E-01 6.56399E-01 6.56399E-01 6.56399E-01 6.56399E-01 6.56399E-01 6.56399E-01 6.56399E-01 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6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.56329E-01 6.5632	2.01300640 2.019718408 EX OF REFRACT: 2.22945-04 2.22945-04 2.22945-04 2.22945-04 2.22945-04 2.22945-04 2.22945-04 2.22945-04 2.22945-04 2.22945-04 2.22945-04 2.22945-04 2.37421240 2.04030240 2.04030240 2.01457240 2.01457240 2.01457240 2.01457240 2.01457240 2.01457240 2.01457240 2.01457240 2.01457240 2.05731540 2.05731540 2.05731540 2.05731540 2.05731540 2.05731540 2.05731540 2.05731540 2.05731540 2.05731540 2.05731540 2.05731540 2.05731540 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IN	NEX OF REFRACT	LON, REAL PART	- 1.80000000	- IMAG [	NARY PART= 8		
	QEXT	QA 65	*****				
X 1.00000K-05	2.396818-21	8.	ALBEDO 1.994002+40	абун 1,983185-11	QPR 2.30681E-21	QUAK 3.460218-21	10H 2
1.080406-84	2.306616-17	i.	1.80000E+00	1. 183368-89	2.306815-17		ž
1.00000E-03	2.306416-13	-1.51 <b>5398-2</b> 7	1.880805+88	1.983332-07	2.38668E-13	3,46821E-13	ī
1,000000-02	2,38682E-09	1.323496-23	1.000002+00	1.963322-05	2.306742-09	3.46007E-09	I
1.00000E-01 1.00000E+00	2.36641E-05 2.150982-01	2.16840E-19 2.08170E-16	1.84800E+84 1.60800E+84	1.981772-03	2.303838-05	3,446292-85	3
1.0000002+01	2.862802+86	1. 1.	1.0000000000	1.989425-01 7.429136-01	1.72306E-01 7.409296-01	1.055062-01 1.695062+00	17
1.000006402	2.49439E+88		1.00400E+04	4.182462-81	3,80602E-01	1.736218+84	115
2.5000000002	2.06143E+00	1.421092-14	1.000082+00	4.261730-01	3,583332-01	J,J5601E+80	269
F. 99805E+82	2,04265E+00	2.84217E-14	1.0000E+08	4.253945-01	3.846512-81	4.565792-81	522
1.000000C+03 1.97080C+03	2.013942+88 2.013932+00	1.42109E-14 1.42189E-14	1.00000E+00 1.00000E+00	4.276822-81 8.285132-81	J.46636E-01 3.45893E-01	1.428192+41	1025
1.600045+03	2.017595+00	8,	1.80004E+80	8.286786-81	3.456576-01	7.053372+08 1.937572+81	1642 1633
1.880042+43	2,812682+88	4.263266-14	1. 00000E+00	8.292642-81	3.43645E-81	1. 222366+01	1672
2,000002+03	2.04950E+08	<b>8,</b> 	1.00000E+00	8.290226-01	3.436496-91	1 <b>,68899E+91</b>	2834
IN	DEX OF REFRACT	ION, REAL PART	- 1. <b>50000000</b>	IS -IHAGII	ARY PART=		
X	QEXT	QABS	ALOCO	A37H	QPR	QBAK	MM
1,000002-05	1.992822-06	1.992925-06	1.200538-15	1.97880E-11	1.992522-06	1.603366-21	Ĩ.
1.400002-04	1.992525-05	1.992926-69	1.209636-12	1.97976E-89	1.992522-05	3.60336E-17	1
1.9000000-07	1.992825-84	1,992525-04	1,203632-09	1.979758-07	1.992526-84		
1,00000E-02 1,00000E-01	1.99263E-83 2.88688E-82	1.99263E-83 2.99369E-82	1.209972-06 1.194312-03	1.979738-89 1.970298-03	1,99263E-03 2,99499E-92		
1,000002+00	4.823782-81	2,736302-01	4.327382-81	2.055972-01	4.39454E-01		
1.888082+81	2.45979E+88	1.224652+80	8.02134E-81	9.223586-01	1.324562+00	9.27271E-82	- 21
1.000000002+02	2.089825+80	9.57688E-81	8-417378-81	9.56392E-81	1.113852+88	4,193446-82	124
2.5988882+82	2.849295+88	9.29346E-81	5.46486E-11	8,50944E-01	9.84276E-81	4,183388-82	281
5.0000E+02	2,031151+00	9,185242-01	5.47733E-81	9.889666-81	9.73177E~01		418
1.000002+07	2.819762+88	9,127782-01	8.48867E-01 5.48992E-01	9,500805-01 9,500105-01	9,67143E-01 9,64810E-01		1146
1.57000E+03 1.60000E+03	2.81461K+80 2.01447K+80	9.184982-81 9.184245-81	5.48049E-01	9.588875-01	9.647348-01		1624 1653
1.888188+83	2.013392+60	9.099742-81	5.408245-81	9.587891-81	9.44274E-91		1455
2.101102+03	2.812498+80	9+89614E-01	#.4#\$06E-81	9.507776-01	9.639035-01		2687
	ALL OF REFRAUL	ION; REAL PART	= 1.92900000	IG -IMAGI	MARY PART=	, \$682888888	
						n p = 0,0 00 = = 0000 ====	
X	QEXT	CABS	ALBEDO	A SY H	OPR	98ÁK	
X 1.00005E-05						QBÁK J. 622236-21	
X	QEXT 1.373022-06 1.373022-05 1.733022-05	0489 1. 333825-68 1. 333825-68 1. 333825-89 1. 333825-04	ALBEDO 1.91842E-19 1.91842E-19 1.91842E-12 1.91842E-09	A3YH 2.000676-11 2.000676-19 2.000666-07	OPR 1.33382E-86 1.33382E-88 1.33382E-88	QBÁK 3. 822234-21 3. 822234-17 3. 422234-17 3. 422234-13	111 1 1 1 1
X 1.00000E-07 1.00000E-04 1.00000E-03 1.00000E-03	QEXT 1.333622-06 1.333622-05 1.333622-84 1.333622-84 1.333622-84	QAB3 1.333825-66 1.333825-65 1.333825-04 1.333925-63	ALBEDO 1.91842E-19 1.91842E-19 1.91842E-09 1.91832E-06	Á SY H 2. 800676-11 2. 88976-89 2. 089565-87 2. 089565-87 2. 089545-85	OPR 1.JJ3822-86 1.JJ3822-86 1.JJ3822-88 1.JJ3822-84 1.JJ3982-83	quák J. 622232–21 J. 622232–17 J. 622232–13 J. 622592–69	1 1 1 1 1 1 1
X 1.00005E-05 1.00000E-04 1.00500E-03 1.99609E-03 1.99609E-91	QEXT 1.333425-06 1.333425-06 1.333425-06 1.333425-06 1.33425-05 1.344195-03 1.344195-02	CABS 1. #3382E-65 1. 33882E-65 1. 33882E-65 1. 33882E-63 1. 34166E-62	ALBEDO 1.91642E-19 1.91642E-19 1.91642E-29 1.91642E-09 1.91632E-06 1.9737E-63	Á SYM 2. 000676-11 2. 005676-09 2. 00566-07 2. 00566-07 2. 005946-05 2. 005946-05 2. 005946-05	GPR 1.JJJ82E-86 1.JJJ82E-86 1.JJJ82E-86 1.JJJ92E-83 1.JJ99E-83 1.J4419E-82	QUAK J. 822234-21 J. 822234-17 J. 822232-13 J. 827348-09 J. 887348-09	111 1 1 1 1
X 1,00000E-05 1,00000E-03 1,00000E-03 1,0000E-01 1,0000E-01 1,0000E+00	QEXT 1.333422-06 1.333422-05 1.333422-05 1.333422-05 1.34458-02 4.198778-01	QAB3 1.333425-45 1.333825-45 1.333825-45 1.333825-45 1.33392-04 1.33392-04 1.341688-02 1.943678-81	ALBEDO 1.9142E-19 1.91942E-19 1.91042E-09 1.91032E-09 1.09737E-03 5.46562E-01	A3YH 2.000676-11 2.0005678-9 2.000568-07 2.005948-05 2.005948-05 2.005954-9 2.005954-9 2.005954-9 2.00554-91	0PR 1.33382E-86 1.33382E-86 1.33382E-84 1.33382E-83 1.55418E-83 1.55418E-83 1.55418E-83	QBAK J. 62223E-21 J. 62223E-17 J. 6223E-13 J. 62239E-69 J. 66734E-65 J. 94434E-61	
X 1.0000E-05 1.0000E-04 1.0000E-03 1.0000E-03 1.0000E-01 1.0000E-01 1.0000E+01	QEXT 1.333422-06 1.333422-06 1.333422-05 1.33322-85 1.33490E-03 1.34419E-02 4.19077E-01 2.981132+90	QAB9 1.333825-05 1.333825-05 1.333825-05 1.333902-03 1.341608-02 1.903078-81 1.187902+00	ALBEDO 1.91842E-19 1.91842E-19 1.91842E-09 1.91832E-06 1.89737E-63 5.46568E-01 5.47691E-81	A 3Y H 2. 000676-11 2. 009576-09 2. 009546-07 2. 00954-05 2. 00954-05 2. 00954-05 2. 00954-05 3. 117736-01	OPR 1.33822-06 1.33822-05 1.33822-05 1.33902-03 1.344196-03 1.344196-03 1.244196-03 1.244196-03 1.277172+00	QBAK 3. 82238-21 3. 82238-17 3. 62238-13 3. 622892-69 3. 807342-69 3. 807342-61 3. 944344-01 3. 868542-61	NH 2 3 5 6 8
X 1,00000E-05 1,00000E-03 1,0000E-03 1,0000E-01 1,0000E-01 1,0000E+06 1,0000E+0E 1,0000E+0E	QEXT 1.333422-06 1.333422-05 1.333422-05 1.333422-05 1.34458-02 4.198778-01	QAB3 1.333425-45 1.333825-45 1.333825-45 1.333825-45 1.33392-04 1.33392-04 1.341688-02 1.943678-81	ALBEDO 1.9142E-19 1.91942E-19 1.91042E-09 1.91032E-09 1.09737E-03 5.46562E-01	A3YH 2.000676-11 2.0005678-9 2.000568-07 2.005948-05 2.005948-05 2.005954-9 2.005954-9 2.005954-9 2.00554-91	0PR 1.33382E-86 1.33382E-86 1.33382E-84 1.33382E-83 1.55418E-83 1.55418E-83 1.55418E-83	QRAK J. 622234-21 J. 62234-17 J. 62232-13 J. 62232-13 J. 667342-05 J. 044342-05 J. 044342-05 J. 044342-05 J. 046952-01 4. 302965-02	
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57468E+83	2.010002+00	3,43 <b>364Z</b> -82	9.73831E-81	8.094292-01	4.281166-81		1616
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48484E+83 88484E+83		6,24187E-82	9,698782-81	8,181838-81 8,182825-81	4.337216-01 4.374096-01	2,379118+01	1847
د در کا قدین میکردن رو جدی				-1HA91		7, 179932+81 	
			•••••••			····	
X	QEXT	QART	ALBEDO	ABYN	QPR	QBAK	HH
4000H-05	4.232362-47	9, 232362-67	3.484732-18	2.879915-11	9.232362-07		ž
888882-84 88888 <b>6</b> -83	9,232342-46 9,232372-45	9.23236E-06 9.23237E-05	3,484732-12	2,80968E-99 2.86969E-87	9,232366-06		1
40000-02	9.23301E-04	7, 23290E-84	3,484732-89 3,484842-86	2.140676-45	9,232372-05 9,23301E-04		
	1,125192-11		3, 379734-53	2. 0740 05-03	9, 325020-03		
*******	4,40206E-01	1.417718-81	6.77943K-81	8,134926-81	8.764936-01		7
88045E+81	2.123125+88	1,847458+88	#. #5#27E-&1	8.864288-81	1.215096+00	6,96974E-01	<b>21</b>
88088 <b>82</b> +82	2.49980E+88	9,441895-81	8.484992-91	9-399695-81	1.013026+00	F. 36847E-82	124
\$0000E+02 80000E+02	2.84962E+88	9,16269E-01 9,05699E-01	5.52961E-01	9.484145-01	9.43747E-01		281
444062+83	2,831378+88 2,819815+88	6.99918E-01	9.941462-81 9.944692-81	9,487725-81 9,482775-81	9.72817E-01 9.64891E-01	\$,3604\$£-02 \$,3604\$£-02	538 1846
\$7468E+83	2.814882+88	6.9767FE-61	5.544332-61	9,491395-81	9.64\$44E-81		1624
6888 <b>86</b> +83	2.814982+89	8.97682E-81	5.544305-81	9.461325-81	9.64469E-01		1653
8989 <b>9</b> E+83	E.01341E+00	8.971896-81	5.54488E-81	9,481875-81	9.6401FE-81	F. 36044E-82	1.655
81888E+43	2.41270K+80	4.96601E-01	8.54 <b>38</b> 92-61	9,49888E-91	9.63647E-81		2437
				EE - INAGI)		. 1000000000	
X	QE XT	PA NO	ALBEDO		APR	QBAK	NN
88884E-85	1,449722-86	1,848726-86	1,739515-19	2.076806-11	1.84\$726-86	4.815988-21	2
400000-04	1.845722-85	1.845726-85	1,739512-12	2, 174125-09	1,849782-89		1
1010 <i>0</i> <b>2</b> -13	1.848722-84	1,848725-84	1,739#12-09	E. 87881E-07	1.645728-04		
88889E-82 88889E-81	1,449092-43 1,86116E-02	1,845845~83 1,857996~82	1,73952E-06 1,72759E ⁴ 03	2,87799E-85 2,87415E-83	1.64945E-83 1.65119E-82	4,81 <b>5826-89</b> 4,7 <b>99266-89</b>	4 5
1898 MC+80	5.702402-01	2,758996-01	5.16696E-01	2.167448-81	74 QM 1 4 ME - 3 K		
00000E+81	2.456946+88	1.196218+88			5.843708-81		
			<b>J.13189E-01</b>	9.153296-01	5,00370E-81 1,302965+08		- ei
	2.89832E+88	9.426376-81	8.49046E-81				
\$0100E+02	2,849482+88	9.426372-81 9.148992-81	8.49046E-01 8.636896-01	9, 15329E-01 9, 39435E-01 9, 39476E-01	1.382965+08 1.612615+00 9.838335-01	1.524412-01 5.468472-02 5.468322-02	124
\$8101E+82 48889E+82	2,849482+88 2,831292+88	9.42637£-01 9.14895£-01 9.04336£-01	8.49044E-01 8.536895-01 8.54798E-01	9, 153292-01 9, 394392-01 9, 394782-01 9, 394192-01	1.30296E+08 1.01261E+00 9.83933E-01 9.78618E-01	1.524812-81 5.46847E-82 5.46832E-82 5.46838E-82 5.46838E-82	124 281 538
\$8349E+82 48889E+82 88889E+82	2,849482+88 2,831292+88 2,819782+88	9.426376-01 9.140996-01 9.043366-01 6.909826-01	8.49044E-01 8.936095-01 8.54793E-01 8.98104E-01 9.98104E-01	9, 15329E-81 9, 39439E-01 9, 39478E-81 9, 39419E-81 9, 39278E-01	1.30296E+08 1.81261E+00 9.83833E-81 9.78512E-81 9.66672E-81	1.524412-01 5.468472-02 5.468322-02 5.468362-02 5.468292-02 5.468292-02	124 201 530 1045
\$0000C+02 60000C+02 60000C+03 97080C+03	2,849482+88 2,831292+88	9.426372-81 9.140952-81 9.843362-81 8.985822-81 8.985822-81	8,490462-01 8,836895-01 8,847985-01 8,881885-01 8,881885-01 8,880875-01	9,15329E-81 9,39439E-01 9,39478E-81 9,39419E-81 9,39270E-01 9,39170E-81	1.382962+08 1.612612+08 9.83833E-81 9.726122-81 9.666722-81 9.64378E-81	1.524412-01 5.465472-02 5.465302-02 5.465302-02 5.465292-02 5.465292-02 5.465292-02	124 281 538 1846 1624
\$0000E+02 60000E+02 50000E+03 57880E+03 60006E+03 80000E+03	2,049482+88 2,031292+00 2,019702+00 2,014852+00 2,014452+80 2,014452+80 2,013392+80	9.424372-01 9.140992-01 9.043362-01 4.085822-01 4.085472-01 4.962742-01 8.996742-01	B.498462-01 B.536092-01 S.547932-01 B.55072-01 S.550842-01 S.550842-01 S.550842-01	9,153295-01 9,394395-01 9,394395-01 9,394395-01 9,392705-01 9,391705-01 9,391415-01	1.382965+08 1.612615+00 9.638335-01 9.726125-01 9.666725-01 9.667755-01 9.642955-01 9.642955-01 9.642955-01	1.524412-81 5.468472K-82 5.46830K-82 5.46830K-82 5.46829K-82 5.46829K-82 5.46829K-82 5.46829K-82	124 281 538 1046 1624 1653
\$ # # # # # # # # # # # # # # # # # # #	2,049482+88 2,031292+48 2,019782+88 2,014652+88 2,014652+88 2,014642+88 2,013392+88 2,012492+88	9.426372-81 9.148992-81 9.643362-81 8.9643622-01 8.96422-01 8.964742-81 8.962742-81 8.994374-81 8.994772-81	<pre>B.490462-01 B.836982-01 B.847932-01 B.8847932-01 B.88072-01 B.88042-01 B.88042-01 B.88042-01 B.88042-01 B.88042-01</pre>	9,153292-01 9,394392-01 9,39478-01 9,394192-01 9,39192-01 9,391562-01 9,391562-01 9,391562-01 9,3915192-01	1.382965+08 1.612512+00 9.635335=61 9.725122=01 9.665725=01 9.643755=01 9.643755=01 9.642952=01 9.634322=01	1.524412-01 5.467302-02 5.467302-02 5.467302-02 5.467302-02 5.467202-02 5.467202-02 5.467202-02 5.467202-02 5.467202-02	124 281 538 1846 1624 1627 1897 2857
\$ 8 8 9 12 + 8 2 8 0 0 0 0 0 + 8 2 8 0 0 0 0 0 + 8 2 8 0 0 0 0 1 + 8 3 8 0 0 0 12 + 8 3 8 0 0 0 12 + 8 3 8 0 0 0 12 + 8 3 1 0 0 0 0 0 0 0 12 + 8 3 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,849482+88 2,831292+88 2,831292+88 2,814962+88 2,814562+88 2,813392+88 2,813392+88 2,812492+88 2,812492+88	9.426374-01 9.140952-01 9.643362-01 8.963622-01 8.963472-01 8.962742-01 8.962742-01 8.984774-01 0.954774-01	5.450462-01 5.51692-01 5.51692-01 5.551692-01 5.551692-01 5.5586972-01 5.5586972-01 5.5586972-01 5.556692-01 5.556692-01	9, 15 32 92-01 9, 394 392-01 9, 394 76-01 9, 394 76-01 9, 394 76-01 9, 391 76-01 9, 391 76-01 9, 391 412-01 9, 391 412-01 9, 391 412-01 9, 391 412-01 9, 391 412-01 9, 391 412-01	1.302962+08 1.612618400 9.835332=1 9.785182=01 9.6667278=01 9.642982=01 9.642982=1 9.634472=01 9.6348282=01	1.524412-01 5.46472-02 5.467322-02 5.467322-02 5.467302-02 5.467292-02 5.467292-02 5.467292-02 5.467292-02 5.467292-02	124 281 538 1046 1624 1657 1657 2057
\$ 9 9 9 9 9 4 9 2 + 9 2 9 9 9 0 9 7 + 9 2 9 9 9 9 7 4 8 4 2 + 9 3 8 9 9 9 7 4 8 4 2 + 9 3 8 9 9 9 6 2 + 9 3 9 9 9 9 6 2 + 9 3 9 9 9 9 1 2 + 9 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2,94995246 2,83129246 2,8379249 2,81497849 2,81455248 2,81455248 2,813392488 2,81249248 2,81249248 2,91249248 2,91249248 2,91249248 2,91249248 2,91249248 2,91249248 2,91249248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,91495248 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149548 2,9149566666666666666666666666666666666666	9.424374-01 9.43374-01 9.643364-01 6.905425-01 8.965425-01 8.965425-01 8.965425-01 8.965478-01 8.9954775-01 ION, REAL PAR	<pre>B.450462-01 B.836492-01 S.857902-01 B.981042-01 B.98072-01 S.85048-01 B.98445-01 B.98445-01 F.98445-01 F.98445-01 F.98445-01 F.1.780000000</pre>	9, 153292-01 9, 394392-01 9, 394762-01 9, 394192-01 9, 391762-01 9, 391562-01 9, 391562-01 9, 391562-01 9, 391562-01 9, 391562-01 9, 391592-01	1.302965+08 1.912616400 9.353338=1 9.726122-81 9.663752-81 9.643752-91 9.643752-91 9.643752-91 9.634822-91 NARY PART=	1.524412-01 5.467322-02 5.467302-02 5.467302-02 5.467302-02 5.467202-02 5.467202-02 5.467202-02 5.467202-02 5.467202-02 5.467202-02 5.467202-02	124 281 538 1845 1624 1657 1657 2857
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IN		ION, REAL PAR	[» 2.48988888		MARY PARTH - 8		***
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1.000000-05			1.000002+60	2.545712-11	6.666678-21	1.000000-20	2
1.00000E-04			1,0000000000	2.545462-89		1.60000E-16	- E
1.84840E-83 1.08888E-82		4.4823 <i>56-27</i> 9.	1.20000K+00 1.00000K+00		6.66667E-13 6.66676E-69	1.100005-12	2
1,006006-01		4.336818-19	1.000002+00		6.67630E-05	9,981782-85	1
1.858686+88	7.96838E-01		1.000002+80		\$.76747E-81	F. 35786E-81	i
1,000002+01		1.421898-14	1.884682+88		7.797 <b>596-</b> 81	6.131792+08	18
1.000048+62	2,136222+88	4.263266-14	1.000002+00		6.49877E-81		114
2,369002+82 5.40080K+82	2,862182+88 2,811872+88	1,42189E-14 8.	1.000002+00 1.000000000		6.848222-81 8.849232-81	2.49728E+82	265
1	2. 011336+10	1.421096-14	1		F. 48844E-81		524
1.378898+83	2.889482+88	1.421896-14	1.00000E+90	7.089498-01	F. 84788E-81		1605
1.600642+03	E.81989E+88		1.00000E+00			1,715626+83	1672
1.800082+83	2,806632+80	1,421898-14	1.000008+00				1836
2.000000000	2,812086+80	1.421895-14	1.40000000000	7.120216-01	8.7846 8E-81	2.18666E+83	2130
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X	QEXT	QABO	ALBEDO		QPA		
1				2.531815-11	474 2.656752-84	404K 1.4399FE-28	NN E
1.000002-04	2.654792-08		2.61186E-12		2.654756-85		1
1,000002-03	2.694758-84	2+684788-84	2.6115HE-89	2, \$21496-87		1.435608-12	j
1.000006-02	2.65585E-83	2.655946-83	2,61137E-86	2. 571466-85		1,839942-88	
1.00008-01	2.696868-98	2.6 <b>8369E-</b> 82	2.50710E-03			1.036985-84	
1.00000E+00 1.00000E+01	1.383298+89 2.394328+88	\$.68449E-81 1.14344E+88	8,63841E-01		1,001342+00	4.667492-81	1
1.0000000000	2.090552+00	#. #4129E-#1	5.22438E-81 5.77164E-81	6.72644E-81 8.92182E-81	1.302746+88 1.014296+88	1, 325505-01	
2 510490+02	2,849942+88	8. \$7746E-11	b.41979E-41	8.924782-81		1.190488-01 1.190498-01	124 281
¥ 000006+02	2,031680+88	8.478868-81	F. 42404E-41	8,917822-01	9.754138-41	1,158445-81	
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1 668 82+83	2,01460K+00	8.39694E-41	F. 671992-61	8.918892-81	9.67654E-81	1+150448-01	1453
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IN	DEX OF REFRACT.	ION, REAL PART	- 2.2000000	00 + IMASI)	IARY PART= .	*****	
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X 1.00000E-0F	GEXT 2.46819E-86	QA88 2:46819E-06	ÁL8800 J.515448-15	A SYN 2. 8829 9E-11	QPR 2.468196-96	QBAX 1. 701925-20	 HN X
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X 1.00000E-0# 1.0000E-04 1.00008E-03	GEXT 2.46819E-86 2.46819E-89 2.46819E-89	QÅ88 2.46619 <b>E-04</b> 2.46619 <b>E-0</b> 9 2.46619 <b>E-</b> 04	ALBEDO J.S1544E-15 J.B1544E-12 J.S1544E-89	A SYN 2+88299E-11 2+88269E-69 2+88268E-67	QPR 2.46819K-96 2.46819E-6F 2.46819E-8F	QBAX 1. J01922-20 1. J01922-16 1. J01912-12	101 2 3 3
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	QEXT	QABS	ALBEDO	ASYH	QPR	QBAX	
1.000002-05	\$.82 <b>93</b> 52-84	8,829396-86	7,731625-15	3.797922-11	9. 82 93 FE-0	5 3,252942-28	z
1.000002-84	\$.829352-85	5,829382-88	3,781628-12	3.79784K-69	\$.4293\$E+8		3
1.0000E-07	5,82938E-84	\$, 82938E-84	3.73161E-09	3.797872-07	9,82936E-04		
1,000002-02 1.000102-01	5,831892-83 6,185192-82	\$,83187E-83 6,88322E-82	3,73038E-86 3,99916E-03	3.796#5E-0# 3.74#91E-03	5.43189E-8 6.19511E-8		
1.0000052+00	3.313164+00	1.687942+00	F.14689E-01	9,233010-02	3.159742+8		;
1.00002+01	2.486796+88	8,38299E-81	6.95424E-01	7.08187E-81	1.298346+8		22
1,014002+92	2,186415+88	4.34602E-01	6.96830E-01	7.17822E-01	1+89279E+8		123
2.510102+02	2,85475E+88	4,110F9E-01	7.13189E-81	7.19229E-01	1.023322+4		281
3.088042+82	2.836788+88	9.99840E-81	7.858692-81	7.136195-81 7.124046-81	1.010012+0		
1,00004E+83 1,97840E+03	2.02282E+08 2.01666E+08	8,91974E-81 8,89878E-81	7,877822-81 7,478992-81	7.110015-01	1,003442+0(		1647
1.600448+83	2.016472+80	5.86976E-91	7.47916E-81	7.1177 9E-01	1,80941E+8		1664
1,800085+03	2.015182+80	8,843942-81	7,488182-81	7,116492-81	9.9981\$K-0	4+12365E-81	1456
2.04030E+07	2.01410 <b>2+00</b>	F, 879292-81	7.00099E-01	7,11#31E-01	9-99330E-0:	L 4.12369C-01	2887 
		•		III - IHAGI			
X	QEXT	QABS	ALGEDO	ASYH	OPR	qaak	
1.000002-09	1.651852-28	9,62963E-38	1,088805+88	6. <b>714242-11</b>	1.891456-2	2.77782-20	1
1.000005-04	1.6518 M-16	t.	1,8\$\$\$\$E+80	6, \$14295-89	1,89185E-1		2
1.000002-03	1.651462-12		1.000002+05	6. \$14298-17	1.4916FE-1		
1.000002-02	1.49282E-04 1.46931E-44	1.898795-22 8.673625-19	1.00000E+88 1.00009E+80	6,91479E-09 6,96189E-03	1.45190E-0		3
1.000042+00	6.462176+04	5,68434E-14	1.8998865+88	1,484142-83	6.85318E+8		i
1,000002+01	2.917636+88	1.	1	4.599792-01	1,39994E+8		17
1.000000000	2,069792+88	6,	1,880882+88	\$.27\$772-01	9,777978-8:	1 3.713312+01	115
2.50000E+92	Z+43646E+84	1.421092-14	1.000055+00	5.192592-01	9.792486-1		269
<b>5.100012+11</b>	2.013582+00	1.421092-14	1.09000E+80	\$,269951-81	9,524316-0		123
1,808102+03	2,03763£+00 2,61032£+00	2,84217E-14 1,42189E-14	1.00000E+00 1.00000E+00	5,339122-01 5,316566-01	9,49714E-0 9.438686-8		1029
1.970042+03 1.600002+03	2.022262+00	1.421895-14	1,000002+00	5,384956-41	9,40160E-0		1692 1633
1.8888882+83	2.813176+08	1.421896-14	1, 888842+88	8, 3496 88-81	9.361918-0		1425
R	2.805745+80	l,	1.888802+88	B. 31384E-01	9,48882E-8		2034
		ION, REAL PAR		IG -INAGI			
X	OEXT	QANS	ALBEDO	ABYH	QPR	QBAK	NN
1.00000-05	0EXT 2.107805-28	0A88 3.891866-34	AL8500 1,00000E+00	AZYH 9,909336-11	2.10700E-2	3.16049E-20	HH R
1.00000X-05	QEXT 2,107806-25 2.187885-16	QA <b>NS</b> 3,8\$1865-34 3,944385-38	AL8500 1.00005+00 1.00005+00	AZYH 9, 309336-11 9, 509446-09	2.10700E-2 2.10700E-1	0 3 <b>.160492-20</b> 5 3.16 <b>0492-1</b> 6	HH 2 2
1,8888888-89 1,880841-84 1,884888-83	02XT 2.107005-28 2.187005-16 2.197005-12	QANS 3.991862-34 3.944382-38 1.292472-26	ALBEDO 1.00000E+00 1.0000E+00 1.0000E+00	AZYH 9.809336-11 9.809446-89 9.889486-87	2.18700E-2 2.187885-1 2.187885-1	0 3.16049E-20 5 3.16049E-16 2 3.16049E-12	101 2 4
1.00000X-09 1.00000X-04 1.00000X-03 1.00000X-03	0EXT 2,10700E-28 2,10700E-28 2,10700E-12 2,10700E-12 2,10721E-06	0885 3,051862-34 3,944302-38 1,292472-26 8,	ALBEDO 1+80980E+88 1.88888E+88 1.88888E+88 1.88888E+88	A27H 9, 80933E-11 9, 80944E-09 9, 80948E-07 9, 81048E-08	2.10700E-2 2.10700E-1 2.10700E-1 2.10700E-1 2.10700E-1 2.10701E-0	0 3,16049 <u>2-20</u> 5 3,16049 <u>2-16</u> 2 3,16049 <u>2-12</u> 8 3,16019 <u>2-08</u>	
1,8888888-89 1,880841-84 1,884888-83	02XT 2.107005-28 2.187005-16 2.197005-12	QANS 3.991862-34 3.944382-38 1.292472-26	ALBEDO 1.00000E+00 1.0000E+00 1.0000E+00	AZYH 9.809336-11 9.809446-89 9.889486-87	2.10700E-2 2.10700E-1 2.10700E-1 2.10700E-1 2.10701E-0 2.10701E-0 9.100332-0	0 3.16049E-20 5 3.16049E-16 2 3.16049E-16 8 3.16019E-06 4 3.15019E-06 4 3.12997E-04 1 4.99787E-01	101 2 4
1.00000E-04 1.00000E-04 1.00000E-03 1.00000E-02 1.00000E-02	08x7 2.107005-28 2.107005-16 2.107005-12 2.107215-06 2.128895-04	QANS 3,881862-34 3,944386-38 1,292476-88 8, 4,336818-18	ALBEDO 1.00000E+00 1.0000E+00 1.0000E+00 1.00000E+00 1.00000E+00	AIYH 9, 8093 36-11 9, 8094 46-09 9, 80 94 86-07 9, 81 64 86-08 9, 6873 16-13	2,10700E-2 2,10700E-1 2,10700E-1 2,10700E-1 2,10701E-0 2,10033E-0	0 3.16049E-20 5 3.16049E-16 2 3.16049E-16 8 3.16019E-06 4 3.15019E-06 4 3.12997E-04 1 4.99787E-01	
1.000000000 1.00000000 1.00000000 1.00000000	QEXT 2.107005-28 2.107005-28 2.107005-16 2.107215-05 2.128805-04 2.43805-04 2.438328-90 2.056405+00	QANS 3,051662-34 3,044302-38 1,292477-96 8, 4,336012-18 8,552712-19 8, 1,421092-14	ALREDO 1.00100E+00 1.0100E+00 1.0100E+00 1.0100E+00 1.0000E+00 1.0000E+00 1.0000E+00 1.0000E+00	Alt H 9. 3093 32-11 9. 5094 32-11 9. 5094 52-07 9. 5164 62-05 9. 5573 12-03 9. 5573 12-01 9. 964 65 -01 9. 964 65 -01	2.10700E-2 2.10700E-1 2.10700E-1 8.10700E-1 8.10700E-0 2.100332+0 9.100332+0 1.1490325+0 1.07030E+0	0 3.160492-20 5 3.160492-16 2 3.160492-12 6 3.150192-08 4 3.129972-04 1 0.997672-01 2 2.619932-04 1 1.239922+01	HH E E J J 17 114
1.000000000 1.00000000 1.00000000 1.00000000	02x7 2.107005-28 8.107005-18 8.107005-12 8.12835-04 7.444005-01 8.83835-04 7.444005-01 8.838355-04 7.844005-01 8.85648540 2.839478400	0A88 3.951602-34 3.944302-34 1.292472-86 8. 4.336012-18 3.952732-19 8. 1.421092-14 8.	ALREDO 1.000002400 1.00002400 1.000002400 1.000002400 1.000002400 1.000002400 1.000002400 1.000002400 1.000002400	A1YH 9.80938-11 9.809448-09 9.809452-07 9.814482-09 9.587312-03 9.824322-01 9.82422-01 4.82422-01	2,10700E-2 2,10700E-1 2,10700E-1 8,10700E-1 8,10700E-0 7,1003JE-0 9,1003JE-0 1,15003E+0 1,07035E+0 1,07035E+0 1,07400E+8	0 3.154492-26 5 3.164492-16 8 3.164492-18 8 3.154192-18 9 3.129772-84 1 9.99772-84 1 9.99772-81 8 2.619932492 9 1.339922401 9 1.903492401	HH 2 2 3 3 17 114 270
1.000000000 1.00000000 1.00000000 1.00000000 1.00000000 1.00000000 1.00000000 1.00000000 1.00000000 1.000000000 1.000000000 2.0000000000 2.00000000000 2.0000000000	02x7 2.107005-28 8.107005-16 8.107005-12 7.107215-06 2.128896-48 7.544685-01 2.838325+90 2.838325+90 2.838475+00 2.838475+00	0488 3.091652-34 3.041342-38 1.292472-26 8. 4.336018-18 3.552712-15 8. 1.421092-14 1.421092-14	ALREDO 1.001002+00 1.00102+00 1.00102+00 1.00102+00 1.00102+00 1.00102+00 1.00102+00 1.00102+00 1.00102+00 1.00002+00 1.00002+00	A1YH 9.8093 82-11 9.8094 82-01 9.8194 82-07 9.814 82-07 9.814 82-07 9.8573 12-01 9.954 82-01 9.954 82-01 9.82 82 82-01 9.82 95 82-01	2.10700E-2 2.10700E-1 2.10700E-1 2.10700E-1 2.10705E-0 5.100332-0 9.100332-0 9.100332-0 9.100332-0 1.01408E-0 1.01408E+0 1.01408E+0 1.00752E+0	0 3.154492-26 5 3.164492-16 5 3.164492-18 8 3.158192-18 9 3.159192-08 9 3.129972-04 9 4.619932+08 9 1.339922+61 9 1.903492+01 0 1.927942+01	HH 2 2 3 3 3 17 114 270 824
1,0000000000 1,000000000 1,00000000 1,00000000	02x7 2.107005-24 8.107005-16 2.107005-12 2.12835-04 7.444505-01 2.83835-04 2.83835-04 2.83835-05 2.838475+08 2.839475+08 2.839475+08 2.839475+08 2.839485+08	QANS 3.081662-34 3.043342-38 1.292472-26 8. 4.33601E-10 8.55271E-15 8. 1.42109E-14 1.42109E-14 1.42109E-14	ALBCDO 1.000002+00 1.000002+00 1.000002+00 1.000002+00 1.000002+00 1.000002+00 1.000002+00 1.000002+00 1.000002+00 1.000002+00 1.000002+00 1.000002+00 1.000002+00	Alt H 9, 0903 36-11 9, 0944 8-89 9, 0944 8-07 9, 0106 8-07 9, 0106 8-07 9, 07312-03 9, 07312-03 9, 07312-03 9, 05408-01 9, 05408-01 9, 050322-01 9, 050322-01	2.10700E-2 2.10700E-1 2.10700E-1 3.1070E-1 3.1070E-0 2.10037E-0 1.10070E-0 1.10070E+0 1.0140EE+0 1.0140EE+0 1.0070EE+0 1.0071EE+0	0 3.160492-20 5 3.160492-16 7 3.160492-16 8 3.150192-08 9 3.150192-08 9 3.129972-04 1 0.997072-01 0 1.619032+01 0 1.9034922+01 0 1.9270922+01 0 1.9270922+01	HH 2 3 3 17 114 275 524 1828
1.000000000 1.00000000 1.00000000 1.00000000 1.00000000 1.00000000 1.00000000 1.00000000 1.00000000 1.000000000 1.000000000 2.0000000000 2.00000000000 2.0000000000	02x7 2.107005-28 8.107005-16 8.107005-12 7.107215-06 2.128896-48 7.544685-01 2.838325+90 2.838325+90 2.838475+00 2.838475+00	0488 3.041462-34 3.044346-34 1.29247E-26 8. 4.33601E-18 3.55271E-15 8. 1.42109E-14 8.	ALREDO 1.001002+00 1.00102+00 1.00102+00 1.00102+00 1.00102+00 1.00102+00 1.00102+00 1.00102+00 1.00102+00 1.00002+00 1.00002+00	A1YH 9.8093 82-11 9.8094 82-01 9.8194 82-07 9.814 82-07 9.814 82-07 9.8573 12-01 8.954 82-01 4.82 82 82-01 4.82 82 82-01 5.82 53 82-01	2,10700E-2 2,10708E-1 3,10708E-1 3,10708E-1 3,10708E-0 9,10639E-0 1,140838E+0 1,07038E+0 1,01408E+8 1,08782E+0 1,00318E+0 9,90977E	0 3.150492-26 5 3.160492-16 5 3.160492-12 8 3.150192-08 9 3.129972-04 9 3.129972-04 9 4.619032+00 9 1.339922+61 9 1.903492+01 9 1.903492+01 9 4.745312+01 1 7.7108372+01 1 7.7108372+01	HH 2 2 3 3 3 17 114 270 824
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X 1.00000E-09	2. 583422-88	2. 543425-86	6. JA 444E-18	8.172592-11	2.343426-11		
1.00000E-04	2,953428-85	2,533422-05	8.088895-12	8., 17 28 8 E- <b>H</b>	2.553426=65	3.444546-16	1
1.000442-03	2,98345E-84 2,98646Z-83	2,54345Ľ-84 2,54644E-83	8,848792-89 8,879485-86	\$.172871-87 8.172994-99	2.94349K-6/ 2.9444K-6/		
1.00000E-02	2,919832-62	2.095812-82	7.992776-03	4.13549E-03	2,918846-8		, t
1.000046+00	3, 44969E+01	1,368182+80	¥.484355-81	2, 133462-12	R.97638E+81	E E. 13939E+88	Ť
1,000046+01	2.37698E+98	7.963842-91	6.977682-91	8,6F0F4E-41	1.292492+81		22
1,000002+82 2,900082+82	2,89430E+00 2,89437E+80	9,611496-81 9,387992-81	7.32061E-01 7.37751E-01	6.73343E-81 6.73148E-81	1,874172+6(		121 211
5. 68 88 0E+82	2.435642+10	8.28177E-61	7.494982+81	6,716R5E-81	1.022992+8	I 5400012-01	- 377
1,400000+07	2. 82222E+88	8,21487E-81	7.42161E-01	6,78468E-81	1,819988+61		1046
1.576462+83	2.818412+84	5.18473E-81 5.18373E-81	7.42873E-81 7.42897E-01	6,698776-61 6,69896E-81	1,01298E+8 1,01287E+8		1624 1693
1.60000E+0J 1.00000E+0J	2.81521E+88 2.81497E+88	8.17745E-01	7.430486-81	6.657298-61	1, 012296+0		1405
2.000000+03	2.813938+88	8.17269E-\$1	7.431578-01	6,696148-81	1.011748+01	I - 9, 10000X-01	2957
		CON, REAL PART			NARY PART=	£, 3763688888	
X	QEXT	9415 1.546765-64	ALBEDO 1.646838-14	A3YH 1.38348E-18	0PR 1.499795-81	<u>QRAK</u> 1. 7.44.477	HH
1.80408E-87 1.886880E-04	1.49979E-86 1.49979E-85	1.49979E-06 1.49979E-08	1.646438-11	1,347918-84	1.499796-0		
1,000005-03	1.499592-84	1.499892-84	1.646782-08	1,343918-86	1,499488-0	3.78486E-12	i
1.000002-02	1,505256-83	1.505225-03	1.6418FE-8F	1,343402-04	1.585252-83		<u><u><u>é</u></u></u>
1.0000000-01	2,18663E-82 2.86398E+88	2.88164E-88 1.86472E+88	1.186312~92	1,36891E-82 +3,46983E-82	2,18629E-0/ 2,91768E+0/		
1,880082+89 1,880082+81	2.289672+88	B.657512-61	7.929986-01	6.200965-51	1.219498+8		d d
1	Z. 88632E+88	4.64786E-81	7.793J2E-81	6, 381678-81	1.08171E+0	6. 040076-41	127
2.56006E+02	2,091802+40	4.42712E-81	7.642322-81	8, 2767 9K-41	1.841612+8		200
F. 68660E+82 1. 68960E+83	2,834342+88 2,822282+88	4.336232-81 4.273245-81	7.858492+81 7.886920-81	6,20119E-81 6,24929E-81	1.032112+01		537 1846
1.974846+83	8.816638+84	4.244892-81	7.8994FE-41	6, 24 J¥2E-01	1		1623
1.600002+03	2.41443E+88	4,243878-01	7.899755-81	6. 2431 0E-01	1.022502+01	6,864942-01	1693
1,888882+83	2.019202+00	4.236532-81	7.897572-81	6,24177E-81 6,24069E-81	1.821816+01 1.821286+01		1495
2.8000E+0J	Z.81418E+88	4,23169E-81	7.89917E-01			6.004948-01 	2057
		LON, REAL PART	05000000	ISS - IKAGI	MARY PART- SI		
		LON, REAL PART	05000000		MARY PART- SI		
X 1. 898975-85	0EXT 9.61943E-11	LON, REAL PART QADE 9.615472-11		189 ~ IHAG I ATYH -8, 321662-89	44RY PART= 50 498 9.61543E-11	1.008600000 	
X 1.898872-85 1.009848-84	0EXT 9.619432-11 9.622032-19	CARA REAL PART Cara 9.615472-11 9.622072-18	ALBEDO 2.77998E-18 2.77888E-07	180 ~ IMAG I ATY H -8. 321662-09 -8. 321642-07	4000 PART= 50 4000 9.61943E-11 9.62247E-11		 INI 2 3
X 1. 898892-85 1. 009882-84 1. 888982-83	06XT 9.610432-11 9.622032-19 1.02044E-06	CAN, MKAL PART GAN 9.61842-11 9.622372-19 1.829172-96	ALBEDO 2.77994E-18 2.77488E-87 2.89916E-84	ATYH -0, 32156E-09 -0, 32164E-07 -0, 32164E-07 -0, 31967E-05	QPR 9.6154JE-11 9.6223JE-11 1.6223JE-11	+.0105000000 ******************************	1000
X 1.898872-85 1.009848-84	0EXT 9.619432-11 9.622032-19	CARA REAL PART Cara 9.615472-11 9.622072-18	ALBEDO 2.77998E-18 2.77888E-07	180 ~ IMAG I ATY H -8. 321662-09 -8. 321642-07	4000 PART= 50 4000 9.61943E-11 9.62247E-11	0.000000000 00000000000000000000000000	 INI 2 3
X 1.00004E-05 1.00004E-05 1.00004E-03 1.00000E-03 1.00000E-03 1.0000E-03 1.0000E-03	0EXT 9.61843E-11 9.62203E-19 1.02844E-05 7.56974E-05 2.86974E-05 2.12407E+00	CON, REAL PART 9.615432-11 9.62437-16 1.826172-66 7.322362-67 7.312632-67 2.63232-69	ALDEDO 2.779948-18 2.779948-18 2.77882-07 2.599168-08 3.58268-02 7.97428-01 9.991038-01	ARYH -6. 321654-09 -8. 321654-09 -8. 319678-09 -6. 127428-03 -2. 49166-01 -1.7742405-01	4ARY PART= 5 (PR 0.6184JE-11 0.6284JE-11 1.82844E-10 7.89191E-07 4.30328E-04 2.49436E+81	+	100 2 3 3 4 5 6
X 1.000007-05 1.000007-05 1.000007-03 1.000007-03 1.000007-03 1.000007+01 1.000007+01	04XT 9.619432-11 9.622032-19 1.6284XE-06 7.969742-07 3.6697952-04 2.134072+00 2.659272+00	CON, REAL PART 9.615472-11 9.622032-11 1.026172-64 7.322362-07 7.312632-09 2.092032-04 1.213502-04	ALBEDO 2.77999E-18 2.77999E-18 2.59915E-02 3.58258E-02 7.97422E-01 9.99932E-01 9.99942E-01	ATYH -0.32164E-09 -0.32164E-09 -0.32164E-07 -0.12967E-05 -0.12762E-03 -2.40916E-01 -1.745E-01 4.92582E-01	MARY PART= S( 		IN 2 3 4 5 6 19
X 1.00004Z-05 1.00004Z-05 1.00004Z-05 1.00004Z-03 1.00004Z-03 1.00004Z-03 1.00004Z-03 1.00004Z+03 1.00004Z+03	04217 9.618438-11 9.622032-19 1.02044-05 7.869742-05 7.869742-04 2.124072+00 2.059724-04 2.05932+00	CON, REAL PART 9.615432-11 9.62437-16 1.826172-66 7.322362-67 7.312632-67 2.63232-69	ALDEDO 2.779948-18 2.779948-18 2.77882-07 2.599168-08 3.58268-02 7.97428-01 9.991038-01	ARYH -6. 321654-09 -8. 321654-09 -8. 319678-09 -6. 127428-03 -2. 49166-01 -1.7742405-01	MARY PART= S( 0) 61543E-11 9,61543E-11 1,82844E-00 7,89151E-07 4,3328E-04 2,49436E+00 1,06337E+00 1,08317E+00	0.0000000000 0000000000000000000000000	M 2 3 4 5 6 19 116
X 1.000007-03 1.00007-03 1.00007-03 1.00007-03 1.00007-03 1.00007-03 1.00007-03 1.00007+03 1.00007+03 1.00007+02 2.00007+02 7.00007+02	04XT 9.619432-11 9.622032-19 1.02044-06 7.969742-07 3.609792-04 2.124072+00 2.029722+00 2.029722+00 2.017912+00 2.017912+00 2.017912+00	CON, REAL PART 	ALBEDO 2.77994E-18 2.77994E-18 2.77894E-18 2.59916E-08 3.58258E-08 7.99742E-01 9.99942E-01 9.99946E-01 9.99946E-01	ATYH -6.321654-09 -8.32164E-07 -6.319678-08 -4.319678-08 -4.12762E-03 -2.40916E-01 -1.74348-01 4.02822E-01 5.02440-01 5.02426-01	MARY PART= S( 	.000000000000000000000000000000000000	IN 2 3 4 5 6 19
X 1.0000%-05 1.0000%-05 1.0000%-03 1.0000%-03 1.0000%-03 1.0000%-03 1.0000%-03 1.0000%+03 2.0000%+03 2.0000%+03 1.0000%+03 1.0000%+03	04217 9.619432-11 9.622032-19 1.028442-06 7.869742-07 3.869742-04 2.89472+00 2.89472+00 2.89532+00 2.017512+18 2.010332+00 2.01332+00 2.01332+00	QAQQ 9.615432-11 9.622032-11 1.0200172-04 7.322302-07 2.092032-09 2.092032-09 1.21302-04 1.21302-04 1.09772-04 1.094732-04 1.09472-04	ALBEDO 2.77999E-18 2.77488E-87 2.54915E-04 2.54915E-04 2.54915E-05 7.97422E-01 9.99982E-01 9.99985E-01 9.99986E-01 9.99986E-01	ATYH -0.32104E-07 -0.32104E-07 -0.32104E-07 -0.32104E-03 -2.40910E-01 -1.74340E-01 5.0282R-01 5.0282R-01 5.0282R-01 5.0282R-01 5.0282R-01	MARY PART= S( 0) 0,61643E-11 0,62844E-10 7,891912-07 4,39328E-04 2,49436E+00 1,40328E+00 1,403178+00 1,00598E+00 1,00598E+00		HH 2 3 4 5 6 19 116 271 2821
X 1,000002-05 1,000002-05 1,000002-05 1,000002-05 1,000002-05 1,000002-05 1,000002-05 1,000002+05 2,000002+05 9,000002+05 1,000002+05 1,000002+05 1,000002+05 1,000002+05	02XT 9.619432-11 9.62232-19 1.8244E-86 7.96974E-07 2.86974E-07 2.86972E-00 2.85977E-06 2.81932E+00 2.010332E+00 2.010332E+0 2.010332E+0 2.00514E+0	CON, REAL PART QACE Q.615432-11 4.622032-16 1.020172-04 7.3125362-07 7.312632-04 1.213602-04 1.213602-04 1.097202-04 1.09772-04 1.09772-04 1.09772-04 1.09772-04 1.09772-04	ALBEDO 2.779982-10 2.779982-07 2.779982-07 2.7682-07 7.9791225-01 9.999165-01 9.999452-01 9.999452-01 9.999452-01 9.999452-01	ARYH -6.321654-09 -8.32164E-09 -8.31967E-08 -6.21967E-08 -6.12782E-03 -2.40916E-01 -1.74346E-01 4.92522E-01 5.02325E-01 5.01925E-01 5.01925E-01	MARY PART= S: GPR 0.61943E-11 1.02044E-00 7.8914E-07 2.4944E-00 1.02044E-00 1.0038E-04 1.0037E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00		IMI 2 3 4 5 5 19 115 871 1831 1886
X 1.0000%-05 1.0000%-05 1.0000%-03 1.0000%-03 1.0000%-03 1.0000%-03 1.0000%-03 1.0000%+03 2.0000%+03 2.0000%+03 1.0000%+03 1.0000%+03	04XT 9.619432-11 9.622032-19 1.028442-06 7.869742-07 3.869742-04 2.89472+00 2.89472+00 2.89532+00 2.017512+19 2.01332+00 2.01332+00 2.01332+00	QAQQ 9.615432-11 9.622032-11 1.820172-04 7.322382-07 7.312432-05 2.052032-05 1.21362-04 1.21362-04 1.05772-04 1.05772-04 1.054772-04	ALBEDO 2.77999E-18 2.77488E-87 2.54915E-04 2.54915E-04 2.54915E-05 7.97422E-01 9.99982E-01 9.99985E-01 9.99986E-01 9.99986E-01	ATYH -0.32104E-07 -0.32104E-07 -0.32104E-07 -0.32104E-03 -2.40910E-01 -1.74340E-01 5.0282R-01 5.0282R-01 5.0282R-01 5.0282R-01 5.0282R-01	MARY PART= S( 0) 0,61643E-11 0,62844E-10 7,891912-07 4,39328E-04 2,49436E+00 1,40328E+00 1,403178+00 1,00598E+00 1,00598E+00		HH 2 3 4 5 6 19 116 271 2821
X 1,000002-05 1,000002-05 1,000002-05 1,000002-05 1,000002-05 1,000002-05 1,000002+05 1,000002+05 7,000002+05 1,000002+05 1,000002+03 1,000002+03 1,000002+03 2,000002+03	02XT 9.619432-11 9.62232-19 1.8244E-86 7.96974E-07 2.86974E-07 2.86974E-07 2.8597E+80 2.81937E+80 2.81937E+80 2.81933E+80 2.91333E+80 2.91333E+80 2.90714E+80 2.90714E+80 2.90714E+80 2.90744E+80 2.90744E+80	CON, REAL PART QACE Q.615432-11 4.622032-16 1.020172-04 7.3122302-07 7.3125302-07 7.312632-07 2.092032-04 1.09772-04 1.09772-04 1.09772-04 1.093472-04 1.093472-04 1.092082-04 1.092082-04 1.092082-04	ALBEDO 2.779982-10 2.779982-10 2.778982-07 2.599165-04 3.552582-02 7.974225-01 9.999452-01 9.999452-01 9.999452-01 9.999452-01 9.999452-01 9.999452-01 9.999452-01	ARYH -6.321654-09 -8.321654-09 -8.321654-09 -6.319672-05 -6.127828-03 -2.409162-01 4.925224-01 5.023242-01 5.02324-01 5.01728-01 5.01738-01 5.01738-01 5.01658-01 5.01658-01	MARY PART= S: (PR 0.61943E-11 1.02944E-00 7.8919E-11 1.02944E-01 1.02944E-01 1.02944E-01 1.0432E-04 1.0432E+00 1.04317E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.0057E+00 1.00		HH 2 3 4 9 19 114 271 1031 1036 1036 1036 1036 2038
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