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A Spectral Atlas of the v_{12} Fundamental of ${}^{13}C^{12}CH_6$ in the 12µm Region

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Abstract

The recent discovery of the minor isotopomer of ethane, ${}^{13}C^{12}CH_6$, in the planetary atmospheres of Jupiter and Neptune, added ethane to the molecules which can be used to determine isotopic ¹²C/¹²C ratios for the jovian planets. The increased spectral resolution and coverage of the IR and far-IR instruments to be carried on the Cassini mission to Saturn and Titan may enable the detection of the minor isotopomer. Accurate frequency and cross-section measurements of the ν_{12} fundamental under controlled laboratory condition are important to interpret current and future planetary spectra. High resolution spectra of the minor isotopomer ${}^{13}C^{12}CH_6$ have been recorded in the 12.2 μ m region using the Kitt Peak Fourier Transform (FTS) and the Goddard Tunable Diode Laser spectrometer (TDL). In a global fit to 19 molecular constants in a symmetric top Hamiltonian, transition frequencies of the ν_{12} fundamental ranging up to J = 35 and K = 20 have been determined with a standard deviation of less than 0.0005 cm^{-1} . From selected line intensity measurements, a vibrational dipole moment for the ν_{12} fundamental has been derived. Observed and calculated spectra covering the region from 740cm^{-1} to 910cm^{-1} are presented. A compilation of transition frequencies, line intensities, and lower state energies are included for general use in the astronomical community.

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Introduction

The current spectroscopic study of the minor isotopomer ${}^{13}C^{12}CH_6$ is motivated by its recent discovery as a constituent in the atmosphere of Jupiter by Wiedemann *et al.(1)*. Employing a cryogenic echelle array spectrometer, Orton *et al.(2)* identified traces of ${}^{13}C_-$ ethane in Neptune's atmosphere. In both cases a near-terrestrial isotopic ${}^{12}C/{}^{13}C$ ratio has been found(1,2). Laboratory measurements of frequencies and intensities are important for future identification and atmospheric modeling of ${}^{13}C^{12}CH_6$ in the outer planetary atmospheres using for instance high resolution heterodyne remote sensing.

Regular ethane and its deuterated species have been studied in some detail in the mid- and far-infrared (3-9). The minor isotopomer ${}^{13}C^{12}CH_6$ has been investigated in the 2700 cm⁻¹ region of the $\nu_3 + \nu_4$ overtone (equivalent to $\nu_2 + \nu_6$ in normal ethane) by Lafferty *et al.(10)*. More recently, in studies of the 12μ m region Kurtz *et al.(11)* obtained the ratio of the integrated intensity of the ${}^{r}Q_{o}$ -branch of the ν_{12} band of ${}^{13}C^{12}CH_6$ with respect to the equivalent ν_9 band of normal ethane. These studies were based on high resolution (0.0025 cm⁻¹) data recorded with the 1 m McMath FTS instrument at the National Solar Observatory in Kitt Peak, Arizona. The same laboratory data have been analyzed to assign rotation-torsional transitions in the ν_{12} fundamental and to determine ground state rotational constants from lower state combination differences (12).

More recently, the analysis has been extended to determine upper state constants for the ν_{12} fundamental of the minor isotopomer and to derive barriers to internal rotation in the ground and vibrational excited state (13). In this publication, a complete line by line compilation of calculated frequencies, lower state energies, and line strengths are published. From the molecular parameters a spectral atlas has been produced covering the region from 740 to 910 cm⁻¹.

Experimental Details

Several spectra at room and typical planetary temperatures (101K and 161K) were recorded using the 1-m Fourier transform spectrometer at the Kitt Peak National Solar Observatory(11,12). This instrument was operated in a double-pass configuration yielding a spectral resolution of 0.0025 cm⁻¹(14). The ¹³C¹²CH₆ sample was provided in a 99% purified form by Matheson Co. No traces of the major isotopomer have been found in the unapodized FTS spectra. Calibration to absolute wavenumbers was done using wellisolated P- and R-branch lines of the ν_2^{1e} and $2\nu_2^{0e}$ band of N₂O at 580 cm⁻¹ and 1168 cm,⁻¹ respectively(12).

Details of the tunable diode laser system at NASA Goddard Space Flight Center can be found in Ref. (15). Several Q-branches ranging from $K\Delta K = -6$ to 6 were measured to obtain complementary information on observed torsional splittings (13). These spectra were recorded with gas pressures of p = 1.5 Torr and an absorption cell length of $\ell = 30$ cm. Relative wavenumber calibrations were obtained using a 3 inch solid Ge-etalon (0.01623 cm⁻¹ fringe spacing). A total of 68 splittings from the diode laser observations (Table II)

Table I. Molecular constants of ${}^{13}C^{12}CH_6$ in cm^{-1} . C_{σ} is the torsional Coriolis interaction parameter connecting the $v_{12} = 1$ state with the $v_6 = 3$ state. σ_F is the weighted standard deviation of the overall fit. 2307 transitions and torsional splitting values survived the fit. For convenience parameters are also given in Hz.

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ν_o	820.931 394(42)	
R	0.640.764.0(01)	10 470 46(97) MHa
	0.043 104 3(31)	19 + 19 + 19 + 10(21) MHz
A ₀ DJ	2.000 021	00 000.2 MHZ
	$0.99385(67) \times 10^{-6}$	29.795(20) KHZ
D_0^{JK}	$2.608 8(87) \times 10^{-6}$	78.08(21) kHz
D_o^R	9.54×10 ⁻⁶ ††	286^{\dagger} kHz
α^B_{12}	$1.296 \ 18(50) \times 10^{-3}$	38.858(15) MHz
α_{12}^{A}	$-7.796 \ 4(11) \times 10^{-3}$	-233,730(33) MHz
β_{12}^{J}	$3.07(10) \times 10^{-9}$	92.0(39) Hz
β_{JK}^{IZ}	$-2.063(81) \times 10^{-8}$	-618(24) Hz
β_{K}^{K}	$-1.868(20) \times 10^{-7}$	-5600(60) Hz
P12	1.000(20)//10	
$(A\zeta)_{12}^z$	0.696 191(18)	20 871.28(54) MHz
η_{12}^{J}	$-2.024(21) \times 10^{-6}$	-60.68(63) kHz
η_{12}^K	$2.3911(30) \times 10^{-5}$	716.83(90) kHz
a ⁰	-1 796 70(83)×10−3	51 765(95) MHz
q_{12}	$1.120 \ 10(30) \times 10^{-9}$	272(26) H ₇
412	3.01(00)×10	212(20) 112
$V_{6}^{(0)}$	1026.888(79)	30 785.3(24) GHz
$V_{\epsilon}^{(12)}$	1088.61(77)	32 635(24) GHz
$\tilde{F_{1J}}$	$-1.542(12) \times 10^{-2}$	-462.3(36) MHz
F_{1K}	$-0.947(11) \times 10^{-2}$	–283.9(33) MHz
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C_{σ}	$3.651 \ 0(28) \times 10^{-2}$	1094.54(84) MHz
σ_F	5.5×10^{-4}	16MHz
data	2307/	2447

† Moazzen-Ahmadi et al. (9) †† Duncan et al. (16) were added to the FTS data in the global fit to determine molecular constants for ν_{12} .

Global Least Squares Fit

An iterative bi-weighted non-linear least squares fit of the upper and lower state energies has been carried out simultaneously. The upper state Hamiltonian included off-diagonal ℓ -resonance terms within the $v_{12} = 1$ state and off-diagonal torsional Coriolis interaction terms connecting with the excited torsional state of $v_6 = 3$. The results of the global fit are summarized in Table I (13). A more detailed account of the fitting procedure and the Hamiltonian used can be found in Ref. (13).

Of the 21 parameters employed in the upper and lower state Hamiltonian, the rotational constants A_o and D_o^K have been fixed to 2.66852 cm⁻¹(9) and 9.54×10^{-6} cm⁻¹(16), respectively. The rotation-torsional constants F_{1J} and F_{1K} in the $v_{12} = 1$ state were fixed to the ground state value. Observed torsional splittings recorded with the TDL spectrometer have been weighted by an extra factor of 4 corresponding to the enhancement in spectral resolution over the FTS data.

The intrinsic and unperturbed torsional splitting between the components of the torsional doublets as calculated from the upper and lower state barriers is 1.53×10^{-3} cm,⁻¹ which is not resolved in the current FTS data. For K = 3n transitions with relative intensities of 2:1, both peaks of the doublets can be measured from the FTS data if they are separated by more than about 4.5×10^{-3} cm⁻¹ and for $K \neq 3n$ (4:1 relative intensities) by more than 7.0×10^{-3} cm.⁻¹ Therefore, most torsional doublets could not be resolved, except near the crossing region which occurs at $K\Delta K = -18$. Most transition frequencies, particularly in the R-branches ($\Delta K = 1$) and as J approaches K, represent rather an average of the doublets. In order to avoid "frequency pulling" (5), transition frequencies of the K = 3n series have been calculated using a weighted average of the two calculated frequencies of the doublets. The weights were chosen according to their statistical weights. Simulated spectra showed that such a weighting scheme yields a good approximation. In cases where one of the components of the doublets is rather weak, the average of the frequencies tends to be closer to the frequency of the strong component and therefore observed frequencies of unresolved $K \neq 3n$ torsional doublets (with 4:1 relative intensity ratio) have been assigned to the stronger component of the doublet.

Intensity Analysis

Forty-two individual lines of the ν_{12} band observed with the FTS have been measured to retrieve their intensities. Only those lines whose torsional components were sufficiently separated (mostly ${}^{p}P_{K}(J)$ lines) permitting a measurement of both components were included in the analysis. Since the intensity retrieval is constrained to a limited region, no attempts were made to determine the F-factors. Some of the very weak intensities have been discarded if their peak strength was below 10%. The lines were fitted to a convolution ŧ

ΔK	ΔJ	K	J	Δ_{obs} o-c [cm ⁻¹]	ΔK	ΔJ	K	J	Δ_{obs} o-c [cm ⁻¹]
-1	0	6	12	0.00532 0.00029	-1	0	2	17	0.00654 0.00028
-1	0	6	13	0.00607 0.00035	-1	0	2	18	0.00751 0.00076
-1	0	6	14	0.00674 0.00030	-1	0	2	19	0.00696 -0.00029
-1	0	6	15	0.00750 0.00030	1	0	1	10	0.00283 0.00046
-1	0	6	16	0.00848 0.00049	1	0	2	9	0.00263 0.00013
-1	0	6	17	0.00915 0.00033	1	0	2	10	0.00309 0.00036
-1	0	6	18	0.00991 0.00024	1	0	2	11	0.00341 0.00042
-1	0	6	19	0.01049 -0.00006	1	0	2	12	0.00371 0.00044
-1	0	4	17	0.00852 0.00107	1	0	3	12	0.00240 -0.00007
-1	0	4	18	0.00828 0.00018	1	0	3	13	0.00286 0.00022
-1	0	4	19	0.00893 0.00016	1	0	3	14	0.00295 0.00013
-1	0	4	20	0.00971 0.00026	1	0	3	15	0.00281 -0.00021
-1	0	4	21	0.01023 0.00007	1	0	3	16	0.00311 -0.00011
-1	0	4	22	0.01101 0.00014	1	0	3	17	0.00334 -0.00010
-1	0	3	10	0.00247 -0.00015	1	0	3	18	0.00379 0.00012
-1	0	3	11	0.00295 0.00011	1	0	3	19	0.00368 -0.00024
-1	Ö	3	12	0.00320 0.00012	1	0	3	21	0.00415 -0.00029
-1	0	3	13	0.00354 0.00020	1	0	3	22	0.00457 -0.00015
-1	0	3	14	0.00359 -0.00002	1	0	5	16	$0.00300 \ 0.00011$
-1	0	3	15	0.00412 0.00023	1	0	5	17	0.00325 0.00018
-1	0	3	17	0.00398 -0.00051	1	0	5	18	0.00320 -0.00007
-1	0	3	18	0.00457 -0.00025	1	0	5	19	$0.00361 \ 0.00013$
-1	0	3	19	0.00517 0.00002	1	0	5	20	0.00351 -0.00019
-1	0	3	20	0.00512 -0.00036	1	0	5	21	0.00357 -0.00035
-1	0	3	21	0.00540 -0.00043	1	0	6	10	$0.00240 \ 0.00031$
-1	0	3	22	0.00577 -0.00042	1	0	6	11	0.00275 0.00048
-1	0	3	23	0.00584 -0.00071	1	0	6	12	0.00287 0.00040
-1	Õ	3	24	0.00595 -0.00096	1	0	6	13	0.00312 0.00044
1	Õ	3	25	0.00651 -0.00077	1	0	6	14	0.00353 0.00063
-1	Õ	2	12	0.00427 0.00021	1	0	6	15	0.00364 0.00050
-1	Ő	2	13	0.00488 0.00042	1	0	6	16	0.00393 0.00053
1.1	Ō	$\frac{-}{2}$	14	0.00538 0.00050	1	0	6	18	0.00441 0.00046
	Ő	$\overline{2}$	15	0.00562 0.00029	1	0	6	19	0.00468 0.00043
	n N	2	16	0.00601 0.00022	1	0	6	20	0.00506 0.00050

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Table II. Torsional Splittings Δ_{obs} measured with the TDL for the ν_{12} fundamental of ${}^{13}C^{12}CH_6$.

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J	ΔJ	K	ΔK	σ	$rac{ u_i}{\left[ext{cm}^{-1} ight]}$ [$S_i imes 10^3 \ { m cm}^{-2} { m atm}^{-1}$	(o-c)/o '} %	Wi
24	-1	8	-1	2	769.1331	3.664	-4.1	1.01(
22	-1	9	-1	3	769.3221	4.289	-3.7	1.006
18	-1	11	-1	1	769.7383	5.201	-3.1	1.00
24	-1	6	-1	0	774.1979	4.520	0.8	1.010
22	-1	7	-1	1	774.3451	5.187	-3.8	1.010
20	-1	8	-1	2	774.5033	5.901	-5.5	1.00
18	-1	9	-1	3	774.6752	7.217	3.8	1.003
18	-1	9	-1	1	774.6813	3.808	9.0	1.00
16	-1	10	-1	2	774.8591	7.580	1.4	1.00
15	-1	8	-1	2	781.1717	9.667	-2.5	1.00
19	-1	4	-1	2	786.0276	8.304	1.0	1.01'
$\frac{1}{22}$	-1	2	-1	2	787.1992	6.327	3.5	1.06
18	-1	4	-1	2	787.3652	8.625	-3.6	1.01
21	-1	2	-1	2	788.5452	6.427	-4.6	1.056
17	-1	4	-1	2	788.7006	9.790	1.5	1.01
18	0	2	-1	2	815.8488	14.295	2.5	0.944
18	Õ	$\overline{2}$	-1	0	815.8856	3.517	1.0	0.94
R	$R_v^2 = 7.4$	5(29)	$\times 10^{-4}$	(Deb	$(ye)^2$			
S	band =	$\sum_i S_i$	= 15.93	8(62)	$\mathrm{cm}^{-2}\mathrm{atm}^{-1}$	@294K		

Table III. Measured Line Intensities of the ν_{12} band (822 cm⁻¹) of ${}^{13}C^{12}CH_6$ at 294K.

of a Doppler spectrum in absorption with an appropriate FTS instrument function whose amplitude modulation function of the interferogram is a cosine truncated by the length of the mirror scan(17).

The retrieved intensities (Table III) were subjected to a least squares fit to the usual equation

$$S_i = \frac{8\pi^3}{3hc} \frac{L_o T_o}{T p_o} \gamma_a g_{JK} \frac{\exp(-E_{vrt}'/kT)}{Q_v Q_r Q_t} \left[1 - \exp\left(-\frac{hc\nu_i}{kT}\right) \right] L_r R_v^2 W_i, \tag{1}$$

where S_i is the line intensity in units of cm⁻²atm;⁻¹ h Planck's constant; k the Boltzmann

constant; c the speed of light; L_o Loschmidt's number at standard temperature $T_o=273.15$ K and pressure $p_o=1$ atm; T the ambient temperature; E''_{vrt} the lower state energy, and Q_v , Q_r , and Q_t are the vibrational, rotational, and torsional partition function, respectively. γ_a is the isotopic abundance of the species which equals 1 for a purified sample.

The last three terms in Eq. (1) represent the effective square dipole moment, where R_v^2 is the square vibrational transition moment and L_r the Hönl-London factor(18). The perturbation factor W_i is a correction factor to the rigid-rotor intensity caused by combined ℓ -resonance within the $v_{12} = 1$ state and the torsional Coriolis interaction between $v_{12} = 1$ and $v_6 = 3$. These factors have been calculated by transforming the rotational transition moment matrix using the unitary eigenvector matrix which also diagonalizes the upper state Hamiltonian. Values for W_i are obtained after squaring and normalizing to the square rotational transition moment L_r in the unperturbed limit. Due to the mixing effects, ${}^{p}P$, ${}^{r}Q$, and ${}^{p}R$ type transitions are enhanced in their intensities, while ${}^{r}P$, ${}^{p}Q$, and ${}^{r}R$ transitions are depleted.

The partition functions at T=294 K were calculated to be: $Q_r = 18,613$, $Q_v = 1.058$, and $Q_t=4.063$. The fitted square vibrational dipole moment was $R_v^2 = 7.45(29) \times 10^{-4}$ D², which is about 11% less than the value derived from the major isotopomer(5). This result is also in agreement with earlier analysis of the integrated strength of the ${}^{r}Q_o$ branch(11).

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The Line Atlas

In Appendix A calculated line parameters for transitions of the ν_{12} fundamental are listed. The line parameters for each transition are the rotational quantum numbers $J, K, \Delta K$, and ΔJ and the torsional quantum number σ , calculated frequency ν_i in cm⁻¹, observed minus calculated frequency (o-c) given in the last digits, lower state (ground state) energy E_i in cm⁻¹, line intensity in cm⁻²atm⁻¹@296K, and the perturbation factor W_i . Line parameters have been calculated up to K = 20 and J = 35. The intensities have been converted from 294 K to the standard temperature T = 296 K using the exact expression in Eq. (1). For general conversion to other temperatures, for instance planetary temperatures, values for the torsional partition function have been calculated in the range of 100 K to 400 K using a ground state torsional barrier height of 1026.88cm⁻¹ (Table IV).

The observed FTS spectrum of ${}^{13}C^{12}CH_6$ is shown in Appendix B. The experimental conditions were p = 1.05 Torr, $\ell = 150$ cm, and T = 294 K. Below the observed spectrum in each panel the calculated spectrum under the same experimental condition is shown in two ways, first on a scale from 0% to 100% transmission and, secondly, from 90% to 100% transmission. The calculated Doppler spectra has been properly convolved with an appropriate instrumental profile as outlined as follows.

The approximate FTS apparatus function in interferogram space due to the aperture

T	Q_t	T	Q_t	T	Q_t
[K]		[K]		[K]	
100	3.049	200	3.456	300	4.105
110	3.072	210	3.513	310	4.178
120	3.100	220	3.572	320	4.251
130	3.132	230	3.633	330	4.326
140	3.168	240	3.696	340	4.401
150	3.209	250	3.761	350	4.477
160	3.252	260	3.827	360	4.553
170	3.299	270	3.895	370	4.631
180	3.349	280	3.964	380	4.709
190	3.401	290	4.034	390	4.787
		296	4.077	400	4.866

Table IV. The torsional partition function Q_t as a function of temperature T.

effect can be written as (17)

$$A(\delta) = \cos\left(b\frac{\delta}{L}\right); \qquad |\delta| \le L, \qquad (2)$$

where δ is the optical path difference in the two arms of the interferometer and L the maximum optical path difference. The form of Eq. (2) introduces a self-apodization in the observed spectra. The Fourier transform of $A(\delta)$ is then given by

$$A(\nu) = L \left\{ \frac{\sin(2\pi\nu L + b)}{2\pi\nu L + b} + \frac{\sin(2\pi\nu L - b)}{2\pi\nu L - b} \right\}$$

= $L \left\{ \operatorname{sinc}(2\pi\nu L + b) + \operatorname{sinc}(2\pi\nu L - b) \right\}$ (3)

The parameters used were L = 173 cm and b = 0.818 as determined from a least squares fit of the line profiles. This apparatus function was convolved with a calculated Doppler spectrum to simulate the observed FTS spectra, i.e. the normalized transmission τ at frequency ν is

$$\tau(\nu) = \int_{-\infty}^{\infty} d\nu' A(\nu' - \nu) \exp\left(-\sum_{i} S_{i} f(\nu' - \nu_{i})x\right)$$
(4)

 S_i is the line strength of the transition at frequency ν_i , $x = p\ell$ the optical density, and $f(\nu - \nu_i)$, the unit area line profile, here a Doppler profile. The convolution integral has been calculated by numerical summation with proper truncation to a finite sum of

intensities, the apparatus function, and line shapes in the far wing.

The spectra shown in Appendix B extends from 740cm^{-1} to 910cm^{-1} . The top spectrum shows the observed FTS spectrum, the middle and bottom trace the calculated spectrum in different scales. Observed lines which do not appear in the calculated spectra belong either to the $\nu_6 + \nu_{12} \leftarrow \nu_6$ vibration-torsional hotband, which is equivalent to the $\nu_4 + \nu_9 \leftarrow \nu_4$ band of normal ethane, or are outside the range of calculated quantum numbers.

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Appendix A

Table of Calculated ν_{12} Transitions of ${}^{13}C{}^{12}CH_6$

Legend:

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K, J	Lower state rotational quantum number, i.e. $K,'' J''$
$\Delta K, \Delta J$	Difference in rotational quantum number of upper and lower state, i.e. $\Delta K =$
	$K' - K, \Delta J = J' - J.$ The ℓ quantum number of the upper state can be
	deduced from the selction rules $\Delta K = \Delta \ell$
σ	Torsional quantum number with selection rule $\Delta \sigma = 0$
ν_i	Calculated transition frequency in cm^{-1}
OC	Observed minus calculated frequency in the last five digits. Transitions
	marked with an asterisk $(*)$ were excluded from the global fit
E_i''	Lower state energy in cm^{-1}
S_i	Line intensity in $cm^{-2}atm^{-1}@296K$
W_i	Intensity perturbation factor (dimensionless)

W.	.686	.984	.982	1.000	1.004	1.001	1.002	1.001	966.	1.006	.611	.987	.980	1.000	1.004	1.001	1.002	1.008	1.006	1.001	966.	1.005	.574	066.	978.	1.000	.524	1.003	1.000	1.001	1.007	1.005	1.001	966.	1.004	.993	226.	.669
S;	.8415E-04	.3256E-04	.2933E-04	.1324E-03	.3419E-04	.1364E-03	.7463E-04	.3910E-04	.1556E-03	.1485E-03	.9111E-04	.3882E-04	.3618E-04	.1573E-03	.4178E-04	.1666E-03	.9015E-04	.1573E-03	.7852E-04	.4671E-04	.1859E-03	.1823E-03	.1239E-03	.4600E-04	.4436E-04	.1859E-03	.9440E-04	.5068E-04	.2021E-03	.1081E-03	.1942E-03	.9690E-04	.5546E-04	.2208E-03	.2224E-03	.5421E-04	.5411E-04	.1723E-03
E_i''	1335.740	1330.829	1330.783	1330.835	1308.032	1308.026	1294.421	1289.966	1289.960	1285.605	1294.415	1294.654	1285.599	1294.660	1265.418	1265.412	1254.380	1268.476	1268.470	1252.499	1252.494	1241.703	1215.617	1259.765	1241.697	1259.771	1254.374	1224.087	1224.081	1215.623	1223.287	1223.281	1216.319	1216.313	1199.083	1226.163	1199.078	1178.145
<i>ν</i> ; Ο-C	734.86935	734.94903	734.98272	735.05869	735.20315	735.24321	735.59729	735.99043	736.03544	736.18927	736.30297	736.31319	736.34056	736.40328	736.55842	736.59656	736.94828	737.18027	737.21353	737.33788	737.37945	737.54661	737.57513	737.67360	737.69654	737.74624	737.75537	737.91213	737.94825	738.29769	738.54024	738.57214	738.68372	738.72165	738.90237	739.03056	739.05062	739.08565
ь	0	0	0	2	ŝ	-	2	ŝ		3	0	0	0	3	co		0	¢		ŝ	-	2	0	0	0	57	0	3	1	3	ŝ		e	1	2	0	0	0
ſ	32	28	35	28	33	33	31	29	29	34	31	27	34	27	32	32	30	35	35	28	28	33	29	26	33	26	30	31	31	29	34	34	27	27	32	25	32	28
K	18	20	16	20	17	17	18	19	19	16	18	20	16	20	17	17	18	12	15	19	19	16	18	8	16	20	18	17	17	18	15	15	19	10	16	20	16	8
2	7	7	7	7	7	-	-	7	-	-1	7	7	٦	7	7	۲	7	-		, ,	-	7	7	-		7	7	7	-1	7	-	-	7	-	-	7	T.	7
ΔK Z	1	-	7	7			-			-	7	-1-	7	-1	7										-1		-1			7	7		7	7	-	-	7	-
W.	.910	1.002	.930	1.002	1.003	966.	.945	1.002	1.003	266.	.957	1.001	1.004	1.003	766.	.830	.967	1.001	1.004	1.002	966.	.793	974	1.001	1.005	1.002	1.003	1.002	966.	.746	679.	1.000	1.005	1.002	1.003	1.001	966.	1.006
S.	.7592E-05	.3346E-04	.9622E-05	.4149E-04	.1187E-04	.4725E-04	.1205E-04	.5113E-04	.1471E-04	.5849E-04	.1495E-04	.6256E-04	.3302E-04	.1811E-04	.7203E-04	.5463E-04	.1839E-04	.7616E-04	.4088E-04	.2215E-04	.8807E-04	.6463E-04	.2241E-04	.9215E-04	.2250E-04	.8972E-04	.5026E-04	.2694E-04	.1071E-03	.7482E-04	.2709E-04	.1107E-03	.2783E-04	.1110E-03	.6146E-04	.3254E-04	.1295E-03	.1202E-03
E''	1620.005	1620.011	1574.847	1574.853	1541.721	1541.715	1530.971	1530.977	1496.556	1496.550	1488.376	1488.382	1467.415	1452.673	1452.667	1467.409	1447.064	1447.070	1422.244	1410.071	1410.065	1422.238	1407.035	1407.040	1397.106	1397.100	1378.354	1368.752	1368.746	1378.348	1368.290	1368.295	1351.928	1351.922	1335.746	1328.717	1328.711	1330.789
0_C																																						
ž	725.23929	725.60270	726.65151	726.95814	727.87297	727.93442	728.05260	728.31208	729.22970	729.28888	729.44467	729.66451	730.17769	730.58492	730.64165	730.64483	730.82931	731.01540	731.53490	731.93862	731.99272	732.04362	732.20769	732.36474	732.48795	732.53162	732.89058	733.29078	733.34205	733.45078	733.58070	733.71251	733.84632	733.88823	734.24471	734.64139	734.68963	734.83037
ь	0	2	0	2	ŝ	1	0	3	ŝ		0	2	2	ი	1	0	0	3	3	ო	1	0	0	3	ę	1	7	ი	1	0	0	2	ŝ		2	ŝ	1	~
r	35	35	34	34	35	35	33	33	34	34	32	32	35	33	33	35	31	31	34	32	32	34	30	30	. 35	. 35	33	31	31	33) 29) 29	34	34	32	30	30	35
K	20	20	20	20	19	19	20	20	19	19	20	20	18	19	19	18	20	20	18	19	19	18	20	20	17	17	18	19	19	18	20	20	17	17	18	19	19	16
2	-	-	, ,	7	7	-	7	-		ŗ	••••• 1	-	-1	7	7	7	-1	7	-1	-1	-	.	-	-	7	-	7	-		-	-	-		7	-1	7	-	7
Δ <i>K</i>	-		-	-	7		-1	-1	-1	-1			7	 -	7		7	-	- 1	1	-1	-1		7	י	٦	7	7	-	-1			-	-			7	-

1.000997 1.003 966 .971 1.000 1.001 1.009 <u>999</u> .874 1.007 1.000 .998 1.004 1.003 1.000 766. 1.002 1.013 .010 666. 1.000 999 1.008 .913 .0021.012 970. L001 1.009 1.006 000.1 .998 1.004 1.002 1.000 966. W 8955E-04 3571E-03 3894E-03 8536E-04 9427E-04 3421E-03 1035E-03 7809E-04 3120E-03 4130E-03 3694E-03 3713E-03 2114E-03 9201E-04 4233E-03 2114E-03 1039E-03 4143E-03 4634E-03 1561E-03 3114E-03 3930E-03 1122E-03 [219E-03 9558E-04 4865E-03 5067E-03 2529E-03 1922E-03 9816E-04 3820E-03 4497E-03 4492E-03 2463E-03 [114E-03 1198E-03 1784E-03 5485E-03 Ś 1110.655 1071.603 133.083 1071.609 078.420 1036.704 037.079 1054.722 1110.661 078.927 078.921 133.088 073.452 055.355 055.349 084.465 084.459 041.445 105.565 105.559 104.633 104.639 073.447 078.426 041.439 066.744 036.699 066.738 041.122 037.073 016.583 054.716 005.249 1115.497115.491 041.127 016.577 060.361 Ë j 743.08303 742.73715 743.33814 743.71487 743.96422 744.05062 744.42419 744.65645 44.67119 744.68132 744.83432 745.02019 745.38815 742.71140 742.96001 743.10162 743.31087 743.31123 743.33658 743.43093 743.99024 744.30930 744.36757 744.42824 744.43626 744.44663 44.69544 745.06777 745.31614 745.34060 745.40478 45.72978 743.10081 743.63731 743.67901 744.07191 744.99301 45.65691 Š, 0 7 3 0 3 3 3 2 60 2 3 0 ь 24 24 $32 \\ 25$ 32 23 30 24 29 34 22 23 34 31 10 61 16 20 16 20 13 17 8 19 17 13 18 14 14 2 5 19 12 12 17 8 88 13 13 14 8 4 പ്പ ŝ 6 6 12 × 7 ١, -7 7 7 5 Ą ΔK 7 **~** 7 7 1.003 000.1 000.1 .975 .001 .006 L.005 000 966. 1.004 .995 1.000 .753 1.002 1.000 L.000 .003 .973 L.000 1.002 1.010 <u>8</u>00 100.1 1.008 1.001 000.1 ..006 .004 966 966. L.011 999 .822 1.007 999 .005 1.003 1.001 2440E-03 2017E-03 5003E-04 2184E-03 6117E-04 1290E-03 2381E-03 1189E-03 6540E-04 2606E-03 2698E-03 6344E-04 6551E-04 2551E-03 7330E-04 2926E-03 2487E-03 6169E-04 2301E-03 1531E-03 2904E-03 7675E-04 3058E-03 3250E-03 7883E-04 2962E-03 8739E-04 2533E-03 3047E-03 1805E-03 1449E-03 7376E-04 6339E-04 3485E-03 2963E-03 7557E-04 3517E-03 1755E-03 Ś 184.034 178.151 226.169 184.040 210.163 210.157 179.379 179.373 181.424 181.419 157.747 193.848 193.854 141.959 145.278 145.272 164.968 141.964 164.962 .136.754 136.748 147.817 117.695 117.689 157.741 147.811 107.800 155.855 107.059 121.055 121.050 095.412 162.827 107.794 107.065 162.821 155.861 095.407 È č 739.64548 739.29827 739.56047 739.64535 739.92914 740.56193 740.61475 741.25545 741.37049 739.08758 739.26424 739.89865 740.02793 740.06200 740.25653 740.38433 740.40273 740.42726 740.64660 740.92102 740.99164 741.00364 741.28450 741.60909 741.73510 741.75282 741.76528 142.33616 42.61065 741.94964 741.96363 741.97607 741.99323 742.00853 742.27997 742.36015 742.63820 741.40051 3 5 - 2 0 **N M** ь 25 30 24 31 5 33 31 14 14 18 15 15 19 19 20 16 20 18 17 11 14 14 15 19 19 16 20 1612 20 13 17 13 18 14 18 15 17 4 15 \approx 1 7 -7 2 -----7 7 7 ΔK 7 7 7 7 -----7 -**—** 7 ~ -5 Ξ. 1 7 7 7

1.018 1.012 1.001.963 1.006 1.005 .986 1.000 1.003 .996 1.016 L.002 .001 1.012 1.013 .964 1.009 1.005 1.000 .999 .996 1.019 1.000 1.000 1.013 1.001 .000 1.017 1.002 .006 .976 1.004 1.001 W. 1717E-03 1013E-02 4295E-03 5481E-03 1368E-03 9767E-03 4879E-03 6869E-03 2438E-03 6867E-03 2210E-03 2015E-03 8054E-03 9047E-03 2246E-03 1782E-03 7126E-03 1415E-03 5659E-03 8768E-03 2111E-03 3447E-03 8832E-03 8470E-03 3769E-03 7667E-03 1902E-03 4462E-03 1113E-03 8361E-03 4176E-03 1689E-03 6749E-03 7356E-03 5688E-03 1921E-03 7675E-03 1818E-03 ŝ 884.538 971.806 874.356 874.350 927.509927.503 873.339 873.334 904.379 920.749 907.982 926.706 973.224 970.146 904.384 932.445 909.965 903.905 924.711 884.544 909.959 903.911 924.717 971.801 939.711 970.152 932.439 973.794 951.880 017.019 017.013 951.885 920.743 973.230 936.712939.717 942.692 942.686 Ē -115 23 14 20 -19 -127 109 78 -23 -50 -56 -116 48 44 4 ଛ œ 4 17 -14 -55 -78 18 48 51 -23 62 1 Ï 750.89920 750.88025 751.03043 749.39200 749.54023 750.39914 750.46082 750.65468 750.70703 750.72496 749.52040 749.68963 749.80614 750.11413 750.36776 750.61496 751.13941 749.36186 749.80645 750.02180 750.03656 750.09449 750.32881 748.96815 749.05014 749.25104 749.38146 749.39036 749.85501 748.49993 748.68304 748.70040 748.74118 748.76200 749.03347 749.11537 749.29225 748.47006ž 2 \sim \sim \circ 60 3 0 \sim 0 ŝ \circ 2 2 \Box 0 6.2 0 2 0 0 E 27 25 25 25 32 32 23 20 27 34 R ~ 16 12 13 2 18 18 14 14 10 10 2 15 Ξ П 16 16 12 1 1 10 15 61 19 11 ŝ 4 14 2 15 1 16 13 13 18 12 1 5 \geq 7 -7 7 -~ 7 7 -- ΔJ 7 7 7 ΔK .015 1.010 999 1.014 .966 999 1.007 1.006 000 1.005 966. .003 1.001 1.000 l.001 998 1.016 .015 1.007 1.001 .003 .002 1.000 1.001 .011 L.005 l.000 .997 .961 .968 1001 666. L.008 1.007 .941 000⁻ 8 Ν 1159E-03 4633E-03 7121E-03 3554E-03 1569E-03 6271E-03 7541E-03 2855E-03 3289E-03 1600E-03 9429E-04 3768E-03 6448E-03 2350E-03 1556E-03 4681E-03 1661E-03 6632E-03 1405E-03 5614E-03 6321E-03 6458E-03 1163E-03 6023E-03 1375E-03 5489E-03 5400E-03 2855E-03 [339E-03 3008E-03 1123E-03 3832E-03 [325E-03 (427E-03 5697E-03 4646E-03 5371E-03 4491E-03 ŝ 999.104 970.752 982.758 982.752 014.078 .014.072 936.718 960.679 970.340 970.334 980.338 980.343 958.234 942.895 942.889 999.098 973.800 997.011 958.240 970.758 024.103 010.085 997.017 979.090 026.268 026.262 059.286 059.280 016.439 016.433 060.355 005.243 003.082 024.109 077.474 003.087 010.091 1077.479 iii iii -16 20 23 29 16 49 14 -140 16 32 22-26 69 -59 Ģ 38 121 ĭ 748.34710 748.03622 748.15885 748.17957 747.69944 748.06482 748.44923 746.73575 746.81721 747.00286 747.14309 747.34255 747.36246 747.38618 747.40817 747.60011 747.69743 747.76804 748.01498 748.05804 747.09034 746.34706 746.41883 746.79562 747.13137 746.02952 746.22297 746.66640 746.68927 746.72396 745.76919 745.79018 746.02277 746.05264 746.35967 746.00035 745.77083 745.78451 ž 0 0 3 -0 00 0 3 3 0 2 2 2 2 3000 \sim 2 \sim 0 3 - 8 -3 ь 25 32 ଛ ଛ 34 22 22 23 3 27 27 34 3252732023 5 2 8 18 14 14 15 15 19 61 11 16 16 12 5 11 13 11 1612 11 12 20 20 2 8 14 8 4 15 ß 6 19 11 I 17 13 × 7 -7 ---7 1 -----ΔJ 7 7 -1 7 7 -----7 7 -----------~~ ----- ΔK

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M.	1 000	1,000	1 010	1.008	1.006	1.006	1.000	984	1.044	1.003	1.044	1.001	1.030	1.030	1.002	1.001	1.020	1.020	1.001	966.	1.014	1.013	1.000	1.000	1.009	1.007	1.005	1.005	1.000	1.000	1.003	1.041	1.000	1.041	1.028	1.028	1.001	1.001
S	2190F-09	.1095E-02	1638F-02	.4088F-03	.4796E-03	.1918E-02	.2147E-02	.5283E-03	.3600E-03	.1080E-02	.7200E-03	.2155E-02	.2439E-03	.9756E-03	.5853E-03	.2339E-02	.1272E-02	.3180E-03	.2443E-02	.6077E-03	.1596E-02	.7972E-03	.2457E-02	.1229E-02	.1923E-02	.4798E-03	.5566E-03	.2226E-02	.2391E-02	.5977E-03	.1241E-02	.4393E-03	.2474E-02	.8786E-03	.2943E-03	.1177E-02	.6649E-03	.2660E-02
E!'	699.673	699.663	727.492	727.487	698.640	698.635	714.162	714.156	888.158	678.967	888.152	678.962	825.181	825.175	668.484	668.479	771.368	771.363	667.184	667.179	726.733	726.728	675.076	675.071	691.274	691.268	665.000	664.994	692.152	692.146	647.908	842.934	647.903	842.928	782.526	782.520	640.008	640.003
j	-12	-12	26	15	Ч	-46	-32	-97	51	36	4-	-18	25	-94	55	-23	26	-28	11	-36	57	-37	-31	64	23	9	63	158	141		21	19	34	-236*		-73	61	-28
Ä	758.74099	758.74887	758.76208	758.79209	759.00301	759.01647	759.03793	759.06445	759.24183	759.25857	759.26666	759.29035	759.44561	759.45957	759.51896	759.53020	759.66210	759.68881	759.79311	759.82486	759.88076	759.89440	760.07364	760.07990	760.11374	760.14204	760.35059	760.36313	760.36612 -	760.36773	760.60177	760.60976	760.63096	760.63366	760.80883	760.82221	760.85814	760.86820
ь	6	-	0	0	က	T	2	0	8	2	0	0	m		ŝ	1	2	0	3	0	ŝ		e	٦	2	0	~~ ·		2	0	2	3	0	0	e		ო	
ſ	19	19	28	28	26	26	17	17	35	24	35	24	33	ŝ	22	22	31	31	20	20	29	29	18	18	27	27	35	25	16	16	23	34	33	34	32	32	21	21
X	15	15	10	10	11	11	16	16	9	12	9	12	~	2	13	13	œ	œ	14	14	6	6	15	15	10	10	11	11	16	16	12	9	12	9	2	2	13	\$
ΔJ	-	7	7	-	7	-	7	7	7	7		7	7	4	7	7	-	-1	-	7	-1		-		7	-	, ,	7	7	7	-1	7	7	-	7	7	7	-
ΔK	 -	-	7	٦	-	7	7		-	7	7	7	-	-1	7	-	-1		7	7	7	7		7	-	7	·	7	- , ,	7	7	Ę,	7	7	7000 	÷		7
	æ	~	0	6		2	0	0	10		~	~	 	~			~		_		_	~														. <u> </u>	·	
W	1.00	1.00	1.00	9 6 .	1.00	1.00	1.00	1.00	1.03!	1.03	1.00	1.00	1.02^{2}	1.02	1.00	66.	1.01	1.016	1.00	1.01	1.000	1.00	1.00	1.006	1.000	376.	1.004	100.1	1.032	1.032	1.002	1.001	1.022	1.022	1.001	995	1.015	1.015
S_i	.3494E-03	.1396E-02	.1707E-02	.4136E-03	.8043E-03	.1604E-02	.4112E-03	.1645E-02	.1643E-03	.6573E-03	.4450E-03	.1778E-02	.8769E-03	.2190E-03	.1893E-02	.4705E-03	.1126E-02	.5623E-03	.1941E-02	.1387E-02	.9703E-03	.3461E-03	.4107E-03	.1641E-02	.1920E-02	.4679E-03	.9348E-03	.1804E-U2	.2008E-03	-212US	.5116E-03	.2044E-02	.1060E-02	.2649E-03	.2157E-02	.5360E-03	.1344E-02	.6721E-03
E_i''	769.784	769.779	762.057	762.051	744.953	744.947	780.560	780.555	914.341	914.335	729.306	729.301	855.389	855.384	722.839	722.834	805.609 205.609	805.603	725.561	764.998	725.555	764.993	733.568	733.563	737.463	131.458	(11.310	016.117	071.608	009.114 000 010	698.250	698.245	812.737	812.731	694.367	694.361	765.529	765.523
မိ	119	-73	٢,	-71	21	-12		-51		-113	17	; <mark>5</mark> 8	17	-103	22	21	<u>8</u>	2.1-	Ъ.	, 111-	⁷	; ;	5	4 7	87- 1	-130	0	кт-	20	ה ה י	0 - 2	ş,	14		12	-12	5	-53
Ŀ,	756.30246	756.31776	756.37599	756.43974	756.56676	756.60362	756.68894	756.69055	756.71364	756.72876	756.83512	756.84876	756.93956	736.96872	CUSI1.761	191.13916	757.16674	151.18184	151.40650	777 41000	777 11003	757.44033	131.03363	10808.161	131.10181	131.13414	101.91300	750 00054	758 00508	1.00.03000	138.17/94	750.00178	7.58.30173	7.58.32968	7.58.45649	758.49299	758.52465	108.03902
ь	e		2	0	2	0	~ ~		m .	- 0	ю,	-	2	>	N	> •	- د	→ c	n o	N -		⇒ •	ς. Γ		2	ے د	۹ C) (- د	- c	، د		2	- 0	2	⇒ ∘		-
2	28	1 28	19	3 19	26	52		17	3	3	24	57	3	38	78	77	3	۲. ۲. ۵	28	82		67	5 6	7	9 9	5	3 5	3 2	* *	5	38	3 8	22	27	77	77	<u>.</u>	3
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W.	1.035	1.050	1.001	1 000	1.023	1.015	1.015	1.000	766.	1.010	1.009	1.000	1.000	1.006	1.004	1.075	1.076	1.003	1.003	1.049	1.049	1.001	666.	1.032	1.032	1.000	1.000	1.021	1.021	1.014	1.013	1.000	9 66.	1.009	1.008	1.005	1.004
$S_{\mathbf{i}}$.6411E-03	1282E-U2	.419/E-03	3377F_02	.1679E-02	.2116E-02	.5290E-03	.3431E-02	.8552E-03	.2566E-02	.1282E-02	.3372E-02	.1686E-02	.2991E-02	.7463E-03	.8211E-03	.2055E-03	.8385E-03	.3354E-02	.2854E-03	.1142E-02	.1811E-02	.3616E-02	.7667E-03	.1533E-02	.9438E-03	.3775E-02	.4964E-03	.1986E-02	.2476E-02	.6183E-03	.3804E-02	.9491E-03	.2968E-02	.1483E-02	.3422E-02	.8546E-03
E''	756.336	130.33U	701.009 526 000	586 924	701.063	654.976	654.970	593.386	593.381	618.069	618.064	609.039	609.034	590.345	590.340	847.873	847.867	571.815	571.809	776.835	776.830	562.472	562.467	714.963	714.957	562.327	562.321	662.269	662.263	618.752	618.746	571.371	571.366	584.424	584.418	559.281	559.275
ۍ م-د	56	24	35	84	-236^{*}	46	119	-25	7	58	-73	-37		-29	e	49		-24	-29		-70	ņ	ဆု	-4	25		2-	52	-71	6	æ	1	9	33	-24	12	3
'n	763.33992	703.30193	763 529/3	763 53879	763.54192	763.73225	763.75519	763.79188	763.80873	763.93817	763.94962	764.06034	764.06194	764.15781	764.18088	764.34154	764.36126	764.38237	764.39220	764.51780	764.52963	764.62034	764.64164	764.70215	764.72320	764.86457	764.87120	764.88737	764.89897	765.08528	765.10693	765.12104	765.13280	765.28695	765.29769	765.50214	765.52346
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5	32	32	R 2	10	3 8	28	28	17	. 17	26	26	15	15	24	24	35	35	22	22	33	33	20	20	31	31	3 18	\$ 18	7 29	7 29	3 27	\$ 27	1 16	1 16) 25	3 25) 23) 23
Я	9	οt) - C			30	œ	14	14	G	с,	15	15	10	10	V	T	Π	11				12	С.		<u> </u>	~			~	~	1	1			H	Ĩ
۵J	- '	-, -			·	-	-	7	-	-	-	۲	7	-	-	-1	-	7	-	-	7	7	-	-	7	1	-	Π	П	7	Γ	7	7	T	7	7	7
ΔK				; -		-1	-1	-1	-1			-					,1 1		7	-1					-1-	-1						-1	-				
W.	1.019	1.018	1.000	066.	1.012	1.000	1.000	1.008	1.006	1.004	1.004	1.056	1.057	1.002	1.000	1.038	1.038	1.026	1.025	1.001	1.001	1.017	1.016	1.000	266.	1.011	1.011	1.000	1.000	1.007	1.005	1.004	1.003	1.053	1.053	1.002	1.000
S _i W _i	.1518E-02 1.019	.3792E-03 1.018	2749E-02 1.000	1881E-00 1019	.9404E-03 1.012	.2744E-02 1.000	.1372E-02 1.000	.2242E-02 1.008	.5595E-03 1.006	.6418E-03 1.004	.2567E-02 1.004	.1936E-03 1.056	.7752E-03 1.057	.1415E-02 1.002	.2825E-02 1.000	.5325E-03 1.038	.1065E-02 1.038	.3528E-03 1.026	.1410E-02 1.025	.7518E-03 1.001	.3007E-02 1.001	.1798E-02 1.017	.4491E-03 1.016	.3079E-02 1.000	.7674E-03 .997	.2204E-02 1.011	.1102E-02 1.011	.3049E-02 1.000	.1524E-02 1.000	.2598E-02 1.007	.6483E-03 1.005	.7363E-03 1.004	.2942E-02 1.003	.2360E-03 1.053	.9440E-03 1.053	.1607E-02 1.002	.3207E-02 1.000
$E_i'' S_i W_i$	731.285 .1518E-02 1.019	731.279 .3792E-03 1.018	641.293 .2749E-02 1.000	680 995 1881 199 1019	689.219 .9404E-03 1.012	651.771 .2744E-02 1.000	651.766 .1372E-02 1.000	656.342 .2242E-02 1.008	656.337 .5595E-03 1.006	632.649 .6418E-03 1.004	632.643 .2567E-02 1.004	866.004 .1936E-03 1.056	865.998 .7752E-03 1.057	618.139 .1415E-02 1.002	618.134 .2825E-02 1.000	798.993 .5325E-03 1.038	798.987 .1065E-02 1.038	741.155 .3528E-03 1.026	741.149 .1410E-02 1.025	612.823 .7518E-03 1.001	612.817 .3007E-02 1.001	692.487 .1798E-02 1.017	692.481 .4491E-03 1.016	616.694 .3079E-02 1.000	616.688 .7674E-03 .997	653.003 .2204E-02 1.011	652.998 .1102E-02 1.011	629.759 .3049E-02 1.000	629.754 .1524E-02 1.000	622.699 .2598E-02 1.007	622.694 .6483E-03 1.005	601.587 .7363E-03 1.004	601.581 .2942E-02 1.003	820.778 .2360E-03 1.053	820.773 .9440E-03 1.053	589.660 .1607E-02 1.002	589.655 .3207E-02 1.000
o -c E''_i S_i W_i	0 731.285 .1518E-02 1.019	6 731.279 .3792E-03 1.018	8 641.293 .2749E-02 1.000 25 241.000 204E 03 006	-0.0 680.005 -0071E/00 -300 20 680.005 -1881E-00 1.019	-57 689.219 .9404E-03 1.012	116 651.771 .2744E-02 1.000	651.766 .1372E-02 1.000	18 656.342 .2242E-02 1.008	-55 656.337 .5595E-03 1.006	80 632.649 .6418E-03 1.004	-40 632.643 .2567E-02 1.004	866.004 .1936E-03 1.056	-88 865.998 .7752E-03 1.057	38 618.139 .1415E-02 1.002	-7 618.134 .2825E-02 1.000	798.993 .5325E-03 1.038	-14 798.987 .1065E-02 1.038	67 741.155 .3528E-03 1.026	-84 741.149 .1410E-02 1.025	-65 612.823 .7518E-03 1.001	-6 612.817 .3007E-02 1.001	37 692.487 .1798E-02 1.017	692.481 .4491E-03 1.016	-17 616.694 .3079E-02 1.000	-49 616.688 .7674E-03 .997	53 653.003 .2204E-02 1.011	-57 652.998 .1102E-02 1.011	-44 629.759 .3049E-02 1.000	629.754 .1524E-02 1.000	16 622.699 .2598E-02 1.007	66 622.694 .6483E-03 1.005	-24 601.587 .7363E-03 1.004	-52 601.581 .2942E-02 1.003	820.778 .2360E-03 1.053	-72 820.773 .9440E-03 1.053	-8 589.660 .1607E-02 1.002	-11 589.655 .3207E-02 1.000
ν_i o-c E_i'' S_i W_i	761.02065 0 731.285 .1518E-02 1.019	761.04612 6 731.279 .3792E-03 1.018	761.12790 8 641.293 .2749E-02 1.000	101.10411 -00 041.200 .00 11 200 .330 761 93506 30 680 995 1881E_09 1 019	761.24796 -57 689.219 .9404E-03 1.012	761.40443 116 651.771 .2744E-02 1.000	761.40909 651.766 .1372E-02 1.000	761.46359 18 656.342 .2242E-02 1.008	761.49016 -55 656.337 .5595E-03 1.006	761.69636 80 632.649 .6418E-03 1.004	761.70799 -40 632.643 .2567E-02 1.004	761.78103 866.004 .1936E-03 1.056	761.79380 -88 865.998 .7752E-03 1.057	761.94314 38 618.139 .1415E-02 1.002	761.96971 -7 618.134 .2825E-02 1.000	761.97579 798.993 .5325E-03 1.038	761.99875 -14 798.987 .1065E-02 1.038	762.17021 67 741.155 .3528E-03 1.026	762.18300 -84 741.149 .1410E-02 1.025	762.19549 -65 612.823 .7518E-03 1.001	762.20438 -6 612.817 .3007E-02 1.001	762.37738 37 692.487 .1798E-02 1.017	762.40158 692.481 .4491E-03 1.016	762.46082 -17 616.694 .3079E-02 1.000	762.48272 -49 616.688 .7674E-03 .997	762.58753 53 653.003 .2204E-02 1.011	762.59971 -57 652.998 .1102E-02 1.011	762.73333 -44 629.759 .3049E-02 1.000	762.73644 629.754 .1524E-02 1.000	762.81162 16 622.699 .2598E-02 1.007	762.83644 66 622.694 .6483E-03 1.005	763.04029 -24 601.587 .7363E-03 1.004	763.05102 -52 601.581 .2942E-02 1.003	763.15040 820.778 .2360E-03 1.053	763.16270 -72 820.773 .9440E-03 1.053	763.28267 -8 589.660 .1607E-02 1.002	763.30660 -11 589.655 .3207E-02 1.000
σ ν, ο-c Ε" S _i W _i	2 761.02065 0 731.285 .1518E-02 1.019	0 761.04612 6 731.279 .3792E-03 1.018	2 761.12790 8 641.293 .2749E-02 1.000	0 101.1.0411 -0.0 041.200 .004125-00 .000 9 781 93508 30 680 995 18813-09 1019	1 761.24796 -57 689.219 .9404E-03 1.012	3 761.40443 116 651.771 .2744E-02 1.000	1 761.40909 651.766 .1372E-02 1.000	2 761.46359 18 656.342 .2242E-02 1.008	0 761.49016 -55 656.337 .5595E-03 1.006	3 761.69636 80 632.649 .6418E-03 1.004	1 761.70799 -40 632.643 .2567E-02 1.004	3 761.78103 866.004 .1936E-03 1.056	1 761.79380 -88 865.998 .7752E-03 1.057	2 761.94314 38 618.139 .1415E-02 1.002	0 761.96971 -7 618.134 .2825E-02 1.000	2 761.97579 798.993 .5325E-03 1.038	0 761.99875 -14 798.987 .1065E-02 1.038	3 762.17021 67 741.155 .3528E-03 1.026	1 762.18300 -84 741.149 .1410E-02 1.025	3 762.19549 -65 612.823 .7518E-03 1.001	1 762.20438 -6 612.817 .3007E-02 1.001	2 762.37738 37 692.487 .1798E-02 1.017	0 762.40158 692.481 .4491E-03 1.016	2 762.46082 -17 616.694 .3079E-02 1.000	0 762.48272 -49 616.688 .7674E-03 .997	3 762.58753 53 653.003 .2204E-02 1.011	1 762.59971 -57 652.998 .1102E-02 1.011	3 762.73333 -44 629.759 .3049E-02 1.000	1 762.73644 629.754 .1524E-02 1.000	2 762.81162 16 622.699 .2598E-02 1.007	0 762.83644 66 622.694 .6483E-03 1.005	3 763.04029 -24 601.587 .7363E-03 1.004	1 763.05102 -52 601.581 .2942E-02 1.003	3 763.15040 820.778 .2360E-03 1.053	1 763.16270 -72 820.773 .9440E-03 1.053	2 763.28267 -8 589.660 .1607E-02 1.002	0 763.30660 -11 589.655 .3207E-02 1.000
$J \sigma \nu_i \circ c E''_i S_i W_i$	30 2 761.02065 0 731.285 1518E-02 1.019	30 0 761.04612 6 731.279 .3792E-03 1.018	19 2 761.12790 8 641.293 .2749E-02 1.000	E IS U 101.1.04/1 ~00 041.200 .0041E-00 .300 0.90 2 781.925.06 20 620.995 1281E_09 1.019	28 1 761.24796 -57 689.219 .9404E-03 1.012	17 3 761.40443 116 651.771 .2744E-02 1.000	17 1 761.40909 651.766 .1372E-02 1.000) 26 2 761.46359 18 656.342 .2242E-02 1.008) 26 0 761.49016 -55 656.337 .5595E-03 1.006	[24 3 761.69636 80 632.649 .6418E-03 1.004	1 24 1 761.70799 -40 632.643 .2567E-02 1.004	5 35 3 761.78103 866.004 .1936E-03 1.056	5 35 1 761.79380 -88 865.998 .7752E-03 1.057	2 2 2 761.94314 38 618.139 .1415E-02 1.002	? 22 0 761.96971 -7 618.134 .2825E-02 1.000	3 3 2 761.97579 798.993 .5325E-03 1.038	3 33 0 761.99875 -14 798.987 .1065E-02 1.038	7 31 3 762.17021 67 741.155 .3528E-03 1.026	7 31 1 762.18300 -84 741.149 .1410E-02 1.025	3 20 3 762.19549 -65 612.823 .7518E-03 1.001	3 20 1 762.20438 -6 612.817 .3007E-02 1.001	3 29 2 762.37738 37 692.487 .1798E-02 1.017	3 29 0 762.40158 692.481 .4491E-03 1.016	4 18 2 762.46082 -17 616.694 .3079E-02 1.000	1 18 0 762.48272 -49 616.688 .7674E-03 .997	9 27 3 762.58753 53 653.003 .2204E-02 1.011	3 27 1 762.59971 -57 652.998 .1102E-02 1.011	5 16 3 762.73333 -44 629.759 .3049E-02 1.000	5 16 1 762.73644 629.754 .1524E-02 1.000	0 25 2 762.81162 16 622.699 .2598E-02 1.007	0 25 0 762.83644 66 622.694 .6483E-03 1.005	1 23 3 763.04029 -24 601.587 .7363E-03 1.004	1 23 1 763.05102 -52 601.581 .2942E-02 1.003	5 34 3 763.15040 820.778 .2360E-03 1.053	5 34 1 763.16270 -72 820.773 .9440E-03 1.053	2 21 2 763.28267 -8 589.660 .1607E-02 1.002	2 21 0 763.30660 -11 589.655 .3207E-02 1.000
$K J \sigma$ ν_i o-c E''_i S_i W_i	8 30 2 761.02065 0 731.285 .1518E-02 1.019	8 30 0 761.04612 6 731.279 .3792E-03 1.018	14 19 2 761.12790 8 641.293 .2749E-02 1.000	. 14 19 U 101.10411 ~00 041.200 .00444500 .330 D 90 9 781 93506 30 680 995 18815_09 1 019	9 28 1 761.24796 -57 689.219 .9404E-03 1.012	15 17 3 761.40443 116 651.771 .2744E-02 1.000	15 17 1 761.40909 651.766 .1372E-02 1.000	10 26 2 761.46359 18 656.342 .2242E-02 1.008	10 26 0 761.49016 -55 656.337 .5595E-03 1.006	11 24 3 761.69636 80 632.649 .6418E-03 1.004	11 24 1 761.70799 -40 632.643 .2567E-02 1.004	5 35 3 761.78103 866.004 .1936E-03 1.056	5 35 1 761.79380 -88 865.998 .7752E-03 1.057	12 22 2 761.94314 38 618.139 .1415E-02 1.002	12 22 0 761.96971 -7 618.134 .2825E-02 1.000	6 33 2 761.97579 798.993 .5325E-03 1.038	6 33 0 761.99875 -14 798.987 .1065E-02 1.038	7 31 3 762.17021 67 741.155 .3528E-03 1.026	7 31 1 762.18300 -84 741.149 .1410E-02 1.025	13 20 3 762.19549 -65 612.823 .7518E-03 1.001	1 13 20 1 762.20438 -6 612.817 .3007E-02 1.001	1 8 29 2 762.37738 37 692.487 .1798E-02 1.017	1 8 29 0 762.40158 692.481 .4491E-03 1.016	1 14 18 2 762.46082 -17 616.694 .3079E-02 1.000	1 14 18 0 762.48272 -49 616.688 .7674E-03 .997	(9 27 3 762.58753 53 653.003 .2204E-02 1.011	1 9 27 1 762.59971 -57 652.998 .1102E-02 1.011	1 15 16 3 762.73333 -44 629.759 .3049E-02 1.000	1 15 16 1 762.73644 629.754 .1524E-02 1.000	1 10 25 2 762.81162 16 622.699 .2598E-02 1.007	1 10 25 0 762.83644 66 622.694 .6483E-03 1.005	(111233763.04029-24601.58777363E-031.004	1 11 23 1 763.05102 -52 601.581 .2942E-02 1.003	1 5 34 3 763.15040 820.778 .2360E-03 1.053	1 5 34 1 763.16270 -72 820.773 .9440E-03 1.053	1 12 21 2 763.28267 -8 589.660 .1607E-02 1.002	1 12 21 0 763.30660 -11 589.655 .3207E-02 1.000
$\Delta J K J \sigma$ ν_i o-c E''_i S_i W_i	-1 8 30 2 761.02065 0 731.285 .1518E-02 1.019	-1 8 30 0 761.04612 6 731.279 .3792E-03 1.018	-1 14 19 2 761.12790 8 641.293 .2749E-02 1.000	-1 14 19 0 101.13411 -30 041.200 .00 112 -03 .330 1 0 90 9 781 93508 30 680 995 18817-09 1 019	-1 9 28 1 761.24796 -57 689.219 .9404E-03 1.012	-1 15 17 3 761.40443 116 651.771 .2744E-02 1.000	-1 15 17 1 761.40909 651.766 .1372E-02 1.000	-1 10 26 2 761.46359 18 656.342 .2242E-02 1.008	-1 10 26 0 761.49016 -55 656.337 .5595E-03 1.006	-1 11 24 3 761.69636 80 632.649 .6418E-03 1.004	-1 11 24 1 761.70799 -40 632.643 .2567E-02 1.004	-1 5 35 3 761.78103 866.004 .1936E-03 1.056	-1 5 35 1 761.79380 -88 865.998 .7752E-03 1.057	-1 12 22 2 761.94314 38 618.139 .1415E-02 1.002	-1 12 22 0 761.96971 -7 618.134 .2825E-02 1.000	· -1 6 33 2 761.97579 798.993 .5325E-03 1.038	-1 6 33 0 761.99875 -14 798.987 .1065E-02 1.038	-1 7 31 3 762.17021 67 741.155 .3528E-03 1.026	-1 7 31 1 762.18300 -84 741.149 .1410E-02 1.025	-1 13 20 3 762.19549 -65 612.823 .7518E-03 1.001	-1 13 20 1 762.20438 -6 612.817 .3007E-02 1.001	-1 8 29 2 762.37738 37 692.487 .1798E-02 1.017	-1 8 29 0 762.40158 692.481 .4491E-03 1.016	-1 14 18 2 762.46082 -17 616.694 .3079E-02 1.000	-1 14 18 0 762.48272 -49 616.688 .7674E-03 .997	-1 9 27 3 762.58753 53 653.003 .2204E-02 1.011	-1 9 27 1 762.59971 -57 652.998 .1102E-02 1.011	-1 15 16 3 762.73333 -44 629.759 .3049E-02 1.000	-1 15 16 1 762.73644 629.754 .1524E-02 1.000	-1 10 25 2 762.81162 16 622.699 .2598E-02 1.007	-1 10 25 0 762.83644 66 622.694 .6483E-03 1.005	-1 11 23 3 763.04029 -24 601.587 .7363E-03 1.004	-1 11 23 1 763.05102 -52 601.581 .2942E-02 1.003	-1 5 34 3 763.15040 820.778 .2360E-03 1.053	-1 5 34 1 763.16270 -72 820.773 .9440E-03 1.053	-1 12 21 2 763.28267 -8 589.660 .1607E-02 1.002	-1 12 21 0 763.30660 -11 589.655 .3207E-02 1.000

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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	E''_i	1330.835	634.573	634.567	1259.765	1294.660	1226.163	445.913	445.908	1259.771	576.390	576.385	1193.848	1226.169	1193.854	1162.821	1162.827	1133.083	527.389	527.383	458.707	1133.088	458.702	1104.633	1104.639	1077.474	1077.479	487.580	487.575	456.961	456.956	435.543	435.537	817.656	817.651	423.320	423.314	734.522	5* 734.516
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W_i	.802	.992	1.004	1.004	.912	.993	.767	.994	.940	.995	1.002	1.002	966.	.960	.722	266.	.975	766.	1.288	1.290	1.001	.664	1.000	966.	.986	666.	.994	1.000	.592	1.122	1.124	1.000	1.000	1.065	1.066	.507	1.038	1.038
S:	.4578E-04	.7121E-04	.6841E-02	.1710E-02	.1596E-03	.7721E-04	.5160E-04	.8224E-04	.1615E-03	.8576E-04	.7556E-02	.3778E-02	.8716E-04	.1548E-03	.5669E-04	.8568E-04	.1376E-03	.8037E-04	.4301E-03	.1723E-02	.8075E-02	.6024E-04	.2017E-02	.7042E-04	.1077E-03	.5459E-04	.6281E-04	.3160E-04	.6138E-04	.2172E-02	.5439E-03	.2093E-02	.8372E-02	.2862E-02	.1432E-02	.5939E-04	.3715E-02	.9287E-03
E!!	1422.238	1141.964	375.372	375.366	1010.085	1107.065	1378.348	1073.452	980.338	1041.127	361.710	361.705	1010.091	951.880	1335.740	980.343	924.711	951.885	685.815	685.810	357.250	1294.415	357.244	924.717	898.834	898.839	874.247	874.252	1254.374	610.388	610.382	361.997	361.992	544.141	544.135	1215.617	487.075	487.069
j			4	34							53	59								-98	-11		24							42	100		-47	40	-138		20	22
Ä	775.81607	775.83158	775.84102	775.85271	775.87080	775.89128	775.93357	775.94870	775.97056	776.00383	776.00864	776.01404	776.05669	776.05827	776.05864	776.10728	776.13634	776.15561	776.16493	776.17181	776.18803	776.19434	776.19613	776.20168	776.20653	776.24551	776.27013	776.28709	776.34431	776.34618	776.35871	776.37489	776.37767	776.47643	776.48448	776.51233	776.60557	776.61867
ь	0	5	7	0	0	2	0	7	0	2	e		5	0	0	7	0	2	e		5	0	0	5	0	5	0	5 ~	0	5	0	 	~ 1			0 €	3 2	0 5
-	8 34	8 27	8 19	8 19	8 23	8 26	8 33	8 25	8 22	8 24	9 17	9 17	8 23	8 21	8 32	8 22	8 20	8 21	1 32	1 32	10 15	8 31	10 15	18 20	18 19	18 19	18 18	18 18	18 30	2 3(2 30	11 13	11 13	3 28	3 28	18 29	4 2(4 2(
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X A.		يستير 1		-		-	-		-	-		-	-	-		-	-1	-1		-1	-	-	7	-1	7	7	-	-	7	7	7	7	-	- 1	-	7	-1	-1
	i													-																								
	T																																					1
M.	1.003	1.002	1.305	1.307	1.001	1.000	1.131	1.133	.578	1.000	1.000	1.070	1.071	1.000	1.000	1.041	1.000	1.000	1.042	.982	.671	.983	1.025	1.025	.984	.754	.986	1.015	1.015	.987	.822	.988	1.008	1.008	.829	986.	.874	066.
Ϋ́.	6873F-02 1.003	.3433E-02 1.002	.3638E-03 1.305	.1458E-02 1.307	.7399E-02 1.001	.1848E-02 1.000	.1851E-02 1.131	.4635E-03 1.133	.7536E-04 .578	.1930E-02 1.000	.7720E-02 1.000	.2461E-02 1.070	.1232E-02 1.071	.4412E-03 1.000	.8824E-03 1.000	.3227E-02 1.041	.3922E-02 1.000	.7844E-02 1.000	.8076E-03 1.042	.2354E-04 .982	.9627E-04 .671	.2804E-04 .983	.1027E-02 1.025	.4109E-02 1.025	.3307E-04 .984	.1172E-03 .754	.3868E-04 .986	.2525E-02 1.015	.5050E-02 1.015	.4473E-04 .987	.1360E-03 .822	.5117E-04 .988	.1496E-02 1.008	.5983E-02 1.008	.3978E-04 .829	.5786E-04 .989	.1506E-03 .874	.6460E-04 .990
F'' C. W.	385 029 6873F-02 1.003	385.023 .3433E-02 1.002	728.479 .3638E-03 1.305	728.473 .1458E-02 1.307	377.980 .7399E-02 1.001	377.974 .1848E-02 1.000	650.481 .1851E-02 1.131	650.475 .4635E-03 1.133	1178.145 .7536E-04 .578	380.138 .1930E-02 1.000	380.133 .7720E-02 1.000	581.661 .2461E-02 1.070	581.655 .1232E-02 1.071	770.409 .4412E-03 1.000	770.403 .8824E-03 1.000	522.018 .3227E-02 1.041	391.497 .3922E-02 1.000	391.491 .7844E-02 1.000	522.012 .8076E-03 1.042	1467.415 .2354E-04 .982	1141.959 .9627E-04 .671	1422.244 .2804E-04 .983	471.566 .1027E-02 1.025	471.560 .4109E-02 1.025	1378.354 .3307E-04 .984	1107.059 .1172E-03 .754	1335.746 .3868E-04 .986	430.302 .2525E-02 1.015	430.297 .5050E-02 1.015	1294.421 .4473E-04 .987	1073.447 .1360E-03 .822	1254.380 .5117E-04 .988	398.239 .1496E-02 1.008	398.233 .5983E-02 1.008	1467.409 .3978E-04 .829	1215.623 .5786E-04 .989	1041.122 .1506E-03 .874	1178.151 .6460E-04 .990
	40 385 029 6873F-02 1.003	53 385.023 .3433E-02 1.002	728.479 .3638E-03 1.305	-12 728.473 .1458E-02 1.307	-10 377.980 .7399E-02 1.001	101 377.974 .1848E-02 1.000	17 650.481 .1851E-02 1.131	15 650.475 .4635E-03 1.133	1178.145 .7536E-04 .578	380.138 .1930E-02 1.000	-42 380.133 .7720E-02 1.000	6 581.661 .2461E-02 1.070	-53 581.655 .1232E-02 1.071	770.409 .4412E-03 1.000	76 770.403 .8824E-03 1.000	200* 522.018 .3227E-02 1.041	391.497 $.3922E-02$ 1.000	12 391.491 .7844E-02 1.000	116 522.012 .8076E-03 1.042	1467.415 .2354E-04 .982	1141.959 .9627E-04 .671	1422.244 .2804E-04 .983	471.566 .1027E-02 1.025	-53 471.560 .4109E-02 1.025	1378.354 .3307E-04 .984	1107.059 .1172E-03 .754	1335.746 .3868E-04 .986	6 430.302 .2525E-02 1.015	23 430.297 .5050E-02 1.015	1294.421 .4473E-04 .987	1073.447 .1360E-03 .822	1254.380 .5117E-04 .988	398.239 .1496E-02 1.008	-29 398.233 .5983E-02 1.008	1467.409 .3978E-04 .829	1215.623 .5786E-04 .989	1041.122 .1506E-03 .874	1178.151 .6460E-04 .990
	774 67594 40 385 099 6873F-02 1.003	774.68125 5.3 385.023 .3433E-02 1.002	774.78332 728.479 .3638E-03 1.305	774.79034 -12 728.473 .1458E-02 1.307	774.85914 -10 377.980 .7399E-02 1.001	774.86875 101 377.974 .1848E-02 1.000	774.97866 17 650.481 .1851E-02 1.131	774.99171 15 650.475 .4635E-03 1.133	775.04699 1178.145 .7536E-04 .578	775.05027 380.138 .1930E-02 1.000	775.05371 -42 380.133 .7720E-02 1.000	775.11629 6 581.661 .2461E-02 1.070	775.12471 -53 581.655 .1232E-02 1.071	775.23779 770.409 .4412E-03 1.000	775.23951 76 770.403 .8824E-03 1.000	775.25121 200* 522.018 .3227E-02 1.041	775.25256 391.497 .3922E-02 1.000	775.25414 12 391.491 .7844E-02 1.000	775.26505 116 522.012 .8076E-03 1.042	775.27069 1467.415 .2354E-04 .982	775.27172 1141.959 .9627E-04 .671	775.34896 1422.244 .2804E-04 .983	775.38560 471.566 .1027E-02 1.025	775.39363 -53 471.560 .4109E-02 1.025	775.42488 1378.354 .3307E-04 .984	775.46155 1107.059 .1172E-03 .754	775.49847 1335.746 .3868E-04 .986	775.53033 6 430.302 .2525E-02 1.015	775.54365 23 430.297 .5050E-02 1.015	775.56973 1294.421 .4473E-04 .987	775.62104 1073.447 .1360E-03 .822	775.63866 1254.380 .5117E-04 .988	775.67970 398.239 .1496E-02 1.008	775.68675 -29 398.233 .5983E-02 1.008	775.70376 1467.409 .3978E-04 .829	775.70527 1215.623 .5786E-04 .989	775.75573 1041.122 .1506E-03 .874	775.76958 1178.151 .6460E-04 .990
<u>.</u> .	2 774 67594 40 385 099 6873F-02 1.003	1 774.68125 53 385.023 .3433E-02 1.002	3 774 78332 728.479 .3638E-03 1.305	1 774.79034 -12 728.473 .1458E-02 1.307	2 774.85914 -10 377.980 .7399E-02 1.001	0 774.86875 101 377.974 .1848E-02 1.000	2 774.97866 17 650.481 .1851E-02 1.131	0 774.99171 15 650.475 .4635E-03 1.133	0 775.04699 1178.145 7536E-04 .578	3 775.05027 380.138 .1930E-02 1.000	1 775.05371 -42 380.133 .7720E-02 1.000	3 775.11629 6 581.661 .2461E-02 1.070	1 775.12471 -53 581.655 .1232E-02 1.071	2 775.23779 770.409 4412E-03 1.000	0 775.23951 76 770.403 .8824E-03 1.000	2 775.25121 200* 522.018 .3227E-02 1.041	2 775.25256 391.497 .3922E-02 1.000	0 775.25414 12 391.491 .7844E-02 1.000	0 775.26505 116 522.012 .8076E-03 1.042	2 775.27069 1467.415 .2354E-04 .982	0 775.27172 1141.959 .9627E-04 .671	2 775.34896 1422.244 .2804E-04 .983	3 775.38560 471.566 .1027E-02 1.025	1 775.39363 -53 471.560 .4109E-02 1.025	2 775.42488 1378.354 .3307E-04 .984	i 0 775.46155 1107.059 .1172E-03 .754	2 775.49847 1335.746 .3868E-04 .986	2 775.53033 6 430.302 .2525E-02 1.015	0 775.54365 23 430.297 .5050E-02 1.015	2 775.56973 1294.421 .4473E-04 .987	5 0 775.62104 1073.447 .1360E-03 .822) 2 775.63866 1254.380 .5117E-04 .988	1 3 775.67970 398.239 .1496E-02 1.008	1 1 775.68675 -29 398.233 .5983E-02 1.008	775.70376 1467.409 .3978E-04 .829	3 2 775.70527 1215.623 .5786E-04 .989	4 0 775.75573 1041.122 .1506E-03 .874	§ 2 775.76958 1178.151 .6460E-04 .990
	0 18 2 774 67594 40 385 099 6873F-02 1.003	9 18 1 774.68125 53 385.023 .3433E-02 1.002	1 33 3 774.78332 728.479 .3638E-03 1.305	1 33 1 774.79034 -12 728.473 .1458E-02 1.307	0 16 2 774.85914 -10 377.980 .7399E-02 1.001	0 16 0 774.86875 101 377.974 .1848E-02 1.000	2 31 2 774.97866 17 650.481 .1851E-02 1.131	2 31 0 774.99171 15 650.475 .4635E-03 1.133	8 28 0 775.04699 1178.145 .7536E-04 .578	11 14 3 775.05027 380.138 .1930E-02 1.000	11 14 1 775.05371 -42 380.133 7720E-02 1.000	3 29 3 775.11629 6 581.661 .2461E-02 1.070	3 29 1 775.12471 -53 581.655 .1232E-02 1.071	0 34 2 775.23779 770.409 4412E-03 1.000	0 34 0 775.23951 76 770.403 .8824E-03 1.000	4 27 2 775.25121 200* 522.018 .3227E-02 1.041	12 12 2 775.25256 391.497 .3922E-02 1.000	12 12 0 775.25414 12 391.491 .7844E-02 1.000	4 27 0 775.26505 116 522.012 .8076E-03 1.042	18 35 2 775.27069 1467.415 .2354E-04 .982	18 27 0 775.27172 1141.959 .9627E-04 .671	18 34 2 775.34896 1422.244 .2804E-04 .983	5 25 3 775.38560 471.566 .1027E-02 1.025	5 25 1 775.39363 -53 471.560 .4109E-02 1.025	18 33 2 775.42488 1378.354 .3307E-04 .984	18 26 0 775.46155 1107.059 .1172E-03 .754	18 32 2 775.49847 1335.746 .3868E-04 .986	6 23 2 775.53033 6 430.302 .2525E-02 1.015	6 23 0 775.54365 23 430.297 .5050E-02 1.015	18 31 2 775.56973 1294.421 .4473E-04 .987	18.25 0 775.62104 1073.447 .1360E-03 .822	18 30 2 775.63866 1254.380 .5117E-04 .988	7 21 3 775.67970 398.239 .1496E-02 1.008	7 21 1 775.68675 -29 398.233 .5983E-02 1.008	18.35.0 775.70376 1467.409 .3978E-04 .829	18 29 2 775.70527 1215.623 .5786E-04 .989	18 24 0 775.75573 1041.122 .1506E-03 .874	18 28 2 775.76958 1178.151 .6460E-04 .990
	7 1 0 1 8 2 774 67594 40 385 099 6873F-02 1.003	1 9 18 1 774.68125 53 385.023 .3433E-02 1.002	1 1 3 3 774 78332 728.479 .3638E-03 1.305	.1 1 3.3 1 774.79034 -12 728.473 .1458E-02 1.307	-1 10 16 2 774.85914 -10 377.980 .7399E-02 1.001	-1 10 16 0 774.86875 101 377.974 .1848E-02 1.000	-1 2 31 2 774.97866 17 650.481 .1851E-02 1.131	-1 2 31 0 774.99171 15 650.475 .4635E-03 1.133	0 18 28 0 775.04699 1178.145 7536E-04 .578	-1 11 14 3 775.05027 380.138 .1930E-02 1.000	-1 11 14 1 775.05371 -42 380.133 7720E-02 1.000	-1 3 29 3 775.11629 6 581.661 .2461E-02 1.070	-1 3 29 1 775.12471 -53 581.655 .1232E-02 1.071	-1 0 34 2 775.23779 770.409 .4412E-03 1.000	-1 0 34 0 775.23951 76 770.403 .8824E-03 1.000	-1 4 27 2 775.25121 200* 522.018 .3227E-02 1.041	-1 12 12 2 775.25256 391.497 .3922E-02 1.000	-1 12 12 0 775.25414 12 391.491 .7844E-02 1.000	-1 4 27 0 775.26505 116 522.012 .8076E-03 1.042	0 18 35 2 775.27069 1467.415 .2354E-04 .982	0 18 27 0 775.27172 1141.959 .9627E-04 .671	0 18 34 2 775.34896 1422.244 .2804E-04 .983	-1 5 25 3 775.38560 471.566 .1027E-02 1.025	-1 5 25 1 775.39363 -53 471.560 .4109E-02 1.025	0 18 33 2 775.42488 1378.354 .3307E-04 .984	0 18 26 0 775.46155 1107.059 .1172E-03 .754	0 18 32 2 775.49847 1335.746 .3868E-04 .986	-1 6 23 2 775.53033 6 430.302 .2525E-02 1.015	-1 6 23 0 775.54365 23 430.297 .5050E-02 1.015	0 18 31 2 775.56973 1294.421 .4473E-04 .987	0 18 25 0 775.62104 1073.447 .1360E-03 .822	0 18 30 2 775.63866 1254.380 .5117E-04 .988	-1 7 21 3 775.67970 398.239 .1496E-02 1.008	-1 7 21 1 775.68675 -29 398.233 .5983E-02 1.008	0 18 35 0 775.70376 1467.409 .3978E-04 .829	0 18 29 2 775.70527 1215.623 .5786E-04 .989	0 18 24 0 775.75573 1041.122 .1506E-03 .874	0 18 28 2 775.76958 1178.151 .6460E-04 .990
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ŝ	.9660E-03	.3217E-03	.4351E-02	0.40E-U-304-U-304-U-304-U-304-U-304-U-304-U-304-U-304-U-304-U-304-U-304-U-304-U-304-U-304-U-304-U-304-U-304-U-3	.3370E-0	.6914E-0	.3454E-0	.5463E-02	.6908E-0	.2734E-05	.3450E-03	.6678E-03	.3336E-03	.6169E-03	.3082E-U	01212-02	.5315E-0	.2658E-0	.4058E-0	.2029E-(.2009E-(.2315E-	.1158E-	4641F-(.9282E-0	.2596E-0	.1038E-0	.1205E-0	.2411E-0	.1127E-0	.2818E-(.1194E	.5968E	.5811E- 2002E-
E'' S_i	644.431 .9660E-03	810.963 .3217E-03	429.227 .4351E-02	781.209 .0.40E-09 780.501 1080E-09	781.204 .3370E-0	752.740 .6914E-0	752.734 .3454E-0	375.868 .5463E-0	725.561 .6908E-0	375.862 .2734E-05	725.555 .3450E-03	699.673 .6678E-03	699.667 .3336E-03	675.076 .6169E-0	675.071 .3082E-U	331.102	651.771 .5315E-0	651.766 .2658E-0	629.759 .4058E-0	629.754 .2029E-(296.742 .2009E-1	609.039 .2315E-	609.034 .1158E- 206 727 2025E	970.983 4641 E-(270.978 .9282E-0	254.436 .2596E-0	254.431 .1038E-0	525.997 .1205E-0	525.991 .2411E-0	247.096 .1127E-0	247.090 .2818E-(248.969 .1194E	248.964 .5968E	788.545 .5811E- 788.545 .5811E-
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W	.994	.993	.995	.994	966.	.995	766.	966.	866.	766.	9 66.	966 .	666.	666.	1.000	1.000	809	.892	868.	.891	.879	.878	.849	.847	1.149	1.150	.759	161.	1.056	1.057	070.1	1.026	1.013	1.013	1.006	1.006	1.002	1.002
S.	.3778E-03	.1510E-02	.3829E-03	.1530E-02	.3782E-03	.1511E-02	.3617E-03	.1445E-02	.3307E-03	.1321E-02	.2821E-03	.1128E-02	.2134E-03	.8534E-03	.1207E-03	.4828E-03	.9543E-04	.6332E-03	.3813E-03	.1581E-03	.9988E-03	.4988E-03	.1479E-02	.3688E-03	.1395E-02	.5583E-02	.4852E-03	.1936E-02	.6642E-02	.1662E-02	.8034E-UZ	.4017E-02	.9507E-02	.2377E-02	.2730E-02	.1092E-01	.6089E-02	.1218E-01
E_i''	612.823	612.817	586.929	586.924	562.327	562.321	539.017	539.011	517.000	516.994	496.275	496.270	476.844	476.839	458.707	458.702	866.004	758.701	865.998	758.695	660.559	660.553	571.580	571.575	359.736	359.730	491.781	491.776	307.503	307.497	264.475	264.469	230.649	230.643	206.036	206.030	190.631	190.625
ų		ŝ		24		6-		36		-43		-29		-31		201^{*}		147			128		22			-116	ļ		-19	-120	134		ኆ	8		-60		-143
'n	788.04335	788.05339	788.08942	788.09829	788.13315	788.14088	788.17454	788.18116	788.21361	788.21914	788.25035	788.25483	788.28477	788.28823	788.31688	788.31937	788.38224	788.38645	788.38997	788.39750	788.39806	788.40548	788.42719	788.43808	788.46122	788.46629	788.47895	788.48640	788.54523	788.55301	788.61910	788.62394	788.70059	788.70743	788.78767	788.79158	788.88537	788.89041
ь	3		ŝ	, 1	ŝ	-	ŝ	-	ŝ		ŝ	-	ŝ		ŝ		e	2		0	ŝ	-	2	0	ŝ	-	~ ·		2	0	3	1	64	0	3		2	0
5	20	20	19	19	18	18	17	17	16	16	15	3	14	14	13	13	35	ŝ	35	33	31	31	29	83	23	53	27	21	21	21	19	19	17	17	15	15	13	13
К	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	ŝ	4	5	4	ŝ	ຕ	3	3	-		·		2	2	3	e	4	4	ς	ιΩ	9	မ
ſ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	-1	-	٦	7	-	7	7	7		, ,	ہ۔۔۔ ۴ ۱	-1	;	7			7	7	-1	7	7
ΔK Δ	-1	7	; ;	7	-1	1	-1	7	-1		7	7	7						1		1		-			1			7	7		7	-1			-	7	
W.	1.030	1.030	.977	.975	1.015	1.015	.979	776.	.980	1.007	1.007	979.	.982	980.	1.003	1.003	.983	.982	.985	1.001	1.001	.983	.986	.985	988.	1.000	1.000	.986	989.	986.	066.	989.	1.000	1.000	166.	066.	.993	.992
		-														_		ŝ	ლ	ଧ	, i	ŝ	ŝ	03	33		\sim	2	3	2	~	2	2	02	-03	2 02	-03	3
S.	.7383E-02	.3691E-02	.1070E-03	.4271E-03	.8816E-02	.2204E-02	.1258E-03	.5021E-03	.1465E-03	.2554E-02	.1022E-01	.5852E-03	.1692E-03	.6754E-03	.5746E-02	.1149E-01	.1935E-03	.7731E-0	.2193E-0	.3143E-0	.1257E-0	.8756E-0	.2459E-(.9827E-(.2731E-(.1346E-0	.3365E-0	.1090E-0	.2995E-0	.1197E-0	.3244E-03	.1296E-0	.1798E-0	.3595E-	.3467F	.1385E	.3653E	.1460E
$E_{i}^{\prime\prime}$ S_{i}	290.385 .7383E-02	290.380 .3691E-02 1	1024.109 .1070E-03	1024.103 .4271E-03	253.973 .8816E-02	253.968 .2204E-02	982.758 .1258E-03	982.752 .5021E-03	942.692 .1465E-03	226.772 .2554E-02	226.767 .1022E-01	942.686 .5852E-03	903.911 .1692E-03	903.905 .6754E-03	208.778 .5746E-02	208.772 .1149E-01	866.415 .1935E-03	866.409 .7731E-0	830.206 .2193E-0	199.999 .3143E-0	199.994 .1257E-0	830.201 .8756E-0	795.285 .2459E-(795.279 .9827E-(761.651 .2731E-(200.430 .1346E-0	200.425 .3365E-0	761.646 .1090E-0	729.306 .2995E-0	729.301 .1197E-0	698.250 .3244E-03	* 698.245 .1296E-0	421.161 .1798E-0	421.156 .3595E-	668.484 .3467E	668.479 .1385E	640.008 .3653E	640.003 .1460E
$o-c E'' S_i$	153 290.385 .7383E-02	290.380 .3691E-02 1	1024.109 .1070E-03	1024.103 .4271E-03	-18 253.973 .8816E-02	120 253.968 .2204E-02	982.758 .1258E-03	982.752 .5021E-03	942.692 .1465E-03	226.772 .2554E-02	-47 226.767 .1022E-01	942.686 .5852E-03	903.911 .1692E-03	903.905 .6754E-03	-95 208.778 .5746E-02	14 208.772 .1149E-01	866.415 .1935E-03	866.409 .7731E-0	830.206 .2193E-0	199.999 .3143E-0	-37 199.994 .1257E-0	830.201 .8756E-0	795.285 .2459E-0	-55 795.279 .9827E-(761.651 .2731E-(68 200.430 .1346E-0	200.425 .3365E-01	-421* 761.646 .1090E-0	729.306 .2995E-0	-14 729.301 .1197E-0	698.250 .3244E-03	-362* 698.245 .1296E-0	421.161 .1798E-0	-6 421.156 .3595E-	668.484 .3467F	-66 668.479 .1385E	640.008 .3653E	-8 640.003 .1460E
$ \mathbf{v}_i \mathbf{o} - \mathbf{c} \mathbf{E}_i'' S_i $	787.27866 153 290.385 .7383E-02	787.28383 290.380 .3691E-02 1	787.30578 1024.109 .1070E-03	787.33000 1024.103 .4271E-03	787.36516 -18 253.973 .8816E-02	787.37262 120 253.968 .2204E-02	787.38042 982.758 .1258E-03	787.40351 982.752 .5021E-03	787.45263 942.692 .1465E-03	787.45684 226.772 2554E-02	787.46110 -47 226.767 .1022E-01	787.47459 942.686 .5852E-03	787.52244 903.911 .1692E-03	787.54323 903.905 .6754E-03	787.55920 -95 208.778 .5746E-02	787.56493 14 208.772 .1149E-01	787.58984 866.415 .1935E-03	787.60946 866.409 .7731E-0	787.65485 830.206 .2193E-0	787.66865 199.999 .3143E-0	787.67163 -37 199.994 .1257E-0	787.67328 830.201 .8756E-0	787.71746 795.285 .2459E-C	787.73470 -55 795.279 .9827E-(787.7770 761.651 .2731E-(787.78884 68 200.430 .1346E-0	787.79172 200.425 .3365E-0	787.79373 -421* 761.646 .1090E-0	787.83555 729.306 .2995E-0	787.85038 -14 729.301 .1197E-0	787.89104 698.250 .3244E-03	787.90466 -362* 698.245 .1296E-0	787.92325 421.161 .1798E-0	787.92489 -6 421.156 .3595E-	787.94416 668.484 .3467F	787.95658 -66 668.479 .1385E	787.99493 640.008 .3653E	788.00615 -8 640.003 .1460E
σ ν; ο-c Ε" Si	<u>3 787.27866 153 290.385 7383E-02</u>	1 787.28383 290.380 .3691E-02 1	3 787.30578 1024.109 .1070E-03	1 787.33000 1024.103 .4271E-03	2 787.36516 -18 253.973 .8816E-02	0 787.37262 120 253.968 .2204E-02	3 787.38042 982.758 .1258E-03	1 787.40351 982.752 .5021E-03	3 787.45263 942.692 .1465E-03	3 787.45684 226.772 .2554E-02	1 787.46110 -47 226.767 .1022E-01	1 787.47459 942.686 .5852E-03	3 787.52244 903.911 .1692E-03	1 787.54323 903.905 .6754E-03	2 787.55920 -95 208.778 .5746E-02	0 787.56493 14 208.772 .1149E-01	3 787.58984 866.415 .1935E-03	1 787.60946 866.409 7731E-0	3 787.65485 830.206 .2193E-0	3 787.66865 199.999 .3143E-0	1 787.67163 -37 199.994 .1257E-0	1 787.67328 830.201 .8756E-0	3 787.71746 795.285 .2459E-C	1 787.73470 -55 795.279 .9827E-(3 787.7770 761.651 .2731E-(2 787.78884 68 200.430 .1346E-0	0 787.79172 200.425 .3365E-0	1 787.79373 -421* 761.646 .1090E-0	3 787.83555 729.306 .2995E-0	1 787.85038 -14 729.301 .1197E-0	3 787.89104 698.250 .3244E-0	1 787.90466 -362* 698.245 .1296E-0	2 787.92325 421.161 .1798E-0	0 787.92489 -6 421.156 .3595E-	3 787.94416 668.484 .3467F	1 787.95658 -66 668.479 .1385E	3 787.99493 640.008 .3653E	1 788.00615 -8 640.003 .1460E
]σν; ο-c Ε" S	20 3 787.27866 153 290.385 7383E-02	20 1 787.28383 290.380 .3691E-02 1	32 3 787.30578 1024.109 .1070E-03	32 1 787.33000 1024.103 .4271E-03	18 2 787.36516 -18 253.973 .8816E-02	18 0 787.37262 120 253.968 .2204E-02	31 3 787.38042 982.758 .1258E-03	31 1 787.40351 982.752 .5021E-03	30 3 787.45263 942.692 .1465E-03	16 3 787.45684 226.772 .2554E-02	16 1 787.46110 -47 226.767 .1022E-01	30 1 787.47459 942.686 .5852E-03	29 3 787.52244 903.911 .1692E-03	29 1 787.54323 903.905 .6754E-03	14 2 787.55920 -95 208.778 .5746E-02	14 0 787.56493 14 208.772 .1149E-01	1 28 3 787.58984 866.415 .1935E-03	3 28 1 787.60946 866.409 7731E-0	3 27 3 787.65485 830.206 .2193E-0	7 12 3 787.66865 199.999 .3143E-0	7 12 1 787.67163 -37 199.994 .1257E-0	3 27 1 787.67328 830.201 .8756E-0	3 26 3 787.71746 795.285 .2459E-C	3 26 1 787.73470 -55 795.279 .9827E-(§ 25 3 787.77770 761.651 .2731E-(3 10 2 787.78884 68 200.430 .1346E-0	3 10 0 787.79172 200.425 .3365E-0	3 25 1 787.79373 -421* 761.646 .1090E-0	3 24 3 787.83555 729.306 .2995E-0	3 24 1 787.85038 -14 729.301 .1197E-0	3 23 3 787.89104 698.250 .3244E-0	3 23 1 787.90466 -362* 698.245 .1296E-0	0 25 2 787.92325 421.161 .1798E-0	0 25 0 787.92489 -6 421.156 .3595E-	3 22 3 787.94416 668.484 .3467F	3 22 1 787.95658 -66 668.479 .1385E	3 21 3 787.99493 640.008 .3653E	3 21 1 788.00615 -8 640.003 .1460E
K] σ ν_i o-c E'' S_i	3 20 3 787.27866 153 290.385 7383E-02	3 20 1 787.28383 290.380 .3691E-02 1	13 32 3 787.30578 1024.109 .1070E-03	13 32 1 787.33000 1024.103 .4271E-03	4 18 2 787.36516 -18 253.973 .8816E-02	4 18 0 787.37262 120 253.968 .2204E-02	13 31 3 787.38042 982.758 .1258E-03	13 31 1 787.40351 982.752 .5021E-03	13 30 3 787.45263 942.692 .1465E-03	5 16 3 787.45684 226.772 .2554E-02	5 16 1 787.46110 -47 226.767 .1022E-01	13 30 1 787.47459 942.686 .5852E-03	13 29 3 787.52244 903.911 .1692E-03	13 29 1 787.54323 903.905 .6754E-03	6 14 2 787.55920 -95 208.778 .5746E-02	6 14 0 787.56493 14 208.772 .1149E-01	13 28 3 787.58984 866.415 .1935E-03	13 28 1 787.60946 866.409 7731E-0	13 27 3 787.65485 830.206 .2193E-0	7 12 3 787.66865 199.999 .3143E-0	7 12 1 787.67163 -37 199.994 .1257E-0	0 13 27 1 787.67328 830.201 .8756E-0) 13 26 3 787.71746 795.285 .2459E-C) 13 26 1 787.73470 -55 795.279 .9827E-) 13 25 3 787.7770 761.651 .2731E-(8 10 2 787.78884 68 200.430 .1346E-0	8 10 0 787.79172 200.425 .3365E-0) 13 25 1 787.79373 -421* 761.646 .1090E-0) 13 24 3 787.83555 729.306 2995E-0) 13 24 1 787.85038 -14 729.301 .1197E-0) $13\ 23\ 3\ 787.89104$ 698.250 .3244E-0) 13 23 1 787.90466 -362* 698.245 .1296E-0	1 0 25 2 787.92325 421.161 .1798E-0	1 0 25 0 787.92489 -6 421.156 .3595E-) 13 22 3 787.94416 668.484 .3467F) 13 22 1 787.95658 -66 668.479 .1385E) 13 21 3 787.99493 640.008 .3653E) 13 21 1 788.00615 -8 640.003 .1460E
$\Delta J K J \sigma \nu; o^{-c} E'' S_i$	-1 3 20 3 787.27866 153 290.385 .7383E-02	-1 3 20 1 787.28383 290.380 .3691E-02 1	0 13 32 3 787.30578 1024.109 .1070E-03	0 13 32 1 787.33000 1024.103 .4271E-03	-1 4 18 2 787.36516 -18 253.973 .8816E-02	-1 4 18 0 787.37262 120 253.968 .2204E-02	0 13 31 3 787.38042 982.758 .1258E-03	0 13 31 1 787.40351 982.752 .5021E-03	0 13 30 3 787.45263 942.692 .1465E-03	-1 5 16 3 787.45684 226.772 2554E-02	-1 5 16 1 787.46110 -47 226.767 .1022E-01	0 13 30 1 787.47459 942.686 .5852E-03	0 13 29 3 787.52244 903.911 .1692E-03	0 13 29 1 787.54323 903.905 .6754E-03	-1 6 14 2 787.55920 -95 208.778 .5746E-02	-1 6 14 0 787.56493 14 208.772 .1149E-01	0 13 28 3 787.58984 866.415 .1935E-03	0 13 28 1 787.60946 866.409 .7731E-0	0 13 27 3 787.65485 830.206 .2193E-0	-1 7 12 3 787.66865 199.999 .3143E-0	-1 7 12 1 787.67163 -37 199.994 .1257E-0	0 13 27 1 787.67328 830.201 .8756E-0	0 13 26 3 787.71746 795.285 .2459E-C	0 13 26 1 787.73470 -55 795.279 .9827E-	0 13 25 3 787.7770 761.651 .2731E-(-1 8 10 2 787.78884 68 200.430 .1346E-0	-1 8 10 0 787.79172 200.425 .3365E-0	0 13 25 1 787.79373 -421* 761.646 .1090E-0	0 13 24 3 787.83555 729.306 .2995E-0	0 13 24 1 787.85038 -14 729.301 .1197E-0	0 13 23 3 787.89104 698.250 .3244E-0	0 13 23 1 787.90466 -362* 698.245 .1296E-0	-1 0 25 2 787.92325 421.161 .1798E-0	-1 0 25 0 787.92489 -6 421.156 .3595E-	0 13 22 3 787.94416 668.484 .3467F	0 13 22 1 787.95658 -66 668.479 .1385E	0 13 21 3 787.99493 640.008 .3653E	0 13 21 1 788.00615 -8 640.003 .1460E
$\Delta K \Delta J K J \sigma \nu_i o^{-c} E'' S_i$	-1 -1 3 20 3 787.27866 153 290.385 7383E-02	-1 -1 3 20 1 787.28383 290.380 .3691E-02 1	-1 0 13 32 3 787.30578 1024.109 .1070E-03	-1 0 13 32 1 787.33000 1024.103 .4271E-03	-1 -1 4 18 2 787.36516 -18 253.973 .8816E-02	-1 -1 4 18 0 787.37262 120 253.968 .2204E-02	-1 0 13 31 3 787.38042 982.758 .1258E-03	-1 0 13 31 1 787.40351 982.752 .5021E-03	-1 0 13 30 3 787.45263 942.692 .1465E-03	-1 -1 5 16 3 787.45684 226.772 2554E-02	-1 -1 5 16 1 787.46110 -47 226.767 .1022E-01	-1 0 13 30 1 787.47459 942.686 .5852E-03	-1 0 13 29 3 787.52244 903.911 .1692E-03	-1 0 13 29 1 787.54323 903.905 .6754E-03	-1 -1 6 14 2 787.55920 -95 208.778 .5746E-02	-1 -1 6 14 0 787.56493 14 208.772 .1149E-01	-1 0 13 28 3 787.58984 866.415 .1935E-03	-1 0 13 28 1 787.60946 866.409 .7731E-0	-1 0 13 27 3 787.65485 830.206 .2193E-0	-1 -1 7 12 3 787.66865 199.999 .3143E-0	-1 -1 7 12 1 787.67163 -37 199.994 .1257E-0	-1 0 13 27 1 787.67328 830.201 .8756E-0	-1 0 13 26 3 787.71746 795.285 .2459E-C	-1 0 13 26 1 787.73470 -55 795.279 .9827E-	-1 0 13 25 3 787.7770 761.651 .2731E-(-1 -1 8 10 2 787.78884 68 200.430 .1346E-0	-1 -1 8 10 0 787.79172 200.425 .3365E-0	-1 0 13 25 1 787.79373 -421* 761.646 .1090E-0	-1 0 13 24 3 787.83555 729.306 .2995E-0	-1 0 13 24 1 787.85038 -14 729.301 .1197E-0	-1 0 13 23 3 787.89104 698.250 .3244E-0	-1 0 13 23 1 787.90466 -362* 698.245 .1296E-0	1 -1 0 25 2 787.92325 421.161 .1798E-0	1 -1 0 25 0 787.92489 -6 421.156 .3595E-	-1 0 13 22 3 787.94416 668.484 .3467F	-1 0 13 22 1 787.95658 -66 668.479 .1385E	-1 0 13 21 3 787.99493 640.008 .3653E	-1 0 13 21 1 788.00615 -8 640.003 .1460E

1.000 .976 $\begin{array}{c} ..980\\ ..986\\ ..987\\ ..987\\ ..983\\ ..983\\ ..983\\ ..986\\ ..986\\ ..986\\ ..986\\ ..986\\ ..986\\ ..990\\ ..992\\ ..$.991 .995 .992 .994 .995 .995 .995 .995 966. .983 1.005 .978 .984 W 2896E-02 1162E-02 5571E-03 1309E-02 7329E-03 6418E-02 1458E-02 8080E-03 1609E-02 3478E-02 8816E-03 [756E-02 9492E-03 [891E-02 1493E-01 1008E-02 3734E-02 2011E-02 1055E-02 2104E-02 1086E-02 2165E-02 1094E-02 2182E-02 I075E-02 2146E-02 (023E-02 2041E-02 **301E-03** 1857E-02 2254E-02 4508E-02 2543E-02 1021E-02 5838E-03 [391E-01 1158E-01 284E-01 Ś 711.316 779.878 711.310 678.967 678.962 647.908 618.139 618.134 562.472562.467536.576 511.966 445.913 86.593 86.588 779.872 44.953 744.947 173.779 173.773 70.182 70.177 647.903 175.797 589.660 175.792 589.655 536.570 188.659 488.653 **166.639** 466.634 445.908 357.717 208.612816.084 511.971 357.712 È -242* 246* -335* -176* -112 -150 -18 23 23 ŝ 99 -40 -22 40 73 -36 œ -12 -22 33 -22 33 34 20 -11 0 0 -16 č 790.11636 790.11994 790.24056 790.21380 90.31218 90.64156 '90.65502 790.70490 790.05895 790.12196 790.14319 790.18249 790.20940 790.26186 790.29618 790.37098 790.40015 90.47060 '90.49452 90.53815 90.57943 790.61838 '90.67844 790.20372 790.30986 790.34937 790.42198 790.42236 790.44853 90.51687 90.56078 90.60234 790.68937 90.70328 790.04012790.08025 790.31761 790.42081 ž 0 000000 00000000 3 0 0 0 2 \sim ь 8 8 8 8 8 8 ° 52 58 12 12 25 25 10 24 25 10 21 œ 21 ର ର 19 19 18 8 5 16 16 15 នន ~ 12 0 0 12 12 12 7 7 12 12 12 5 5 5 12 12 12 12 12 12 12 12 12 12 12 0 0 12 œ œ 2 2 2 \geq 00 00 0 0 0 0 0 0 2 7 ΔK 000.1 1.000 .969 .963 .971 .050 .972 .023 .023 000. .051 980 974 .001 981 011 00 N 3547E-02 2021E-02 4042E-02 1726E-02 4306E-03 3308E-03 1531E-02 6129E-02 5642E-03 2254E-02 6583E-03 3864E-03 7243E-02 812E-02 7682E-03 4476E-03 8683E-02 4342E-02 8897E-03 1152E-03 1177E-02 4604E-03 1884E-03 5879E-03 5588E-03 5133E-03 [639E-03 3258E-03 1977E-03 3931E-03 2367E-03 4706E-03 2808E-03 7554E-03 3316E-02 1326E-01 [419E-01 1017E-01 Ś 716.034 973.794 932.445 329.944 456.836 456.830 932.439 892.374 280.299 280.294 853.589 816.090 184.438 187.466 388.794 388.789 534.06084.443 1060.361 1016.439 973.800 716.040 820.778 620.467 820.773 534.055 329.949 392.369 239.857 239.851 853.584 208.618 187.461 105.565 105.559 060.355 016.433 620.461 Ē 616^{*} -39 118 136 109 с, -92 -38 -14 Ģ 22 5 -48 40 89.89618 89.83014 89.95736 89.99346 89.77905 89.78930 89.81299 89.94713 789.10590 89.75850 89.76225 89.80430 89.81783 89.82316 89.87693 89.88891 789.92547 190.03389 788.99033 788.99297 789.10809 789.31508 789.31671 789.48924 89.54764 89.57170 89.62829 89.65169 89.70639 89.72922 89.74801 89.74805 89.75521 89.75544 89.78195 89.85497 80.96187 '90.01490 Ľ 0 8 0 8 0 8 0 8 0 8 000000000000000 2 \sim 0 3 0 3 0 ь 18 18 $\begin{smallmatrix} & 0 \\ & 0 \\ & 355 \\ & 335 \\ & 333$ $222 \\ 222$ 23 30 28 28 32 32 32 34 32 33 2222 12 2 12 2 2 **% % O** \circ 5 2 2 4 ഹം ŝ 4 3 3 12 4 1 X ٦ 7 Ч 7 7 4 - ΔK

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E'II	207 095	970.146	927.509	927.503	886.150	886.144	846.076	846.070	807.287	807.281	769.784	544.141	634.573	769.779	544.135	734.176	634.567	462.883	734.170	462.877	842.934	842.928	274.250	390.813	274.245	390.807	733.568	733.563	229.770	229.764	698.640	698.635	194.500	194.495	665.000	664.994	168.438	168.432
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W.	908	.067 766.	666.	666.	1.000	1.000	.903	.892	606.	.892	.902	908	.868	.911	.866	.910	1.123	.791	1.124	.790	1.045	1.045	1.020	1.020	1.009	1.009	1.004	1.004	1.001	1.001	1.000	1.000	996.	.964	968.	.966	.970	1.000
S.	7896F-03 998	.1578E-02 .997	.5946E-03 .999	.1189E-02 .999	.3351E-03 1.000	.6701E-03 1.000	.8928E-03 .903	.1375E-02 .892	.1380E-03 .909	.6873E-03 .892	.2230E-03 .902	.5515E-03 .908	.1997E-02 .868	.1627E-03 .911	.4980E-03 .866	.3249E-03 .910	.1666E-02 1.123	.6506E-03 .791	.6672E-02 1.124	.2599E-02 .790	.7841E-02 1.045	.1960E-02 1.045	.9310E-02 1.020	.4655E-02 1.020	.1080E-01 1.009	.2701E-02 1.009	.3051E-02 1.004	.1220E-01 1.004	.6720E-02 1.001	.1344E-01 1.001	.3639E-02 1.000	.1455E-01 1.000	.1047E-03 .966	.4180E-03 .964	.1265E-03 .968	.5050E-03 .966	.1517E-03 .970	.2493E-02 1.000
E'' S. W.	426.480 7896F-03 998	426.475 .1578E-02 .997	408.341 . $5946E-03$. 999	408.336 .1189E-02 .999	391.497 .3351E-03 1.000	391.491 .6701E-03 1.000	674.664 .8928E-03 .903	581.661 .1375E-02 .892	776.835 .1380E-03 .909	581.655 .6873E-03 .892	674.658 .2230E-03 .902	776.830 .5515E-03 .908	497.827 .1997E-02 .868	888.158 .1627E-03 .911	497.822 .4980E-03 .866	888.152 .3249E-03 .910	301.454 .1666E-02 1.123	423.180 .6506E-03 .791	301.449 .6672E-02 1.124	423.174 .2599E-02 .790	254.388 .7841E-02 1.045	254.383 .1960E-02 1.045	216.532 .9310E-02 1.020	216.526 .4655E-02 1.020	187.881 .1080E-01 1.009	187.875 .2701E-02 1.009	168.446 .3051E-02 1.004	108.440 .1220E-UI 1.004	158.222 .6720E-02 1.001	158.216 .1344E-01 1.001	157.217 .3639E-02 1.000	157.212 .1455E-01 1.000	1059.286 .1047E-03 .966	1059.280 .4180E-03 .964	1014.078 .1265E-03 .968	1014.072 .5050E-03 .966	970.152 .1517E-03 .970	327.931 .2493E-02 1.000
	426 480 7896F-03 998	7 426.475 .1578E-02 .997	408.341 .5946E-03 .999	-8 408.336 .1189E-02 .999	391.497 .3351E-03 1.000	152 391.491 .6701E-03 1.000	185* 674.664 .8928E-03 .903	-97 581.661 .1375E-02 .892	776.835 .1380E-03 .909	581.655 .6873E-03 .892	674.658 .2230E-03 .902	-162 776.830 .5515E-03 .908	34 497.827 .1997E-02 .868	888.158 .1627E-03 .911	497.822 .4980E-03 .866	888.152 .3249E-03 .910	301.454 .1666E-02 1.123	423.180 .6506E-03 .791	-55 301.449 .6672E-02 1.124	55 423.174 .2599E-02 .790	-20 254.388 .7841E-02 1.045	100 254.383 .1960E-02 1.045	107 216.532 .9310E-02 1.020	216.526 .4655E-02 1.020	-14 187.881 .1080E-01 1.009	187.875 .2701E-02 1.009	168.446 .3051E-02 1.004	-01 105.440 .1220E-01 1.004	158.222 .6720E-02 1.001	147 158.216 .1344E-01 1.001	157.217 .3639E-02 1.000	-51 157.212 .1455E-01 1.000	1059.286 .1047E-03 .966	1059.280 .4180E-03 .964	1014.078 .1265E-03 .968	1014.072 .5050E-03 .966	970.152 .1517E-03 .970	327.931 .2493E-02 1.000
μ: ο-τ Ε." S. W.	790.71299 426.480 7896F-03 998	790.72145 7 426.475 .1578E-02 .997	790.74521 408.341 .5946E-03 .999	790.75128 -8 408.336 .1189E-02 .999	790.77511 391.497 .3351E-03 1.000	790.77887 152 391.491 .6701E-03 1.000	791.10821 185* 674.664 .8928E-03 .903	791.11103 -97 581.661 .1375E-02 .892	791.11250 776.835 .1380E-03 .909	791.11771 581.655 .6873E-03 .892	791.11816 674.658 .2230E-03 .902	791.11956 -162 776.830 .5515E-03 .908	791.12970 34 497.827 .1997E-02 .868	791.13037 888.158 .1627E-03 .911	791.13932 497.822 .4980E-03 .866	791.14070 888.152 .3249E-03 .910	791.16204 301.454 .1666E-02 1.123	791.16655 423.180 .6506E-03 .791	791.16665 -55 301.449 .6672E-02 1.124	791.17308 55 423.174 .2599E-02 .790	791.23028 -20 254.388 .7841E-02 1.045	791.23705 100 254.383 .1960E-02 1.045	(91.2934) 107 216.532 .9310E-02 1.020	791.29761 216.526 .4655E-02 1.020	791.36504 -14 187.881 .1080E-01 1.009	791.37069 187.875 .2701E-02 1.009	791.44290 168.446 .3051E-02 1.004	191.4401/ -01 105.440 .1220E-01 1.004	791.53129 158.222 .6720E-02 1.001	791.53509 147 158.216 .1344E-01 1.001	791.62723 157.217 .3639E-02 1.000	791.62926 -51 157.212 .1455E-01 1.000	791.92059 1059.286 .1047E-03 .966	791.94299 1059.280 .4180E-03 .964	792.00397 1014.078 .1265E-03 .968	792.02552 1014.072 .5050E-03 .966	792.08485 970.152 .1517E-03 .970	792.08781 327.931 .2493E-02 1.000
d v: n-c F() S. W.	2 790.71299 426 480 7896F-03 998	0 790.72145 7 426.475 .1578E-02 .997	2 790.74521 408.341 .5946E-03 .999	0 790.75128 -8 408.336 .1189E-02 .999	2 790.77511 391.497 .3351E-03 1.000	0 790.77887 152 391.491 .6701E-03 1.000	2 791.10821 185* 674.664 .8928E-03 .903	3 791.11103 -97 581.661 .1375E-02 .892	3 791.11250 776.835 .1380E-03 .909	1 791.11771 581.655 .6873E-03 .892	0 791.11816 674.658 .2230E-03 .902	1 791.11956 -162 776.830 .5515E-03 .908	2 791.12970 34 497.827 .1997E-02 .868	2 791.13037 888.158 .1627E-03 .911	0 791.13932 497.822 .4980E-03 .866	0 791.14070 888.152 .3249E-03 .910	3 791.16204 301.454 .1666E-02 1.123	3 791.16655 423.180 .6506E-03 .791	1 791.16665 -55 301.449 .6672E-02 1.124	1 791.17308 55 423.174 .2599E-02 .790	2 791.23028 -20 254.388 .7841E-02 1.045	U 791.23705 100 254.383 .1960E-02 1.045	3 (91.29341 107 216.532 .9310E-02 1.020	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2 791.36504 -14 187.881 .1080E-01 1.009	0 791.37069 187.875 .2701E-02 1.009	3 791.44290 168.446 .3051E-02 1.004	1 /91.4401/ -01 105.44U .1Z2UE-UI 1.004	2 791.53129 158.222 .6720E-02 1.001	0 791.53509 147 158.216 .1344E-01 1.001	3 791.62723 157.217 .3639E-02 1.000	1 791.62926 -51 157.212 .1455E-01 1.000	3 791.92059 1059.286 .1047E-03 .966	1 791.94299 1059.280 .4180E-03 .964	3 792.00397 1014.078 .1265E-03 .968	1 792.02552 1014.072 .5050E-03 .966	3 792.08485 970.152 .1517E-03 .970	2 792.08781 327.931 .2493E-02 1.000
	14 2 790.71299 426.480 7896F_03 998	14 0 790.72145 7 426.475 .1578E-02 .997	13 2 790.74521 408.341 .5946E-03 .999	13 0 790.75128 -8 408.336 .1189E-02 .999	12 2 790.77511 391.497 .3351E-03 1.000	12 0 790.77887 152 391.491 .6701E-03 1.000	31 2 791.10821 185* 674.664 .8928E-03 .903	29 3 791.11103 -97 581.661 .1375E-02 .892	33 3 791.11250 776.835 .1380E-03 .909	29 1 791.11771 581.655 .6873E-03 .892	31 0 791.11816 674.658 .2230E-03 .902	33 1 791.11956 -162 776.830 .5515E-03 .908	27 2 791.12970 34 497.827 .1997E-02 .868	35 2 791.13037 888.158 .1627E-03 .911	27 0 791.13932 497.822 .4980E-03 .866	35 0 791.14070 888.152 .3249E-03 .910	21 3 791.16204 301.454 .1666E-02 1.123	25 3 791.16655 423.180 .6506E-03 .791	21 1 791.16665 -55 301.449 .6672E-02 1.124	25 1 791.17308 55 423.174 .2599E-02 .790	19 2 791.23028 -20 254.388 .7841E-02 1.045	19 U 791.23705 100 254.383 .1960E-02 1.045	1/ 3 (91.2934) 107 216.532 .9310E-02 1.020	17 1 791.29761 216.526 .4655E-02 1.020	15 2 791.36504 -14 187.881 .1080E-01 1.009	15 0 791.37069 187.875 .2701E-02 1.009	13 3 791.44290 168.446 .3051E-02 1.004	13 I /91.4401/ -01 105.440 .1220E-01 1.004	11 2 791.53129 158.222 .6720E-02 1.001	11 U 791.53509 147 158.216 .1344E-01 1.001	9 3 791.62723 157.217 .3639E-02 1.000	9 1 791.62926 -51 157.212 .1455E-01 1.000	$35 \ 3 \ 791.92059 \ 1059.286 \ .1047E-03 \ .966$	35 1 791.94299 1059.280 .4180E-03 .964	34 3 792.00397 1014.078 .1265E-03 .968	34 1 792.02552 1014.072 .5050E-03 .966	33 3 792.08485 970.152 .1517E-03 .970	22 2 792.08781 327.931 .2493E-02 1.000
KJa v: o-c E'' S. W.	12 14 2 790.71299 426.480 7896F-03 008	12 14 0 790.72145 7 426.475 .1578E-02 .997	12 13 2 790.74521 408.341 .5946E-03 .999	12 13 0 790.75128 -8 408.336 .1189E-02 .999	12 12 2 790.77511 391.497 .3351E-03 1.000	12 12 0 790.77887 152 391.491 .6701E-03 1.000	4 31 2 791.10821 185* 674.664 .8928E-03 .903	3 29 3 791.11103 -97 581.661 .1375E-02 .892	5 33 3 791.11250 776.835 .1380E-03 .909	3 29 1 791.11771 581.655 .6873E-03 .892	4 31 0 791.11816 674.658 .2230E-03 .902	5 33 1 791.11956 -162 776.830 .5515E-03 .908	2 27 2 791.12970 34 497.827 .1997E-02 .868	6 35 2 791.13037 888.158 .1627E-03 .911	2 27 0 791.13932 497.822 .4980E-03 .866	$6\ 35\ 0\ 791.14070$ 888.152 $.3249E-03$ $.910$	1 21 3 791.16204 301.454 .1666E-02 1.123	1 25 3 791.16655 423.180 .6506E-03 .791	1 21 1 791.16665 -55 301.449 .6672E-02 1.124	1 25 1 791.17308 55 423.174 .2599E-02 .790	2 19 2 791.23028 -20 254.388 .7841E-02 1.045	2 19 0 791.23705 100 254.383 .1960E-02 1.045	3 1/ 3 791.29341 107 216.532 .9310E-02 1.020	$3 \ 17 \ 1 \ 791.29761 \ 216.526 \ .4655E-02 \ 1.020$	4 15 2 791.36504 -14 187.881 .1080E-01 1.009	4 15 0 791.37069 187.875 .2701E-02 1.009	5 13 3 791.44290 168.446 .3051E-02 1.004	0 10 1 / 01.4401/ -01 105.440 .1220E-01 1.004	6 11 2 791.53129 158.222 .6720E-02 1.001	0 11 0 791.53509 147 158.216 .1344E-01 1.001	<u>7</u> 9 3 791.62723 157.217 .3639E-02 1.000	7 9 1 791.62926 -51 157.212 .1455E-01 1.000	11 35 3 791.92059 1059.286 .1047E-03 .966	11 35 1 791.94299 1059.280 .4180E-03 .964	11 34 3 792.00397 1014.078 .1265E-03 .968	11 34 1 792.02552 1014.072 .5050E-03 .966	11 33 3 792.08485 970.152 .1517E-03 .970	0 22 2 792.08781 327.931 .2493E-02 1.000
$\Delta J K J \sigma \qquad v = o - c E'' \qquad S \qquad W$	0 12 14 2 790.71299 426.480 7896F-03 998	0 12 14 0 790.72145 7 426.475 .1578E-02 .997	0 12 13 2 790.74521 408.341 .5946E-03 .999	0 12 13 0 790.75128 -8 408.336 .1189E-02 .999	0 12 12 2 790.77511 391.497 .3351E-03 1.000	0 12 12 0 790.77887 152 391.491 .6701E-03 1.000	-1 4 31 2 791.10821 185* 674.664 .8928E-03 .903	-1 3 29 3 791.11103 -97 581.661 .1375E-02 .892	-1 5 33 3 791.11250 776.835 .1380E-03 .909	-1 3 29 1 791.11771 581.655 .6873E-03 .892	-1 4 31 0 791.11816 674.658 .2230E-03 .902	-1 5 33 1 791.11956 -162 776.830 .5515E-03 .908	-1 2 27 2 791.12970 34 497.827 .1997E-02 .868	-1 6 35 2 791.13037 888.158 .1627E-03 .911	-1 2 27 0 791.13932 497.822 .4980E-03 .866	-1 6 35 0 791.14070 888.152 .3249E-03 .910	-1 1 21 3 791.16204 301.454 .1666E-02 1.123	-1 1 25 3 791.16655 423.180 .6506E -03 .791	-1 1 21 1 791.16665 -55 301.449 .6672E-02 1.124	-1 1 25 1 791.17308 55 423.174 .2599E-02 .790	-1 2 19 2 791.23028 -20 254.388 .7841E-02 1.045	-1 2 19 0 791.23705 100 254.383 .1960E-02 1.045	-1 3 1/ 3 (91.2934) 107 216.532 .9310E-02 1.020	-1 3 17 1 791.29761 216.526 .4655E-02 1.020	-1 4 15 2 791.36504 -14 187.881 .1080E-01 1.009	-1 4 15 0 791.37069 187.875 .2701E-02 1.009	-1 5 13 3 791.44290 168.446 .3051E-02 1.004	-1 0 10 1 /91.4401/ -01 100.440 .1220E-01 1.004	-1 0 11 2 791.53129 158.222 .6720E-02 1.001	-1 0 11 U 791.53509 147 158.216 .134E-01 1.001	-1 7 9 3 791.62723 157.217 .3639E-02 1.000	-1 7 9 1 791.62926 -51 157.212 .1455E-01 1.000	0 11 35 3 791.92059 1059.286 .1047E-03 .966	0 11 35 1 791.94299 1059.280 .4180E-03 .964	0 11 34 3 792.00397 1014.078 .1265E-03 .968	0 11 34 1 792.02552 1014.072 .5050E-03 .966	0 11 33 3 792.08485 970.152 .1517E-03 .970	-1 0 22 2 792.08781 327.931 .2493E-02 1.000

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W _i	.905	.886	.913	.884	.918	.917	.822	1.100	.820	1.101	.920	.919	.920	.920	1.035	1.035	1.014	1.015	1.006	1.006	1.002	1.002	1.000	1.000	1.000	1.000	.961	.957	.964	<u>.960</u>	996.	.962	968	.964	026.	.967	.972	.969
$S_{\mathbf{i}}$.9151E-03	.2604E-02	.3043E-03	.6495E-03	.1931E-03	.7714E-03	.8412E-03	.1930E-02	.3357E-02	.7726E-02	.2338E-03	.4670E-03	.6756E-04	.2703E-03	,.8962E-02	.2240E-02	.1044E-01	.5226E-02	.1192E-01	.2979E-02	.3317E-02	.1327E-01	.7259E-02	.1452E-01	.3964E-02	.1586E-01	.5227E-03	.1301E-03	.6329E-03	.1576E-03	.7596E-03	.1891E-03	.9048E-03	.2253E-03	.1069E-02	.2665E-03	.1254E-02	.3124E-03
E_i''	507.903	429.227	595.762	429.221	692.801	692.795	359.736	248.339	359.730	248.334	798.993	798.987	914.341	914.335	206.444	206.439	173.762	173.757	150.290	150.284	136.035	136.030	130.995	130.989	135.175	135.169	1017.019	1017.013	971.806	971.801	927.877	927.871	885.230	885.224	843.868	843.862	803.790	803.785
5-0		-81							-68	-77					9		-20		45			48		109		-23					-40		œ		œ		26	
Ŀ,	793.82447	793.82711	793.83324	793.83555	793.83712	793.84353	793.85046	793.85211	793.85616	793.85626	793.86287	793.87224	793.89467	793.90147	793.90612	793.91192	793.95893	793.96255	794.02083	794.02542	794.08950	794.09220	794.16854	794.17129	794.25536	794.25691	794.37922	794.42185	794.46321	794.50439	794.54468	794.58437	794.62362	794.66179	794.70006	794.73665	794.77400	794.80898
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$\Delta K \ \Delta$			-	-		1		- -		-	-		1		-1	-	;	7	1		7	7	-	-1		-1	-	-1		;		-1	-1	-			-	-1-
W.	.986	.985	786.	1.003	986.	1.003	988.	988.	1.001	1.001	066.	986.	.991	066.	1.000	1.000	.992	.992	.994	.993	.995	<u>-994</u>	966.	395	799.	966.	966.	<u> 766</u> .	966.	966 .	666.	666.	1.000	1.000	1.000	1.000	906.	.914
ŝ	.5313E-03	.2123E-02	.5821E-03	.3192E-02	.2326E-02	.1277E-01	.6306E-03	.2522E-02	.7004E-02	.1401E-01	.6755E-03	.2699E-02	.7132E-03	.2850E-02	.3798E-02	.1519E-01	.7418E-03	.2967E-02	.7592E-03	.3034E-02	.7605E-03	.3039E-02	.7431E-03	.2970E-02	.7032E-03	.2810E-02	.6364E-03	.2543E-02	.5378E-03	.2151E-02	.4034E-03	.1613E-02	.2265E-03	.9060E-03	.2733E-02	.5467E-02	.1832E-02	.1218E-02
E!'	632,649	632.643	601.587	151.593	601.581	151.588	571.815	571.809	143.960	143.955	543.333	543.328	516.143	516.137	145.548	145.542	490.244	490.239	465.637	465.632	442.323	442.317	420.301	420.296	399.573	399.567	380.138	380.133	361.997	361.992	345.151	345.146	329.600	329.594	299.435	299.430	507.909	595.767
ې ا		-12	69-	2	-30	-65	1	-21	(125		-29		-23		-35		58		15		-22		28		14		-63		-73		9		-51	;	0	-48	197*
ä	792 70190	792.71442	792.75829	792 76729	792.76990	792.77026	792.81227	792.82298	792.85101	792.85426	792.86386	792.87367	792.91304	792.92198	792.94240	792.94417	792.95985	792.96792	793.00427	793.01150	793.04632	793.05273	793.08600	793.09162	793.12332	793.12817	793.15827	793.16240	793.19088	793.19430	793.22114	793.22390	793.24905	793.25119	793.46865	793.47025	793.81848	793.82433
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ΔΚΔ	l r	Y J	ь	'n	ş	E''_i	$S_{\mathbf{i}}$	W,	ΔΚΔ	J k	ſ	ь	Vi	j	E''	S.	W.
-	0	10 29	5	794.84544	86	764.998	.1458E-02	.974	-1	0	0 21	2	795.32848	29	501.023	.3514E-02	.988
1	7	0 20	5	794.84576		272.232	.2971E-02	1.000	7	-1	4 12	2	795.34545	61	133.436	.1237E-01	1.005
	-1	0 20	0	794.84736	2	272.226	.5941E-02	1.000	-1	0	0 21	0	795.34805		501.017	.8766E-03	986.
-1	0	10 29	0	794.87879		764.993	.3633E-03	126.	-1-	-1	4 12	0	795.34955		133.431	.3094E-02	1.005
-1	0	10 28	5	794.91441	63	727.492	.1681E-02	976.	7	0	0 20	2	795.37793	23	473.830	.3737E-02	98 6.
-	0	10 28	0 ¹	794.94609		727.487	.4190E-03	.973		0	0 20	0	795.39576	31	473.824	.9333E-03	988.
-1	0	10 27	2	794.98091	16	691.274	.1922E-02	978.			5 10	°,	795.40952		121.773	.3425E-02	1.001
-1	0	10 27	0	795.01089		691.268	.4791E-03	.975		-	5 10	1	795.41196	-51	121.768	.1370E-01	1.001
-	0	10 26	5	795.04494	29	656.342	.2179E-02	.980	-1	0	0 19	2	795.42496	17	447.929	.3926E-02	166.
-1	0	10 26	0	795.07321		656.337	.5430E-03	.977	7	0	0 19	0	795.44108	-7	447.923	.9794E-03	.989
-	0	10 25	5	795.10652	9	622.699	.2447E-02	.982	-1-	0	0 18	2	795.46960	-37	423.320	.4059E-02	.992
-1	0	10 25	0	795.13306		622.694	.6098E-03	<u>979.</u>		-	6 8	7	795.48388		119.325	.7505E-02	1.000
7	0	10 24	5	795.16566	16	590.345	.2719E-02	.983		0	0 18	0	795.48403		423.314	.1014E-02	166.
1	,, 	3 26		795.17000	336*	472.965	.2086E-02	.912	7		6 8	0	795.48617	79	119.319	.1501E-01	1.000
٦	-	2 24	5	795.17373	-37	396.860	.2932E-02	.894		0	0 17	7	795.51185	မှ	400.003	.4125E-02	.993
-	٣	3 26		795.17566		472.959	.1042E-02	.911		0	0 17	0	795.52463	20	399.998	.1030E-02	.992
1	7	4 28	5	795.18016	129	558.249	.1404E-02	919.	-	0	0 16	7	795.55171	4	377.980	.4109E-02	.994
1	-	2 24	0 1	795.18161		396.855	.7313E-03	.892	-1-	0	0 16	0	795.56288	390*	377.974	.1026E-02	.993
		4 28	0	795.18856		558.243	.3507E-03	.918	-	0	0 15	5	795.58920	16	357.250	.3997E-02	966.
-	0	10 24	0	795.19046		590.340	.6784E-03	.981	-	0	0 15	0	795.59879	64	357.244	.9984E-03	.995
	-	1 22	იი ი`	795.19079		329.949	.9420E-03	.836	-	0	0 14	8	795.62431	61	337.813	.3763E-02	766.
-	-	1 18	ლ ~	795.19322		223.720	.2050E-02	1.089	-1	0	0 14	0	795.63239		337.808	.9398E-03	966.
٦		1 22	-	795.19611	10	329.944	.3764E-02	.835	-	0	0 13	7	795.65706	-35	319.671	.3389E-02	.998
7	-	1 18		795.19713	-92	223.715	.8208E-02	1.090	7	0	0 13	0	795.66368		319.666	.8464E-03	766.
1	7	5 30	ლ 	795.19720		652.711	.2256E-03	.923	7	0	0 12	2	795.68744	Ŷ	302.824	.2851E-02	9 66.
-	-1	5 30		795.20330		652.706	.9015E-03	.922	-1	0	0 12	0	795.69268		302.818	.7128E-03	966.
7	0	10 23	~	795.22236	-48	559.281	.2995E-02	.985		0	0 11	3	795.71547	2-	287.271	.2130E-02	666.
	-1	6 32	5	795.22692		756.336	.2767E-03	.924	-	0	0 11	0	795.71939		287.265	.5326E-03	666.
1		6 32	0	795.23582	464*	756.330	.5527E-03	.923		0	0 10	2	795.74115	150	273.013	.1193E-02	1.000
-	7	2 16	5	795.24060	-12	184.412	.9457E-02	1.030		0	0 10	0	795.74384		273.008	.2982E-03	1.000
7	0	10 23	0	795.24541		559.275	.7472E-03	.983		- -	0 19	2	796.21913		246.320	.3199E-02	1.000
-	-	2 16	0	795.24594		184.407	.2364E-02	1.030	1	Ļ	0 19	0	796.22072	6	246.315	.6398E-02	1.000
1	7	7 34	~~	795.26273		869.120	.8106E-04	.924	-	- 7	2 23	3	796.51888	74	365.783	.3271E-02	.902
-	-	7 34		795.26924		869.114	.3239E-03	.923	1		3 25	~	796.51998	-36	439.310	.2354E-02	.918
1	0	10 22	2	795.27663	21	529.506	.3264E-02	.987	1		3 25		796.52532		439.304	.1176E-02	.917
7	-	3 14		795.28837	-38	154.319	.1093E-01	1.012	1		2 23	0	796.52623		365.778	.8169E-03	.901
-	-	3 14		795.29172		154.314	.5466E-02	1.012			1 21	ŝ	796.52992		301.454	.1045E-02	.850
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W.	.975	.974	977	.976	979.	1.000	1.000	.978	.981	.980	.983	.982	.984	.984	.986	.985	.988	.910	786.	1.069	.863	.924	.908	1.069	.862	.923	.929	.928	1.022	.989	1.022	.931	986.	.931	1.008	1.008	.932	.991
S _i	.2379E-02	.1189E-02	.2703E-02	.1350E-02	.3044E-02	.3413E-02	.6826E-02	.1520E-02	.3396E-02	.1696E-02	.3754E-02	.1875E-02	.4104E-02	.2052E-02	.444E-02	.2220E-02	.4760E-02	.3616E-02	.2377E-02	.2254E-02	.1147E-02	.2632E-02	.9021E-03	.9017E-02	.4583E-02	.1315E-02	.1818E-02	.4540E-03	.1027E-01	.5031E-02	.2567E-02	.2996E-03	.2515E-02	.1198E-02	.1167E-01	.5837E-02	.3777E-03	.5252E-02
E''	653.003	652.998	618.069	618.064	584.424	221.701	221.696	584.418	552.067	552.062	521.000	520.995	491.224	491.218	462.737	462.732	435.543	335.997	435.537	178.362	274.250	406.944	335.992	178.357	274.245	406.938	487.075	487.069	144.230	409.640	144.225	576.390	409.634	576.385	119.316	119.311	674.875	385.029
j	32	-84	49	-33	553^{*}		ကို		41	-32	37	4	26	9	44	-28	57	-383*				217*		-69	-184*		89		154	-140					-36			53
2	797.45667	797.46955	797.52142	797.53357	797.58368	797.58872	797.59031	797.59511	797.64348	797.65419	797.70080	797.71081	797.75568	797.76498	797.80810	797.81671	797.85809	797.86249	797.86602	797.86775	797.86775	797.86835	797.86932	797.87121	797.87237	797.87339	797.88710	797.89455	797.90271	797.90564	797.90718	797.91266	797.91291	797.91817	797.94059	797.94344	797.95039	797.95077
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S:	1605E-02	.4175E-02	.8640E-02	.4008E-03	.2611E-03	.1043E-02	.9899E-02	.2475E-02	.3247E-03	.6486E-03	.1135E-01	.5673E-02	.9645E-04	.3854E-03	.1274E-01	.3185E-02	.2191E-03	.5471E-04	.3520E-02	.1408E-01	.7747E-02	.1549E-01	.6390E-03	.3188E-03	.7736E-03	.3864E-03	.9305E-03	.4643E-03	.1110E-02	.5543E-03	.1313E-02	.6559E-03	.1543E-02	.7708E-03	.1798E-02	.8979E-03	.2077E-02	.1037E-02
Eú	522 018	301.449	200.389	522.012	613.908	613.902	163.674	163.669	714.963	714.957	136.170	136.165	825.181	825.175	117.878	117.873	944.544	944.538	108.807	108.802	108.951	108.945	978.773	978.767	933.558	933.552	889.625	889.619	846.975	846.969	805.609	805.603	765.529	765.523	726.733	726.728	689.225	689.219
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S.	.4980E-02	.9878E-03	.2913E-02	.1457E-02	.1055E-01	.2637E-02	2040E-02	.5095E-03	.1190E-01	.5952E-02	.3407E-03	.1363E-02	.1324E-01	.3310E-02	.4351E-03	.8702E-03	.7622E-03	.3664E-02	.1329E-03	.1466E-01	.5312E-03	.1899E-03	.3102E-03	.7755E-04	.9245E-03	.2304E-03	.1733E-03	.8654E-04	.1113E-02	.2774E-03	.1330E-02	.3315E-03	.1576E-02	.3931E-03	.1854E-02	.2657E-06	.4621E-03	.1065E-05
E	248.334	307.497	375.868	375.862	126.081	126.076	453.420	453.415	103.758	103.752	540.161	540.155	90.649	90.643	636.073	636.067	944.544	86.762	741.155	86.757	741.149	944.538	855.389	855.384	899.325	899.320	978.773	978.767	855.389	855.384	812.737	812.731	771.368	771.363	731.285	973.230	731.279	973.224
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S.	.2624E-02	.7546E-03	.1303E-01	.3257E-02	.5398E-02	.1137E-03	.2699E-02	.4547E-03	.5454E-02	.2727E-02	.3596E-02	.1438E-01	.2618E-03	.6538E-04	.5402E-02	.2701E-02	.5226E-02	.8007E-02	.1601E-01	.2611E-02	.4894E-02	.2445E-02	.4388E-02	.2192E-02	.3676E-02	.1838E-02	.2737E-02	.1369E-02	.1529E-02	.7644E-03	.1507E-06	.6087E-06	.3606E-02	.7211E-02	.2332E-02	.1247E-02	.9327E-02	.3955E-02
E!!.	385.023	674.869	103.615	103.610	361.710	782.526	361.705	782.520	339.685	339.680	97.137	97.131	899.325	899.320	318.954	318.948	299.516	99.873	99.868	299.510	281.372	281.367	264.523	264.518	248.969	248.964	234.710	234.705	221.747	221.742	1077.474	1077.479	198.375	198.370	157.624	248.339	157.618	307.503
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, A	97.95739	97.95840	80886.76	797.99131	797.99348	797.99431	797.99948	798.00024	798.03378	798.03917	798.04290	798.04491	798.05042	798.05890	798.07168	798.07649	798.10717	798.10786	798.10940	798.11143	798.14028	798.14400	798.17100	798.17422	798.19933	798.20209	798.22529	798.22761	798.24887	798.25079	798.69232	798.71096	798.95451	798.95609	799.20123	799.20420	799.20448	799.20450
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S:	1074F_01	.2684E-02	.3196E-02	.1596E-02	.7007E-02	.1750E-02	.1204E-01	.6020E-02	.2266E-02	.5658E-03	.6901E-02	.1725E-02	.3837E-03	.1335E-01	.3338E-02	.1535E-02	.6633E-02	.1658E-02	.3730E-02	.4972E-03	.1492E-01	.9934E-03	.6180E-02	.1545E-02	.5515E-02	.1379E-02	.1539E-03	.6158E-03	.4607E-02	.1152E-02	.3420E-02	.8550E-03	.1907E-02	.4768E-03	.3644E-03	.9109E-04	.1761E-05	.9071E-06
E!'	109.227	109.222	346.082	346.077	284.679	284.674	89.495	89.489	421.055	421.050	265.240	265.235	505.219	78.978	78.972	505.213	247.096	247.090	77.684	598.557	77.679	598.551	230.245	230.240	214.690	214.685	701.069	701.063	200.430	200.425	187.466	187.461	175.797	175.792	812.737	812.731	874.247	874.252
j	162		-283*		6-		6		-272*		-34			40		-434*	7				-36	145	106		10				7		49		-200*					
Ľ,	800.55566	800.55936	800.56011	800.56457	800.57515	800.58348	800.58384	800.58627	800.58745	800.59401	800.61083	800.61811	800.62158	800.62179	800.62429	800.62653	800.64410	800.65039	800.66730	800.66742	800.66897	800.67458	800.67497	800.68032	800.70343	800.70790	800.71955	800.72494	800.72951	800.73315	800.75320	800.75608	800.77451	800.77669	800.78346	800.79114	800.79332	800.83231
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W.	.967	.964	696 .	.967	1.019	1.031	.971	696.	.974	.971	.976	.974	.978	.976	086.	.978	.982	.980	.984	1.000	.982	.985	.984	-987	-986	686.	1.000	.988	066.	986.	1.051	1.052	.992	888.	.887	.924	.991	.923
<u>S</u> ;	.2165E-02	.5395E-03	.2505E-02	.6250E-03	.3782E-06	.1531E-05	.2875E-02	.7173E-03	.3276E-02	.8165E-03	.3697E-02	.9224E-03	.4136E-02	.1032E-02	.4585E-02	.1144E-02	.5035E-02	.1256E-02	.5474E-02	.7541E-02	.1366E-02	.5884E-02	.1470E-02	.6261E-02	.1564E-02	.6583E-02	.3771E-02	.1644E-02	.6823E-02	.1704E-02	.2387E-02	$.9558E_{-}02$.6976E-02	.1339E-02	.5351E-02	.4283E-02	.1742E-02	.1070E-02
E_i''	692.487	692.481	654.976	654.970	1104.633	1104.639	618.752	618.746	583.816	583.810	550.168	550.162	517.809	517.803	486.740	486.734	456.961	456.956	428.473	176.338	428.468	401.276	401.271	375.372	375.366	350.759	176.343	350.754	327.439	327.434	138.180	138.174	305.413	223.720	223.715	280.299	305.407	280.294
ĭ	S	184*	-10	-106			62	15	24		22	7	30	-95	15	2	6	-80	-62	-78		11	-12	20	25	10	0	77	4	44		48	-131		96	-74		
Ľ,	799.81834	799.84378	799.88861	799.91278	799.92300	799.95323	799.95634	799.97925	800.02155	800.04318	800.08424	800.10460	800.14443	800.16352	800.20214	800.21995	800.25736	800.27391	800.31010	800.31805	800.32541	800.36039	800.37446	800.40821	800.42108	800.45360	800.45610	800.46528	800.49654	800.50707	800.53223	800.53527	800.53706	800.53917	800.54316	800.54485	800.54646	800.55074
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ri na naman na tana taha minimitan di Marka Ibid kamana a manana ibidi mamma jiri kamana ibidi mamma jiri kama

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-	W_i	.948	1.028	.941	.941	.952	.951	.940	939	.956	.954	.938	.937	1.031	.958	.957	1.032	.936	.935	.961	.960	1.017	.964	.963	1.034	.967	.966	969	.968	.972	116.	.973	.973	976.	.976	979.	978.	.981	.980
ł	Si	.1300E-02	.2299E-05	.1766E-03	.7065E-03	.3891E-03	.1555E-02	.4246E-03	.1060E-03	.4623E-03	.1846E-02	.2438E-03	.1218E-03	.1126E-05	.5441E-03	.2174E-02	.4507E-05	.1338E-03	.3342E-04	.6360E-03	.2541E-02	.8708E-06	.7377E-03	.2948E-02	.3542E-05	.8488E-03	.3392E-02	.9677E-03	.3867E-02	.1095E-02	.4377E-02	.1227E-02	.4907E-02	.1365E-02	.5458E-02	.1504E-02	.6010E-02	.1641E-02	.6557E-02
:	E''	825.175	898.839	662.269	662.263	782.526	782.520	771.368	771.363	741.155	741.149	889.625	889.619	1026.268	701.069	701.063	1026.262	1017.019	1017.013	662.269	662.263	1162.821	624.755	624.750	1162.827	588.529	588.523	553.591	553.585	519.941	519.935	487.580	487.575	456.509	456.504	426.729	426.723	398.239	398.233
	ပို	-228*				œ	-116			166	-98				39	-74				-18	-70		49	-56		64	-41	-81	-28	11	-25	-10	-30	-22	-19		88 89		-7
	Ŀ,	802.03383	802.07943	802.07969	802.08482	802.10086	802.11479	802.14756	802.15485	802.17977	802.19312	802.22142	802.22695	802.24774	802.25607	802.26883	802.26898	802.30698	802.31474	802.32977	802.34194	802.37241	802.40088	802.41246	802.42947	802.46941	802.48040	802.53538	802.54579	802.59880	802.60863	802.65952	802.66893	802.71804	802.72672	802.77388	802.78200	802.82721	802.83478
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	2														_																			_					
	W.	.935	.934	1.029	1.031	1.018	1.032	1.000	1.000	.943	1.043	1.044	.942	<u> </u>	809.	1.012	1.012	.931	.930	1.003	.940	1.003	.939	1.025	1.027	.943	.946	1.000	1.000	.942	.945	.943	1.000	1.000	.943	.985	.949	.942	.942
	Si Wi	.2064E-03 .935	.1031E-03 .934	.6708E-06 1.029	.2688E-05 1.031	.6300E-06 1.018	.2555E-05 1.032	.3901E-02 1.000	.7801E-02 1.000	.2224E-03 .943	.2420E-02 1.043	.9689E-02 1.044	.8888E-03 .942	.1423E-02 .900	.5687E-02 .899	.1082E-01 1.012	.2705E-02 1.012	.4590E-02 .931	.1146E-02 .930	.1206E-01 1.003	.3467E-02 .940	.6028E-02 1.003	.1732E-02 .939	.7559E-06 1.025	.3029E-05 1.027	.2494E-02 .943	.2700E-03 .946	.1339E-01 1.000	.3347E-02 1.000	.6228E-03 .942	.1079E-02 .945	.4281E-03 .943	.3810E-02 1.000	.1524E-01 1.000	.1713E-02 .943	.4405E-05 .985	.3253E-03 .949	.5623E-03 .942	.1125E-02 .942
	$E_i'' S_i W_i$	933.558 .2064E-03 .935	933.552 .1031E-03 .934	999.104 .6708E-06 1.029	999.098 .2688E-05 1.031	1133.083 .6300E-06 1.018	1133.088 .2555E-05 1.032	155.605 .3901E-02 1.000	155.599 .7801E-02 1.000	914.341 .2224E-03 .943	120.030 .2420E-02 1.043	120.025 .9689E-02 1.044	914.335 .8888E-03 .942	200.394 .1423E-02 .900	200.389 .5687E-02 .899	93.668 .1082E-01 1.012	93.663 .2705E-02 1.012	254.388 .4590E-02 .931	254.383 .1146E-02 .930	76.527 .1206E-01 1.003	317.588 .3467E-02 .940	76.522 .6028E-02 1.003	317.582 .1732E-02 .939	780.560 .7559E-06 1.025	780.555 .3029E-05 1.027	389.980 .2494E-02 .943	869.120 .2700E-03 .946	68.603 .1339E-01 1.000	68.598 .3347E-02 1.000	389.975 .6228E-03 .942	869.114 .1079E-02 .945	471.566 .4281E-03 .943	69.903 .3810E-02 1.000	69.898 .1524E-01 1.000	471.560 .1713E-02 .943	898.834 .4405E-05 .985	825.181 .3253E-03 .949	562.329 .5623E-03 .942	562.323 .1125E-02 .942
	$o-c E'_i S_i W_i$	933.558 .2064E-03 .935	933.552 .1031E-03 .934	999.104 .6708E-06 1.029	999.098 .2688E-05 1.031	1133.083 .6300E-06 1.018	1133.088 .2555E-05 1.032	155.605 .3901E-02 1.000	34 155.599 .7801E-02 1.000	914.341 .2224E-03 .943	120.030 .2420E-02 1.043	-77 120.025 .9689E-02 1.044	914.335 .8888E-03 .942	200.394 .1423E-02 .900	253* 200.389 .5687E-02 .899	11 93.668 .1082E-01 1.012	93.663 .2705E-02 1.012	254.388 .4590E-02 .931	254.383 .1146E-02 .930	9 76.527 .1206E-01 1.003	-48 317.588 .3467E-02 .940	76.522 .6028E-02 1.003	317.582 .1732E-02 .939	780.560 .7559E-06 1.025	780.555 .3029E-05 1.027	55 389.980 .2494E-02 .943	869.120 .2700E-03 .946	33 68.603 .1339E-01 1.000	68.598 .3347E-02 1.000	389.975 .6228E-03 .942	-162 869.114 .1079E-02 .945	471.566 .4281E-03 .943	69.903 .3810E-02 1.000	-28 69.898 .1524E-01 1.000	-82 471.560 .1713E-02 .943	898.834 .4405E-05 .985	825.181 .3253E-03 .949	562.329 .5623E-03 .942	139 562.323 .1125E-02 .942
	ν_i o-c E''_i S_i W_i	800.85330 933.558 .2064E-03 .935	800.85909 933.552 .1031E-03 .934	801.00625 999.104 .6708E-06 1.029	801.02284 999.098 .2688E-05 1.031	801.14977 1133.083 .6300E-06 1.018	801.19274 1133.088 .2555E-05 1.032	801.67457 155.605 .3901E-02 1.000	801.67614 34 155.599 .7801E-02 1.000	801.84829 914.341 .2224E-03 .943	801.86076 120.030 2420E-02 1.043	801.86361 -77 120.025 .9689E-02 1.044	801.86395 914.335 .8888E-03 .942	801.87259 200.394 .1423E-02 .900	801.87629 253* 200.389 .5687E-02 .899	801.87871 11 93.668 .1082E-01 1.012	801.88206 93.663 .2705E-02 1.012	801.88349 254.388 .4590E-02 .931	801.88893 254.383 .1146E-02 .930	801.90208 9 76.527 .1206E-01 1.003	801.90339 -48 317.588 .3467E-02 .940	801.90432 76.522 .6028E-02 1.003	801.90758 317.582 .1732E-02 .939	801.91647 780.560 .7559E-06 1.025	801.92330 780.555 .3029E-05 1.027	801.93503 55 389.980 .2494E-02 .943	801.93513 869.120 .2700E-03 .946	801.93526 33 68.603 .1339E-01 1.000	801.93746 68.598 .3347E-02 1.000	801.94117 389.975 .6228E-03 .942	801.95022 -162 869.114 .1079E-02 .945	801.97347 471.566 .4281E-03 .943	801.97608 69.903 .3810E-02 1.000	801.97762 -28 69.898 .1524E-01 1.000	801.97816 -82 471.560 .1713E-02 .943	802.01407 898.834 .4405E-05 .985	802.01932 825.181 .3253E-03 .949	802.02342 562.329 .5623E-03 .942	802.03017 139 562.323 .1125E-02 .942
	$\sigma \nu_i o^{-c} E''_i \qquad S_i W_i$	3 800.85330 933.558 .2064E-03 .935	1 800.85909 933.552 .1031E-03 .934	3 801.00625 999.104 .6708E-06 1.029	1 801.02284 999.098 2688E-05 1.031	0 801.14977 1133.083 .6300E-06 1.018	2 801.19274 1133.088 .2555E-05 1.032	2 801.67457 155.605 .3901E-02 1.000	0 801.67614 34 155.599 .7801E-02 1.000	3 801.84829 914.341 .2224E-03 .943	3 801.86076 120.030 .2420E-02 1.043	1 801.86361 -77 120.025 .9689E-02 1.044	1 801.86395 914.335 .8888E-03 .942	3 801.87259 200.394 .1423E-02 .900	1 801.87629 253* 200.389 .5687E-02 .899	2 801.87871 11 93.668 .1082E-01 1.012	0 801.88206 93.663 .2705E-02 1.012	2 801.88349 254.388 .4590E-02 .931	0 801.88893 254.383 .1146E-02 .930	3 801.90208 9 76.527 .1206E-01 1.003	3 801.90339 -48 317.588 .3467E-02 .940	1 801.90432 76.522 .6028E-02 1.003	1 801.90758 317.582 .1732E-02 .939	3 801.91647 780.560 .7559E-06 1.025	1 801.92330 780.555 .3029E-05 1.027	2 801.93503 55 389.980 .2494E-02 .943	3 801.93513 869.120 .2700E-03 .946	2 801.93526 33 68.603 .1339E-01 1.000	0 801.93746 68.598 .3347E-02 1.000	0 801.94117 389.975 .6228E-03 .942	1 801.95022 -162 869.114 .1079E-02 .945	3 801.97347 471.566 .4281E-03 .943	3 801.97608 69.903 .3810E-02 1.000	1 801.97762 -28 69.898 .1524E-01 1.000	1 801.97816 -82 471.560 .1713E-02 .943	0 802.01407 898.834 .4405E-05 .985	3 802.01932 825.181 .3253E-03 .949	2 802.02342 562.329 .5623E-03 .942	0 802.03017 139 562.323 .1125E-02 .942
	$J \sigma \nu_i \circ \sigma c E''_i S_i W_i$) 34 3 800.85330 933.558 .2064E-03 .935	0 34 1 800.85909 933.552 .1031E-03 .934	1 20 3 801.00625 999.104 .6708E-06 1.029	20 1 801.02284 999.098 .2688E-05 1.031	0 22 0 801.14977 1133.083 .6300E-06 1.018	0 22 2 801.19274 1133.088 .2555E-05 1.032	0 15 2 801.67457 155.605 .3901E-02 1.000	0 15 0 801.67614 34 155.599 .7801E-02 1.000	7 35 3 801.84829 914.341 .2224E-03 .943	(13 3 801.86076 120.030 .2420E-02 1.043	1 13 1 801.86361 -77 120.025 .9689E-02 1.044	7 35 1 801.86395 914.335 .8888E-03 .942	1 17 3 801.87259 200.394 .1423E-02 .900	1 17 1 801.87629 253* 200.389 .5687E-02 .899	2 11 2 801.87871 11 93.668 .1082E-01 1.012	2 11 0 801.88206 93.663 .2705E-02 1.012	2 19 2 801.88349 254.388 .4590E-02 .931	2 19 0 801.88893 254.383 .1146E-02 .930	3 9 3 801.90208 9 76.527 .1206E-01 1.003	3 21 3 801.90339 -48 317.588 .3467E-02 .940	3 9 1 801.90432 76.522 .6028E-02 1.003	3 21 1 801.90758 317.582 .1732E-02 .939	7 17 3 801.91647 780.560 .7559E-06 1.025	7 17 1 801.92330 780.555 .3029E-05 1.027	4 23 2 801.93503 55 389.980 .2494E-02 .943	7 34 3 801.93513 869.120 .2700E-03 .946	4 7 2 801.93526 33 68.603 .1339E-01 1.000	4 7 0 801.93746 68.598 .3347E-02 1.000	4 23 0 801.94117 389.975 .6228E-03 .942	7 34 1 801.95022 -162 869.114 .1079E-02 .945	5 25 3 801.97347 471.566 .4281E-03 .943	5 5 3 801.97608 69.903 .3810E-02 1.000	5 5 1 801.97762 -28 69.898 .1524E-01 1.000	5 25 1 801.97816 -82 471.560 .1713E-02 .943	8 19 0 802.01407 898.834 .4405E-05 .985	7 33 3 802.01932 825.181 .3253E-03 .949	6 27 2 802.02342 562.329 .5623E-03 .942	6 27 0 802.03017 139 562.323 .1125E-02 .942
	$K J \sigma \nu_i$ o-c $E''_i S_i W_i$	9 34 3 800.85330 933.558 .2064E-03 .935	9 34 1 800.85909 933.552 .1031E-03 .934	19 20 3 801.00625 999.104 .6708E-06 1.029	19 20 1 801.02284 999.098 .2688E-05 1.031	20 22 0 801.14977 1133.083 .6300E-06 1.018	\ 20 22 2 801.19274 1133.088 .2555E-05 1.032	1 0 15 2 801.67457 155.605 .3901E-02 1.000	0 15 0 801.67614 34 155.599 .7801E-02 1.000) 7 35 3 801.84829 914.341 .2224E-03 .943	1 1 13 3 801.86076 120.030 .2420E-02 1.043	1 1 13 1 801.86361 -77 120.025 .9689E-02 1.044) 7 35 1 801.86395 914.335 .8888E-03 .942	1 1 17 3 801.87259 200.394 .1423E-02 .900	1 1 1 1 801.87629 253* 200.389 .5687E-02 .899	1 2 11 2 801.87871 11 93.668 .1082E-01 1.012	1 2 11 0 801.88206 93.663 .2705E-02 1.012	1 2 19 2 801.88349 254.388 .4590E-02 .931	1 2 19 0 801.88893 254.383 .1146E-02 .930	1 3 9 3 801.90208 9 76.527 .1206E-01 1.003	1 3 21 3 801.90339 -48 317.588 .3467E-02 .940	1 3 9 1 801.90432 76.522 .6028E-02 1.003	1 3 21 1 801.90758 317.582 .1732E-02 .939	1 17 17 3 801.91647 780.560 .7559E-06 1.025	1 17 17 1 801.92330 780.555 .3029E-05 1.027	1 4 23 2 801.93503 55 389.980 .2494E-02 .943	0 7 34 3 801.93513 869.120 .2700E-03 .946	1 4 7 2 801.93526 33 68.603 .1339E-01 1.000	1 4 7 0 801.93746 68.598 .3347E-02 1.000	1 4 23 0 801.94117 389.975 .6228E-03 .942	0 7 34 1 801.95022 -162 869.114 .1079E-02 .945	1 5 25 3 801.97347 471.566 .4281E-03 .943	1 5 5 3 801.97608 69.903 .3810E-02 1.000	1 5 5 1 801.97762 -28 69.898 .1524E-01 1.000	1 5 25 1 801.97816 -82 471.560 .1713E-02 .943	1 18 19 0 802.01407 898.834 .4405E-05 .985	0 7 33 3 802.01932 825.181 .3253E-03 .949	1 6 27 2 802.02342 562.329 .5623E-03 .942	1 6 27 0 802.03017 139 562.323 .1125E-02 .942
	$\Delta J K J \sigma$ ν_i o-c $E''_i S_i W_i$	-1 9 34 3 800.85330 933.558 .2064E-03 .935	-1 9 34 1 800.85909 933.552 .1031E-03 .934	(1 1 19 20 3 801.00625 999.104 .6708E-06 1.029	1 19 20 1 801.02284 999.098 .2688E-05 1.031	1 1 20 22 0 801.14977 1133.083 .6300E-06 1.018	1 1 20 22 2 801.19274 1133.088 .2555E-05 1.032	1 -1 0 15 2 801.67457 155.605 .3901E-02 1.000	1 -1 0 15 0 801.67614 34 155.599 .7801E-02 1.000	t 0 7 35 3 801.84829 914.341 .2224E-03 .943	1 -1 1 13 3 801.86076 120.030 .2420E-02 1.043	1 -1 1 13 1 801.86361 -77 120.025 .9689E-02 1.044	1 0 7 35 1 801.86395 914.335 .8888E-03 .942	l -1 1 17 3 801.87259 200.394 .1423E-02 .900	l -1 1 1 7 1 801.87629 253* 200.389 .5687E-02 .899	1 -1 2 11 2 801.87871 11 93.668 .1082E-01 1.012	l -1 2 11 0 801.88206 93.663 .2705E-02 1.012	1 -1 2 19 2 801.88349 254.388 .4590E-02 .931	1 -1 2 19 0 801.88893 254.383 .1146E-02 .930	1 -1 3 9 3 801.90208 9 76.527 .1206E-01 1.003	1 -1 3 21 3 801.90339 -48 317.588 .3467E-02 .940	1 -1 3 9 1 801.90432 76.522 .6028E-02 1.003	1 -1 3 21 1 801.90758 317.582 .1732E-02 .939	1 1 17 17 3 801.91647 780.560 .7559E-06 1.025	1 1 1 17 17 1 801.92330 780.555 .3029E-05 1.027	1 -1 4 23 2 801.93503 55 389.980 .2494E-02 .943	1 0 7 34 3 801.93513 869.120 .2700E-03 .946	1 -1 4 7 2 801.93526 33 68.603 .1339E-01 1.000	1 -1 4 7 0 801.93746 68.598 .3347E-02 1.000	1 -1 4 23 0 801.94117 389.975 .6228E-03 .942	1 0 7 34 1 801.95022 -162 869.114 .1079E-02 .945	1 -1 5 25 3 801.97347 471.566 .4281E-03 .943	1 -1 5 5 3 801.97608 69.903 .3810E-02 1.000	1 -1 5 5 1 801.97762 -28 69.898 .1524E-01 1.000	1 -1 5 25 1 801.97816 -82 471.560 .1713E-02 .943	1 1 1 18 19 0 802.01407 898.834 .4405E-05 .985	1 0 7 33 3 802.01932 825.181 .3253E-03 .949	1 -1 6 27 2 802.02342 562.329 .5623E-03 .942	1 -1 6 27 0 802.03017 139 562.323 .1125E-02 .942
	$\Delta K \Delta J K J \sigma$ ν_i o-c E''_i S_i W_i	1 -1 9 34 3 800.85330 933.558 .2064E-03 .935	$1 -1 \ 9 \ 34 \ 1 \ 800.85909 \ 933.552 \ .1031E-03 \ .934$	-1 1 19 20 3 801.00625 999.104 .6708E-06 1.029	-1 1 19 20 1 801.02284 999.098 .2688E-05 1.031	-1 1 20 22 0 801.14977 1133.083 .6300E-06 1.018	-1 1 20 22 2 801.19274 1133.088 .2555E-05 1.032	1 -1 0 15 2 801.67457 155.605 .3901E-02 1.000	1 -1 0 15 0 801.67614 34 155.599 .7801E-02 1.000	-1 0 7 35 3 801.84829 914.341 .2224E-03 .943	-1 -1 1 13 3 801.86076 120.030 .2420E-02 1.043	-1 -1 1 1 1 3 1 801.86361 -77 120.025 .9689E-02 1.044	-1 0 7 35 1 801.86395 914.335 .8888E-03 .942	1 -1 1 17 3 801.87259 200.394 .1423E-02 .900	1 -1 1 17 1 801.87629 253* 200.389 .5687E-02 .899	-1 -1 2 11 2 801.87871 11 93.668 .1082E-01 1.012	-1 -1 2 11 0 801.88206 93.663 .2705E-02 1.012	1 -1 2 19 2 801.88349 254.388 .4590E-02 .931	1 -1 2 19 0 801.88893 254.383 .1146E-02 .930	-1 -1 3 9 3 801.90208 9 76.527 .1206E-01 1.003	1 -1 3 21 3 801.90339 -48 317.588 .3467E-02 .940	-1 -1 3 9 1 801.90432 76.522 .6028E-02 1.003	1 -1 3 21 1 801.90758 317.582 .1732E-02 .939	-1 1 17 17 3 801.91647 780.560 .7559E-06 1.025	-1 1 1 17 17 1 801.92330 780.555 .3029E-05 1.027	1 -1 4 23 2 801.93503 55 389.980 .2494E-02 .943	-1 0 7 34 3 801.93513 869.120 .2700E-03 .946	-1 -1 -1 4 7 2 801.93526 33 68.603 .1339E-01 1.000	-1 -1 -1 4 7 0 801.93746 68.598 .3347E-02 1.000	1 -1 4 23 0 801.94117 389.975 .6228E-03 .942	-1 0 7 34 1 801.95022 -162 869.114 .1079E-02 .945	1 -1 5 25 3 801.97347 471.566 .4281E-03 .943	-1 -1 -1 5 5 3 801.97608 69.903 .3810E-02 1.000	-1 -1 -1 5 5 1 801.97762 -28 69.898 .1524E-01 1.000	1 -1 5 25 1 801.97816 -82 471.560 .1713E-02 .943	-1 1 18 19 0 802.01407 898.834 .4405E-05 .985	-1 0 7 33 3 802.01932 825.181 .3253E-03 .949	1 -1 6 27 2 802.02342 562.329 .5623E-03 .942	1 -1 6 27 0 802.03017 139 562.323 .1125E-02 .942

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W.	1.000	1.000	.944	766.	766.	966.	998	.947	.946	666.	666.	1.000	1.000	.947	1.030	.947	.946	.945	.945	.944	1.032	.943	1.033	.942	.941	1.015	.940	1.035	.938	.938	1.022	1.023	1.025	1.010	.933	1.000	1.000	.930
S.	.1338E-01	.3345E-02	.1859E-02	.1684E-02	.6737E-02	.1402E-02	.5608E-02	.2714E-02	.6777E-03	.1038E-02	.4153E-02	.5788E-03	.2315E-02	.4729E-03	.3873E-05	.1892E-02	.6303E-03	.1259E-02	.2010E-03	.8030E-03	.1566E-05	.4897E-03	.6269E-05	.1223E-03	.2853E-03	.1077E-05	.1425E-03	.4394E-05	.1587E-03	.3968E-04	.7852E-05	.3930E-05	.1258E-04	.3099E-05	.5067E-03	.4030E-02	.8060E-02	.1010E-02
E''	59.525	59.520	290.380	170.182	170.177	157.217	157.212	360.196	360.190	145.548	145.542	135.175	135.169	439.202	924.717	439.196	527.389	527.383	624.755	624.750	1054.722	731.285	1054.716	731.279	846.975	1193.848	846.969	1193.854	971.806	971.801	609.039	609.034	714.162	714.156	888.158	118.011	118.006	888.152
р С	184*						46	-305*			-42		-213*			-40		101		-242*																	25	
ŗ,	803.24645	803.24839	803.24881	803.25108	803.25370	803.27502	803.27732	803.28084	803.28657	803.29654	803.29856	803.31566	803.31743	803.32360	803.32382	803.32803	803.37767	803.38403	803.43813	803.44301	803.48646	803.51000	803.51216	803.51691	803.58791	803.59069	803.59319	803.66339	803.67734	803.68473	804.13643	804.14106	804.27133	804.33505	804.37783	804.37910	804.38066	804.40354
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W.	.983	.982	.985	.984	.986	986.	988.	1.024	988.	1.000	1.000	066.	.989	1.016	166.	.991	.993	.992	.994	1.027	.994	1.028	1.036	1.036	3 95	.995	1.009	1.009	.911	.910	1.002	1.002	.938	966.	.937	026.	966.	.945
S;	.1772E-02	.7082E-02	.1894E-02	.7570E-02	.2001E-02	.8003E-02	.2090E-02	.4930E-05	.8359E-02	.3989E-02	.7978E-02	.2155E-02	.8610E-02	.1223E-05	.2187E-02	.8748E-02	.2186E-02	.8734E-02	.2140E-02	.1924E-05	.8559E-02	.7705E-05	.2427E-02	.9709E-02	.2045E-02	.8182E-02	.1078E-01	.2695E-02	.1494E-02	.5969E-02	.1197E-01	.5986E-02	.4865E-02	.1896E-02	.1215E-02	.7294E-05	.7584E-02	.3721E-02
E_i''	371.040	371.035	345.134	345.129	320.520	320.514	297.199	692.152	297.193	136.161	136.155	275.171	275.165	692.146	254.436	254.431	234.996	234.991	216.850	803.859	216.845	803.854	103.176	103.171	199.999	199.994	79.405	79.399	178.362	178.357	64.856	64.851	229.770	184.443	229.764	924.711	184.438	290.385
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Ŀ,	802.87805	802.88508	802.92640	802.93290	802.97227	802.97827	803.01568	803.01929	803.02118	803.02879	803.03036	803.05662	803.06165	803.06612	803.09512	803.09969	803.13117	803.13531	803.16479	803.16572	803.16851	803.17519	803.18686	803.18951	803.19597	803.19930	803.19946	803.20248	803.20437	803.20780	803.21804	803.22011	803.22035	803.22474	803.22537	803.22646	803.22770	803.24488
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S;	.2491E-02	.1460E-02	.5594E-03	.1397E-03	.2915E-02	.5069E-05	.1696E-02	.3308E-03	.3384E-02	.1652E-03	.1953E-02	.3899E-02	.180/E-U3	.4669E-04	.2232E-U2 AA56E_09	2531F-02	.2522E-04	.1009E-03	.5051E-02	.2845E-02	.5678E-02	.3171E-02	.6329E-02	.1225E-04	3500F 00		.3832E-02	.7648E-02	.2011E-04	.1007E-04	.4152E-02	.8295E-02	.4454E-02	.8900E-02	.4729E-U2	U-30012.
Ε"	674.869	636.073	692.487	692.481	636.067	1226.169	598.557	805.609	598.551	805.603	562.329	562.323	927.877	927.871	597 229	403 737	1059.286	1059.280	493.732	461.375	461.369	430.302	430.297	531.221	0017100 400 590	400.514	372.029	372.023	629.759	629.754	344.829	344.824	318.921	318.916	294.306	004.101
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M	1.028	1.029	.948	.936	.934	1.030	1.030	1.007	1.007	1.001	1.001	.921	.921	.940	1.000	.944 1 000	000.1	1.031	.938	.950	.949	.951	.950	.944	.941 .12	.951 050	.947	1.034	.949	.945	.949	1.034	.951	.948	.947	1.012
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U.	3251F-(.1302E-04	.9949E-05	.6154E-0	.1228E-(.2407E-(.9629E-(.1063E-(.2658E-	.1178E-	.5892E-(.1547E-0	.6190E-(.7428E-(.1336E-	-3092E-	-31966. 1979FL	.5411E-	.1483E	.3949E	.1973E	.2921]	.7296]	10068.	.1774	.5169E	.1057E	.1953E	.6988E	.2110E	.1398E	.7813F	.1248	.226	.9037	.123
Ett.	898 440 3251 F-(828.444 .1302E-04	951.880 .9949E-05	842.934 .6154E-0	842.928 .1228E-(87.617 .2407E-(87.612 .9629E-(66.437 .1063E-(66.432 .2658E-	54.481 .1178E-	54.476 .5892E-(157.624 .1547E-0	157.618 .6190E-(798.993 .7428E-(51.743 .1336E-	206.444 .5092E	01.138	951.885 .5411E-	798.987 .1483E	264.475 .3949E	264.469 .1973H	331.702 .2921]	331.697 .7296]	756.336 .89001	756.330 .1774E	408.128 .5169E	714.963 1057E	1084.465 .1953E	493.737 .6988E	714.957 .2110E	493.732 .1398E	1084.459 .7813H	674.875 .1248	588.529 .226	588.523 .9037	1226.163 .123
0c E(i	898 440 3951F-(828.444 .1302E-04	951.880 .9949E-05	842.934 .6154E-0	842.928 .1228E-(87.617 .2407E-(244* 87.612 .9629E-(-244* 66.437 .1063E-(66.432 .2658E-	87 54.481 .1178E-	54.476 .5892E-(157.624 .1547E-0	-439* 157.618 .6190E-(798.993 .7428E-(12 51.743 .1336E-	8 206.444 .5092E-	01.136	951.885 .5411E-	798.987 .1483E	-149 264.475 .3949E	264.469 .1973F	0 331.702 .2921]	331.697 .7296]	361* 756.336 .89001	56 756.330 .1774E	408.128 .5169E	-01 400.122 .2000E -45 714.963 .1057E	1084.465 .1953E	493.737 .6988E-	45 714.957 .2110E	-68 493.732 .1398E	1084.459 .78131	56 674.875 .1248	588.529 .226	18 588.523 .9037	1226.163 .123
··· ···	Vi U U U U U U U U U U U U U U U U U U U	804.42436 828.444 .1302E-04	804.42871 951.880 .9949E-05	804.46569 842.934 .6154E-C	804.49049 842.928 .1228E-(804.51052 87.617 .2407E-(804.51300 244* 87.612 .9629E-(804.51790 -244* 66.437 .1063E-(804.52063 66.432 .2658E-	804.53171 87 54.481 .1178E-	804.53364 54.476 .5892E-(804.53443 157.624 .1547E-C	804.53762 -439* 157.618 .6190E-(804.55083 798.993 7428E-(804.55534 12 51.743 .1336E-	804.55338 8 206.444 .5092E	804.55705 51.758 .3541E7 on team 906 430 1579E1	804.56545 951.885 .5411E-	804.57470 798.987 .1483E	804.58451 -149 264.475 .3949E	804.58820 264.469 .1973F	804.62481 0 331.702 .2921	804.63015 331.697 .7296)	804.63327 361* 756.336 .89001	804.65620 56 756.330 .1774E	804.67193 408.128 .5169E	804.01011 -01 406.122 20001 804.71309 -45 714.963 1057E	804.72238 1084.465 .1953E	804.73016 493.737 .6988E	804.73500 45 714.957 .2110F	804.73614 -68 493.732 .1398E	804.75235 1084.459 .78131	804.79010 56 674.875 .1248	804.79482 588.529 .226:	804.79946 18 588.523 .9037	804.80432 1226.163 .123
	0 11 0-0 12 23 0-0 24 0-0 25 1 F-0	3 804.41220 828.444 .1302E-04	n 804 42871 951.880 .9949E-05	2 804.46569 842.934 .6154E-C	0 804.49049 842.928 .1228E-(3 804.51052 87.617 .2407E-(1 804.51300 244* 87.612 .9629E-(2 804.51790 -244* 66.437 .1063E-(0 804.52063 66.432 .2658E-	3 804.53171 87 54.481 .1178E-	1 804.53364 54.476 .5892E-(3 804.53443 157.624 .1547E-C	1 804.53762 -439* 157.618 .6190E-(2 804.55083 798.993 7428E-(2 804.55534 12 51.743 .1336E-	2 804.55538 8 206.444 .5092E-	0 804.55705 51.738 .3341E ⁻¹	9 804 56545 951 885 .5411E-	0 804.57470 798.987 .1483E	3 804.58451 -149 264.475 .3949E	1 1 804.58820 264.469 .1973F	2 804.62481 0 331.702 .2921	0 804.63015 331.697 .7296)	2 804.63327 361* 756.336 .89001	0 804.65620 56 756.330 .1774E	3 804.67193 408.128 5169E	9 804.01011 -31 406.122 20002 9 804.71309 -45 714.963 1057E	1 3 804.72238 1084.465 .1953E	1 2 804.73016 493.737 .6988E	0 804.73500 45 714.957 .2110F	5 0 804.73614 -68 493.732 .1398E	3 1 804.75235 1084.459 .7813F	0 2 804.79010 56 674.875 .1248	7 3 804.79482 588.529 .226	7 1 804.79946 18 588.523 .9037	$5 \ 0 \ 804.80432 \ 1226.163 \ .123$
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M.	1.000	.930	1.000	1.000	.950	.949	.954	.954	1.035	.955	.954	1.035	1.009	.954	.954	.953	952	1.038	.951	.950	.949	.948	.946	.946	.944	.943	1.020	1.020	.942	.941	1.022	1.024	1.025	1.026	1.028	.876	1.006	1.031
S	.3358E-02	.6322E-02	.1366E-02	.2732E-02	.5263E-02	.1314E-02	.4137E-02	.2069E-02	.2262E-05	.3109E-02	.7765E-03	.9048E-05	.1345E-05	.5582E-03	.2233E-02	.7673E-03	.1533E-02	.5537E-05	.2519E-03	.1007E-02	.6328E-03	.1580E-03	.3794E-03	.1897E-03	.2177E-03	.5436E-04	.4673E-05	.1869E-04	.2984E-04	.1192E-03	.3141E-04	.7868E-05	.3421E-04	.1712E-04	.3006E-04	.1336E-04	.7355E-05	.5739E-05
E	45.253	138.174	99.873	99.868	184.412	184.407	239.857	239.851	1115.497	304.500	304.495	1115.491	1259.765	378.344	378.339	461.375	461.369	1259.771	553.591	553.585	654.976	654.970	765.529	765.523	885.230	885.224	458.707	458.702	1014.078	1014.072	550.649	550.644	651.771	651.766	762.057	1010.085	762.051	881.503
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Ä	805.86345	805.86566	805.87449	805.87637	805.88853	805.89279	805.92226	805.92572	805.95546	805.96691	805.97188	805.98949	806.01292	806.01840	806.02235	806.08083	806.08644	806.12263	806.14974	806.15413	806.22971	806.23589	806.31584	806.32064	806.41314	806.41982	806.42187	806.42532	806.51627	806.52145	806.52886	806.54568	806.64233	806.65018	806.76728	806.79221	806.85720	806.89706
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S _i 1	.9449E-02 .98	.4966E-02 .98	.9922E-02 .98	.5153E-02 .9	.5234E-05 1.00	.1030E-01 .98	.1205E-04 .9	.5278£-02 .9	.1055E-01 .9(.4560E-05 1.02	.1826E-04 1.0	.5328E-02 .99	.1065E-01 .99	.5286E-02 .99	.1057E-01 .99	.4018E-02 1.00	.8035E-02 1.00	.5149E-02 .9	.1029E-01 .9	.4894E-02 .9	.9788E-02 .9	.4513E-02 .9	.9026E-02 .9	.6781E-05 1.0	.3991E-02 .9	.7982E-02 .9	.2356E-02 1.02	.1036E-01 1.00	.9423E-02 1.02	.2589E-02 1.00	.3311E-02 .99	.6622E-02 .99	.1152E-01 1.00	.5758E-02 1.00	.2448E-02 .9{	.4896E-02 .9	.1343E-01 1.00	.1582E-02 .9
E''_i S_i l	294.300 .9449E-02 .96	270.983 .4966E-02 .98	270.978 .9922E-02 .96	248.954 .5153E-02 .9	737.458 .5234E-05 1.00	248.949 .1030E-01 .98	960.338 .1205E-04 .9	228.219	228.213 .1055E-01 .90	854.331 .4560E-05 1.02	854.325 .1826E-04 1.0	208.778 .5328E-02 .99	208.772 .1065E-01 .99	190.631 .5286E-02 .99	190.625 .1057E-01 .99	101.157 .4018E-02 1.00	101.151 .8035E-02 1.00	173.779 .5149E-02 .90	173.773 .1029E-01 .9	158.222 .4894E-02 .9	158.216 .9788E-02 .9	143.960 .4513E-02 .9	143.955 .9026E-02 .9	980.343 .6781E-05 1.0	130.995 .3991E-02 .9	130.989 .7982E-02 .9	73.353 .2356E-02 1.02	54.766 .1036E-01 1.00	73.348 .9423E-02 1.02	54.761 .2589E-02 1.00	119.325 .3311E-02 .99	119.319 .6622E-02 .99	45.403 .1152E-01 1.00	45.398 .5758E-02 1.00	108.951 .2448E-02 .96	108.945 .4896E-02 .9	45.258 .1343E-01 1.00	138.180 .1582E-02 .9
$o-c E''_i S_i I$	33 294.300 .9449E-02 .96	-45 270.983 .4966E-02 .98	28 270.978 .9922E-02 .96	-1 248.954 .5153E-02 .90	737.458 .5234E-05 1.00	41 248.949 .1030E-01 .98	980.338 .1205E-04 .9	-20 228.219 .52785-02 .9	37 228.213 .1055E-01 .90	854.331 .4560E-05 1.02	854.325 .1826E-04 1.0	-63 208.778 .5328E -02 .99	71 208.772 .1065E-01 .99	-100 190.631 .5286E -02 .96	28 190.625 .1057E-01 .99	101.157 .4018E-02 1.00	15 101.151 .8035E-02 1.00	-52 173.779 .5149E-02 .90	-40 173.773 .1029E-01 .9	158.222 .4894E-02 .9	-110 158.216 .9788E-02 .9	143.960 .4513E-02 .9	153 143.955 .9026E-02 .9	980.343 .6781E-05 1.0	130.995 .3991E-02 .9	162 130.989 .7982E-02 .9	73.353 .2356E-02 1.02	-10 54.766 .1036E-01 1.00	-16 73.348 .9423E-02 1.02	54.761 .2589E-02 1.00	119.325 .3311E-02 .99	333* 119.319 .6622E-02 .99	-96 45.403 .1152E-01 1.00	45.398 .5758E-02 1.00	108.951 .2448E-02 .96	108.945 .4896E-02 .9	55 45.258 .1343E-01 1.00	138.180 .1582E-02 .9
ν_i o -c E''_i S_i l	805.52199 33 294.300 .9449E-02 .96	805.55601 -45 270.983 .4966E-02 .98	805.56482 28 270.978 .9922E-02 .96	803.39/21 -1 248.954 .5153E-02 .9	805.59857 737.458 .5234E-05 1.00	000.00020 41 248.949 .1030E-01 .96	003.01040 980.338 1205E-04 9 005.89504 5.8 909.010 10205.00 0	000.03094 -30 228.219 .5278K-U2 .9	805.64314 37 228.213 .1055E-01 .90	805.62005 854.331 .4560E-05 1.02 805.62077 814.831 .4560E-05 1.02	803.0/0// 834.325 .1826E-04 1.0	805.67221 - 63 208.778 .5328E-02 .99	805.67865 71 208.772 .1065E-01 .99	805.70601 -100 190.631 .5286E-02 .90	805.71173 28 190.625 .1057E-01 .90	805.72547 101.157 .4018E-02 1.00	805.72703 15 101.151 .8035E-02 1.00	805.73737 -52 173.779 .5149E-02 .9	805.74241 -40 173.773 .1029E-01 .9	805.76629 158.222 4894E-02 9	805.7008 -110 158.216 .9788E-02 .9	805.792/8 143.960 .4513E-02 .9	803.(903/133 143.955 .9026E-02 .9	805.80430 980.343 .6781E-05 1.0	003.01063 130.993 .3991E-02 .9	805.82007 162 130.989 7982E-02 9	609.631/8 73.353 2356E-02 1.0	003.63404 -10 34.766 .1036E-01 1.00	805.83410 -16 73.348 .9423E-02 1.02	805.83650 54.761 .2589E-02 1.00	805.83847 119.325 .3311E-02 .99	805.84120 333* 119.319 .6622E-02 .99	805.84308 -96 45.403 .1152E-01 1.00	805.84487 45.398 .5758E-02 1.00	805.85768 108.951 .2448E-02 .90	805.85997 108.945 .4896E-02 .9	805.86191 55 45.258 .1343E-01 1.00	009-907/0 138-180 1582E-02 9
σ ν_i $o-c$ E''_i S_i l	0 805.52199 33 294.300 .9449E-02 .96	2 805.55601 -45 270.983 .4966E-02 .98	0 805.56482 28 270.978 .9922E-02 .96	2 805.39/21 -1 248.954 .5153E-02 .9	0 805.59857 737.458 .5234E-05 1.00	0 605.61640 41 248.949 .1030E-01 .96	0 000.01040 960.338 .1205E-04 .9	2 000.00094 -00 228.219 .5278E-02 .9	U 805.64314 37 228.213 .1055E-01 .90	3 809.0500 854.331 .4560E-05 1.02	1 803.0/U// 834.325 .1826E-04 1.0	2 805.67221 -63 208.778 .5328E-02 .99	0 805.67865 71 208.772 .1065E-01 .99	2 805.70601 -100 190.631 .5286E-02 .90	0 805.71173 28 190.625 .1057E-01 .90	2 805.72547 101.157 .4018E-02 1.00	0 805.72703 15 101.151 .8035E-02 1.00	2 805.73737 -52 173.779 .5149E-02 .90	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2 805.76629 158.222 .4894E-02 .9	0 805.77058 -110 158.216 .9788E-02 .9	2 805.792.78 143.960 .4513E-02 .9	0 803.1903.1 133 143.935 .9026E-02 .9	2 805.80430 980.343 .6781E-05 1.0	2 003.51053 139 130.995 .3991E-02 .99	0 805.82007 162 130.989 7982E-02 9	3 603.631/8 73.333 2356£-02 1.0	2 803.83404 -10 54.766 .1036E-01 1.00	1 805.83410 -16 73.348 .9423E-02 1.02	U 805.8365U 54.761 .2589E-02 1.00	2 805.83847 119.325 .3311E-02 .99	0 805.84120 333* 119.319 .6622E-02 .99	3 805.84308 -96 45.403 .1152E-01 1.00	1 805.84487 45.398 .5758E-02 1.00	2 805.85768 108.951 .2448E-02 .90	0 805.85997 108.945 .4896E-02 .9	2 805.86191 55 45.258 .1343E-01 1.00	<u>3 803.802/U 138.180 .1582E-02 .9</u>
$J \sigma \nu_i \circ c E''_i S_i I$	3 18 0 805.52199 33 294.300 <u>.9449E-02 .9</u> 6	3 17 2 805.55601 -45 270.983 .4966E-02 .98	0 17 0 805.56482 28 270.978 .9922E-02 .96	0 10 2 800.09/21 -1 248.954 .5153E-02 .9	0 18 0 805.59857 737.458 .5234E-05 1.00 16 0 005.50550 11 0.0010 100000 0	0 10 0 505.00020 41 248.949 .1030E-01 .96	2 Z U 000.01040 960.338 1205E-04 9	0 10 2 000.00084 -00 228.219 .52/8F-02 .9	0 10 U 805.04314 37 228.213 .1055E-01 .90	20 3 800.0500 854.331 .4560E-05 1.02 90 1 805 87077 874 854 330 1.02	20 I 803.0/0// 834.325 .1826E-04 1.0	14 2 805.67221 -63 208.778 .5328E-02 .99	14 0 805.67865 71 208.772 .1065E-01 .99	13 2 805.70601 -100 190.631 .5286E-02 .90	13 0 805.71173 28 190.625 .1057E-01 .90	1 12 2 805.72547 101.157 .4018E-02 1.00	1 12 0 805.72703 15 101.151 .8035E-02 1.00	i 12 2 805.73737 -52 173.779 .5149E-02 .90	12 0 805.74241 -40 173.773 .1029E-01 .9	11 2 805.76629 158.222 .4894E-02 .9	11 U 805.//U08 -110 158.216 .9788E-02 .9	10 Z 805.79278 143.960 .4513E-02 .9	10 0 803.1903.133 143.935 .9026E-02 .9	22 2 805.80430 980.343 .6781E-05 1.0	0 0 00.01060 120 130.995 .3991E-02 .9	10 9 005.82007 162 130.989 7982E-02 .9	10 3 605.631/8 73.353 2356E-02 1.0	8 Z 803.83404 -10 34.766 .1036E-01 1.00	10 1 805.83410 -16 73.348 .9423E-02 1.02	8 U 809.8369U 54.761 .2589E-02 1.00	8 2 805.83847 119.325 .3311E-02 .99	8 0 805.84120 333* 119.319 .6622E-02 .99	6 3 805.84308 -96 45.403 .1152E-01 1.00	6 1 805.84487 45.398 .5758E-02 1.00	7 2 805.85768 108.951 .2448E-02 .90	7 0 805.85997 108.945 .4896E-02 .9	4 Z 805.86191 55 45.258 .1343E-01 1.00	14 3 003.002/U 138.18U 1582E-02 9
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Ċ.	.8323E-03	.1663E-02	.9508E-03	.3799E-02	.2776E-03	.1109E-02	.1096E-02 4386E-09	7076F-03	.1396E-04	.1769E-03	.2797E-04	.1256E-02	.5023E-02	.4314E-03	.1201E-04	.2157E-03	.4808E-04	.1427E-02	.5701E-02	.1606E-02	.6418E-02	.2513E-03	.5363E-04	.6275E-04	.1342E-04	.1793E-02	.7173E-02	.1985E-02	.7940E-02	.3493E-04	.1397E-03	.4839E-04	.2419E-04	.2178E-02	.8711E-02	.1378E-04	.2368E-02
E!!	430.302	430.297	576.390	576.385	519.941	519.935 540.161	040.101 540 155	618 759	391.497	618.746	391.491	505.219	505.213	726.733	476.844	726.728	476.839	471.566	471.560	439.202	439.196	843.868	571.371	843.862	571.366	408.128	408.122	378.344	378.339	970.152	970.146	675.076	675.071	349.852	349.846	1041.122	322.651
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Ċ	2298E-04	.2812E-03	.1124E-02	.3421E-03	.1367E-02	.7888E-05	.394/E-UZ	.1034E-02 4136E_03	.1653E-02	.9956E-02	.2489E-02	.2272E-02	.1117E-01	.9097E-02	.5586E-02	.4959E-03	.2485E-05	.1981E-02	.1593E-02	.6372E-02	.1403E-05	.5361E-0	.9931E-0	.1340E-0	.4279E-02	.5901E-03	.2140E-02	.2358E-02	.3265E-02	.8163E-03	.6971E-03	.2785E-02	.5809E-05	.5958E-03	.2383E-02	.8172E-03	.3265E-02
<i>ри</i> С.	881.497 .2298E-04	866.004 .2812E-03	865.998 .1124E-02	820.778 .3421E-03	820.773 .1367E-02	1010.091 .7888E-05	85.598 .394/E-UZ	00.092 .1094E-02 776.825 4136E_03	776 830 1653F-02	44.391 .9956E-02	44.385 .2489E-02	60.386 .2272E-02	* 37.621 .1117E-01	60.381 .9097E-02	37.616 .5586E-02	734.176 .4959E-03	1147.817 .2485E-05	734.170 .1981E-02	120.030 .1593E-02	120.025 .6372E-02	1294.654 .1403E-05	163.674 .5361E-0	1147.811 .9931E-0	163.669 .1340E-0	216.532 .4279E-02	692.801 .5901E-03	216.526 .2140E-02	692.795 .2358E-02	278.590 .3265E-02	278.585 .8163E-03	652.711 .6971E-03	652.706 .2785E-02	1294.660 .5809E-05	349.852 .5958E-03	349.846 .2383E-02	613.908 .8172E-03	613.902 .3265E-02
ν. Γ ^{ιι} ς.	881.497 .2298E-04	866.004 .2812E-03	-114 865.998 .1124E-02	820.778 .3421E-03	30 820.773 .1367E-02	1010.091 .7888E-05	85.598 .394/E-U2 33 25 503 7004E 00	00.092 .1094L-02 776.825 A136F_03	-140 776 830 1653F-02	308* 44.391 .9956E-02	44.385 .2489E-02	60.386 .2272E-02	-175* 37.621 .1117E-01	-187* 60.381 .9097E-02	37.616 .5586E-02	734.176 .4959E-03	1147.817 .2485E-05	150 734.170 .1981E-02	120.030 .1593E-02	-136 120.025 .6372E-02	1294.654 .1403E-05	15 163.674 .5361E-0	1147.811 .9931E-0	163.669 .1340E-0	-56 216.532 .4279E-02	692.801 .5901E-03	216.526 .2140E-02	-93 692.795 .2358E-02	24 278.590 .3265E-02	278.585 .8163E-03	64 652.711 .6971E-03	-15 652.706 .2785E-02	1294.660 .5809E-05	349.852 .5958E-03	-65 349.846 .2383E-02	-81 613.908 .8172E-03	-57 613.902 .3265E-02
	806.91438 881.497 .2298E-04	806.91758 866.004 .2812E-03	806.93079 -114 865.998 .1124E-02	807.00691 820.778 .3421E-03	807.01965 30 820.773 .1367E-02	807.04034 1010.091 .7888E-05	807.06788 85.598 .394/E-U2 ent rent	001.00344 33 03.332 .1034L/UZ 207.00343 776.235 4136F_03	807 10571 -140 776 830 1653F-02	807.14785 308* 44.391 .9956E-02	807.15008 44.385 .2489E-02	807.15064 60.386 .2272E-02	807.15211 -175* 37.621 .1117E-01	807.15280 -187* 60.381 .9097E-02	807.15380 37.616 .5586E-02	807.17718 734.176 .4959E-03	807.18569 1147.817 .2485E-05	807.18899 150 734.170 .1981E-02	807.18911 120.030 .1593E-02	807.19186 -136 120.025 .6372E-02	807.21604 1294.654 .1403E-05	807.21975 15 163.674 .5361E-0	807.22357 1147.811 .9931E-0	807.22366 163.669 .1340E-02	807.25807 -56 216.532 .4279E-02	807.25817 692.801 .5901E-03	807.26131 216.526 .2140E-02	807.26950 -93 692.795 .2358E-02	807.30710 24 278.590 .3265E-02	807.31171 278.585 .8163E-03	807.33642 64 652.711 .6971E-03	807.34728 -15 652.706 .2785E-02	807.34790 1294.660 .5809E-05	807.36299 349.852 .5958E-03	807.36671 -65 349.846 .2383E-02	807.41195 -81 613.908 .8172E-03	807.42233 -57 613.902 .3265E-02
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$S_{\mathbf{i}}$.5312E-02	.1328E-02	.3034E-U2	10012001.	.4363E-02	.5882E-04	.1471E-04	.3563E-02	.3462E-02	.8655E-03	.8889E-03	.2632E-04	.1054E-03	.6541E-03	.2616E-02	.4148E-02	.1035E-02	.6159E-04	.9444E-03	.1233E-03	.4798E-02	.1887E-02	.1197E-02	.1197E-04	.2922E-04	.5500E-02	.1170E-03	.3254E-03	.1302E-02	.1374E-02	.6262E-02	.1562E-02	.9678E-04	.8579E-03	.2143E-03	.2420E-04	.7065E-02
E,	126.081	126.076	634.573	106.460	173.757	273.013	273.008	595.767	230.649	230.643	595.762	345.151	345.146	296.742	296.737	558.249	558.243	426.480	372.029	426.475	522.018	372.023	522.012	1107.059	517.000	487.075	516.994	456.509	456.504	487.069	453.420	453.415	616.694	550.168	550.162	616.688	421.055
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V.	809.87618	809.87946	809.90416	06026.600	809-92511 809-92655	809.97329	809.97720	809.98084	809.98158	809.98553	809.99690	810.03713	810.04054	810.04636	810.04965	810.05473	810.07004	810.11127	810.12159	810.12219	810.12586	810.12617	810.14042	810.17134	810.19188	810.19424	810.19848	810.20343	810.20715	810.20806	810.25990	810.27297	810.28371	810.29584	810.30100	810.31542	810.32285
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W.	.748	1.028	.949	.949	1.029	1001	.946	1.007	1.034	.944	.944	1.035	898.	.895	1.037	.903	106.	.992	1.040	606.	206.	1.039	1.000	1.000	.914	.912	1.000	1.000	1.001	1.001	1.010	1.010	1.043	.920	.957	.956	.917
S; W;	.1329E-04 .748	.6131E-04 1.028	.2869E-03 .949	.7172E-04 .949	.3069E-04 1.029	4054F-04 .947	.1620E-03 .946	.1088E-04 1.007	.7436E-05 1.034	.4374E-04 .944	.8748E-04 .944	.2978E-04 1.035	.1212E-02 .898	.3021E-03 .895	.9216E-05 1.037	.1477E-02 .903	.3685E-03 .901	.1382E-05 .992	.2670E-05 1.040	.1789E-02 .909	.4463E-03 .907	.1067E-04 1.039	.3619E-02 1.000	.7237E-02 1.000	.2149E-02 .914	.5360E-03 .912	.1060E-01 1.000	.5298E-02 1.000	.8840E-02 1.001	.2210E-02 1.001	.2015E-02 1.010	.8059E-02 1.010	.5814E-05 1.043	.2564E-02 .920	.1536E-02 .957	.6137E-02 .956	.6389E-03 .917
E'' S, W,	1073.447 .1329E-04 .748	699.673 .6131E-04 1.028	803.790 .2869E-03 .949	803.785 .7172E-04 .949	699.667 .3069E-04 1.029	0.07 500 4054F-04 .947	927.503 .1620E-03 .946	815.112 .1088E-04 1.007	939.717 .7436E-05 1.034	1060.361 .4374E-04 .944	1060.355 .8748E-04 .944	939.711 .2978E-04 1.035	847.873 .1212E-02 .898	847.867 .3021E-03 .895	1073.452 .9216E-05 1.037	802.646 .1477E-02 .903	802.640 .3685E-03 .901	1368.290 .1382E-05 .992	1216.319 .2670E-05 1.040	758.701 .1789E-02 .909	758.695 .4463E-03 .907	1216.313 .1067E-04 1.039	58.366 .3619E-02 1.000	58.361 .7237E-02 1.000	716.040 .2149E-02 .914	716.034 .5360E-03 .912	25.948 .1060E-01 1.000	25.942 .5298E-02 1.000	* 27.530 .8840E-02 1.001	27.525 .2210E-02 1.001	38.339 .2015E-02 1.010	38.334 .8059E-02 1.010	1368.295 .5814E-05 1.043	674.664 .2564E-02 .920	87.617 .1536E-02 .957	87.612 .6137E-02 .956	674.658 .6389E-03 .917
	1073.447 .1329E-04 .748	699.673 .6131E-04 1.028	803.790 .2869E-03 .949	803.785 .7172E-04 .949	699.667 .3069E-04 1.029 915.117 AA57F 0A 1.021	097 509 4054F-04 947	927.503 .1620E-03 .946	815.112 .1088E-04 1.007	939.717 .7436E-05 1.034	1060.361 .4374E-04 .944	1060.355 .8748E-04 .944	939.711 .2978E-04 1.035	62 847.873 .1212E-02 .898	847.867 .3021E-03 .895	1073.452 .9216E-05 1.037	-24 802.646 .1477E-02 .903	802.640 .3685E-03 .901	1368.290 $.1382E-05$ $.992$	1216.319 .2670E-05 1.040	7 758.701 .1789E-02 .909	758.695 .4463E-03 .907	1216.313 .1067E-04 1.039	58.366 .3619E-02 1.000	51 58.361 .7237E-02 1.000	-58 716.040 .2149E-02 .914	716.034 .5360E-03 .912	166 25.948 .1060E-01 1.000	25.942 . $5298E-02$ 1.000	-316* 27.530 .8840E-02 1.001	27.525 .2210E-02 1.001	38.339 .2015E-02 1.010	-44 38.334 .8059E-02 1.010	1368.295 .5814E-05 1.043	-32 674.664 .2564E-02 .920	87.617 .1536E-02 .957	-32 87.612 .6137E-02 .956	674.658 .6389E-03 .917
u o-c E'' S, Wi	809.07407 1073.447 .1329E-04 .748	809.13733 699.673 .6131E-04 1.028	809.14212 803.790 .2869E-03 .949	809.14813 803.785 .7172E-04 .949	809.14850 699.667 .3069E-04 1.029	809.20219 010.111 019.012-01 10011 800 95230 097 509 4054F-04 947	RN9 25812 927.503 .1620E-03 .946	809.36113 815.112 .1088E-04 1.007	809.37064 939.717 .7436E-05 1.034	809.37559 1060.361 .4374E-04 .944	809.38206 1060.355 .8748E-04 .944	809.39301 939.711 .2978E-04 1.035	809.47805 62 847.873 .1212E-02 .898	809.49844 847.867 .3021E-03 .895	809.50383 1073.452 .9216E-05 1.037	809.56905 -24 802.646 .1477E-02 .903	809.58874 802.640 .3685E-03 .901	809.60343 1368.290 .1382E-05 .992	809.63744 1216.319 .2670E-05 1.040	809.65713 7 758.701 .1789E-02 .909	809.67611 758.695 .4463E-03 .907	809.68240 1216.313 .1067E-04 1.039	809.74072 58.366 .3619E-02 1.000	809.74227 51 58.361 .7237E-02 1.000	809.74233 -58 716.040 .2149E-02 .914	809.76059 716.034 .5360E-03 .912	809.76314 166 25.948 .1060E-01 1.000	809.76467 25.942 .5298E-02 1.000	809.76847 -316* 27.530 .8840E-02 1.001	809.77032 27.525 .2210E-02 1.001	809.78117 38.339 .2015E-02 1.010	809.78308 -44 38.334 .8059E-02 1.010	809.78957 1368.295 .5814E-05 1.043	809.82466 -32 674.664 .2564E-02 .920	809.83607 87.617 .1536E-02 .957	809.83845 -32 87.612 .6137E-02 .956	809.84220 674.658 .6389E-03 .917
	0 809.07407 1073.447 .1329E-04 .748	3 809.13733 699.673 .6131E-04 1.028	2 809.14212 803.790 .2869E-03 .949	0 809.14813 803.785 .7172E-04 .949	1 809.14850 699.667 .3069E-04 1.029	2 809.20219 010.111	1 809 25812 927.503 .1620E-03 .946	n 809.36113 815.112 .1088E-04 1.007	3 809.37064 939.717 .7436E-05 1.034	2 809.37559 1060.361 .4374E-04 .944	0 809.38206 1060.355 .8748E-04 .944	1 809.39301 939.711 .2978E-04 1.035	2 809.47805 62 847.873 .1212E-02 .898	0 809.49844 847.867 .3021E-03 .895	2 809.50383 1073.452 .9216E-05 1.037	2 809.56905 -24 802.646 .1477E-02 .903	0 809.58874 802.640 .3685E-03 .901	0 809.60343 1368.290 .1382E-05 .992	3 809.63744 1216.319 .2670E-05 1.040	2 809.65713 7 758.701 .1789E-02 .909	0 809.67611 758.695 .4463E-03 .907	1 809.68240 1216.313 .1067E-04 1.039	2 809.74072 58.366 .3619E-02 1.000	0 809.74227 51 58.361 .7237E-02 1.000	2 809.74233 -58 716.040 .2149E-02 .914	0 809.76059 716.034 .5360E-03 .912	3 809.76314 166 25.948 .1060E-01 1.000	1 809.76467 25.942 .5298E-02 1.000	2 809.76847 -316* 27.530 .8840E-02 1.001	0 809.77032 27.525 .2210E-02 1.001	3 809.78117 38.339 .2015E-02 1.010	1 809.78308 -44 38.334 .8059E-02 1.010	2 809.78957 1368.295 .5814E-05 1.043	2 809.82466 -32 674.664 .2564E-02 .920	3 809.83607 87.617 .1536E-02 .957	1 809.83845 -32 87.612 .6137E-02 .956	0 809.84220 674.658 .6389E-03 .917
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Ű	Ji 9706E AA	FU-20016.	.4329E-U2	.2165E-02	.4520E-04	.1808E-03	.3486E-02	.8706E-03	.8785E-04	.1759E-03	.6706E-03	.2682E-02	.3732E-04	.1493E-U3	.9851E-U3	.1970E-02	.1146E-U3	.3459E-03	.1384E-02	.2862E-04	.8081E-04	.4044E-04	.9270E-03	.2318E-03	.5309E-04	.5936E-03	.2968E-03	.8145E-05	.1295E-04	.3261E-04	.3625E-03	.9062E-04	.9421E-05	.1226E-05	.5284E-04	.2113E-03	.1260E-0	.6284E-0	.2565E-0
110	E.	202.182	154.319	154.314	361.997	361.992	208.618	208.612	445.913	445.908	272.126	272.120	539.017	539.011	344.829	344.824	641.293	426.729	426.723	641.288	752.740	752.734	517.809	517.803	873.339	618.069	618.064	1003.087	873.334	1003.082	727.492	727.487	1141.964	1447.064	846.076	846.070	833.774	833.768	1289.966
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	V. 0	811.24555	811.25346	811.25611	811.29888	811.30299	811.31579	811.31944	811.36794	811.38139	811.38506	811.38815 -	811.44312	811.45084	811.46463	811.46890 -	811.52983	811.55085	811.55437	811.56629	811.62119	811 63572	811 64749	811 65233	811 79581	811 75048	811 75440	811.83275	811.84873	811.85997	2 811.86401	1 811,86937	2 811.95568	0 811 95967	3 811 98356	1 811 98786	2 819 04409	J 819 05509	3 812.07739
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959 959 .954 l.042 .959 .959 .957 .956 .964 .963 .968 953 .955 .967 .045 .971 .971 W. .954 1.043 .954 .975 .974 .978 .978 .048 .981 .981 .984 .984 .951 .951 .987 .987 989. 989 991 993 991 6444E-03 3222E-03 1115E-05 5656E-02 9170E-05 6127E-02 1132E-01 4008E-03 1001E-03 6570E-02 [225E-0] 1315E-01 6978E-02 2436E-05 5940E-04 9726E-05 [397E-0] 1468E-01 7338E-02 2376E-03 7627E-02 1527E-01 1570E-01 7848E-02 4907E-05 7971E-02 7991E-02 134E-03 [594E-01 6722E-04 598E-01 7897E-02 7672E-02 579E-01 534E-01 1463E-01 7314E-02 1363E-01 Ś 584.418 290.385 290.380 264.469691.268 216.532488.376 1178.151 264.475 239.857 216.526 584.424239.851 194.500194.495 173.762 691.274 328.717 807.287 173.757 154.319 136.170 136.165 328.711 154.314 932.445 488.382 103.758 807.281 119.316 119.311 932.439 .03.752 89.495 89.489 76.527 76.522 Ë 856 64. 190* 52 31 l 2 149 122 141 -21 -21 -28 œ -12 -17 -15 24 813.13876 813.10452 813.10824 813.12276 813.14425 813.17716 813.18929 813.19443 813.22220 813.22726 813.23714 813.28236 813.24196 813.29286 813.32495 813.32913 813.28685 813.34596 813.34690 813.35005 813.36493 813.36882 813.40233 813.42945 813.43716 813.44050 813.40594 813.46944 813.47252 813.48017 313.49917 813.52638 813.48571 813.50202 813.55108 813.52900 813.55350 813.57328 š 000-02-00 **~** \sim \sim 3 18 3 18 3 17 3 17 3 17 27 27 30 165 16 $\mathbf{29}$ 29 15 14 30 14 13 32 13 12 31 31 Ξ $\dots \infty \dots \dots$ 10 10 19 19 က 3 П 3 20 \geq ŝ \mathbf{c} ကက 2 \mathfrak{S} က 00 J 0 0 ΔK 1 7 7 7 7 7 .972 .972 1.028 .918 .917 .970 .969 1.030 912 .025 911 1.027 02 .924 .923 .967 1.029 .930 .929 1.033 .967 .034 .965 M .964 .935 .934 1.036 .940 940 962 962 945 946 .039 .012 .039 .950 .950 .1124E-03 4386E-02 2250E-03 2191E-02 8612E-03 3445E-02 4429E-04 1773E-03 5082E-02 2538E-02 6764E-03 2703E-02 1286E-03 3211E-04 5843E-02 2918E-02 1013E-02 2027E-02 6665E-02 3329E-02 8679E-04 434E-04 3627E-03 1449E-02 7534E-02 3763E-02 5489E-04 8448E-02 4224E-02 9898E-03 2475E-03 9404E-02 4697E-02 8164E-05 1341E-04 1036E-01 3266E-04 5179E-02 ŝ 544.135 507.909 466.639 166.634 187.875 507.903248.802 187.881 562.327 562.321 248.797 667.184 544.141 472.965 667.179 439.310 781.209 398.239 472.959 318.916 398.233 318.921 439.304 781.204 904.384 375.868 375.862 346.082 406.944 406.938 346.077 317.588 486.740 036.699 317.582 486.734 036.704 904.379 È 276* 193* č 64 16-35 -39 23 17 65 64 24 œ 32 23 168 34 51 812.63585 812.62189 812.63792 812.64425 812.64792 812.69159 812.70045 812.65129 812.70856 812.71658 812.72172 812.72462 812.77315 812.77840 812.78605 812.80964 812.80567 812.81423 812.84540 812.85268 812.87509 812.89962 812.85887 312.89631 812.90959 812.91650 812.97099 812.97754 812.99722 812.95831 813.00175 813.03583 813.08556 813.02964 813.05944 .09139 813.08678 813.08898 ż 813.4 3021032 3 ь 16 28 15 15 18 18 27 27 17 20 24 24 23 23 23 22 23 23 24 21 26 21 2 8 4 4 23 ເມຍາຍາຍ 4 ŝ 14 33 9 ŝ ŝ 5 3 7 7 5 X 91 3 ŝ က $\infty \infty \infty$ က 5 3 9 0 0 0 0 0 0 4 0 ΔK Π 7 7 7 7

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l.045 .959 .959 956 819 .964 .964 .962 1.047 797. .794 1.050 956 808 805 1.035 .038 .041 1.041 1.014 .044 W; .977 .975 .975 .975 .975 .975 .972 .972 .972 .967 .967 .931 .961 3761E-03 2272E-05 9070E-05 229E-02 3060E-03 4477E-05 3594E-04 2638E-03 510E-02 7994E-05 2603E-03 8753E-05 6912E-03 3453E-03 4372E-03 .093E-03 1842E-02 [997E-03 1387E-03 6693E-03 2677E-02 3460E-04)023E-04 4512E-04 026E-02 2049E-02 5528E-04 3742E-03 1497E-02 9920E-06 3198E-04 1350E-04 1041E-02 982E-02 4993E-04 3336E-02 8340E-03 1022E-04 Ś 778.469 778.463 936.718 456.956 552.067 656.342 656.337 823.699 823.693 769.779 586.929 168.438 226.772 371.040 368.752 769.784 734.522 694.367 226.767 071.609 936.712 552.062 368.746 530.977 1530.971 071.603 215.623 586.924 168.432 178.145 694.361 810.969 810.963 294.306 294.300 371.035 456.961 [19.31]È -163ဇု 143 -65 126 98 25 23 41 0 80789 813.90891 813.93727 814.14836 814.23976 814.24289 814.27312 814.28317 814.31496 814.32112 814.34498 814.34922 814.39565 814.45663 814.46015 814.56197 314.58327 814.61523 314.63058 314.63659 814.71041 314.71327 814.72818 813.97795 813.98419 814.05903 814.05918 814.09368 814.50530 314.70651 813.98105 814.01364 814.11157 814.14468 314.57851 813.94730 814.18791 814.05631 ž 814. 0 0 0 - 3 0 - \sim 2 2 ь 35 35 3333 28 8 14 28 21 16 16 24 31 3 26 2625 2 14 23 23 21 81 6 6 6] 19 2 8 2 8 16 so so 9 2 Π Π 2 6 7 7 17 17 4 4 8 4 ທີ່ ທີ 4 2 6 \geq J ΔK .015 .002 .002 000 000. .945 1.012 .014 .017 .017 .020 .021 .023 .023 .978 978 977 948 998 999 999 .000 000 .011 .000 945 976 976 020 027 995 997 948 966 993 995 997 Ň. 2953E-03 1407E-02 5628E-02 2646E-02 5291E-02 3658E-03 1829E-03 3715E-03 3743E-04 9296E-04 9359E-05 [221E-02 4885E-02 8284E-04 3314E-03 4497E-02 1124E-02 [340E-03 2682E-03 3963E-02 1235E-01 3728E-02 1864E-02 3955E-04 1584E-03 6840E-02 1710E-02 7389E-04 8836E-02 4418E-02 6536E-02 3268E-02 6817E-02 6175E-02 5381E-02 1815E-04 7261E-04 076E-01 Ś 48.714 48.709 79.399 19.316 248.969 248.964 210.157 79.405 37.616 25.94825.942 11.965 14.993 14.987 27.235 399.567 188.659 88.653 54.476 45.40345.398 31.136 135.175 135.169 11.960 87.466 27.241 319.671 210.163 319.666 399.573 187.461 066.738 37.621 31.131 54.481 066.744 64.851 È -33 26 ŝ 19 76 5 -19 -18 ကို 8 Ξ č 90659 313.84512 89173 813.72115 813.72829 813.76645 813.77062 813.79287 313.84763 313.87309 313.71068 813.71962 813.72508 813.59298 813.68164 813.69388 813.70904 313.81991 813.59504 313.61020 813.61212 313.62014 813.62459 313.62495 313.62673 313.63722 813.63890 813.64704 813.64863 813.67182 813.68317 313.69751 813.77451 313.77661 813.79091 813.81431 813.66981 813.5755. 5 813.8 813.9 - 3008-3 2 0 $\infty - \infty -$ 3 3 0 0 1302021 0 13 3 ь 10 7 9 33 33 33 13 13 35 **∞** ∞ 15 15 10 12 33 ഹഹ x Ξ 6 2 4 2 4 2 2 3 2 6 \cdots <u></u> ŝ œ 0 \$ \$ œ × 000 0 0 0 J 7 7 ΔK

ΔΚ ΔJ	K J	ь	ŗ,	о -С	E_i''	S:	W.	$\Delta K \Delta J$	K	J a	2		ž	E!!	ů. S	W.
-1	2 33	0	814.82235		734.516	.4583E-03	.815	-1	1 1	3 20	3 815.1	8013		612.823	.5408E-04	1.031
1-1	12 30	2	814.84482		892.374	.7589E-04	.953	 ,	1	3 20	1 815.1	9133		612.817	.2163E-03	1.031
1 -1	12 30	0	814.85007		892.369	.1518E-03	.953	י די		3 11	3 815.2	2990		103.758	.3645E-02	980
	2 32	2	814.89916	44	691.859	.2228E-02	.829	-	0	2 28	2 815.2	3154	-56	534.060	.4421E-02	868.
-1	2 32	0	814.91315		691.853	.5551E-03	.826			3 11	1 815.2	3208		103.752	.1822E-02	.980
 	9 9 9	2	814.93518		99.873	.1074E-03	1.010	7	0	2 28	0 815.2	4353	-12	534.055	.1102E-02	.865
	99	0	814.93746		99.868	.2149E-03	1.010	-	1 1	1 22	2 815.2	5128		722.839	.1448E-03	1.034
	- 38 - 1	~	814.94433		145.548	.1006E-03	1.013	-1	1 1	4 22	0 815.3	0111		722.834	.3610E-04	1.031
	- 8	-	814.94663		145.542	.4026E-03	1.013	-	Ţ	113	2 815.3	0584	69	150.290	.3155E-02	978
	8 10	5	814.96332		200.430	.5058E-03	1.016		0	2 27	2 815.3	. 6990	-17	497.827	.5144E-02	.877
	8 10	0	814.96777		200.425	.1265E-03	1.016	-	1	1 13	0 815.3	0869		150.284	.7880E-03	977
-1	2 31	2	814.98711	173	650.481	.2676E-02	.839		0	2 27	0 815.3	1816	34	497.822	.1282E-02	.874
	13 32	m	814.98892		1024.109	.2086E-04	.951	-1	11	5 24	3 815.3.	2559		842.018	.9131E-04	1.037
	9 12	~~ ·	814.98924		264.523	.5236E-03	1.019	- - -	1 15	5 24	1 815.3	4514		842.012	.4565E-04	1.037
	9 12	-	814.99295		264.518	.2618E-03	1.019	1	0	2 26	2 815.3	7875	ŝ	462.883	.5932E-02	.885
	13 32		814.99317		1024.103	.8334E-04	.950	- -	-	5 15	3 815.30	8878		206.036	.6494E-03	.975
0	2 31	0	815.00062		650.475	.6665E-03	.836	-1	0	2 26	0 815.30	8969	17	462.877	.1480E-02	.883
	1	~~ ·	815.01352		9.804	.1155E-02	1.001	-	1	5 15	1 815.3	9134 -	-87	206.030	.2598E-02	.975
	1 3	-	815.01510	-30	9.799	.4621E-02	1.001	-1	1 20	34	9 815.4	0640	-	1574.847	.8620E-06	.902
	10 14	2	815.02547		337.813	.4778E-03	1.022	.	1 16	3 26	2 815.4	1456		970.340	.5439E-04	1.040
·	10 14	0	815.03505		337.808	.1194E-03	1.022	-	0	2 25	2 815.4	4776 -	50	429.227	.6794E-02	894
	0 5	2	815.03772		19.458	.2202E-02	1.000	7	0	25 (0 815.4	5817	77	429.221	.1695E-02	.892
	0 5	0	815.03925	18	19.453	.4404E-02	1.000	; 	-	3 17	2 815.4	8161		270.983	.1018E-02	.972
	11 16 2 20		815.06792		420.301	.9901E-04	1.025	-	1	3 17 (9 815.48	8502]	75	270.978	.2036E-02	.972
	2 30		815.07179	196*	610.388	.3189E-02	.849	-	1 12	28	3 815.5(391		1107.800	.7670E-05	1.043
	11 16 8 80	- 4	815.07431		420.296	.3961E-03	1.025		0	24	2 815.5	1376 -	11	396.860	.7712E-02	.902
 	2 30	-	815.08481		610.382	.7943E-03	.846	-1	0	24 (3 815.5	2364	48	396.855	.1924E-02	006.
 	10 29	⊃ <	815.10127		1215.617	.1125E-04	.670	-	1	28	1 815.5;	3789	_	1107.794	.3065E-04	1.042
	- 1		815,10482	à	38.339	.1057E-02	.982	7	1 16	3 26 (3 815.5	5184		970.334	.1330E-04	1.017
	1 1	-	815.10666	-25	38.334	.4223E-02	.981	-1	0	23	2 815.57	7680	ų	365.783	.8682E-02	.910
 	12 18	~	815.12152		511.971	.1516E-03	1.028	, 	1	19	3 815.58	8119		345.134	.3800E-03	.970
	12 18	0	815.14278		511.966	.3032E-03	1.028	, 	1 7	19	1 815.56	3413 1	20	345.129	.1518E-02	.969
	14 34	2	815.14338		1164.968	.4371E-04	.948	-1	0	23 () 815.56	3615 -	82	365.778	.2166E-02	908
	14 34	0	815.14908		1164.962	.1092E-04	.947		1 18	30	2 815.61	1110	-	254.380	.8205E-05	1.046
	5 76 7	2	815.15325	0	571.580	.3767E-02	.858	-1	0	22	3 815.65	3691	4	335.997	.9684E-02	-212
	2 9	N	815.16373	79	66.437	.4015E-02	.982	-1 (0	22 (815.64	1573	99	335.992	.2418E-02	.916
 	67 Z	- -	815.16576		571.575 22 225	.9395E-03	.856	-	1 8	21 2	815.66	920		428.473	.1079E-02	.967
	7	-	60001.610		00.432	.1004E-02	.982	-	67	51	815.65)414 -	35	307.503	.1072E-01	.925

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1.1.1.1.1 _

W_i	.992	.991	1.012	.955	1.012	1.009	1.015	1.009	1.015	. 994	.994	1.018	1.018	.746	966.	966.	1.020	.998	1.021	866.	666.	666.	1.000	1.000	1.024	1.024	1.000	1.000	1.026	1.027	1.000	1.000	.953	.952	1.030	1.030	.986	.986
Si	.1401E-01	.3500E-02	.2708E-03	.1694E-03	.5416E-03	.7255E-04	.1718E-03	.2902E-03	.6871E-03	.1256E-01	.3141E-02	.7235E-03	.1809E-03	.1171E-04	.1084E-01	.2711E-02	.6736E-03	.8847E-02	.3371E-03	.2212E-02	.6541E-02	.1635E-02	.3813E-02	.9533E-03	.5725E-03	.1431E-03	.8836E-03	.3535E-02	.1123E-03	.4496E-03	.1708E-02	.3415E-02	.2367E-04	.9458E-04	.1648E-03	.3296E-03	.8641E-03	.3457E-02
E_i'	44.391	44.385	108.951	853.584	108.945	69.903	157.217	69.898	157.212	35.312	35.307	214.690	214.685	1254.374	27.530	27.525	281.372	21.045	281.367	21.040	15.856	15.851	11.965	11.960	357.250	357.244	5.913	5.908	442.323	442.317	12.973	12.968	982.758	982.752	536.576	536.570	29.260	29.255
ч С	47									20					12			-22			240*							-31				46						-89
'n	816.20918	816.21163	816.21227	816.21259	816.21500	816.21550	816.21623	816.21732	816.21885	816.22652	816.22873	816.23010	816.23544	816.23568	816.24136	816.24337	816.25071	816.25371	816.25494	816.25555	816.26358	816.26528	816.27097	816.27257	816.28177	816.29292	816.31558	816.31712	816.31875	816.32597	816.35168	816.35322	816.35591	816.35996	816.36713	816.39103	816.41644	816.41819
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W.	996	923	049	931	930	046	938	964	.937	964	.052	.944	.943	.950	.949	.961	.961	.956	.955	.961	.960	.966	.965	1176.	026.	.958	.958	.975	.975	.979	979	.983	.982	.986	-986	989.	989.	.955
$S_{\mathbf{i}}$.2696E-03	.2675E-02	.2084E-05 1.	.1175E-01	.2933E-02	.8312E-05 1	.1277E-01	.7303E-03	.3188E-02	.3651E-03	.4024E-05 1	.1374E-01	.3431E-02	.1464E-01	.3657E-02	.4707E-03	.1177E-03	.1546E-01	.3860E-02	.1613E-01	.4029E-02	.1666E-01	.4161E-02	.1701E-01	.4248E-02	.7229E-04	.2892E-03	.1714E-01	.4284E-02	.1704E-01	.4259E-02	.1669E-01	.4168E-02	.1607E-01	.4017E-02	.1518E-01	.3795E-02	.8468E-04
E!!	428.468	307.497	1410.071	280.299	280.294	1410.065	254.388	521.000	254.383	520.995	1574.853	229.770	229.764	206.444	206.439	622.699	622.694	184.412	184.407	163.674	163.669	144.230	144.225	126.081	126.076	733.568	733.563	109.227	109.222	93.668	93.663	79.405	79.399	66.437	66.432	54.766	54.761	853.589
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ä	815.69472	815.70242	815.71466	815.74850	815.75627	815.77378	815.80005	815.80679	815.80730	815.81012	815.84061	815.84881	815.85556	815.89481	815.90107	815.93291	815.93739	815.93809	815.94387	815.97867	815.98400	816.01659	816.02147	816.05186	816.05632	816.06519	816.06889	816.08451	816.08857	816.11456	816.11825	816.14204	816.14537	816.16695	816.16997	816.18933	816.19205	816.20763
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 $\begin{array}{c} .963\\ .6543\\ .6514\\ .651\\ .651\\ .651\\ .651\\ .669\\ .669\\ .672\\ .669\\ .1013\\ 1.013\\ 1.013\\ 1.013\\ 1.013\\ 1.013\\ 1.013\\ 1.013\\ 1.023\\ 1.023\\ 1.025\\ 1.025\\ .690\\ .025\\ .690\\ .025\\ .690\\ .025\\ .957\\ .957\\ .957\\ .957\\ .953\\ .95$ L.029 L.031 L.000 L.000 L.031 L.031 .705 000. 000 034 035 ž 2450E-03 4589E-03 9187E-03 9311E-03 1801E-03 8086E-03 3925E-03 4047E-03 6510E-03 1629E-03 2269E-02 1225E-03 3807E-03 1516E-02 1166E-04 7828E-04 3128E-03 4676E-03 1862E-02 9809E-03 7212E-03 2330E-03 9823E-04 5696E-03 9340E-04 1866E-03 4905E-03 1733E-03 5976E-03 2390E-02 3467E-03 5874E-03 2742E-02 5785E-04 1170E-02 2339E-02 2316E-03 1249E-03 ŝ 698.635 119.325 119.319 299.516 685.815 170.182 77.684 77.679 230.240 45.258 45.253 377.980 465.637 816.090 816.084 3.319 3.313 562.467604.343 604.337 668.479 728.479 728.473 294.415 698.640 685.810 230.245 299.510 644.436 377.974 465.632 562.472 70.177 644.431 7.785 7.779 590.340568.484 Ë 362* 423* 215* -500* -16 -118 -70 ĭ -67 -62 30 817.34575 817.35288 817.42548 817.45383 817.48548 817.48844 817.49706 817.51495 817.54388 817.55073 817.64366 817.38363 817.42197 817.44683 817.48675 817.48999 817.49507 317.50049 817.50944 817.51303 817.51424 817.53530 817.54807 817.56678 817.56858 817.61672 817.66302 817.57326 817.57484 817.65726 817.66148 817.49421 817.63644 817.63697 817.2895 817.60991 817.61521 817.67086 ž - - -0 3 2 0 2 \mathbf{O} 2 \sim b 12 328833 2 œ 2 99 14 30 24 œ 14 4 16 30 4 31 16 3 18 28 28 18 8 20 22 ຕ 22 -2 2 2 90 Π œ 80 4 6 4 ្ឋ Ξ 2 12 1 1 9 ŝ ŝ 11 \mathfrak{S} 0 × 00 -ΔJ 7 5 -٦ . ΔK 7 .949 .033 .983 .983 .039 .980 .980 .042 .947 .947 .978 .977 1.045 1.044 1.019 1.019 1.019 1.048 1.048 1.048 1.048 1.048 .985 .036 .950 .038 .972 .048 .969 .969 .617 614 .966 .032 .033 985 966 636 633 963 X 1472E-03 5666E-04 2269E-03 3431E-02 8578E-03 3670E-04 3239E-02 619E-02 9020E-04 4514E-04 2897E-02 7243E-03 5245E-04 2563E-04 2457E-02 7227E-05 2888E-04 7567E-05 5044E-04 260E-04 282E-04 6149E-03 283E-04 899E-03 978E-02 3783E-03 883E-05 513E-02 7511E-05 1099E-02 2748E-03 2461E-03 9796E-03 7596E-03 3798E-03 3076E-03 224E-02 1996E-03 Ś 133.436 .005.243 248.949 640.003 752.602 89.489 268.476 186.593 1452.667 817.656 54.766 121.055 752.597 89.495 268.470 248.954 640.008 54.761 874.356 874.350 133.431 005.249 186.588 145.278 145.272 294.421 452.673 320.514 401.276 491.224 191.218 772.426 90.345 121.050 320.520 401.271 817.651 772.420 È ည 5 26-25 134 -56 -14 -94 č 4 816.48010 816.81960 816.48602 816.55099 816.55456 816.57576 816.63416 816.63823 816.67838 816.72151 816.77898 816.82348 816.92093 816.92332 817.03819 817.13858 817.15496 817.24782 816.43253 816.51439 816.53997 816.63154 816.68277 316.81644 816.92054 817.24056 816.42014 816.51981 816.55304 816.72164 816.75771 816.98231 817.03451 817.13121 817.15811 816.71911 817.28537 816.4822] ž 000 0 0 ь 12 ø $\frac{23}{33}$ 33 23 10 10 25 25 12 $\begin{array}{c} 27\\ 35\\ 35\\ 35\\ 14\\ 14\\ 12\\ 29\\ 29\\ 29\\ 29\\ \end{array}$ 27 1616 18 33 $\frac{18}{33}$ 35 35 35 22 22 2231 20 20 24 21 34 34 ចិចច 9 5 5 9] 9 9 8 6 6 2 2 4 4 ŝ 3 ŝ ß 4 4 1 1 œ œ 6 6 10 Ľ 0 0 00 2 7 7 7 7 ΔK

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W_i	776.	776.	.821	1.050	.820	.836	.834	.974	.974	.850	.848	.863	.862	126.	.971	.876	.875	888.	.887	.968	.968	006.	899.	.855	.911	.910	.922	.921	.965	.965	.931	.931	.941	.940	.949	.949	.957	.957
S:	.9381E-03	.1876E-02	.2031E-02	.6695E-05	.8115E-02	.2290E-02	.9138E-02	.3686E-03	.1474E-02	.2557E-02	.1020E-01	.2826E-02	.1129E-01	.1098E-02	.2746E-03	.3097E-02	.1237E-01	.3358E-02	.1342E-01	.7767E-03	.3884E-03	.3608E-02	.1441E-01	.1120E-04	.3834E-02	.1532E-01	.4033E-02	.1611E-01	.5220E-03	.1305E-03	.4188E-02	.1675E-01	.4306E-02	.1720E-01	.4365E-02	.1746E-01	.4369E-02	.1747E-01
E.'	228.219	228.213	359.736	1496.550	359.730	329.949	329.944	297.199	297.193	301.454	301.449	274.250	274.245	375.372	375.366	248.339	248.334	223.720	223.715	462.737	462.732	200.394	200.389	1335.740	178.362	178.357	157.624	157.618	559.281	559.275	138.180	138.174	120.030	120.025	103.176	103.171	87.617	87.612
j		147			-61		-26				-66		-60	394*			-81		-77				-73			-67		-72				-84		-16		02-		-64
Ä	818.14913	818.15205	818.18363	818.18754	818.18891	818.24760	818.25265	818.25780	818.26041	818.30825	818.31307	818.36564	818.37023	818.37619	818.37962	818.41986	818.42421	818.47094	818.47507	818.50111	818.50408	818.51897	818.52287	818.54143	818.56400	818.56767	818.60608	818.60953	818.63584	818.63977	818.64526	818.64850	818.68160	818.68463	818.71515	818.71798	818.74594	818.74859
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<i></i>	15	15	23	34	23	22	22	17	17	21	21	20	20	3 19	\$ 19	19	19	18	l 18) 21) 21	17	l 17	32	l 16	1 16	1 15	1 15) 23	33	1 14	1 14	1 13	1 13	1 12	1 12	1 11	1 11
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W.	1.037	.955	.955	.990	.725	066.	.722	1.034	1.040	988.	.988	1.041	.742	.740	1.043	.986	.985	.952	.952	.758	.756	1.046	.983	.982	.775	1.046	.773	1.022	1.050	.791	086.	.980	.789	.949	.949	806.	.804	1.052
S.	.1461E-03 1.037	.2655E-04 .955	.1062E-03 .955	.6500E-03 .990	.8242E-03 .725	.2600E-02 .990	.3283E-02 .722	.3642E-04 1.034	.8741E-04 1.040	.2763E-02 .988	.6907E-03 .988	.4375E-04 1.041	.9789E-03 .742	.3905E-02 .740	.4963E-04 1.043	.2751E-02 .986	.1374E-02 .985	.5755E-04 .952	.1439E-04 .952	.1152E-02 .758	.4595E-02 .756	.6694E-05 1.046	.2569E-02 .983	.6417E-03 .982	.1346E-02 .775	.2678E-04 1.046	.5370E-02 .773	.1216E-04 1.022	.6875E-05 1.050	.1558E-02 .791	.5648E-03 .980	.2259E-02 .980	.6216E-02 .789	.2974E-04 .949	.1487E-04 .949	.1786E-02 .806	.7127E-02 .804	.1677E-05 1.052
E'' S. W.	783.655 .1461E-03 1.037	942.692 .2655E-04 .955	942.686 .1062E-03 .955	21.478 .6500E-03 .990	565.535 .8242E-03 .725	21.473 .2600E-02 .990	565.530 .3283E-02 .722	783.649 .3642E-04 1.034	907.982 .8741E-04 1.040	44.391 .2763E-02 .988	44.385 .6907E-03 .988	907.976 .4375E-04 1.041	528.014 .9789E-03 .742	528.009 .3905E-02 .740	1041.445 .4963E-04 1.043	76.527 .2751E-02 .986	76.522 .1374E-02 .985	1078.426 .5755E-04 .952	1078.420 .1439E-04 .952	491.781 .1152E-02 .758	491.776 .4595E-02 .756	1184.040 .6694E-05 1.046	117.878 .2569E-02 .983	117.873 .6417E-03 .982	456.836 .1346E-02 .775	1184.034 .2678E-04 1.046	456.830 .5370E-02 .773	1041.439 .1216E-04 1.022	1335.746 .6875E-05 1.050	423.180 .1558E-02 .791	168.446 .5648E-03 .980	168.440 .2259E-02 .980	423.174 .6216E-02 .789	1223.287 .2974E-04 .949	1223.281 .1487E-04 .949	390.813 .1786E-02 .806	390.807 .7127E-02 .804	1496.556 .1677E-05 1.052
o-c F." S. W.	783.655 .1461E-03 1.037	942.692 .2655E-04 .955	942.686 .1062E-03 .955	21.478 .6500E-03 .990	565.535 .8242E-03 .725	184* 21.473 .2600E-02 .990	565.530 .3283E-02 .722	783.649 .3642E-04 1.034	907.982 .8741E-04 1.040	19 44.391 .2763E-02 .988	44.385 .6907E-03 .988	907.976 .4375E-04 1.041	528.014 .9789E-03 .742	-80 528.009 .3905E-02 .740	1041.445 .4963E-04 1.043	-53 76.527 .2751E-02 .986	76.522 .1374E-02 .985	1078.426 .5755E-04 .952	1078.420 .1439E-04 .952	491.781 .1152E-02 .758	-64 491.776 .4595E-02 .756	1184.040 .6694E-05 1.046	18 117.878 .2569E-02 .983	117.873 .6417E-03 .982	456.836 .1346E-02 .775	1184.034 .2678E-04 1.046	-79 456.830 .5370E-02 .773	1041.439 .1216E-04 1.022	1335.746 .6875E-05 1.050	423.180 .1558E-02 .791	168.446 .5648E-03 .980	26 168.440 .2259E-02 .980	-140 423.174 .6216E-02 .789	1223.287 .2974E-04 .949	1223.281 .1487E-04 .949	390.813 .1786E-02 .806	-96 390.807 .7127E-02 .804	1496.556 .1677E-05 1.052
v:	817.71785 783.655 .1461E-03 1.037	817.72107 942.692 .2655E-04 .955	817.72493 942.686 .1062E-03 .955	817.72575 21.478 .6500E-03 .990	817.72617 565.535 .8242E-03 .725	817.72742 184* 21.473 .2600E-02 .990	817.73268 565.530 .3283E-02 .722	817.77573 783.649 .3642E-04 1.034	817.78057 907.982 .8741E-04 1.040	817.79417 19 44.391 .2763E-02 .988	817.79613 44.385 .6907E-03 .988	817.80339 907.976 .4375E-04 1.041	817.81154 528.014 .9789E-03 .742	817.81787 -80 528.009 .3905E-02 .740	817.85890 1041.445 .4963E-04 1.043	817.86983 -53 76.527 .2751E-02 .986	817.87176 76.522 .1374E-02 .985	817.88362 1078.426 .5755E-04 .952	817.88876 1078.420 .1439E-04 .952	817.89316 491.781 .1152E-02 .758	817.89930 -64 491.776 .4595E-02 .756	817.93633 1184.040 .6694E-05 1.046	817.95503 18 117.878 .2569E-02 .983	817.95743 117.873 .6417E-03 .982	817.97111 456.836 .1346E-02 .775	817.97441 1184.034 .2678E-04 1.046	817.97705 -79 456.830 .5370E-02 .773	818.00258 1041.439 .1216E-04 1.022	818.03278 1335.746 .6875E-05 1.050	818.04546 423.180 .1558E-02 .791	818.04726 168.446 .5648E-03 .980	818.04951 26 168.440 .2259E-02 .980	818.05118 -140 423.174 .6216E-02 .789	818.05171 1223.287 .2974E-04 .949	818.05591 1223.281 .1487E-04 .949	818.11627 390.813 .1786E-02 .806	818.12178 -96 390.807 .7127E-02 .804	818.12406 1496.556 .1677E-05 1.052
	2 817.71785 783.655 .1461E-03 1.037	3 817.72107 942.692 .2655E-04 .955	1 817.72493 942.686 .1062E-03 .955	3 817.72575 21.478 .6500E-03 .990	3 817.72617 565.535 .8242E-03 .725	1 817.72742 184* 21.473 .2600E-02 .990	1 817.73268 565.530 .3283E-02 .722	0 817.77573 783.649 .3642E-04 1.034	3 817.78057 907.982 .8741E-04 1.040	2 817.79417 19 44.391 .2763E-02 .988	0 817.79613 44.385 .6907E-03 .988	1 817.80339 907.976 .4375E-04 1.041	3 817.81154 528.014 .9789E-03 .742	1 817.81787 -80 528.009 .3905E-02 .740	2 817.85890 1041.445 .4963E-04 1.043	3 817.86983 -53 76.527 .2751E-02 .986	1 817.87176 76.522 .1374E-02 .985	2 817.88362 1078.426 .5755E-04 .952	0 817.88876 1078.420 .1439E-04 .952	3 817.89316 491.781 .1152E-02 .758	1 817.89930 -64 491.776 .4595E-02 .756	3 817.93633 1184.040 .6694E-05 1.046	2 817.95503 18 117.878 .2569E-02 .983	0 817.95743 117.873 .6417E-03 .982	3 817.97111 456.836 .1346E-02 .775	1 817.97441 1184.034 .2678E-04 1.046	1 817.97705 -79 456.830 .5370E-02 .773	0 818.00258 1041.439 .1216E-04 1.022	2 818.03278 1335.746 .6875E-05 1.050	3 818.04546 423.180 .1558E-02 .791	3 818.04726 168.446 .5648E-03 .980	1 818.04951 26 168.440 .2259E-02 .980	1 818.05118 -140 423.174 .6216E-02 .789	3 818.05171 1223.287 .2974E-04 .949	1 818.05591 1223.281 .1487E-04 .949	3 818.11627 390.813 .1786E-02 .806	1 818.12178 -96 390.807 .7127E-02 .804	3 818.12406 1496.556 .1677E-05 1.052
ן אַ אַיַ אַ-נ ד <i>ּיַו</i> אַ אַ Wi	24 2 817.71785 783.655 .1461E-03 1.037	30 3 817.72107 942.692 .2655E-04 .955	t 30 1 817.72493 942.686 .1062E-03 .955	5 3 817.72575 21.478 .6500E-03 .990	29 3 817.72617 565.535 .8242E-03 .725	5 1 817.72742 184* 21.473 .2600E-02 .990	29 1 817.73268 565.530 .3283E-02 .722	1 24 0 817.77573 783.649 .3642E-04 1.034	5 26 3 817.78057 907.982 .8741E-04 1.040	7 2 817.79417 19 44.391 .2763E-02 .988	2 7 0 817.79613 44.385 .6907E-03 .988	5 26 1 817.80339 907.976 .4375E-04 1.041	28 3 817.81154 528.014 .9789E-03 .742	28 1 817.81787 -80 528.009 .3905E-02 .740	3 28 2 817.85890 1041.445 .4963E-04 1.043	3 9 3 817.86983 -53 76.527 .2751E-02 .986	3 9 1 817.87176 76.522 .1374E-02 .985	1 32 2 817.88362 1078.426 .5755E-04 .952	1 32 0 817.88876 1078.420 .1439E-04 .952	1 27 3 817.89316 491.781 .1152E-02 .758	1 27 1 817.89930 -64 491.776 .4595E-02 .756	7 30 3 817.93633 1184.040 .6694E-05 1.046	4 11 2 817.95503 18 117.878 .2569E-02 .983	4 11 0 817.95743 117.873 .6417E-03 .982	1 26 3 817.97111 456.836 .1346E-02 .775	7 30 1 817.97441 1184.034 .2678E-04 1.046	1 26 1 817.97705 -79 456.830 .5370E-02 .773	5 28 0 818.00258 1041.439 .1216E-04 1.022	8 32 2 818.03278 1335.746 .6875E-05 1.050	1 25 3 818.04546 423.180 .1558E-02 .791	5 13 3 818.04726 168.446 .5648E-03 .980	5 13 1 818.04951 26 168.440 .2259E-02 .980	1 25 1 818.05118 -140 423.174 .6216E-02 .789	5 34 3 818.05171 1223.287 .2974E-04 .949	5 34 1 818.05591 1223.281 .1487E-04 .949	1 24 3 818.11627 390.813 .1786E-02 .806	1 24 1 818.12178 -96 390.807 .7127E-02 .804	9 34 3 818.12406 1496.556 .1677E-05 1.052
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	E''	761.651	68.603	68 508	647 003	002 006	000.109	357.717	761.646	357.712	327.931	37.621	327.925	37.616	299.435	884.544	299.430	272.232	272.226	246.320	246.315	136,161	221 701	1016 583	15 956	10.000	13.801	221.696	198.375	198.370	884.538	176.343	1016.577	176.338	155.605	601.587	601.581	155.599	136,155	118.011	3.319
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	E''	(70.403	683.798	726.456	409.640	409.634	642.419	683 799	609 395	010 019	014.240	000.010 600.000	002.320	520.997	203.512	301./10	204-019	301./05	216.850	447.929	284.674	216.845	525.991	489.763	543.333	158.222	447.923	158 216	543 398	480 758	454 910	109 007	100.001	108.802	041.908	404.812	421.161	501.023	501.017	421.156	300.194
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Ę"	To 070	10.910	10.912	938.24U 058 934	121.773	121.768	173.779	173.773	1095.412	1095.407	234.990	234.991	1241./05	305.413	305.407	385.029	473.830	305.413	385.023	* 385.029	385.023	011.010 905 407	234.996	234.991	473.824	571.809	1397.106	1397.100	678.967	173.779	173.773	795.285	121.773	678.962	795.279	100.410
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	E.''	3.313 .12(1157.747 .3848	118.006 .1855	101.101	85.598 .925	85.592 .18	71.334 .90	71.329 .181	58.366 .87:	58.361 .174	46.695 .826	46.689 .16	30.319 . (0/ 26 914 159	269 176 26	27.235 .139	19.458 .610	19.453 .12	12.973 .51	12.968 .10	7.785 .4	1308.032 .4	7.779 .8. 6 0 0 6	1.299	3.888	1.294 .3(1308.026 .1	711.316 .1	711.310 .2	1157.741 .9	* 21.045 .5	21.040 .1	830.206	830.201	45.403	40.398
	$\sum E_i''$	3.313 .12(1157.747 .3848	118.006 .1855	101-101	85.598 .925	85.592 .18	71.334 .90	71.329 .181	58.366 .875	58.361 .174	46.695 .826	46.689 .16	30-319 . (0) 96 914 159	001. F10.00 72.941 695	27.235 .139	19.458 .610	19.453 .12	12.973 .51	12.968 .10	7.785 .4	1308.032 .4	7.779 .8	1.299	3.888 .5	1.294 .3(1308.026 .1	711.316 .1	711.310 .2	1157.741 .9	236* 21.045 .5	21.040 .1	830.206	830.201	5 45.403 .	45.398
175	ν_i o-c E''_i	821.50077 3.313 .120	821.50258 1157.747 .3848	821.50531 118.006 .1855	821.50843 101.101 51 586 001 51 400 101 151 186	821.51151 021.5120 891.51797 85.598 .925	821.5238 85.592 .18	821.52534 71.334 .905	821.52988 71.329 .181	821.53268 58.366 .875	821.53668 58.361 .174	821.53929 46.695 .826	821.54280 46.689 .165	821.54515 30.519 .101 261 1 2603 26 314 153	001: F10:00 02040.120 201. 10:00 8003.103	821.55298 27.235 .139	821.55468 19.458 .610	821.55704 19.453 .12	821.55834 12.973 .51	821.56043 12.968 .10	821.56127 7.785 .4	821.56183 1308.032 .4	821.56313 7.779 .8	21.00041 0.004 20156403 1.299 1.	821.56516 3.888 .5	821.56651 1.294 .36	821.60543 1308.026 .1	821.63990 711.316 .1	821.64379 711.310 .2	821.65245 1157.741 .9	821.72232 236* 21.045 .5	821.72392 21.040 .1	821.80527 830.206	821.80859 830.201	821.81246 5 45.403 .	821.81411 45.398
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E_i''	54.476	138.180	138.174	27.530	27.525	120.030	120.025	447.929	447.923	103.176	103.171	1241.697	87.617	87.612	9.804	9.799	73.353	73.348	60.386	60.381	48.714	1.299	48.709	1.294	38.339	38.334	543.333	043.328	29.260	29.255	21.478	21.473	14.993	14.987	9.804	9.799	
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ž	823.95043	823.97846	823.98163	824.00854	824.01075	824.01207	824.01502	824.01729	824.02025	824.04350	824.04623	824.06840	824.07267	824.07522	824.07586	824.07756	824.09957	824.10194	824.12414	824.12635	824.14636	824.14718	824.14843	824.14871	824.16618	824.16813	824.17607	824.17873	824.18359	824.18543	824.19856	824.20031	824.21107	824.21273	824.22109	824.22270	
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W.	1.038	1.033	1.029	1.039	1.124	1.041	1.036	1.125	1.030	1.026	1.027	1.044	1.045	1.023	1.041	1.112	1.024	1.113	1.047	1.020	1.021	976.	1.100	1.050	.976	1.101	1.050	1.017	1.018	1.089	1.044	1.090	1.053	.951	.951	1.079	
S:	.1286E-03	.5677E-03	.1563E-02	.5148E-03	.3981E-02	.1608E-03	.1959E-03	.1594E-01	.3912E-03	.5119E-03	.2049E-02	.4791E-04	.1918E-03	.1273E-02	.3217E-03	.4210E-02	.2549E-02	.1686E-01	.1088E-03	.7515E-03	.3009E-02	.6765E-03	.4411E-02	.5891E-04	.3383E-03	.1766E-01	.2946E-04	.3365E-02	.8420E-03	.4581E-02	.2713E-04	.1834E-01	.3041E-04	.3187E-05	.1275E-04	.4713E-02	
E!'	601.587	409.634	327.439	601.581	248.339	711.316	501.017	248.334	327.434	254.436	254.431	830.206	830.201	190.631	711.310	223.720	190.625	223.715	958.240	136.035	136.030	361.710	200.394	1095.412	361.705	200.389	1095.407	90.649	90.643	178.362	958.234	178.357	1241.703	1351.928	1351.922	157.624	
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W.	1.034	1.045	1.055	1.034	1.031	1.031	1.083	1.055	1.084	1.028	1.048	1.029	1.076	1.076	1.025	.983	1.026	.983	1.069	1.069	1.023	1.023	1.062	.958	.958	1.063	1.020	1.020	1.056	1.057	.980	.980	1.050	1.051	1.018	1.019	1.045	1.045
S:	.1592E-02	.2788E-03	.4603E-04	.3981E-03	.5462E-03	.2185E-02	.1151E-01	.2302E-04	.2879E-02	.1429E-02	.2191E-04	.2861E-02	.1254E-01	.3135E-02	.8913E-03	.5581E-03	.3569E-02	.1395E-03	.1355E-01	.3386E-02	.4248E-02	.1062E-02	.1450E-01	.3070E-04	.7675E-05	.3629E-02	.4836E-02	.2418E-02	.1540E-01	.3854E-02	.5098E-03	.2549E-03	.1620E-01	.4053E-02	.5291E-02	.1324E-02	.1688E-01	.4220E-02
$E''_{\mathbf{i}}$	375.372	779.872	1179.379	375.366	297.199	297.193	335.997	1179.373	335.992	228.219	1037.073	228.213	307.503	307.497	168.446	247.096	168.440	247.090	280.299	280.294	117.878	117.873	254.388	1117.695	1117.689	254.383	76.527	76.522	229.770	229.764	318.954	318.948	206.444	206.439	44.391	44.385	184.412	184.407
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W_i	1.151	1.152	.967	.966	1.141	1.143	1.132	1.133	166.	.991	1.123	1.124	.964	.963	1.115	1.116	988.	988.	1.106	1.107	1.098	1.099	1.043	1.046	1.040	1.049	.986	1.043	986.	1.037	1.090	1.037	.961	1.040	1.049	1.052	.961	1.091
$S_i = W_i$.4365E-02 1.151	.1092E-02 1.152	.3895E-04 .967	.1556E-03 .966	.5057E-02 1.141	.1266E-02 1.143	.5819E-02 1.132	.1456E-02 1.133	.5699E-04 .991	.2280E-03 .991	.6645E-02 1.123	.1663E-02 1.124	.9566E-04 .964	.2389E-04 .963	.7536E-02 1.115	.1886E-02 1.116	.2138E-03 .988	.4276E-03 .988	.8471E-02 1.106	.2120E-02 1.107	.9456E-02 1.098	.2366E-02 1.099	.1158E-03 1.043	.1395E-03 1.046	.7329E-03 1.040	.4009E-04 1.049	.1346E-03 .986	.4630E-03 1.043	.5384E-03 .986	.1106E-02 1.037	.1047E-01 1.090	.5532E-03 1.037	.5564E-04 .961	.1832E-03 1.040	.1604E-03 1.049	.8796E-04 1.052	.2782E-04 .961	.2620E-02 1.091
$E_i'' S_i W_i$	610.388 .4365E-02 1.151	610.382 .1092E-02 1.152	729.306 .3895E-04 .967	729.301 .1556E-03 .966	571.580 .5057E-02 1.141	571.575 .1266E-02 1.143	534.060 .5819E-02 1.132	534.055 .1456E-02 1.133	86.762 .5699E-04 .991	86.757 .2280E-03 .991	497.827 .6645E-02 1.123	497.822 .1663E-02 1.124	849.626 .9566E-04 .964	849.621 .2389E-04 .963	462.883 .7536E-02 1.115	462.877 .1886E-02 1.116	130.995 .2138E-03 .988	130.989 .4276E-03 .988	429.227 .8471E-02 1.106	429.221 .2120E-02 1.107	396.860 .9456E-02 1.098	396.855 .2366E-02 1.099	665.000 .1158E-03 1.043	779.878 .1395E-03 1.046	559.281 .7329E-03 1.040	903.911 .4009E-04 1.049	184.443 .1346E-03 .986	664.994 .4630E-03 1.043	184.438 .5384E-03 .986	462.737 .1106E-02 1.037	365.783 .1047E-01 1.090	462.732 .5532E-03 1.037	979.096 .5564E-04 .961	559.275 .1832E-03 1.040	903.905 .1604E-03 1.049	1037.079 .8796E-04 1.052	979.090 .2782E-04 .961	365.778 .2620E-02 1.091
$o-c = E''_i = S_i = W_i$	26 610.388 .4365E-02 1.151	39 610.382 .1092E-02 1.152	729.306 .3895E-04 .967	729.301 .1556E-03 .966	41 571.580 .5057E-02 1.141	83 571.575 .1266E-02 1.143	37 534.060 .5819E-02 1.132	50 534.055 .1456E-02 1.133	86.762 .5699E-04 .991	86.757 .2280E-03 .991	3 497.827 .6645E-02 1.123	88 497.822 .1663E-02 1.124	849.626 .9566E-04 .964	849.621 .2389E-04 .963	6 462.883 .7536E-02 1.115	79 462.877 .1886E-02 1.116	130.995 .2138E-03 .988	130.989 .4276E-03 .988	16 429.227 .8471E-02 1.106	87 429.221 .2120E-02 1.107	12 396.860 .9456E-02 1.098	48 396.855 .2366E-02 1.099	665.000 .1158E-03 1.043	779.878 .1395E-03 1.046	559.281 .7329E-03 1.040	903.911 .4009E-04 1.049	184.443 .1346E-03 .986	664.994 .4630E-03 1.043	184.438 .5384E-03 .986	462.737 .1106E-02 1.037	20 365.783 .1047E-01 1.090	462.732 .5532E-03 1.037	979.096 .5564E-04 .961	559.275 .1832E-03 1.040	903.905 .1604E-03 1.049	1037.079 .8796E-04 1.052	979.090 .2782E-04 .961	78 365.778 .2620E-02 1.091
ν_i o-c E''_i S_i W_i	825.81325 26 610.388 .4365E-02 1.151	825.82547 39 610.382 .1092E-02 1.152	825.87185 729.306 .3895E-04 .967	825.87469 729.301 .1556E-03 .966	825.88126 41 571.580 .5057E-02 1.141	825.89280 83 571.575 .1266E-02 1.143	825.94750 37 534.060 .5819E-02 1.132	825.95836 50 534.055 .1456E-02 1.133	825.96855 86.762 .5699E-04 .991	825.97016 86.757 .2280E-03 .991	826.01190 3 497.827 .6645E-02 1.123	826.02212 88 497.822 .1663E-02 1.124	826.05969 849.626 .9566E-04 .964	826.06331 849.621 .2389E-04 .963	826.07443 6 462.883 .7536E-02 1.115	826.08402 79 462.877 .1886E-02 1.116	826.09855 130.995 .2138E-03 .988	826.10034 1.30.989 .4276E-03 .988	826.13503 16 429.227 .8471E-02 1.106	826.14403 87 429.221 .2120E-02 1.107	826.19367 12 396.860 .9456E-02 1.098	826.20209 48 396.855 .2366E-02 1.099	826.22197 665.000 .1158E-03 1.043	826.22730 779.878 .1395E-03 1.046	826.23021 559.281 .7329E-03 1.040	826.23389 903.911 .4009E-04 1.049	826.23538 184.443 .1346E-03 .986	826.23630 664.994 .4630E-03 1.043	826.23719 184.438 .5384E-03 .986	826.24175 462.737 .1106E-02 1.037	826.25030 20 365.783 .1047E-01 1.090	826.25103 462.732 .5532E-03 1.037	826.25326 979.096 .5564E-04 .961	826.25499 559.275 .1832E-03 1.040	826.25582 903.905 .1604E-03 1.049	826.25629 1037.079 .8796E-04 1.052	826.25641 979.090 .2782E-04 .961	826.25816 78 365.778 .2620E-02 1.091
σ ν_i σ -c E''_i S_i W_i	2 825.81325 26 610.388 .4365E-02 1.151	0 825.82547 39 610.382 .1092E-02 1.152	3 825.87185 729.306 .3895E-04 .967	1 825.87469 729.301 .1556E-03 .966	2 825.88126 41 571.580 .5057E-02 1.141	0 825.89280 83 571.575 .1266E-02 1.143	2 825.94750 37 534.060 .5819E-02 1.132	0 825.95836 50 534.055 .1456E-02 1.133	3 825.96855 86.762 .5699E-04 .991	1 825.97016 86.757 .2280E-03 .991	2 826.01190 3 497.827 .6645E-02 1.123	0 826.02212 88 497.822 .1663E-02 1.124	2 826.05969 849.626 .9566E-04 .964	0 826.06331 849.621 .2389E-04 .963	2 826.07443 6 462.883 .7536E-02 1.115	0 826.08402 79 462.877 .1886E-02 1.116	2 826.09855 130.995 .2138E-03 .988	0 826.10034 130.989 .4276E-03 .988	2 826.13503 16 429.227 .8471E-02 1.106	0 826.14403 87 429.221 .2120E-02 1.107	2 826.19367 12 396.860 .9456E-02 1.098	0 826.20209 48 396.855 .2366E-02 1.099	3 826.22197 665.000 .1158E-03 1.043	2 826.22730 779.878 .1395E-03 1.046	2 826.23021 559.281 .7329E-03 1.040	3 826.23389 903.911 .4009E-04 1.049	3 826.23538 184.443 .1346E-03 .986	1 826.23630 664.994 .4630E-03 1.043	1 826.23719 184.438 .5384E-03 .986	3 826.24175 462.737 .1106E-02 1.037	2 826.25030 20 365.783 .1047E-01 1.090	1 826.25103 462.732 .5532E-03 1.037	3 826.25326 979.096 .5564E-04 .961	0 826.25499 559.275 .1832E-03 1.040	1 826.25582 903.905 .1604E-03 1.049	2 826.25629 1037.079 .8796E-04 1.052	1 826.25641 979.090 .2782E-04 .961	0 826.25816 78 365.778 .2620E-02 1.091
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	S;	.3949E-03	.9872E-04	.5331E-02	2665F-02	3303F-04	8949F_05	5096F-02	1499F-02	A018F-03	9007F-03	1640F_09	AFRAF 09	20-200000.	.3400E-02 6035E 09	40-36660. 00 30020	1000 TOOL	.4422E-00		.1769E-04	.1684E-02	.1990E-02	.7961E-02	.8418E-03	.2026E-02	.1014E-02	.7262E-04	.2905E-03	.449/E-U3	60-34668.	24222702 00 00 00	1212E-U2	.28/41-02	.1438E-02	.1084E-03	.2168E-U3	.3360E-UZ	1093E-02	.4347E-05
	E.	230.245	230.240	89.495	80.480	1078 097	1079-001	170.0101 5.4 766	04.100 5.4.761	04.101 000 516	239.010	010.662	29.200 00 966	007.67	10.060	12.900	311.900	1224.087	377.974	1224.081	833.774	5.913	5.908	833.768	788.545	788.539	465.637	465.632	1378.354	1378.348	(44.599	744.593	701.937	701.931	562.472	562.467	660.559	0 66U.553	1541.715
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	ä	897 70762	09002 268	00001.120	007 76505	0001.120	021.02094 007 00195	00000 170	621.03030 99119 99119	821.84130	827.86484	821.80019	61126.728	827.92316	827.98711	827.98864	828.03101	828.03302	828.03336	828.03632	828.10542	828.11248	828.11408	828.11482	828.18621	828.19519	828.20356	828.20579	828.25460	828.25882	828.26514	828.27370	828.34217	828.3503	9 828.38508) 828.38784	3 828.4172	1 828.4250	3 828-4812 1 828-4848
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W. - 980 - 980 - 980 - 980 - 996 - 959 966. .019 .959 1.019 1.016 1.017 1.017 1.014 1.014 11011 11011 11009 11.009 11.007 11.007 11.007 $\begin{array}{c} 1.005\\ 1.006\\ 1.004\\ 1.003\\ 1.003\\ 1.002\\ 1.002\\ 1.002\\ 1.002\\ \end{array}$ 776. .956 .956 975 953 1.056 1.059 974 953 1626E-01 8136E-02 4782E-05 2831E-03 7077E-04 2196E-02 8785E-02 1633E-01 8166E-02 7890E-02 1913E-04 1618E-01 8096E-02 1578E-01 7546E-02 [412E-01 7061E-02 [509E-01 6177E-04 6417E-02 2468E-03 5610E-02 9222E-02 [283E-01 1121E-01 4611E-02 6801E-02 3401E-02 3825E-02 912E-02 4970E-05 9940E-05 4903E-05 9747E-04 1947E-03 1226E-05 2812E-04 5879E-04 Ś 154.319 154.314 9.804 1184.040 9.799136.170 357.244 103.758 357.250 119.311 103.752 136.165 119.316 89.495 89.489 76.527 76.522 64.856 442.323 442.317 54.476184.034 45.40337.616 536.576 64.851 54.48145.398 31.136 1496.556 37.621 335.746 1496.550 31.131 335.740 536.570 024.109 164.968 È -26 ľ 111 -89 -24 -23 -26-20 5 52 28 -42 -34 829.36666 829.36712 829.40113 829.39947 829.39985 829.40225 829.40489 829.46518 829.36994 829.40299 829.43494 829.46749 829.49294 829.51823 829.54102 829.3644 829.43741 829.49511 829.52027 829.54294 829.56312 829.57908 829.59432 329.54171 829.56131 829.58080 829.60704 829.54381 829.59597 829.60863 829.62562 829.72778 829.62961 329.85647 829.85992 86872 829.73034 329.86331 329. 3 60 e 15 14 14 3 8 ŝ 13 20 10 80 œ 9 19 32 32 19 2 34 32 34 3 က 3 \mathcal{C} 5 5 ŝ \mathbf{c} 3 \$ 3 ŝ Ξ Ň \$ \$ 3 18 8 12 2 61 \mathbf{C} Š ΔK 0.028 1.065 L.031 .060 .060 .964 .055 ..055 1.027 1.027 .986 .986 .050 ..050 .045 1.026 1.046 1.026 1.041 .964 W. l.041 .961 983 .983 ..030 .961 1.030 1.037 .037 ..033 .033 000 000. .029 .029 .026 .026 4337E-02 3844E-02 4810E-02 4790E-02 9621E-02 1199E-02 5290E-02 5730E-02 2865E-02 6020E-04 3010E-04 1058E-01 2332E-03 5830E-04 1154E-01 5769E-02 6591E-02 6240E-02 6683E-02 8716E-05 1422E-03 1247E-01 1648E-02 1337E-01 3486E-04 2844E-03 1844E-02 7377E-02 7096E-02 1419E-01 7460E-02 3926E-02 7852E-02 1492E-01 1552E-01 7761E-02 1599E-01 7993E-02 ŝ 406.938 375.868 150.290 206.030 907.976 375.862 50.284 907.982 346.077 103.758 103.752 214.690 214.685317.588 290.380 264.475 1041.445 346.082 66.432 264.469 1041.439 281.372 317.582 290.385 66.437 281.367 38.339 239.857 38.334 216.532 19.458 19.453 239.851 216.526 94.500 94.495 73.762 173.757 È -623* 211* 211* 242^{*} -173* 129 42 č 138 -129 -12 -7 33 -52 828.89493 328.95616 328.94431 828.94932 828.96179 328.97168 828.97452 329.00050 329.02802 329.10953 329.03109 329.03168 329.03350 329.05445 828.89121 829.00523 329.05889 329.10612 329.15550 829.11030 329.11286 329.15942 329.18304 329.19550 329.18663 329.19366 829.19962 329.20255 329.24726 329.19747 329.20623 329.25070 329.25836 829.25989 329.32956 .33258 329.28960 329.29283 S. 829. e 13 13 26 2 2622 3 20 20 19 28 28 13 13 2 2 **S** 4 4 ŝ ŝ \$ ŝ ŝ 3 ŝ ŝ œ 3 ŝ 16 16 6 \$ 6 ¥ \sim ŝ 3 ŝ \circ 3 ΔK

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W.	.963	.963	.993	066. 000	.982 .982	096 .	.960	1.000	1.000	1.102	1.102	616. 626	1.096	1.097	1.091	1.091	.958	.957	1.085	1.058	076 976	.976.	1.055	1.058	1.052	1.053	1.080	1.001	100.1	1.004	1.05U	1.047	1.047	1.076
S;	.3610E-04	.9024E-05	.2395E-02	.9060E-UZ	.2000E-09	.5074E-05	.2029E-04	.1166E-01	.2915E-02	.1520E-02	.3801E-03	.1954E-03	.1831E-02	.4583E-03	.2192E-02	.5481E-03	.5403E-05	.1080E-04	.2603E-02	.0313E-U3	8300F_04	.1662E-03	.9079E-04	.9784E-04	.8048E-04	.3222E-03	.3070E-02	04-306-00 72095	./082E-U3	.1514E-U3	.1364E-03	.8831E-03	.4416E-03	.3384E-02 .8994E-03
E''	1005.249	1005.243	14.993	14.96/	337.808	1145.278	1145.272	11.965	11.960	847.873	847.867	420.296	802.646	802.640	758.701	758.695	1294.421	1294.415	716.040	716.034	511 071	511.966	932.445	1066.738	807.287	807.281	674.664	412.160	674.658 000 400	932.439	691.268	584.424	584.418	634.567
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ž	830.54356	830.54693	830.68388	830.68562	830.69771	830.76473	830.76772	830.80199	830.80358	830.80373	830.81649	830.87969 830.87969	830.88699	830.89916	830.96821	830.97980	830.99472	830.99850	831.04738	831.05840	031.000/2 921 06920	831.07067	831.08429	831.09308	831.10139	831.11938	831.12444	831.13324	831.13491	831.13699	831.16489	831.16693	831.17906	831.19939 831.20931
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W.	1.053	1.050	1.056	1.050	1.047 079	.972	1.052	1.044	1.047	1.044	1.055	1.041	1.039	1.039	1.036	1.037	696.	696.	1.034	1.034	1.032	1.032	1.030	996.	996.	-987	.987	1.030	1.031	1.036	1.037	.985	.985	1.000 1.000
š	E-03	5	03	-03	e s	ទុ	-03	-03	-03	-03	64		ខ្ម	-03	3-02	E-02	E-04	E-04	E-03	2E-02	SE-02	1E-02	E-02	E-04	9-0 - 0	-04	5	S S	-05 -05	E-02	E-02	9E-03	4E-04	27E-02 54E-02
	.1028	.8968E-	.1125E-	.3587E	.5979E	.1416E	.2054E	.9518E	.1495E	.4759E	.1464E	.1447E	5262F	.2105E	.14611	.2925]	.9572	.2393	9026.	.388	.493	609	3010	.6060	.30301	11616.	.2298E	.7070E	16911.	.2019	.8083	.1679	.830	.43. .865
ĘŰ	892.374 .1028	769.784 .8968E-	1024.103 .1125E-	769.779 .3587E	656.342 .5979E	640.003 .1416E	892.369 .2054E	552.067 .9518E	656.337 .1495E	552.062 .4759E	1164.962 .1464E	456.961 .1447E	371 040 5262F	371.035 .2105F	294.306 .14611	294.300 .29251	752.602 .9572	752.597 .2393	226.772 .9706	226.767 .3885	168.438 .493	168.432 .123 110 216 609	119.311 .3010	874.356 .6060	874.350 .30301	200.430 .91911	200.425 .2298E	79.405 .7070E	79.399 .1769H	48.714 .2019	48.709 .8083	264.523 .1679	264.518 .839	27.241 .432 27.235 .865
o-c E(892.374 .1028	769.784 .8968E-	1024.103 .1125E	769.779 .3587E	9 656.342 .5979E 640.006 254.0F	640.003 .1416E	892.369 .2054E	10 552.067 .9518E	656.337 .1495E	552.062 .4759E	1164.962 .1464E	50 456.961 .1447E	371 040 5262F	-34 371.035 .2105F	-1 294.306 .14611	25 294.300 .29251	752.602 .9572	752.597 .2393	226.772 .9706	-35 226.767 .3882	-22 168.438 .4930	00 110 216 509		874.356 .6060	874.350 .30301	200.430 .9191	200.425 .2298E	32 79.405 .7070E	79.399	48.714 .2019	-9 48.709 .8083	264.523 .167	264.518 .839	27.241 .432 44 27.235 .865
u. 0-c E(890 87479 892.374 .1028	829.88622 769.784 .8968E-	829.88860 1024.103 .1125E	829.90330 769.779 .3587E	829.91211 9 656.342 .5979E	829.9236 640.003 .1416E	829.92543 892.369 .2054E	829.94021 10 552.067 .9518E	829.94207 656.337 .1495E	829.95162 552.062 .4759E	829.95564 1164.962 .1464E	829.98095 50 456.961 .1447E	829.99614 400.900 .0024 820.09556 371.040 .5262F	830.03311 -34 371.035 .2105F	830.08149 -1 294.306 .14611	830.09202 25 294.300 .29251	830.12101 752.602 9572	830.12398 752.597 .2393	830.14246 226.772 .9706	830.14745 -35 226.767 .3885	830.21381 -22 168.438 .493	830.22001 168.432 .123 ⁴ e30.20100 - 30 - 119-316 - 6024	830.29433 -20 119.311 .3010	830.32786 874.356 .6060	830.33055 874.350 .30301	830.35341 200.430 .91911	830.35508 200.425 .2298E	830.37789 32 79.405 .7070E	830.38156 79.399 .17691	830.47100 48.714 .2019	830.47330 -9 48.709 .8083	830.52018 264.523 .1679	830.52192 264.518 .839	830.52521 27.241 .432 830.52674 44 27.235 .865
	9 899 87479 892.374 .1028	3 829.88622 769.784 .8968E-	1 829.88860 1024.103 .1125E	1 829.90330 769.779 .3587E	2 829.91211 9 656.342 5979E	0 23-31331 0.000	0 829.92543 892.369 .2054E	3 829.94021 10 552.067 .9518E	0 829.94207 656.337 .1495E	1 829.95162 552.062 .4759E	0 829.95564 1164.962 .1464E	2 829.98095 50 456.961 .1447E	U 529.99544 490.990 -902.44 371.040 5262F	1 830.03311 -34 371.035 .2105F	2 830.08149 -1 294.306 .14611	0 830.09202 25 294.300 .29251	2 830.12101 752.602 9572	0 830.12398 752.597 .2393	3 830.14246 226.772 .9706	1 830.14745 -35 226.767 .388	2 830.21381 -22 168.438 .493	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1 830.29433	3 830.32786 874.356 .6060	1 830.33055 874.350 .30301	2 830.35341 200.430 .91911	0 830.35508 200.425 .2298E	2 830.37789 32 79.405 .7070E	0 830.38156 79.399 .17691	3 830.47100 48.714 .2019	1 830.47330 -9 48.709 .8083	3 830.52018 264.523 .1679	1 830.52192 264.518 .839	$1 \ 2 \ 830.52521 \ 27.241 \ .432 \ 0 \ 830.52674 \ 44 \ 27.235 \ .865$
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W.	1.040	1.040	1.038	1.039	1.038	1.038	.972	.972	1.040	1.041	1.052	1.052	.969	.969	1.000	1.000	.986	.986	.967	996.	.985	.985	9 66.	966.	.964	.964	1.060	1.057	1.081	1.081	1.058	.982	.982	1.059	1.055	1.055	1.076	1.052
S _i	.9456E-03	.3783E-02	.4983E-02	.1247E-02	.6308E-02	.3154E-02	.8180E-04	.2045E-04	.7686E-02	.1923E-02	.2280E-02	.9121E-02	.5622E-04	.2811E-04	.4936E-02	.9872E-02	.2726E-02	.1090E-01	.3594E-04	.8975E-05	.4661E-04	.1165E-04	.1251E-01	.3127E-02	.5367E-05	.2147E-04	.6881E-04	.6289E-04	.3397E-03	.1359E-02	.2518E-03	.2050E-04	.8201E-04	.1375E-03	.4399E-03	.1100E-03	.4094E-03	.7344E-U3
E!	272.126	272.120	208.618	208.612	154.319	154.314	694.367	694.361	109.227	109.222	73.353	73.348	810.969	810.963	46.695	46.689	29.260	29.255	936.718	936.712	302.824	302.818	21.045	21.040	1071.609	1071.603	1016.439	886.150	866.004	865.998	886.144	380.138	380.133	1016.433	764.998	764.993	820.778	* 653.003
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ä	832.63791	832.64369	832.72040	832.72783	832.80833	832.81221	832.81809	832.82066	832.90604	832.91049	833.00945	833.01208	833.03399	833.03639	833.04563	833.04716	833.24496	833.24690	833.25849	833.26144	833.35125	833.35295	833.37319	833.37499	833.48850	833.49119	833.49362	833.52217	833.52300	833.53104	833.54195	833.54269	833.54445	833.55018	833.56605	833.60101	833.60812	833.61103
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W.	186.	.981	1.008	1.008	1.006	1.006	1.005	1.060	1.005	1.004	1.004	1.058	1.061	1.002	1.002	1.055	1.001	1.001	1.055	1.057	1.052	.959	.959	1.052	1.049	1.050	978.	.978	1.047	1.047	1.044	1.045	1.042	1.043	.956	.956	975	375
v	3472F-04	.1389E-03	.1295E-01	3237E-02	.1184E-01	.2960E-02	.1040E-01	.2106E-04	.2600E-02	.8584E-02	.2146E-02	.7946E-04	.8434E-04	.6323E-02	.1581E-02	.7154E-04	.3533E-02	.8832E-03	.2862E-03	.1588E-03	.4923E-03	.5762E-05	.1152E-04	.1231E-03	.8093E-03	.4051E-03	.6596E-04	.1319E-03	.1273E-02	.3182E-03	.4780E-03	.1914E-02	.1375E-02	.2752E-02	.1487E-05	.5949E-05	.2734E-04	.1094E-03
Εü	399.573	399.567	103.615	103.610	90.649	90.643	78.978	1110.661	78.972	68.603	68.598	973.800	1110.655	59.525	59.520	846.076	51.743	51.738	846.070	973.794	727.492	1254.380	1254.374	727.487	618.069	618.064	488.659	488.653	517.809	517.803	426.729	426.723	344.829	344.824	1410.071	1410.065	586.929	586.924
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W.	.981	.981	.963	.962	1.047	1.047	1.046	1.047	.978	.978	1.047	1.047	.960	096.	1.051	1.052	.975	.975	1.070	1.070	1.000	1.000	.973	.972	.976	.976	1.063	.995	.995	1.063	.970	970.	1.060	1.060	1.058	1.058	666.	666.
S.	.2781E-04	.5561E-04	.6158E-05	.1230E-04	.8748E-03	.3499E-02	.4765E-02	.1192E-02	.1554E-04	.6216E-04	.6233E-02	.3117E-02	.1678E-05	.6713E-05	.7852E-02	.1965E-02	.5614E-04	.1404E-04	.2414E-02	.9658E-02	.5270E-02	.1054E-01	.4417E-04	.2206E-04	.2926E-02	.1170E-01	.4732E-04	.1340E-01	.3350E-02	.1893E-03	.3126E-04	.7814E-05	.3406E-03	.8516E-04	.5865E-03	.2933E-03	.1538E-01	.7691E-02
E.	445.913	445.908	1178.151	1178.145	322.651	322.645	253.973	253.968	539.017	539.011	194.500	194.495	1328.717	1328.711	144.230	144.225	641.293	641.288	103.176	103.171	71.334	71.329	752.740	752.734	48.714	48.709	970.152	35.312	35.307	970.146	873.339	873.334	843.868	843.862	726.733	726.728	31.136	31.131
မိ						-38	9	52			88				-18					-58		61				-41		36									-25	
'n	835.07645	835.07831	835.09027	835.09342	835.12135	835.12800	835.21512	835.22387	835.28728	835.28917	835.31389	835.31837	835.33840	835.34124	835.42246	835.42777	835.50652	835.50872	835.53599	835.53901	835.54818	835.54971	835.73161	835.73375	835.79571	835.79791	835.92998	835.93390	835.93601	835.95150	835.96508	835.96765	835.98604	836.02417	836.04246	836.05750	836.07943	836.08108
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W.	1.017	1.017	1.058	1.014	1.000	1.015	1.000	1.058	1.055	1.012	1.013	1.055	.965	.965	1.011	1.011	.984	.983	1.053	1.009	1.009	1.053	1.007	1.007	1.006	1.050	1.006	1.051	1.005	1.005	1.003	1.003	1.002	1.002	1.048	1.001	1.001	1.049
s.	.3073E-02	.1229E-01	.3891E-03	.3131E-02	.1533E-01	.1254E-01	.7664E-02	.9728E-04	.6596E-03	.3149E-02	.1261E-01	.3298E-03	.5302E-05	.2121E-04	.3118E-02	.1247E-01	.8071E-05	.3225E-04	.1070E-02	.3025E-02	.1210E-01	.2675E-03	.2866E-02	.1147E-01	.2638E-02	.4146E-03	.1055E-01	.1660E-02	.2328E-02	.9313E-02	.1926E-02	.7702E-02	.1421E-02	.5684E-02	.1231E-02	.7914E-03	.3166E-02	.2464E-02
E!'	226.772	226.767	803.790	206.036	25.948	206.030	25.942	803.785	689.225	186.593	186.588	689.219	1036.704	1036.699	168.446	168.440	361.997	361.992	583.816	151.593	151.588	583.810	136.035	136.030	121.773	487.580	121.768	487.575	108.807	108.802	97.137	97.131	86.762	86.757	400.520	77.684	77.679	400.514
ပို		-61			-60	-14					-59					-48					-45			-40			-51			-41		-38		-32	32		155	-303*
V _i	834.75183	834.75472	834.77766	834.79263	834.79527	834.79534	834.79685	834.81423	834.82835	834.83093	834.83348	834.84267	834.84733	834.84989	834.86673	834.86912	834.87176	834.87342	834.89261	834.90002	834.90226	834.91549	834.93078	834.93289	834.95901	834.95950	834.96100	834.96931	834.98470	834.98657	835.00784	835.00961	835.02843	835.03011	835.03841	835.04646	835.04806	835.05264
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S.	3E-03	-03	01	S P	88		03	E-02	<u>1</u> -02	E-02	ල 10-01	202	2-02	5	5	-02	-0-1 	E-05	E-04	E-02	UE-03)2E-02	68E-02	2E-01	1E-02	E-02	E^{-02}	E-02	E-02	E-02	E-02	E-02	9E-02	98E-02	76E-02 51E-02	マンシュート
l	.863	.2158E	.1555E	.7775E	.4659F	.3450F	13801	49051	11186.	.5103	.10211	.10551	.5241E	.10481	-2112F	.5309E	.1062E	.4660]	.1862	2826.	105	308	515	.103	.492	.9842	.4552	.9105	.4343]	.1087	.4032	.8064	.334	.66	24	.430
E!'	654.976 .863	654.970 .2158E	37.621 .1555E	37.616 .7775E	318.921 .4659E	553 591 3450F	553.585 .1380F	294.306 .49051	294.300 .98111	270.983 .5103	270.978 .10211	461.375 .10551	248.954 .5241E	248.949 .1048F	461.369 .2112F	228.219 .5309E	228.213 .1062F	970.758 .4660]	970.752 .1862	208.778 .5285	208 772 105	378.339 .309	190.631 .515	190.625 .103	173.779 .492	173.773 .9842	158.222 .4552	158.216 .9105	304.500 .4343]	304.495 .1087]	143.960 .4032]	143.955 .8064	130.995 .334	130.989 .66	119.325 .24	UCH. 210.211
0-c E!'	654.976 .863	654.970 .2158E	-25 37.621 .1555E	37.616 .7775E	318.921 .4659E	-32 010.010 .00101 553 591 3450F	553.585 .1380I	294.306 .49051	120 294.300 .98111	270.983 .5103	163 270.978 .10211	461.375 .1055H	248.954 .5241E	153 248.949 .1048F	461.369 .2112E	228.219 .5309E	135 228.213 .1062F	970.758 .4660]	970.752 .1862	208.778 .5285	510.344 .113 208 772 105	378.339 .309	190.631 .515	105 190.625 .103	173.779 .492	101 173.773 .9842	158.222 .4552	185* 158.216 .9105	304.500 .4343)	304.495 .1087]	143.960 .4032]	91 143.955 .8064	130.995 .334	75 130.989 .66	119.325 .24	064- 810.811 71
v: 0-c E!	837.32957 654.976 .863	837.35498 654.970 .2158E	837.36095 -25 37.621 .1555E	837.36267 37.616 .7775E	837.37243 318.921 .4659E	631.31006 -32 016.310	837.41877 553.585 .13801	837.42103 294.306 .49051	837.42498 120 294.300 .98111	837.46713 270.983 .5103	837.47080 163 270.978 .10211	837.49841 461.375 .1055H	837.51074 248.954 .5241E	837.51414 153 248.949 .1048F	837.51456 461.369 .2112F	837.55184 228.219 .5309E	837.55498 135 228.213 .1062F	837.55874 970.758 .4660	837.56102 970.752 .1862	837.59042 208.778 .5285 202 203.778 2285	831.39231 310.344	837.60004 378.339 .300	837.62647 190.631 .515	837.62914 105 190.625 .103	837.65997 173.779 .492	837.66244 101 173.773 .9842	837.69094 158.222 .4552	837.69321 185* 158.216 .9105	837.69766 304.500 .4343	837.70780 304.495 .1087]	837.71935 143.960 .4032	837.72144 91 143.955 .8064	837.74520 130.995 .334	837.74712 75 130.989 .66	837.76848 119.325 .24 007.77005 70 110.910 40	091.11040 12 ULV. 118.018
σ ν: ο-c E''	2 837.32957 654.976 .863	0 837.35498 654.970 .2158E	3 837.36095 -25 37.621 .1555E	1 837.36267 37.616 .7775E	2 837.37243 318.921 .4659E	0 001.01000 -32 010.010 0 2 827 40781 -345.05 553 501 3450F	1 837.41877 553.585 .1380F	2 837.42103 294.306 49051	0 837.42498 120 294.300 .98111	2 837.46713 270.983 .5103	0 837.47080 163 270.978 .10211	2 837.49841 461.375 .1055F	2 837.51074 248.954 .5241E	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0 837.51456 461.369 .2112F	2 837.55184 228.219 .5309E	0 837.55498 135 228.213 .1062F	3 837.55874 970.758 .4660	1 837.56102 970.752 .1862	2 837.59042 208.778 .5285	3 831.39251 310.344 .113 0 837 50339 113 208 779 105	1 837,60004 378.339 .300	2 837.62647 190.631 .515	0 837.62914 105 190.625 .103	2 837.65997 173.779 .492	0 837.66244 101 173.773 .9842	2 837.69094 158.222 4552	0 837.69321 185* 158.216 .9105	0 2 837.69766 304.500 .4343	0 837.70780 304.495 .1087	1 2 837.71935 143.960 .4032]	0 837.72144 91 143.955 .8064	2 837.74520 130.995 .334	0 837.74712 75 130.989 .66	3 2 837.76848 119.325 .24'	064- 210.211 21 02011.160 0 6
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E!'	624.750	87.617	87.612	971.801	588.529	846.975	588.523	846.969	553.591	553.585	731.285	66.437	66.432	675.076	675.071	731.279	519.941	519.935	624.755	624.750	487.580	487.575	54.481	54.476	456.509	456.504	527.389 727 200	527.383	426.729	426.723	787.942	787.936	398.239	398.233	439.202	439.196	51.743	51.738
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W.	1.000	1.000	1.058	9007	020	0.6.	1.050	1.039	1.057	1901	100.1	1.002	1.004	P60.1	106.	106.	1.070	1.050	1.000	10001	1 000	1 047	1048	1011	101.1	701.1	1.045	010.1	606. NAO	50e.	1.046	1.042	1.039	.980	.980	1.039	1.069	1.036
$S_i = W_i$.1803E-01 1.000	.4508E-02 1.000	.7156E-03 1.058	2001 20-32002.	.4033E-05 .970	.1021E-04 .9/0	-4080E-02 1.058	1021E-02 1.039	.2388E-03 1.057	.1030E-02 1.057 5580E 09 1 061	100.1 20-720000-	2190F 09 1 064	1040T 00 1040T	.1240E-U2 1.U34 5410E 05 027	10615 04 081801	.1004E-04 .90/ 7907E 00 1 070	.136/E-U2 1.0/U 1240E 00 1.071	2720F 02 1 0E0	14045 09 1 051	.1494E-UZ 1.001 5979E 09 1 000	10555 01 1 000	4431F-03 1 047	1774F.09 1.048	9303F-02 1.040	0289F 00 1 100	5002ECU2 1.102	2001 F_03 1.044	1669T 05 065	.1002E-03 .903 6640E-05 064	6115F 02 1 049	0110E-U0 1.042	2440E-U2 1.042	./U98E-U3 1.U39	.9474E-05 .980	.2368E-05 .980	.2839E-02 1.039	.2169E-03 1.069	.8172E-03 1.036
$E''_i S_i W_i$	45.258 .1803E-01 1.000	45.253 .4508E-02 1.000	408.128 .7156E-03 1.058 408.199 99550 50 1.058	400.122 .2002E-UZ 1.038	939711 - 40325-05 - 970 020711 - 16915 01 - 270	991 709 40000 00 1 070	331.607 10315.09 1.058	014 941 01000 00 1000 00 1000	914.341 .2388E-03 1.057 014.995 10051 05 1.057	914-040 .1030E-02 1.057 964 475 5580E 09 1 061	100.1 20-36000, 011.107	860 190 21905 09 1067	960 11 0 10 10 10 10 10 10 10 10 10 10 10	003-1114 .1246£-UZ 1.034 1073 459 EA10E 0E 027	1073 AA7 1004E AA 057	906 444 - 1004E-04 - 907	200.444 .136/E-U2 I.U/U 206.430 1240E 02 1.071	895.181 2720F 09 1 060	826.175 14045 09 1.03U	118 011 59795 09 1 000	118 006 10555 01 1 000	782.526 4431F_03 1.000	782.520 1774F_09 1.048	101 1 GU 320-51 101 1 020-50 1 040	157.618 0589F.09 1.100	741 155 59990 09 1 044	741.149 2001F-00 1.044	1916 310 1869E 05 05	1210.013 .1002E-00 .903		701.063 04460 00 1.042	669 960 70007 00 1.042	002.209 .7098E-03 1.039	5/1.3/1 .9474E-05 .980	571.366 .2368E-05 .980	662.263 .2839E-02 1.039	971.806 .2169E-03 1.069	624.755 .8172E-03 1.036
$o-c E''_i S_i W_i$	20 45.258 .1803E-01 1.000	45.253 .4508E-02 1.000	-300" 408.128 .7156E-03 1.058 45 409-199 99590 00 1.058	-10 400.122 .2002E-UZ 1.038	939.111 .4033E-05 .970	91 921709 1021E-04 970	-21 001.102 .4080E-02 1.058 8 331.607 1.091E 00 1.050		914.341 .2388E-03 1.057 014.995 10051 00 1.057	157 964 475 5580F 09 1 061	100.1 20-76000. 011-107 101	860 190 2190E 2190E 00 1002		-00 003.114 .1240£-02 1.034 1072 459 5410F 05 067	1023 417 1004E015 04 045 040 040 040 040 040		-23 200.444 .136/E-U2 1.0/U 196 906.430 1240E 09 1.071	200-200-200 - 1049E-02 1.011 895.181 2790E 09 1.0E0	-78 895.175 14045.09 1.030	-10 020110 .1494E-UZ 1.001 118.011 5979E 09 1.000	49 118 006 1055F 01 1 000	782.526 4431F-03 1.000	124 782.520 1774F_00 1.048	101 1 0.050 0.000 1.0140 1.01	-58 157 618 05895 09 1 100	741 155 59990 09 1 044	0 741.149 2001F_00 1.044	1916 310 1869D 05 045	1216.313 6840F-05 064	701 0K0 K115E 02 1 040	246* 701.063 04450.00 1.042	240,1 20-2440E- 101.01 0F2-	002.209 ./U98E-U3 1.U39	5/1.3/1 .9474E-05 .980	571.366 .2368E-05 .980	117 662.263 .2839E-02 1.039	971.806 .2169E-03 1.069	624.755 .8172E-03 1.036
$ u_i$ o-c E''_i S_i W_i	838.80465 20 45.258 .1803E-01 1.000	838.80627 45.253 .4508E-02 1.000	030.02330 -300" 408.128 .7156E-03 1.058 838 83137 45 400 199 99200 00 1 050	00000101 -10 400122 .2002E-02 1.058 02001195 040717 105005 220	040.311.60 939./1/ .4033E-05 .970 838.01341 030.711 1.601E.04 070	828 02497 91 991 709 40000 00 1000 00 1000	000/3042/ -21 001/02 .4080E-02 1.058 838 94519 8 331 607 1001E 00 1 050	830 09853 014941 1021E-02 1.059	000.02000 914.341 .2388E-U3 1.057 820.02550 014.955 1.057 00 4.05-	002.0000 9157 964 475 5520F 02 1.057 839.04939 157 964 475 5520F 09 1.061	839 05485 101 201-100 010 010 010 010 010 010 010 010 0	839 11617 860 190 2190E 02 1002	820 19902 50 860 114 19480 0 1004	830 16751 - 1073 469 541017 0.054	830 17000 1073 447 10945 A4 A5	830 17497 _90 906 444 79975 60 1 670	093-11721 -23 200.444 .136(E-U2 1.070 839 18100 196 906 430 1240E 09 1 071	839.20151 120 200.333 .1042E-02 1.0/1 839.20151 2805.181 2720F 02 1.0E0	839.90799 -78 895.175 14045 09 1059	839.96819 1.000 1.18.011 1.494E-UZ 1.001 839.96819 1.000	839.26966 49 118.006 10557.01 1.000	839.28455 782.526 4431F-01 1.000	839.29073 -124 782.520 1774F_09 1.048	839.30232 121 127.694 93037.02 1.040	839.30598 -58 157.618 0529F.02 1.101	839 36595 741 155 59990 09 1 044	839.37115 0 741.149 2001F_02 1.044	839 42901 1916 310 1869D 05 065	839.43144 1216.313 6640F-05 .903	839 44360 701 060 6115F 02 1 040	830 44033 2946* 701 063 94467 00 1 042	200 F10F0 - 270 F01.000 . 2440E-02 1.042	000 500 10 1.030	008.0224U 0.1.3/1 .9474E-05 .980	539.32412 571.366 .2368E-05 .980	839.52495 -117 662.263 .2839E-02 1.039	639.59139 971.806 2169E-03 1.069	039.09320 024.755 .8172E-03 1.036
$\sigma \qquad \nu_i \qquad \text{o-c} \qquad E''_i \qquad S_i \qquad W_i$	2 838.80465 20 45.258 .1803E-01 1.000	1 0 838.80627 45.253 4508E-02 1.000	0 0 000.02000 -000" 408.128 .7156E-03 1.058 1 838 83137 45 400 100 002000 00 100	2 222 01195 -10 400.122 .2002E-UZ 1.058	1 838 01341 030.711 140355-05 .970	9 838 02407 91 991 700 1020 104 970	0 838 94519 8 331 602 1.058 1.058	800,0869 014941 0120LLL-02 000 014941 02000 00 0000 00 0000 00 0000 00 0000 00	1 830.02550 914.341 .2388E-U3 1.057 1 830.02550 014.95E 1.0577.55 1.057	3 839.04939 157 964 475 55205 00 1051	1 839 05485 191 201:119 2003E-02 1.001	3 839 11617 860 190 21905 1002 1002	1 830 19903 50 960 114 19490 00 1034	2 830 16751 - 1072 459 54100 027	0 830 17000 1073 447 1004E A4 A57	9 830 17497 .90 906 444 79070 60 1 270	2 005/11121 -28 200/444 (136/12-02 1.0/0 0 839.18100 196 906.430 12400 09 1.071	3 839.20151 120 200.333 .10382-02 1.0/1 3 839.20151 20 255.181 2720F 02 1.060	1 839 20799 -78 895 175 1404E 09 1 051	2 839.26819 10 020110 11494E-UZ 1.001 2 839.26819 118.011 5979E 09 1 000	0 839.26966 49 118 006 10555 01 1 000	3 839.28455 782.526 4431F_03 1.047	1 839.29073 -124 782.520 1774F_09 1.048	3 839.30232 11 157 694 9203E 09 11040	1 839.30598 -58 157.618 0529F.09 1100	3 839 36525 741 155 59920 09 1 044	1 839.37115 0 741.149 2001F-03 1.044	3 839 42901 1916 310 18695 05 055	1 839.43144 1216.313 6640F-05 084	3 839 44360 701 060 6115F 09 1 040	-1 830 44093 -946* 701 063 -94450 1.042	1 220 51050 -230 101.000 .2440E-02 1.042	0 030 500 10 10 10 10 10 10 10 10 10 10 10 10 1	2 039.32240 3/1.3/1 .9474E-05 .980	0 839.52412 571.366 2368E-05 980	1 839.52495 -117 662.263 .2839E-02 1.039	2 639.59139 971.806 2169E-03 1.069	3 339.33320 524.735 .8172E-03 1.036
$\frac{X}{2} \frac{J}{\sigma} \sigma \nu_i o^- c E''_i \qquad S_i \qquad W_i$	4 4 2 838.80465 20 45.258 .1803E-01 1.000	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ч со о орогосодо -300° 406.128 7156E-03 1.058 5-93 1 838.83137 ЛК ДАВ 109 Босокоро 1 575	7 92 2 222 01195 -10 400.122 .2002E-UZ 1.058 17 92 2 222 01195 090 717 2020 27 220	17 93 1 838 01941 090711 16015 0. 970	4 91 9 838 03497 91 991 709 40000 00 1070	4 21 0 838 94519 8 331 607 1091E-UZ 1.058		7 35 1 830 03550 014 395 1 20885-03 1.057	3 19 3 839.04939 157 964 475 5520 00 1057	3 19 1 839 05485 191 201319 -00092-02 1.001	7 34 3 839 11617 860 190 21900 2190 1.002	734 1 820 19903 50 960 114 10400 00 1074	18 25 2 830 16751 - 1079 459 54100 1.054	18 25 0 830 17000 1073 447 10040 04 067	2 17 9 830 17497 _90 906 444 79070 60 1 070	2 17 () 839.1810/ 196 906.499 1.506 12.07 1.070	7 33 3 839.20151 120 200.339 .1049E-02 1.0/1	7 33 1 839 20790 -78 895 175 14045 09 1 051	0 13 2 839 26819 118 011 59795 09 1 000	0.13 0 839.26966 49 118.006 10555 01 1 000	7 32 3 839.28455 782.526 4431F-03 1.047	7 32 1 839.29073 -124 782.520 1774E_09 1.048	1 15 3 839.30232 157 694 920250 1046	1 15 1 839.30598 -58 157.618 05895.00 1.100	7 31 3 839 36555 741 155 5992 09 1 041	7 31 1 839.37115 0 741.149 2091F-03 1.044	19 27 3 839 42001 1916 310 1869E AF	19 27 1 839.43144 1216.313 6640F-05 064	7 30 3 839 44360 701 060 6115F 02 1 040	7 30 1 839 44093 2946* 701 063 94457 09 1 042	7 90 9 920 61060 669 960 7000 2440 -1.042	1 = 20 0.00 0.001 0.00 0.00 0.00 0.0000 0.000 0.000 0.000 0.000 0.000 0.000	4 10 2 038.32240 3/1.3/1 .9474E-05 .980	7 00 1 000 7500 11 000 7500 12368E-05 .980	1 29 1 839.52495 -117 662.263 .2839E-02 1.039	0 34 2 539.39139 971.806 2169E-03 1.069 7 36 3 230.50350 504 77 2120 22 22	1 20 3 039.39320 024.155 .8172E-03 1.036
$\frac{\lambda J K J \sigma}{K} \frac{\nu_i}{\sigma} \frac{o-c}{E_i'} \frac{E_i'}{S_i} \frac{W_i}{W_i}$	1 4 4 2 838.80465 20 45.258 .1803E-01 1.000	1 4 4 0 838.80627 45.253 .4508E-02 1.000 1 E 32 2 228 22332 200 200 200 200	1 5 93 1 838 83137 45 406.128 .7156E-03 1.058	-1 17 93 3 232 01195 -10 400.122 .2002E-UZ 1.058	-1 17 93 1 838 01341 0900 1120 939/11 - 4033E-05 970 -	1 4 91 9 838 03497 91 991 709 40000 00 1 02 1	1 4 21 0 838 04519 8 331 607 100110 05 1058		0 7 25 1 220 0250 014 975 1.057 0.0550 014 975 1.057	1 3 19 3 839.04939 157 964.475 55200 00 1061	1 3 19 1 839 05485 964 460 97075 00 1 060	0 7 34 3 839 11617 860 190 2190E 02 1.002	0 7 34 1 820 19902 50 960 114 10405 0 1034		-1 18 25 0 830 17000 1072 AA7 1004E 04 067	1 9 17 9 830 17497 _90 906 444 79075 60 1 070	1 2 17 () 839 18100 196 906 430 12405 09 1 07	0 7 33 3 839.20151 120 200.337 .10492-02 1.011	0 7 33 1 839 20700 -78 895 175 14045 00 1 051	1 0 13 2 839 26819 10 849417 0 149417-02 1.091	1 0 13 0 839.26966 49 118.006 1055F 01 1 000	0 7 32 3 839.28455 782.596 4431F_03 1.047	0 7 32 1 839.29073 -124 782.520 1774F_09 1.048	1 1 15 3 839.30232 157.694 930245 0.010	1 1 15 1 839.30598 -58 157.618 05295.00 1100	0 7 31 3 839 365.95 741 155 59920 09 1 044	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-1 19 27 3 839 42001 1916 210 1869F 05 06F		0 7 30 3 839 44360 701 060 6115F 02 1 040	0 7 30 1 830 44033 2946* 701 063 94467 00 1 042	0 7 90 3 220 KINKO - 240 101.000 .2440E-02 1.042		-1 14 10 2 039.32240 3/1.3/1 .9474E-05 .980	-1 14 10 U 539.52412 571.366 .2368E-05 .980	U / 29 1 839.52495 -117 662.263 .2839E-02 1.039	1 10 34 2 539.39139 971.806 .2169E-03 1.069	U 1 20 3 339.3332U 524.755 .8172E-03 1.036

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I	0	7 20	3	840.09466		371.040	.1856E-02	1.018	-1		1 1(-	840.55509	-51	178.357	.9354E-02	1.114
	0	7 20		840.09795	-46	371.035	.7423E-02	1.018	-		0 14	۲۵ سر	840.63861		136.161	.5157E-02	1.000
1	0	7 19	3	840.14621		345.134	.1967E-02	1.016	-	-	19 2(840.78841		1181.424	.1539E-05	996.
	0	7 19	-	840.14932	-71	345.129	.7867E-02	1.016		~	19 2(. 1	840.79071		1181.419	.6157E-05	996.
, ,		4 22	2	840.16770	-	360.196	.3797E-02	1.063	7		స గ	ი ლ	840.86619		889.625	.3343E-03	1.070
-	-	4 22	0	840.17928	-11	360.190	.9502E-03	1.064			1 1;	3 3	840.86646		103.176	.2899E-02	.948
·	0	7 18	• ••	840.19526		320.520	.2059E-02	1.014	-	1	1 1	3	840.86940	-65	103.171	.1160E-01	.948
	0	7 18	-	840.19819	-62	320.514	.8237E-02	1.014	7	1	స గ		840.88408		889.619	.1673E-03	1.071
	0	7 17		840.24179		297.199	.2128E-02	1.012		-	8 8	12	840.96064		771.368	.5830E-03	1.068
	0	7 17		840.24454	-50	297.193	.8513E-02	1.012	7	1	83	1	840.98974		771.363	.1459E-03	1.069
-	-1	7 22		840.26160		909.965	.3279E-05	.972		-	2 I() 2	841.02352	36	79.405	.1386E-01	.985
1		7 22		840.26364		909.959	.1310E-04	176.	-	-	2 1(0 (841.02650		79.399	.3465E-02	.985
	0	7 16	~	840.28578		275.171	.2170E-02	1.011	-	H	7	93	841.05611		662.269	.2434E-03	1.067
· - ·	, 	3 20		840.28829	-21	290.385	.5276E-02	1.066	-	1	7 33	9 1	841.06884		662.263	.9737E-03	1.067
		7 16	-	840.28837	-30	275.165	.8678E-02	1.011			15 1	7 3	841.10039		651.771	.6025E-05	.978
·	, 	3 20	-	840.29410		290.380	.2640E-02	1.067			15 1	7 1	841.10208		651.766	.3013E-05	.978
		7 15	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	840.32724		254.436	.2173E-02	1.009	7	1	6 2	7 2	841.16450		562.329	.7780E-03	1.066
	0	7 15		840.32968	-52	254.431	.8691E-02	1.009	-		6 2	7 0	841.18356		562.323	.1558E-02	1.067
-	0	7 14		840.36614		234.996	.2135E-02	1.008	1		3	8 9	841.18942	-18	64.856	.1575E-01	.995
	0	7 14	-	840.36844	-53	234.991	.8541E-02	1.008	-	1		8 1	841.19145		64.851	.7875E-02	.995
·	0	7 13	~~~~	840.40249		216.850	.2048E-02	1.007		-	52	53	841.27551		471.566	.5956E-03	1.066
	0	7 13		840.40465	-43	216.845	.8194E-02	1.007		-	5 2	5 -	841.28444	-53	471.560	.2385E-02	1.067
-1	. –	2 18	3 3	840.41858	-17	229.770	.7084E-02	1.077		-1	16 1	9 2	841.35228		762.057	.9428E-05	.976
-	-	2 18	0 ~	840.42581		229.764	.1773E-02	1.078	1	7	16 1	06	841.35417		762.051	.2357E-05	.976
- -	0	7 12	° 60 • 60	840.43628		199.999	.1903E-02	1.005			4	62	841.36473	31	59.525	.1766E-01	666.
	0	7 12	-	840.43831	-31	199.994	.7611E-02	1.005		1	4	6 0	841.36660		59.520	.4415E-02	666.
ہ مہ	0	7 11	3	840.46749		184.443	.1695E-02	1.004	-1		42	3 7	841.39793	37	389.980	.3500E-02	1.068
1	0	7 11	1	840.46940	-35	184.438	.6778E-02	1.004	7		42	30	841.41023	-8 <u>-</u>	389.975	.8758E-03	1.069
	0	7 10	33	840.49613		170.182	.1413E-02	1.003			3 2	1 3	841.52398	-10	317.588	.4936E-02	1.072
1	0	7 10) 1	840.49793	128	170.177	.5651E-02	1.003		-	32	1 1	841.53015	96	317.582	.2470E-02	1.073
-	, 1	0 14	10	840.50052	-132	136.155	.1031E-01	1.000		7	17 2	1 3	841.60975		881.503	.2375E-05	.973
	0	5	9 3	840.52218		157.217	.1047E-02	1.002		-	17 2	1 1	841.61167		881.497	.9499E-05	.973
	7	18 24	1 2	840.52238		1041.127	.4740E-05	696.	-	-	2 1	9 2	841.65964		254.388	.6725E-02	1.084
1	0	~	9 1	840.52388	-71	157.212	.4187E-02	1.002		-	2 1	06	841.66739	83	254.383	.1683E-02	1.085
1	4	18 24	4 0	840.52478		1041.122	.9480E-05	<u>969</u> .		H	0 1	5 2	841.72524		155.605	.4991E-02	1.000
	0	2	8 8	840.54564		145.548	.5826E-03	1.001	-1		0 1	5 0	841.72679	22	155.599	.9982E-02	1.000
	0	~	8	840.54726		145.542	.2330E-02	1.001			1	7 3	841.79670		200.394	.2257E-02	1.125
-1	-1	1 1(5 3	840.55121		178.362	.2336E-02	1.113	-1	-	-	7 1	841.80080	-55	200.389	.9045E-02	1.127

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W.	1.026	1.027	1.024	1.024	1.072	1.073	866.	9 66.	1.022	1.022	.977	776.	1.020	1.020	1.078	1.078	1.018	1.019	1.000	1.000	1.017	1.017	1.015	1.015	1.092	1.093	1.013	1.013	1.000	1.000	974	.974	1.012	1.012	1.010	1.138	1.010	1.140
S.	.3558E-02	.8904E-03	.3990E-02	.9976E-03	.3193E-02	.7990E-03	.1748E-01	.4371E-02	.4435E-02	.1109E-02	.3750E-05	.9376E-06	.4882E-02	.1221E-02	.4574E-02	.2287E-02	.5322E-02	.1332E-02	.4912E-02	.1965E-01	.5746E-02	.1436E-02	.6129E-02	.1532E-02	.6328E-02	.1583E-02	.6458E-02	.1615E-02	.4784E-02	.9568E-02	.1427E-05	.5710E-05	.6723E-02	.1681E-02	.6888E-02	.2161E-02	.1722E-02	.8660E-02
E!	583.816	583.810	550.168	550.162	421.055	421.050	68.603	68.598	517.809	517.803	737.463	737.458	486.740	486.734	346.082	346.077	456.961	456.956	69.903	69.898	428.473	428.468	401.276	401.271	280.299	280.294	375.372	375.366	176.343	176.338	854.331	854.325	350.759	350.754	327.439	223.720	327.434	223.715
j	12		18		-94		42		2				10		39	6 6	32			34	-325*		-2		Ŷ	101	-58			12			32		25			-36
V.	842.52319	842.52899	842.59012	842.59558	842.62490	842.63794	842.64072	842.64275	842.65458	842.65971	842.69350	842.69524	842.71655	842.72137	842.75642	842.76294	842.77603	842.78055	842.82782	842.82942	842.83300	842.83722	842.88746	842.89140	842.89741	842.90568	842.93938	842.94305	842.94688	842.94844	842.95567	842.95749	842.98877	842.99218	843.03562	843.03869	843.03878	843.04303
ь	2	0	2	0	3	0	2	0	2	0	2	0	2	0	e	-	2	0	ŝ	-	2	0	2	0	2	0	2	0	2	0	ŝ	-	5	0	3	ę	0	
5	26	26	25	25	24	24	2	2	24	24	18	18	23	23	22	22	22	22	ß	ŋ	21	21	20	8	20	8	10	19	16	16	20	20	18	18	17	18	17	18
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М	1.049	1.049	.970	.970	1.046	1.046	1.044	1.044	1.073	1.041	1.041	1.074	.940	.939	968	-202	1.038	1.038	1.072	1.072	1.036	1.036	1.070	1.071	-982	.981	1.033	1.033	1.070	1.031	1.031	1.071	1.029	1.029	.994	.994	1.070	1.071
S _i W	.8779E-03 1.049	.2195E-03 1.049	.3848E-05 .970	.7695E-05 .970	.1058E-02 1.046	.2644E-03 1.046	.1266E-02 1.044	.3164E-03 1.044	.2842E-03 1.073	.1502E-02 1.041	.3755E-03 1.041	.1422E-03 1.074	.2815E-02 .940	.1125E-01 .939	.1353E-05 .968	.5405E-05 .967	.1768E-02 1.038	.4421E-03 1.038	.5030E-03 1.072	1258E-03 1.072	.2068E-02 1.036	-5170E-03 1.036	.2128E-03 1.070	.8519E-03 1.071	.1366£-01 .982	.3411E-02 .981	.2397E-02 1.033	5002E-U3 1.U33	.6903E-03 1.070	.2130E-UZ 1.U31	.6895E-03 1.031	.1382E-02 1.071	.3148E-02 1.029	.7869E-03 1.029	.1563E-01 .994	.7817E-02 .994	.5359E-03 1.070	.2146E-02 1.071
$E''_i S_i W$	944.544 .8779E-03 1.049	944.538 .2195E-03 1.049	1010.091 .3848E-05 .970	1010.085 .7695E-05 .970	899.325 .1058E-02 1.046	899.320 .2644E-03 1.046	855.389 .1266E-02 1.044	855.384 .3164E-03 1.044	933.558 .2842E-03 1.073	812.737 .1502E-02 1.041	812.731 .3755E-03 1.041	933.552 .1422E-03 1.074	120.030 .2815E-02 .940	120.025 .1125E-01 .939	1147.817 .1353E-05 .968	1147.811 .5405E-05 .967	771.368 .1768E-02 1.038	(/1.303 .4421E-03 1.038	612.737 .5030E-03 1.072	812.731 .1258E-03 1.072	731.255 .2058E-02 1.036	731.279 .3170E-03 1.036	701.069 .21285-03 1.070	701.063 .8519E-03 1.071	93.008 .1366E-01 .982	93.663 .3411E-02 .981	692.487 .2397E-02 1.033	1032-401 .0392E-U3 1.033	296.35/ .6903E-03 1.070	0.4.910 .21.00L-UZ 1.U31	654.970 .6895E-03 1.031	598.551 .1382E-02 1.071	618.752 .3148E-02 1.029	618.746 .7869E-03 1.029	76.527 .1563E-01 .994	76.522 .7817E-02 .994	505.219 .5359E-03 1.070	505.213 .2146E-02 1.071
$o-c E''_i S_i W$	14 944.544 .8779E-03 1.049	944.538 .2195E-03 1.049	1010.091 .3848E-05 .970	1010.085 .7695E-05 .970	25 899.325 .1058E-02 1.046	899.320 .2644E-03 1.046	b/ 855.389 .1266E-02 1.044	855.384 .3164E-03 1.044	933.558 .2842E-03 1.073	30 812.737 .1502E-02 1.041	812.731 .3755E-03 1.041	933.552 .1422E-03 1.074	120.030 .2815E-02 .940	-12 120.025 .1125E-01 .939	1147.817 .1353E-05 .968	1147.811 .5405E-05 .967	99 771.368 .1768E-02 1.038	(/1.353 .4421E-03 1.038 010 707 7.000 00 1.038	812.737 .5U30E-03 1.072	812.731 .1258E-03 1.072	ZZ (31.285 .2068E-02 1.036 791.670 71700 00 1.036	731.279 .31/0E-03 1.036	701.069 .2128E-03 1.070	701.063 .8519E-03 1.071	42 93.008 .1366E-01 .982	93.663 .3411E-02 .981	-83 092.487 .2397E-02 1.033	1042.401 .03922E-U3 1.033	040 554 076 075903E-03 1.070	TO 004.910 .21.00E-02 1.031	654.970 .6895E-03 1.031	-469* 598.551 .1382E-02 1.071	618.752 .3148E-02 1.029	618.746 .7869E-03 1.029	-17 76.527 .1563E-01 .994	76.522 .7817E-02 .994	505.219 .5359E-03 1.070	186* 505.213 .2146E-02 1.071
$ u_i$ o-c E''_i S_i W	841.81171 14 944.544 .8779E-03 1.049	841.82101 944.538 .2195E-03 1.049	841.8(310 1010.091 .3848E-05 .970	841.87732 1010.085 .7695E-05 .970	841.90029 25 899.325 .1058E-02 1.046	641.90916 899.320 .2644E-03 1.046	641.96052 57 855.389 .1266E-02 1.044	641.99498 855.384 .3164E-03 1.044	842.06376 933.558 .2842E-03 1.073	842.0/039 30 812.737 .1502E-02 1.041	042.01044 812.731 .3755E-03 1.041	842.08236 933.552 .1422E-03 1.074	842.12/83 120.030 2815E-02 940	842.13099 -12 120.025 .1125E-01 .939	842.145/0 1147.817 .1353E-05 .968	542.14/5/ 1147.811 .5405E-05 .967	842.15189 99 771.368 .1768E-02 1.038	042.13934 (/1.363 .4421E-03 1.038 049 12495 016 707 7.000 00 4.02	042.10450 015 751 .5U3UE-U3 1.072 949-10485 015 761 1.072 20 2	042.19403 012.731 .1258E-03 1.072	042.23039 22 (31.283 .2068E-02 1.036 049.9999E 791.670 71201 00 1.036	042.23023 (31.219 .31/0E-03 1.036 949.95559 701.020 01007 00 1.036	642.20003 (01.069 .2128E-03 1.070 946 67667 701 600 22128E-03 1.070	042.27893 701.063 .8519E-03 1.071	042.20920 42 93.008 .1306E-01 .982	842.29251 93.663 .3411E-02 .981	042.30/08 -83 092.487 .2397E-02 1.033 249 21456 -609 401 - 5000 50 - 500	045.01400 092.401 .0992L-03 1.033	042.30000 395.357 .5903E-03 1.070 949 99106 40 654 076 67760 56 1 203	046.90017 TU 004.910 .21.00L-UZ 1.051	842.3884/ 654.970 .6895E-03 1.031	842.40003 -469* 598.551 .1382E-02 1.071	842.45380 618.752 .3148E-02 1.029	842.45995 618.746 .7869E-03 1.029	842.46018 -17 76.527 .1563E-01 .994	842.46234 76.522 7817E-02 .994	842.49670 505.219 .5359E-03 1.070	842.30010 186* 305.213 .2146E-02 1.071
σ ν; ο-c Ε'' S _i W	2 841.81171 14 944.544 .8779E-03 1.049	0 841.82101 944.538 .2195E-03 1.049	2 841.8(510 1010.091 .3848E-05 .970	0 841.87732 1010.085 .7695E-05 .970	2 841.90029 25 899.325 .1058E-02 1.046	0 641.90916 899.320 .2644E-03 1.046	Z 841.98052 57 855.389 .1266E-02 1.044	0 841.99498 855.384 .3164E-03 1.044	3 842.06376 933.558 2842E-03 1.073	2 542.0/039 30 812.737 .1502E-02 1.041	0 042.01044 812.731 .3755E-03 1.041	1 842.08236 933.552 .1422E-03 1.074	3 842.12(83 120.030 2815E-02 940	1 842.13099 -12 120.025 .1125E-01 .939	3 642.145/U 1147.817 .1353E-05 .968	1 642.14(6/ 1147.811 .5405E-05 .967	Z 642.15189 99 771.368 .1768E-02 1.038	0 042.13934 (/1.353 .4421E-03 1.038 9 049 12495 045 757 75257 52 7	2 042.10400 812.434 .3030E-03 1.072 0 940.10405 016.701 1.0700 00 1.072	0 042.19403 812.731 .1258E-03 1.072	2 042.23099 22 131.253 .2068E-02 1.036 0 049.99995 791.670 7.150 0.00	9 040 055 60 701 701 700 0100 0100 0100 01000 01000 01000 01000 01000 01000 01000 01000 01000 010000 010000 010000 010000 010000 01000000	3 642.20303 (U1.069 .2128E-03 1.070 1 040 67007 701 000 27100 0	1 042.27893 701.063 .8519E-03 1.071 9 040 00005 40 00.000 10000 0	2 042.20920 42 93.008 .1366E-UI .982	0 842.29251 93.663 .3411E-02 .981	2 042.30/08 -83 092.487 .2397E-02 1.033 0 249.31456 600.401 50000.00 1.000	0 042.01100 092.401 .0992E-03 1.033	2 042.30000 395.357 .6903E-03 1.070 9 249 92106 40 254 076 077617.69 1.661	2 0124-00130 40 004-910 .2100E-02 1.031	0 542.3554/ 654.970 .6895E-03 1.031	0 642.40003 -469* 598.551 .1382E-02 1.071	2 842.45380 618.752 .3148E-02 1.029	0 842.45995 618.746 .7869E-03 1.029	3 842.46018 -17 76.527 .1563E-01 .994	1 842.46234 76.522 7817E-02 .994	3 842.49670 505.219 .5359E-03 1.070	1 842.30010 186* 305.213 .2146E-02 1.071
$\frac{J}{\sigma} \sigma \nu_i$ σ -c $E''_i S_i W$	35 2 841.81171 14 944.544 .8779E-03 1.049	35 0 841.82101 944.538 .2195E-03 1.049	23 2 841.5/310 1010.091 .3848E-05 .970	23 0 841.87732 1010.085 .7695E-05 .970	34 Z 841.900Z9 Z5 899.325 .1058E-02 1.046	34 U 841.90916 899.320 .2644E-03 1.046	33 Z 541.98652 57 855.389 .1266E-02 1.044	33 U 841.99498 855.384 .3164E-03 1.044	34 3 842.06376 933.558 2842E-03 1.073	32 2 842.0/039 30 812.737 .1502E-02 1.041	32 0 042.01044 812.731 .3755E-03 1.041	34 1 842.08236 933.552 .1422E-03 1.074	13 3 842.12(83 120.030 2815E-02 940	13 1 842.13099 -12 120.025 .1125E-01 .939	20 3 642.140/0 1147.817 .1353E-05 .968	20 1 542.14/5/ 1147.811 .5405E-05 .967	31 2 842.15189 99 771.368 .1768E-02 1.038	01 0 042.10904 //1.363 .4421E-03 1.038 09 9 049.12495 019.767 7.020 0.0	32 2 042.10433 812.131 .3U3UE-U3 1.072 39 0 940.10485 910.703 .5752 52 525	32 0 542.19403 812.731 .1258E-03 1.072 20 9 946.02000 56 701.667 20202 20	00 2 0410 040 040 040 040 040 040 040 040 04	00 0 042.20020 131.219 .01/0E-03 1.036 00 9 040 65560 701 000 01000 01	30 3 542.20303 701.069 .2128E-03 1.070	JU I 642.27895 701.063 .85195-03 1.071	11 2 042.20920 42 93.008 .1366E-01 .982	11 U 842.29251 93.663 .3411E-02 .981	29 2 042.30/08 -83 092.487 .2397E-02 1.033 90 0 249.31456 60.481 7.0000.00 1.033	20 0 042.01400 092.401 .03922L-03 1.033	20 2 044.30000 396.331 .03913E-03 1.070 38 3 249 32106 40 254 076 275 275 07 1.031		20 0 842.3884/ 654.970 .6895E-03 1.031	28 U 842.40003 -469* 598.551 .1382E-02 1.071	2/ 2 842.45380 618.752 .3148E-02 1.029	27 0 842.45995 618.746 .7869E-03 1.029	9 3 842.46018 -17 76.527 .1563E-01 .994	9 1 842.46234 76.522 .7817E-02 .994	26 3 842.49670 505.219 .5359E-03 1.070	20 1 842.50010 186* 505.213 .2146E-02 1.071
$\frac{K J \sigma}{2} \frac{\nu_i}{2} \frac{\partial^2 - c}{\partial - c} E''_i = S_i W$	8 35 2 841.81171 14 944.544 .8779E-03 1.049	8 35 0 841.82101 944.538 .2195E-03 1.049	16 23 2 841.8/310 1010.091 .3848E-05 .970	18 23 U 841.87/32 1010.085 .7695E-05 .970	8 34 2 841.90029 25 899.325 .1058E-02 1.046	5 34 U 541.90916 899.320 .2644E-03 1.046	8 33 2 841.98652 57 855.389 .1266E-02 1.044	8 33 U 841.99498 855.384 .3164E-03 1.044	9 34 3 842.06376 933.558 2842E-03 1.073	6 32 2 542.07039 30 812.737 .1502E-02 1.041	0 32 U 042.U/044 012.(31 .3755E-03 1.041	9 34 1 842.08236 933.552 .1422E-03 1.074	1 13 3 842.12/83 120.030 .2815E-02 .940	1 13 1 842.13099 -12 120.025 .1125E-01 .939	19 20 3 642.145(U 1147.817 .1353E-05 .968 10 85 1 946.1755 1115.255	19 20 1 642.14(8/ 1147.811 .5405E-05 .967	6 31 2 642.15189 99 771.368 .1768E-02 1.038	0 01 U 042.10304 (/1.363 .4421E-03 1.038 0 09 9 049 16495 046 757 7.000 00 0	0 32 2 042.10430 012.737 .3030E-03 1.072 0 39 0 049 10485 016.671 1.0700 00 1.072	0 32 U 042.19403 812.731 .1258E-03 1.072 0 30 3 646.69000 60 761.607 60000 60 751	0 00 2 045.20099 22 131.285 .2068E-02 1.036 0 20 0 049.5999E 701.670 7.1701 0.0	7 20 3 240 257 20 131.219 .31/0E-03 1.036 7 20 3 240 257.50 701 500 5100 5100 510	7 30 1 646 6700 701 001 001 011009 2128E-03 1.070	9 11 9 949 66065 49 701.063 .8519E-03 1.071	2 11 2 042.20020 42 93.008 .1306E-01 .982	2 11 0 842.29251 93.663 .3411E-02 .981	8 29 2 042.30108 -83 092.487 .2397E-02 1.033 8 90 0 249 31456 200 401 20000 00 1.000	6 90 9 040 90000 092.401 .0992k-03 1.033	0 20 2 042.30000 395.357 . 5903E-03 1.070 8 38 3 249 32106 40 254 076 377.031 533		6 20 0 642.3684/ 654.970 .6895E-03 1.031	0 28 U 842.40003 -469* 598.551 .1382E-02 1.071	8 2/ 2 842.45380 618.752 .3148E-02 1.029	8 27 0 842.45995 618.746 .7869E-03 1.029	3 9 3 842.46018 -17 76.527 .1563E-01 .994	3 9 1 842.46234 76.522 7817E-02 .994	5 26 3 842.49670 505.219 .5359E-03 1.070	<u>0 20 1 042.00010 186* 005.213 .2146E-02 1.071</u>
$\frac{\Delta J K J \sigma}{\tilde{\lambda}_{i}} \frac{V_{i}}{V} \frac{\sigma - c}{V_{i}} = E_{i}^{\prime \prime} = S_{i} W$	0 8 35 2 841.81171 14 944.544 .8779E-03 1.049	U 8 35 U 841.82101 944.538 .2195E-03 1.049	-1 16 23 2 541.8(310 1010.091 .3848E-05 .970 1 18 89 0 041.5770	-1 18 23 0 841.87732 1010.085 .7695E-05 .970	0 6 34 2 641.90029 25 899.325 .1058E-02 1.046	0 8 34 0 841.90916 899.320 .2644E-03 1.046	0 6 33 2 641.96032 57 855.389 .1266E-02 1.044	U 8 33 U 841.94498 855.384 .3164E-03 1.044	1 9 34 3 842.05376 933.558 .2842E-03 1.073	0 6 32 2 842.0/039 30 812.737 .1502E-02 1.041	1 0 3 1 0 442.01044 812.731 .3755E-03 1.041	1 9 34 1 842.08236 933.552 .1422E-03 1.074	1 1 13 3 842.12783 120.030 2815E-02 .940	1 1 13 1 842.13099 -12 120.025 .1125E-01 .939	-1 19 20 3 642.145(0 1147.817 .1353E-05 .968	-1 19 20 1 642.1476/ 1147.811 .5405E-05 .967	0 6 31 2 642.15189 99 771.368 .1768E-02 1.038	U 0 31 U 042.13934 (/1.363 .4421E-03 1.038 1 2 29 9 249 12495 21872 72622 22	1 0 32 2 042.10430 012.737 .5U30E-U3 1.072 1 0 29 0 249.10465 015.751 .5C22.52	1 6 32 0 642.19403 812.731 .1258E-03 1.072 0 6 90 9 646.69000 60 701.607 00000 00 1.072	0 0 0 2 042.20099 22 (31.260 .2068E-02 1.036 0 0 90 0 049.99965 791.670 7.1201 0.0	0 0 00 0 0442,20020 (31,279 .3170E-03 1.036 1 7 90 9 040 65569 701 550 01007 50 1.036	1 7 30 1 642.20303 701.069 .2128E-03 1.070	1 0 1 0 242.27893 701.063 .8519E-03 1.071	1 2 11 2 042.26923 42 93.008 .1366E-01 .982	1 2 11 0 842.29251 93.663 .3411E-02 .981	0 8 29 2 542.30/08 -53 592.487 .2397E-02 1.033 0 8 90 0 249 91456 -609 491 50000 50 1 055	1 6 90 9 940 90000 102.401 .0992E-U3 1.033	1 U ZO Z 042.36000 395.35/ .6903E-U3 1.070 D 8 98 9 249 92106 40 654 076 67760769 1.023		U 6 26 U 842.3884/ 654.970 .6895E-03 1.031	1 0 28 U 542.4UUU3 -469* 598.551 .1382E-02 1.071	0 8 2/ 2 842.45380 618.752 .3148E-02 1.029	0 8 27 0 842.45995 618.746 .7869E-03 1.029	1 3 9 3 842.46018 -17 76.527 .1563E-01 .994	1 3 9 1 842.46234 76.522 7817E-02 .994	1 5 26 3 842.49670 505.219 .5359E-03 1.070	I 3 20 I 842.30010 180 ⁺ 305.213 .2146E-02 1.071

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W.	1.084	1.084	1.000	1.000	1.100	1.101	1.000	1.000	1.152	1.153	926.	976.	1.079	.973	.973	1.080	1.043	1.043	.921	.920	1.078	1.079	1.041	1.041	1.038	1.038	1.078	.974	.974	1.079	016.	.970	1.036	1.036	1.079	1.080	1.033	1.034
S.	.4199E-02	.2100E-02	.4799E-02	.1919E-01	.5899E-02	.1476E-02	.4543E-02	.9086E-02	.2051E-02	.8213E-02	.5705E-06	.2282E-05	.3647E-03	.1691E-05	.3382E-05	.9128E-04	.7302E-03	.3651E-03	.2570E-02	.1027E-01	.1587E-03	.6356E-03	.8796E-03	.4398E-03	.1051E-02	.5253E-03	.5294E-03	.1288E-01	.3221E-02	.1060E-02	.8059E-06	.3223E-05	.1246E-02	.6232E-03	.4228E-03	.1693E-02	.1466E-02	.7335E-03
E''_i	375.868	375.862	77.684	77.679	307.503	307.497	198.375	198.370	248.339	248.334	828.449	828.444	899.325	951.885	951.880	899.320	978.773	978.767	157.624	157.618	782.526	782.520	933.558	933.552	889.625	889.619	674.875	126.081	126.076	674.869	1084.465	1084.459	846.975	846.969	576.390	576.385	805.609	805.603
-0 -0	191*			-36	6-	0		23		-44										-51								35					177			-50	246^{*}	
ž	843.98554	843.99243	844.10633	844.10800	844.13182	844.14062	844.16389	844.16545	844.27710	844.28167	844.29934	844.30105	844.56159	844.57394	844.57585	844.59421	844.60969	844.61596	844.64315	844.64683	844.67457	844.68905	844.69924	844.70526	844.78640	844.79216	844.80097	844.81269	844.81657	844.82293	844.85380	844.85574	844.87116	844.87667	844.92909	844.93945	844.95350	844.95876
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2	32	3 7	S	ŝ	2	2	0	0	-		17]	17 1	80	18	18	00	<u>о</u>	с. Ф	-	-	ŀ-	[~	6	<u>б</u>	6	<u>б</u>	9	2	2	9	19	19	6	6	ŝ	ŝ	6	6
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W _i	1.009	1.009	1.008	1.008	1.006	1.006	1.005	1.005	.972	.972	1.004	1.004	1.003	1.003	1.002	1.002	1.001	1.001	1.075	.930	.930	1.076	1.074	1.075	<u>96</u> 9	696.	826.	978.	1.074	1.075	1.075	1.075	.992	.992	1.077	1.078	966.	266.
$S_{\mathbf{i}}$.6946E-02	.1737E-02	.6866E-02	.1717E-02	.6617E-02	.1654E-02	.6184E-02	.1546E-02	.2801E-05	.5603E-05	.5533E-02	.1383E-02	.4631E-02	.1158E-02	.3441E-02	.8603E-03	.1918E-02	.4795E-03	.4299E-03	.2701E-02	.1080E-01	.1076E-03	.1846E-03	.7389E-03	.1103E-05	.4412E-05	.1332E-01	.3331E-02	.6071E-03	.1215E-02	.4783E-03	.1913E-02	.1539E-01	.7694E-02	.2889E-02	.7230E-03	.1727E-01	.4312E-02
E_i''	305.413	305.407	284.679	284.674	265.240	265.235	247.096	247.090	980.343	980.338	230.245	230.240	214.690	214.685	200.430	200.425	187.466	187.461	855.389	138.180	138.174	855.384	741.155	741.149	1115.497	1115.491	109.227	109.222	636.073	636.067	540.161	540.155	89.495	89.489	453.420	453.415	78.978	78.972
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'n	843.07991	843.08284	843.12163	843.12434	843.16079	843.16329	843.19737	843.19968	843.22562	843.22769	843.23136	843.23349	843.26276	843.26472	843.29157	843.29338	843.31777	843.31944	843.36468	843.38672	843.39013	843.39615	843.47180	843.48570	843.50084	843.50289	843.55231	843.55587	843.59217	843.61317	843.71457	843.72445	843.72822	843.73052	843.84857	843.86236	843.91400	843.91619
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W.	1.011	1.011	1.010	1.010	1 000	1.082	1.082	1.007	1.007	.910	606.	.974	.974	1.006	1.006	1.005	1.005	1.082	1.004	1.004	1.083	1.003	1.003	026	1.002	.969 2	1.002	1.001	1.001	1.084	1.084	.972	.972	.988	.988	1.088	1.089
š	.5155E-02	.2577E-02	.5319E-02	.2659E-02	2698F-02	.1354E-03	.5416E-03	.5358E-02	.2679E-02	.2418E-02	.9662E-02	.6776E-06	.1355E-05	.5197E-02	.2598E-02	.4882E-02	.2441E-02	.4577E-03	.4389E-02	.2194E-02	.9163E-03	.3689E-02	.1844E-02	.1235E-01	.2750E-02	.3084E-02	.1375E-02	.1537E-02	.7684E-03	.3709E-03	.1484E-02	.4890E-06	.1956E-05	.1457E-01	.7286E-02	.2306E-02	.5772E-03
E''	409.640	409.634	385.029	385.023	361.705	825.181	825.175	339.685	339.680	178.362	178.357	924.717	924.711	318.954	318.948	299.516	299.510	714.963	281.372	281.367	714.957	264.523	264.518	144.230	248.969	144.225	248.904	234.710	234.705	613.908	613.902	1054.722	1054.716	119.316	119.311	522.018	522.012
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'n	845.74832	845.75110	845.79812	845.80074	040.04004 845.84781	845.87391	845.88897	845.88999	845.89231	845.89716	845.90112	845.92001	845.92177	845.93204	845.93424	845.97151	845.97357	846.00637	846.00837	846.01031	846.02927	846.04262	846.04445	846.07039	846.07426	846.07462	840.U/399	846.10328	846.10492	846.14022	846.15105	846.20456	846.20639	846.25609	846.25872	846.28583	846.30112
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W.	066.	066	1.031	1.031	1.084	1.029	1.029	266.	1.027	966.	1.027	1.090	1.091	1.025	1.025	1.023	1.023	1.108	1.109	1.000	1.000	.999 9	666 [.]	1.021	1.021	1.019	1.019	1.166	1.100	1.017	1.018	1.016	1.016	1.014	1.014	1.013	1.013
S.	5						3		3							~	2	\sim	2	\sim	2	2		2	N	2 1	4 6	$\sim c$	S /	2	2	2	2	3	62	03	8
	.1503E	.7516E-02	.1711E-02	-8557E-U3	.6491E-03	.1982E-02	.9911E-03	.1695E-0	.2277E-0	.4233E-02	.1138E-02	.3821E-02	.1912E-02	.2593E-02	.1296E-02	.2927E-02	.1464E-03	.5449E-02	.1364E-0	.4275E-0	.8549E-0	.4690E-0	.1876E-0	.3274E-U	.103/E-U	.3628E-0	0-31-101.	1929E-0		.3980E-0	.1992E-01	.4324E-0	.2162E-0	.4641E-	.2321E	.4926E	.2463E-
E_i''	103.758 .1503E	103.752 .7516E-02	765.529 .1711E-02	(03.323 .833/E-U3 407.075 0504E.03	487.069 .6491E-03	726.733 .1982E-02	726.728 .9911E-00	90.649 .1695E-0	689.225 .2277E-0	90.643 .4233E-02	689.219 .1138E-02	406.944 .3821E-02	406.938 .1912E-02	653.003 .2593E-02	652.998 .1296E-02	618.069 .2927E-02	618.064 .1464E-0	335.997 .5449E-01	335.992 .1364E-0	221.701 .4275E-0	221.696 .8549E-0	86.762 .4690E-0	- 86.757 .1876E-0	584.424 .3274E-U	064418 .103/E-U	552.067 .3628E-0	0-31-1017 200/200	Z74.230 .1929E-0	214.240	521.000 .3980E-0	520.995 .1992E-0	491.224 .4324E-0	491.218 .2162E-0	462.737 .4641E-	462.732 .2321E	435.543 .4926E	435.537 .2463E-
o-c E''_i	2 103.758 .1503E	103.752 .7516E-02	765.529 .1711E-02	10 107 075 050115-U3	487.069 .6491E-03	8 726.733 .1982E-02	726.728 .9911E-0	63 90.649 .1695E-0	-72 689.225 .2277E-0	90.643 .4233E-02	689.219 .1138E-02	32 406.944 .3821E-02	257* 406.938 .1912E-02	139 653.003 .2593E-02	652.998 .1296E-02	141 618.069 .2927E-02	618.064 .1464E-0	-11 335.997 .5449E-02	335.992 .1364E-0	221.701 .4275E-0	-73 221.696 .8549E-0	86.762 .4690E-0	-44 - 86.757 .1876E-0	84 584.424 .3274E-U	054.418 .103/E-U	-18 552.067 .3628E-0	0-315101. 200,200	2/4.250 .1929E-0	-UL-10[]. [47-24-20].	1 521.000 .3980E-0	520.995 .1992E-03	-30 491.224 .4324E-0	491.218 .2162E-0	-33 462.737 .4641E-	462.732 .2321E	-50 435.543 .4926E	435.537 .2463E-
ν_i o-c E''_i	844.99352 2 103.758 .1503E	844.99598 103.752 .7516E-02	845.03341 765.529 .1711E-02	049.03042 (09.323 .855(F-03 245.08980 10 407.075 950452.09	845.08343 18 487.069 .6491E-03	845.11087 8 726.733 .1982E-02	845.11565 726.728 .9911E-0	845.18453 63 90.649 .1695E-0	845.18587 -72 689.225 .2277E-0	845.18692 90.643 .4233E-02	845.19042 689.219 .1138E-02	845.21131 32 406.944 .3821E-02	845.21857 257* 406.938 .1912E-02	845.25840 139 653.003 .2593E-02	845.26272 652.998 .1296E-02	845.32845 141 618.069 .2927E-02	845.33255 618.064 .1464E-0	845.36282 -11 335.997 .5449E-02	845.37214 335.992 .1364E-0	845.37624 221.701 .4275E-0	845.37781 -73 221.696 .8549E-0	845.38211 86.762 .4690E-0	845.38387 -44 86.757 .1876E-0	845.39000 84 584.424 .3274E-0 945 90000 54 584.410 17975 0	040.39990 054418 1051E-U	845.46104 -18 552.067 .3628E-0 845 48474 -559 659 1914E 0	0-315101, 200/200 1102/020 0-315101, 200/200 20113/200	640.01160 2/4.200 .1929E-0	040.01000 -03 244.240 .10000 .000 .000 .000 .000 .000 .000	845.52351 I 521.000 .3980E-0	845.52707 520.995 .1992E-0	845.58357 -30 491.224 .4324E-0	845.58688 491.218 .2162E-0	845.64104 -33 462.737 .4641E-	845.64417 462.732 .2321E	845.69596 -50 435.543 .4926E	845.69891 435.537 .2463E-
σ ν; ο-c E''	3 844.99352 2 103.758 .1503E	1 844.99598 103.752 .7516E-02	3 845.03341 765.529 .1711E-02	1 049.03042 (03.323 335/E-U3 9 045.06800 10 407.075 0504E.09	0 845.08343 487.069 .6491E-03	3 845.11087 8 726.733 .1982E-02	1 845.11565 726.728 .9911E-0	2 845.18453 63 90.649 .1695E-0	3 845.18587 -72 689.225 .2277E-0	0 845.18692 90.643 .4233E-02	1 845.19042 689.219 .1138E-02	3 845.21131 32 406.944 .3821E-02	1 845.21857 257* 406.938 .1912E-02	3 845.25840 139 653.003 .2593E-02	1 845.26272 652.998 .1296E-02	3 845.32845 141 618.069 .2927E-02	1 845.33255 618.064 .1464E-0	2 845.36282 -11 335.997 .5449E-02	0 845.37214 335.992 .1364E-0	2 845.37624 221.701 .4275E-0	0 845.37781 -73 221.696 .8549E-0	3 845.38211 86.762 .4690E-0	1 845.38387 -44 86.757 .1876E-0	3 845.39000 84 584.424 .3274E-0 1 845 20000 55 584.426 .3274E-0	1 040.3999U 004.410 .103/E-U	3 845.46104 -18 552.067 .3628E-0 1 845 48474 559 069 1914E 0	0-2131017 200/200 51101-010 1 0 2001 200 200 50013 300 0	3 840.01150 2/4.200 .1929E-0 1 045 51666 50 071 045 77007 0	1 049.01000 -38 214.240 .1130E-U	3 849.9239/ I 921.000 .3980E-0	1 845.52707 520.995 .1992E-0	3 845.58357 -30 491.224 .4324E-0	1 845.58688 491.218 .2162E-0	3 845.64104 -33 462.737 .4641E-	1 845.64417 462.732 .2321E	3 845.69596 -50 435.543 .4926E	I 845.69891 435.537 .2463E-
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E''_i	516.143	357.717	357.712	516.137	490.244	490.239	497.827	465.637	465.632	497.822	168.438	168.432	442.323	442.317	420.301	420.296	399.573	399.567	423.180	423.174	380.138	380.133	361.997	* 361.992	345.151	151.593	345.146	151.588	143.960	143.955	301.454	301.449	820.778	820.773	145.548	145.542	716.040	254.388
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E''	886.150	886.144	130.995	130.989	846.076	846.070	807.287	807.281	769 784	627.697	274.250	274 245	135 175	135 169	733 568	733 563	776.835	776,830	698 640	608 635	665 000	664 994	102:100	929 764	674.664	632.649	632.643	674.658	601.587	601.581	571,815	571.809	194.500	194.495	581.661	581.655	543.333	543.328
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E''_i	722.839	722.834	694.367	694.361	375.868	375.862	667.184	667.179	685.815	685.810	230.245	230.240	641.293	641.288	616.694	616.688	593.386	593.381	571.371	571.366	331.702	331.697	550.649	550.644	234.710	234.705	296.742	296.737	642.419	642.413	270.983	270.978	528.014	528.009	462.883	462.877	254.430	254.431
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E"	1121.055	1121.050	221.747	221.742	1078.426	1078.420	1037.079	272.126	272.120	1037.073	997.017	110.766	958.240	958.234	920.749	920.743	248.954	248.949	491.781	884.544	884.538	491.776	602.325	* 602.320	849.626	849.621	815.996	815.991	429.227	429.221	783.655	783.649	234.996	234.991	752.602	752.597	778.469	778.463
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S.	.1562E-03	.3906E-04	.1828E-03	.2116E-03	.5291E-04	.1111E-01	.2776E-02	.4851E-02	.1211E-02	.2428E-03	.6069E-04	.2755E-03	.6886E-04	.3090E-03	.7724E-04	.1199E-01	.5994E-02	.3422E-03	.8555E-04	.1561E-02	.6237E-02	.3735E-03	.9337E-04	.4017E-03	.1004E-03	.4245E-03	.1061 - 03	.4393E-03	.1098E-03	.2750E-03	.1097E-02	.1256E-01	.3139E-02	.3832E-02	.7664E-02	.4430E-03	1100E 02
E,	1241.703	1241.697	1199.083	1157.747	1157.741	305.413	305.407	453.420	453.415	1117.695	1117.689	1078.927	1078.921	1041.445	1041.439	299.516	299.510	1005.249	1005.243	408.128	408.122	970.340	970.334	936.718	936.712	904.384	904.379	873.339	873.334	685.815	685.810	302.824	302.818	372.029	372.023	843.583	049 570
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'n	864.88128	864.88628	864.97082 864.07557	865.05775	865.06224	865.06227	865.06541	865.13179	865.13966	865.14204	865.14629	865.22370	865.22772	865.30272	865.30650	865.36981	865.37199	865.37908	865.38264	865.41125	865.41589	865.45278	865.45613	865.52382	865.52695	865.59218	865.59511	865.65786	865.66060	865.66555	865.67678	865.68552	865.68750	865.70306	865.70827	865.72085	046 70940
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W.	1.000	1.000	.706	704 704	986.	.875	.874	.994	.994	.934	.933	7997	7997	.962	.961	666.	666.	1.000	1.000	176.	.16.	1.000	1.000	688.	.686	.987	.986	.866	.864	1.021	1.021	.993	.993	1.019	1.019	.928	000
S. W.	.1432E-01 1.000	.3579E-02 1.000	.4063E-03 .706	1620F-02 704	.9443E-02 .988	.2851E-02 .875	.7120E-03 .874	.2718E-02 .994	.1087E-01 .994	.4131E-02 .934	.2063E-02 .933	.1204E-01 .997	.3011E-02 .997	.5541E-02 .962	.1384E-02 .961	.1290E-01 .999	.6452E-02 .999	.5409E-03 1.000	.1082E-02 1.000	.1759E-02 .977	.7036E-02 .977	.1343E-01 1.000	.3357E-02 1.000	.3355E-03 .688	.1338E-02 .686	.4270E-02 .987	.8531E-02 .986	.2421E-02 .866	.6040E-03 .864	.1111E-03 1.021	.2778E-04 1.021	.2483E-02 .993	.9933E-02 .993	.1323E-03 1.019	.3308E-04 1.019	.3565E-02 .928	170910 00 000
$E_{i}^{\prime\prime}$ S_{i} W_{i}	273.013 .1432E-01 1.000	273.008 .3579E-02 1.000	604.343 .4063E-03 .706	604 337 1690F-02 - 300	318.916 .9443E-02 .988	534.060 .2851E-02 .875	534.055 .7120E-03 .874	297.199 .2718E-02 .994	297.193 .1087E-01 .994	472.965 .4131E-02 .934	472.959 .2063E-02 .933	284.679 .1204E-01 .997	284.674 .3011E-02 .997	421.055 .5541E-02 .962	421.050 .1384E-02 .961	281.372 .1290E-01 .999	281.367 .6452E-02 .999	770.409 .5409E-03 1.000	770.403 .1082E-02 1.000	378.344 .1759E-02 .977	378.339 .7036E-02 .977	287.271 .1343E-01 1.000	287.265 .3357E-02 1.000	644.436 .3355E-03 .688	644.431 .1338E-02 .686	344.829 .4270E-02 .987	344.824 .8531E-02 .986	571.580 .2421E-02 .866	571.575 .6040E-03 .864	1330.789 .1111E-03 1.021	1330.783 .2778E-04 1.021	320.520 .2483E-02 .993	320.514 .9933E-02 .993	1285.605 .1323E-03 1.019	1285.599 .3308E-04 1.019	507.909 .3565E-02 .928	EN7 003 1783E 09 035
o -c E''_{ii} S_i W_i	8 273.013 .1432E-01 1.000	273.008 .3579E-02 1.000	604.343 .4063E-03 .706	310-321	-119 318.916 .9443E-02 .988	62 534.060 .2851E-02 .875	534.055 .7120E-03 .874	297.199 .2718E-02 .994	-52 297.193 .1087E-01 .994	215* 472.965 .4131E-02 .934	472.959 .2063E-02 .933	42 284.679 .1204E-01 .997	284.674 .3011E-02 .997	2 421.055 .5541E-02 .962	421.050 .1384E-02 .961	-19 281.372 .1290E-01 .999	281.367 .6452E-02 .999	770.409 .5409E-03 1.000	202* 770.403 .1082E-02 1.000	378.344 .1759E-02 .977	-41 378.339 .7036E-02 .977	33 287.271 .1343E-01 1.000	287.265 .3357E-02 1.000	644.436 .3355E-03 .688	-77 644.431 .1338E-02 .686	344.829 .4270E-02 .987	-22 344.824 .8531E-02 .986	65 571.580 .2421E-02 .866	571.575 .6040E-03 .864	1330.789 .1111E-03 1.021	1330.783 .2778E-04 1.021	320.520 .2483E-02 .993	-51 320.514 .9933E-02 .993	1285.605 .1323E-03 1.019	1285.599 .3308E-04 1.019	-26 507.909 .3565E-02 .928	507 003 1723E 00 095
ν_i o-c E''_i S_i W_i	863.16196 8 273.013 .1432E-01 1.000	863.16363 273.008 .3579E-02 1.000	863.22160 604.343 .4063E-03 .706	009.22310 310.321 31.21E-02 300 863 93163 88 604 337 1690F-09 704	863.23370 -119 318.916 .9443E-02 .988	863.40157 62 534.060 .2851E-02 .875	863.41308 534.055 .7120E-03 .874	863.51650 297.199 .2718E-02 .994	863.51942 -52 297.193 .1087E-01 .994	863.64163 215* 472.965 .4131E-02 .934	863.64791 472.959 .2063E-02 .933	863.81297 42 284.679 .1204E-01 .997	863.81589 284.674 .3011E-02 .997	863.90642 2 421.055 .5541E-02 .962	863.91383 421.050 .1384E-02 .961	864.11504 -19 281.372 .1290E-01 .999	864.11709 281.367 .6452E-02 .999	864.12423 770.409 .5409E-03 1.000	864.12591 202* 770.403 .1082E-02 1.000	864.18105 378.344 .1759E-02 .977	864.18544 -41 378.339 .7036E-02 .977	864.42520 33 287.271 .1343E-01 1.000	864.42701 287.265 .3357E-02 1.000	864.44442 644.436 .3355E-03 .688	864.45503 -77 644.431 .1338E-02 .686	864.46758 344.829 .4270E-02 .987	864.47246 -22 344.824 .8531E-02 .986	864.62032 65 571.580 .2421E-02 .866	864.63252 571.575 .6040E-03 .864	864.69437 1330.789 .1111E-03 1.021	864.69990 1330.783 .2778E-04 1.021	864.76029 320.520 .2483E-02 .993	864.76338 -51 320.514 .9933E-02 .993	864.78913 1285.605 .1323E-03 1.019	864.79439 1285.599 .3308E-04 1.019	864.86272 -26 507.909 .3565E-02 .928	004 00095 ENT 009 1703E 09 095
σ ν; ο-c Ε'' S; W _i	2 863.16196 8 273.013 .1432E-01 1.000	0 863.16363 273.008 .3579E-02 1.000	3 863.22160 604.343 .4063E-03 .706	2 003.22910 310.321 34.212 300 1 863 93163 88 604 337 1690F-09 704	0 863.23370 -119 318.916 .9443E-02 .988	2 863.40157 62 534.060 .2851E-02 .875	0 863.41308 534.055 .7120E-03 .874	3 863.51650 297.199 .2718E-02 .994	1 863.51942 -52 297.193 .1087E-01 .994	3 863.64163 215* 472.965 .4131E-02 .934	1 863.64791 472.959 .2063E-02 .933	2 863.81297 42 284.679 .1204E-01 .997	0 863.81589 284.674 .3011E-02 .997	2 863.90642 2 421.055 .5541E-02 .962	0 863.91383 421.050 .1384E-02 .961	3 864.11504 -19 281.372 .1290E-01 .999	I 864.11709 281.367 .6452E-02 .999	2 864.12423 770.409 .5409E-03 1.000	0 864.12591 202* 770.403 .1082E-02 1.000	3 864.18105 378.344 .1759E-02 .977	1 864.18544 -41 378.339 .7036E-02 .977	2 864.42520 33 287.271 .1343E-01 1.000	0 864.42701 287.265 .3357E-02 1.000	3 864.44442 644.436 .3355E-03 .688	1 864.45503 -77 644.431 .1338E-02 .686	2 864.46758 344.829 .4270E-02 .987	0 864.47246 -22 344.824 .8531E-02 .986	2 864.62032 65 571.580 .2421E-02 .866	0 864.63252 571.575 .6040E-03 .864	2 864.69437 1330.789 .1111E-03 1.021	0 864.69990 1330.783 .2778E-04 1.021	3 864.76029 320.520 .2483E-02 .993	1 864.76338 -51 320.514 .9933E-02 .993	2 864.78913 1285.605 .1323E-03 1.019	0 864.79439 1285.599 .3308E-04 1.019	3 864.86272 -26 507.909 .3565E-02 .926	1 26/ 26/25 5/7 0/2 1723F-09 095
$I \sigma$ ν_i o -c E''_i S_i W_i	10 2 863.16196 8 273.013 .1432E-01 1.000	10 0 863.16363 273.008 .3579E-02 1.000	30 3 863.22160 604.343 .4063E-03 .706	19 2 000.22910 010.921 1412112-02 300 20 1 863 92163 88 604 237 169015-02 704	19 0 863.23370 -119 318.916 .9443E-02 .988	28 2 863.40157 62 534.060 .2851E-02 .875	28 0 863.41308 534.055 .7120E-03 .874	17 3 863.51650 297.199 .2718E-02 .994	17 1 863.51942 -52 297.193 .1087E-01 .994	26 3 863.64163 215* 472.965 .4131E-02 .934	26 1 863.64791 472.959 .2063E-02 .933	15 2 863.81297 42 284.679 .1204E-01 .997	15 0 863.81589 284.674 .3011E-02 .997	24 2 863.90642 2 421.055 .5541E-02 .962	24 0 863.91383 421.050 .1384E-02 .961	13 3 864.11504 -19 281.372 .1290E-01 .999	13 1 864.11709 281.367 .6452E-02 .999	34 2 864.12423 770.409 .5409E-03 1.000	34 0 864.12591 202* 770.403 .1082E-02 1.000	22 3 864.18105 378.344 .1759E-02 .977	22 1 864.18544 -41 378.339 .7036E-02 .977	11 2 864.42520 33 287.271 .1343E-01 1.000	11 0 864.42701 287.265 .3357E-02 1.000	31 3 864.4442 644.436 .3355E-03 .688	31 1 864.45503 -77 644.431 .1338E-02 .686	1 20 2 864.46758 344.829 .4270E-02 .987	1 20 0 864.47246 -22 344.824 .8531E-02 .986	29 2 864.62032 65 571.580 .2421E-02 .866	29 0 864.63252 571.575 .6040E-03 .864	1 35 2 864.69437 1330.789 .1111E-03 1.021	1 35 0 864.69990 1330.783 .2778E-04 1.021	· 18 3 864.76029 320.520 .2483E-02 .993	· 18 1 864.76338 -51 320.514 .9933E-02 .993	34 2 864.78913 1285.605 .1323E-03 1.019	1 34 0 864.79439 1285.599 .3308E-04 1.019	1 27 3 864.86272 -26 507.909 .3565E-02 .926	002 1 064 06035 507 003 1793B 09
$K \ J \ \sigma \nu; o-c E'' \qquad S_i W_i$	10 10 2 863.16196 8 273.013 .1432E-01 1.000	10 10 0 863.16363 273.008 .3579E-02 1.000	1 30 3 863.22160 604.343 .4063E-03 .706	0 19 2 000.22910 010.921 .4121E-02 .300 1 20 1 863 02163 88 604 337 1690F-09 704	6 19 0 863.23370 -119 318.916 .9443E-02 .988	2 28 2 863.40157 62 534.060 .2851E-02 .875	2 28 0 863.41308 534.055 .7120E-03 .874	7 17 3 863.51650 297.199 .2718E-02 .994	7 17 1 863.51942 -52 297.193 .1087E-01 .994	3 26 3 863.64163 215* 472.965 .4131E-02 .934	3 26 1 863.64791 472.959 .2063E-02 .933	8 15 2 863.81297 42 284.679 .1204E-01 .997	8 15 0 863.81589 284.674 .3011E-02 .997	4 24 2 863.90642 2 421.055 .5541E-02 .962	4 24 0 863.91383 421.050 .1384E-02 .961	9 13 3 864.11504 -19 281.372 .1290E-01 .999	9 13 1 864.11709 281.367 .6452E-02 .999	0 34 2 864.12423 770.409 .5409E-03 1.000	0 34 0 864.12591 202* 770.403 .1082E-02 1.000	5 22 3 864.18105 378.344 .1759E-02 .977	5 22 1 864.18544 -41 378.339 .7036E-02 .977	10 11 2 864.42520 33 287.271 .1343E-01 1.000	10 11 0 864.42701 287.265 .3357E-02 1.000	1 31 3 864.44442 644.436 .3355E-03 .688	1 31 1 864.45503 -77 644.431 .1338E-02 .686	6 20 2 864.46758 344.829 .4270E-02 .987	6 20 0 864.47246 -22 344.824 .8531E-02 .986	2 29 2 864.62032 65 571.580 .2421E-02 .866	2 29 0 864.63252 571.575 .6040E-03 .864	16 35 2 864.69437 1330.789 .1111E-03 1.021	1 16 35 0 864.69990 1330.783 .2778E-04 1.021	7 18 3 864.76029 320.520 .2483E-02 .993	7 18 1 864.76338 -51 320.514 .9933E-02 .993	16 34 2 864.78913 1285.605 .1323E-03 1.019	1 16 34 0 864.79439 1285.599 .3308E-04 1.019	3 27 3 864.86272 -26 507.909 .3565E-02 .926	9 97 1 064 06095 507 003 1799F 09 095
$\Delta I K J \sigma$ ν_i o-c E'' S_i W_i	1 10 10 2 863.16196 8 273.013 .1432E-01 1.000	1 10 10 0 863.16363 273.008 .3579E-02 1.000	1 1 30 3 863.22160 604.343 .4063E-03 .706	1 0 19 2 000.22910 310.921 .412115-02 .300 1 1 20 1 862 93183 88 604 337 16905-09 704	1 6 19 0 863.23370 -119 318.916 .9443E-02 .988	1 2 28 2 863.40157 62 534.060 .2851E-02 .875	1 2 28 0 863.41308 534.055 .7120E-03 .874	1 7 17 3 863.51650 297.199 .2718E-02 .994	1 7 17 1 863.51942 -52 297.193 .1087E-01 .994	1 3 26 3 863.64163 215* 472.965 4131E-02 934	1 3 26 1 863.64791 472.959 .2063E-02 .933	1 8 15 2 863.81297 42 284.679 .1204E-01 .997	1 8 15 0 863.81589 284.674 .3011E-02 .997	1 4 24 2 863.90642 2 421.055 .5541E-02 .962	1 4 24 0 863.91383 421.050 .1384E-02 .961	1 9 13 3 864.11504 -19 281.372 .1290E-01 .999	1 9 13 1 864.11709 281.367 .6452E-02 .999	1 0 34 2 864.12423 770.409 .5409E-03 1.000	1 0 34 0 864.12591 202* 770.403 .1082E-02 1.000	1 5 22 3 864.18105 378.344 .1759E-02 .977	1 5 22 1 864.18544 -41 378.339 .7036E-02 .977	1 10 11 2 864.42520 33 287.271 .1343E-01 1.000	1 10 11 0 864.42701 287.265 .3357E-02 1.000	1 1 31 3 864.44442 644.436 .3355E-03 .688	1 1 31 1 864.45503 -77 644.431 .1338E-02 .686	1 6 20 2 864.46758 344.829 .4270E-02 .987	1 6 20 0 864.47246 -22 344.824 .8531E-02 .986	1 2 29 2 864.62032 65 571.580 .2421E-02 .866	1 2 29 0 864.63252 571.575 .6040E-03 .864	0 16 35 2 864.69437 1330.789 .1111E-03 1.021	0 16 35 0 864.69990 1330.783 .2778E-04 1.021	1 7 18 3 864.76029 320.520 .2483E-02 .993	1 7 18 1 864.76338 -51 320.514 .9933E-02 .993	0 16 34 2 864.78913 1285.605 .1323E-03 1.019	0 16 34 0 864.79439 1285.599 .3308E-04 1.019	1 3 27 3 864.86272 -26 507.909 .3565E-02 .928	1 2 97 1 264 26035 507 003 1783F-09 095

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M.	994	1905	.950	.949	1.019	1.019	1.018	1.018	1.016	1.016	696.	696.	266	266	1.015	1.015	1.014	1.014	1.013	1.013	.634	.632	1.011	.981	1.012	.981	666.	666.	1.010	1.010	.837	.835	1.009	1.009	1.008	1.008	1.007	1.007
š	.9274E-02	.2319E-02	.3640E-02	.9090E-03	.1944E-04	.7775E-04	.2310E-04	.9240E-04	.2717E-04	.1087E-03	.1202E-02	.4807E-02	.1020E-01	.5098E-02	.3168E-04	.1267E-03	.3656E-04	.1463E-03	.4174E-04	.1670E-03	.1804E-03	.7193E-03	.4706E-04	.3024E-02	.1884E-03	.6049E-02	.1083E-01	.2707E-02	.5244E-04	.2098E-03	.1417E-02	.3534E-03	.5763E-04	.2305E-03	.6236E-04	.2495E-03	.6629E-04	.2652E-03
Ε,	350.759	350.754	522.018	522.012	1397.106	1397.100	1351.928	1351.922	1308.032	1308.026	471.566	471.560	339.685	339.680	1265.418	1265.412	1224.087	1224.081	1184.040	1184.034	772.426	772.420	1145.278	430.302	1145.272	430.297	337.813	337.808	1107.800	1107.794	691.859	691.853	1071.609	1071.603	1036.704	1036.699	1003.087	1003.082
р С	32		12									234*	-94									-40				123	39				29							
ž	867.55196	867.55561	867.57392	867.58278	867.62901	867.63313	867.72449	867.72844	867.81735	867.82112	867.86284	867.86802	867.87049	867.87294	867.90757	867.91117	867.99514	867.99858	868.08007	868.08334	868.10296	868.11545	868.16233	868.16512	868.16544	868.17105 -	868.19734	868.19967	868.24192	868.24489	868.26196	868.27635	868.31884	868.32166	868.39308	868.39575	868.46463	868.46716
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W_i	1.005	1.005	.857	1.004	1.004	.855	1.003	1.003	1.002	1.002	1.001	1.001	166.	166.	.922	.922	.995	.995	.954	.953	966 ⁻	866.	.972	.972	.652	.650	.983	588. 000	999. 000	999. 	.847	.845	066.	066.	1.000	1.000	.917	.916
S_i W_i	.4326E-03 1.005	.1082E-03 1.005	.2042E-02 .857	.4032E-03 1.004	.1008E-03 1.004	.5092E-03 .855	.3507E-03 1.003	.8767E-04 1.003	.2699E-03 1.002	.6747E-04 1.002	.1551E-03 1.001	.3878E-04 1.001	.2252E-02 .991	.9009E-02 .991	.3055E-02 .922	.1528E-02 .922	.1018E-01 .995	.2545E-02 .995	.4216E-02 .954	.1053E-02 .953	.1109E-01 .998	.5546E-02 .998	.1374E-02 972	.5498E-02 .972	.2236E-03 .652	.8916E-03 .650	.3416E-02 .983	.0632E-UZ .983	.1108E-01 .999	.29ZUE-UZ .999	.1/0/E-02 .847	.4258E-03 .845	.2031E-02 .990	.8126E-02 .990	.2991E-02 1.000	.1196E-01 1.000	.2602E-02 .917	.1300E-02 .916
$E''_i S_i W_i$	815.117 .4326E-03 1.005	815.112 .1082E-03 1.005	610.388 .2042E-02 .857	787.942 .4032E-03 1.004	787.936 .1008E-03 1.004	610.382 .5092E-03 .855	762.057 .3507E-03 1.003	762.051 .8767E-04 1.003	737.463 .2699E-03 1.002	737.458 .6747E-04 1.002	714.162 .1551E-03 1.001	714.156 .3878E-04 1.001	345.134 .2252E-02 .991	345.129 .9009E-02 .991	544.141 .3055E-02 .922	544.135 .1528E-02 .922	327.439 .1018E-01 .995	327.434 .2545E-02 .995	487.075 .4216E-02 .954	487.069 .1053E-02 .953	318.954 .1109E-01 .998	318.948 .5546E-02 .998	439.202 .13/4E-02 .972	439.196 .5498E-02 .972	(28.4/9 .2236E-03 .652	(28.4/3 .8916E-03 .650	400.520 .3416E-02 .983	400.014 .0032E-02 .983	319.071 .1168E-UI .999	319.000 .292UE-UZ .999	000.461 .1/0/E-02 .847	650.475 .4258E-03 .845	371.040 .2031E-02 .990	371.035 .8126E-02 .990	329.600 .2991E-02 1.000	329.594 .1196E-01 1.000	581.661 .2602E-02 .917	581.655 .1300E-02 .916
$o-c E''_i S_i W_i$	815.117 .4326E-03 1.005	815.112 .1082E-03 1.005	80 610.388 .2042E-02 .857	787.942 .4032E-03 1.004	787.936 .1008E-03 1.004	610.382 .5092E-03 .855	762.057 .3507E-03 1.003	762.051 .8767E-04 1.003	737.463 .2699E-03 1.002	737.458 .6747E-04 1.002	714.162 .1551E-03 1.001	714.156 .3878E-04 1.001	345.134 .2252E-02 .991	-51 345.129 .9009E-02 .991	632* 544.141 .3055E-02 .922	544.135 .1528E-02 .922	51 327.439 .1018E-01 .995	327.434 .2545E-02 .995	3 487.075 .4216E-02 .954	487.069 .1053E-02 .953	-15 318.954 .1109E-01 .998	318.948 .5546E-02 .998	439.202 .1374E-U2 .972	-81 439.196 .5498E-02 .972	(Z8.4/9 .Z236E-03 .652	-228 ⁺ (28.4/3 .8916E-03 .650	400.520 .3416E-02 .983	100 400.014 .0652E-02 .983	-21 319.011 .1198E-UI .999	319.000 .2920E-02 .999	30 050.481 .1/0/E-02 .847	650.475 .4258E-03 .845	371.040 .2031E-02 .990	-88 371.035 .8126E-02 .990	329.600 . $2991E-02$ 1.000	-26 329.594 .1196E-01 1.000	292* 581.661 .2602E-02 .917	581.655 .1300E-02 .916
ν_i o-c E''_i S_i W_i	865.78115 815.117 .4326E-03 1.005	865.78352 815.112 .1082E-03 1.005	865.83662 80 610.388 .2042E-02 .857	865.83875 787.942 .4032E-03 1.004	865.84095 787.936 .1008E-03 1.004	865.84953 610.382 .5092E-03 .855	865.89364 762.057 .3507E-03 1.003	865.89567 762.051 .8767E-04 1.003	865.94583 737.463 .2699E-03 1.002	865.94770 737.458 .6747E-04 1.002	865.99529 714.162 .1551E-03 1.001	865.99702 714.156 .3878E-04 1.001	866.00110 345.134 .2252E-02 .991	866.00438 -51 345.129 .9009E-02 .991	866.08108 632* 544.141 .3055E-02 .922	866.08806 544.135 .1528E-02 .922	866.30860 51 327.439 .1018E-01 .995	866.31200 327.434 .2545E-02 .995	500.33429 5 487.075 .4216E-02 .954	800.30265 487.069 .1053E-02 .953	000.02103 -13 318.934 .1109E-01 .998	000.02390 318.948 .5546E-02 .998 066 69050 100 000 1071D 00	000.00002 439.202 .13/4E-U2 .972	806.04342 -81 439.196 .5498E-02 .972	000.00010 (28.4/9 .2236E-03 .652	000.03030 -2287 (28.4/3 .8916E-03 .650	000.93337 400.520 3416E-02 983	000.34114 100 400.014 .0832E-UZ .983	000.34231 -21 319.0/1 .1108E-01 .999	000.34000 319.000 .2920E-UZ .999 067 06040 36 650 401 12020 00 012	001.00049 30 000.481 .1/0/E-02 .847	867.06413 650.475 .4258E-03 .845	867.23895 371.040 .2031E-02 .990	867.24242 -88 371.035 .8126E-02 .990	867.26958 329.600 .2991E-02 1.000	867.27122 -26 329.594 .1196E-01 1.000	867.29670 292* 581.661 .2602E-02 .917	807.30409 581.655 .1300E-02 .916
σ ν; ο-c Ε'' S _i W _i	2 865.78115 815.117 .4326E-03 1.005	0 865.78352 815.112 .1082E-03 1.005	2 865.83662 80 610.388 .2042E-02 .857	2 865.83875 787.942 .4032E-03 1.004	0 865.84095 787.936 .1008E-03 1.004	0 865.84953 610.382 .5092E-03 .855	2 865.89364 762.057 .3507E-03 1.003	0 865.89567 762.051 .8767E-04 1.003	2 865.94583 737.463 .2699E-03 1.002	0 865.94770 737.458 .6747E-04 1.002	2 865.99529 714.162 .1551E-03 1.001	0 865.99702 714.156 .3878E-04 1.001	3 866.00110 345.134 .2252E-02 .991	1 866.00438 -51 345.129 .9009E-02 .991	3 866.08108 632* 544.141 .3055E-02 .922	1 866.08806 544.135 .1528E-02 .922	2 866.30860 51 327.439 .1018E-01 .995	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2 800.35429 5 487.075 .4216E-02 .954	U 806.36265 487.069 .1053E-02 .953	3 000.02103 -13 318.934 .1109E-01 .998	1 000.02390 318.948 .5546E-U2 .998 9 066 69050 100.000 10715.00 000	3 000.0002 439.202 .13/4E-02 .972	1 806.04342 -81 439.196 .5498E-02 .972	3 000.0001 (28.4/9 .2236E-03 .652	1 000.09090 -2287 (28.473 .8916E-03 .650 9 026 00757 100700 01100 00	2 000.93537 4UU.52U .3416E-U2 .983 0 966.04114 155 400.514 20000.00 200	0 000.34114 133 400.314 .0832E-02 .983	2 000.34231 -21 319.0/1 .1108E-01 .999 0 986.04505 -21 310.666 000000 00 000	0 000.34000 0.5 750.401 .2920E-02 .999	2 001.0049 30 000.481 .1/0/E-02 .847	0 867.00413 650.475 .4258E-03 .845	3 867.23895 371.040 .2031E-02 .990	1 867.24242 -88 371.035 .8126E-02 .990	3 867.26958 329.600 .2991E-02 1.000	1 867.27122 -26 329.594 .1196E-01 1.000	3 867.29670 292* 581.661 .2602E-02 .917	1 801.30405 581.655 .1300E-02 .916
$J \sigma \nu_i o - c E''_i S_i W_i$	21 2 865.78115 815.117 .4326E-03 1.005	21 0 865.78352 815.112 .1082E-03 1.005	30 2 865.83662 80 610.388 .2042E-02 .857	20 2 865.83875 787.942 .4032E-03 1.004	20 0 865.84095 787.936 .1008E-03 1.004	30 0 865-84953 610.382 .5092E-03 .855	19 2 865.89364 762.057 .3507E-03 1.003	19 0 865.89567 762.051 .8767E-04 1.003	18 2 865.94583 737.463 .2699E-03 1.002	18 0 865.94770 737.458 .6747E-04 1.002	17 2 865.99529 714.162 .1551E-03 1.001	17 0 865.99702 714.156 .3878E-04 1.001	19 3 866.00110 345.134 .2252E-02 .991	19 1 866.00438 -51 345.129 .9009E-02 .991	28 3 866.08108 632* 544.141 .3055E-02 .922	28 1 866.08806 544.135 .1528E-02 .922	17 2 866.30860 51 327.439 .1018E-01 .995	17 0 866.31200 327.434 .2545E-02 .995	20 2 800.33429 3 487.075 .4216E-02 .954	20 U 800.36263 487.069 .1053E-02 .953	10 3 800.02103 -10 318.954 .1109E-01 .998	13 1 000.02393 315.948 .5546E-U2 .998 34 3 226.23253 400.000 407.12 298	24 3 000.03032 439.202 .1374E-U2 .972	24 I 806.04342 -81 439.196 .5498E-02 .972	33 3 300.555U3 728.479 .2236E-U3 .652	33 I 800.8909U -228T (28.4/3 .8916E-U3 .650 90 9 666 06557 100 50150 01150	22 2 800.9300/ 400.020 .3416E-02 .983 29 0 966.04114 155 400.514 20000 20 200	22 U 000.34114 133 400.314 .0832E-02 .983 12 9 9 966 04001 91 910 671 11000 61 200	10 2 000.94291 -21 019.071 .1108E-01 .999 12 0 066.04505 010.660 00000000 00 000	10 0 000.34000 0.5 050 0.02220E-02 .999 91 9 067 06040 96 050 401 12020 00 015	01 2 001.00049 30 000.481 .1707E-02 .847	31 U 867.06413 650.475 .4258E-03 .845	20 3 867.23895 371.040 $2031E-02$ 990	20 1 867.24242 -88 371.035 .8126E-02 .990	11 3 867.26958 329.600 .2991E-02 1.000	11 1 867.27122 -26 329.594 .1196E-01 1.000	29 3 867.29670 292* 581.661 .2602E-02 .917	29 1 807.30405 581.655 .1300E-02 .916
$K J \sigma \nu_i$ o-c $E''_i S_i W_i$	16 21 2 865.78115 815.117 .4326E-03 1.005	16 21 0 865.78352 815.112 .1082E-03 1.005	2 30 2 865.83662 80 610.388 .2042E-02 .857	16 20 2 865.83875 787.942 .4032E-03 1.004	16 20 0 865.84095 787.936 .1008E-03 1.004	2 30 0 865.84953 610.382 .5092E-03 .855	10 19 2 865.89364 762.057 .3507E-03 1.003	16 19 0 865.89567 762.051 .8767E-04 1.003	16 18 2 865.94583 737.463 .2699E-03 1.002	16 18 0 865.94770 737.458 .6747E-04 1.002	16 17 2 865.99529 714.162 .1551E-03 1.001	16 17 0 865.99702 714.156 .3878E-04 1.001	7 19 3 866.00110 345.134 .2252E-02 .991	7 19 1 866.00438 -51 345.129 .9009E-02 .991	3 28 3 866.08108 632* 544.141 .3055E-02 .922	3 28 1 866.08806 544.135 .1528E-02 .922	8 17 2 866.30860 51 327.439 .1018E-01 .995	8 17 0 866.31200 327.434 .2545E-02 .995	4 20 2 800.33429 3 487.075 .4216E-02 .954	4 20 U 800.36265 487.069 .1053E-02 .953	915 1 000.02103 -13 318.954 .1109E-01 .998	9 10 1 000.02390 318.948 .5546E-U2 .998 E 94 9 066.29650 .00.000 107.17.00 000	5 24 3 000.03032 433.202 .13/4E-02 .972	3 24 1 806.04342 -81 439.196 .5498E-02 .972 1 3	1 33 3 000.083U3 (28.4/9 .2236E-03 .652	1 33 1 300.89090 -2287 (28.4/3 .8916E-03 .650 6 39 3 222 05757 202700 21120 20	0 22 2 000.93557 400.520 3416E-02 983 6 29 0 986 04114 155 400.514 200057 20 200	U 22 U 000.34114 100 400.014 .0652E-UZ .983	10 13 0 966 04505 -21 319.0/1 .1168E-01 .999	10 10 0 000.34000 019.000 .2920E-02 .999 0 21 0 06706040 06 670401 12022 00 015	2 31 2 001.03043 30 030.481 .170/E-02 .847	2 31 U 867.06413 650.475 .4258E-03 .845	$7 \ 20 \ 3 \ 867.23895 \ 371.040 \ 2031E-02 \ 990$	7 20 1 867.24242 -88 371.035 .8126E-02 .990	11 11 3 867.26958 329.600 .2991E-02 1.000	11 11 1 867.27122 -26 329.594 .1196E-01 1.000	3 29 3 867.29670 292* 581.661 .2602E-02 .917	<u>3 29 1 60/.30403 381.655 .1300E-02 .916</u>
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S;	.2586E-02	.1034E-01	.2656E-02	.6633E-03	.7556E-02	.1889E-02	.9002E-03	.3601E-02	.8477E-02	.4238E-02	.2658E-04	.5316E-04	.2324E-02	.4642E-02	.9560E-03	.3149E-04	.6298E-04	.2384E-03	.9154E-02	.2288E-02	.3694E-04	.7388E-04	.4290E-04	.8580E-04	.1535E-02	.1430E-02	.7668E-03	.5722E-02	.4923E-04	.9846E-04	.5589E-04	.1118E-03	.2387E-02	.9549E-02	.6266E-04	.1253E-03	.6928E-04	.1386E-03
E	361.997	361.992	595.767	595.762	401.276	401.271	540.161	540.155	385.029	385.023	1467.415	1467.409	493.737	493.732	778.469	1422.244	1422.238	778.463	377.980	377.974	1378.354	1378.348	1335.746	1335.740	701.937	456.509	701.931	456.504	1294.421	1294.415	1254.380	1254.374	380.138	380.133	1215.623	1215.617	1178.151	1178.145
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S _i И	.1820E-02 .989	.7274E-02 .988	.2196E-02 .91	.1098E-02 .91	.2786E-02 1.000	.1114E-01 1.00	.6900E-04 1.006	.2760E-03 1.000	.6998E-04 1.005	.2799E-03 1.005	.6872E-04 1.005	.2749E-03 1.005	.6440E-04 1.004	.2576E-03 1.004	.5631E-04 1.003	.2252E-03 1.003	.3120E-02 .946	.8397E-02 .99:	.2099E-02 .99;	.7792E-03 .94	.4357E-04 1.00	.1743E-03 1.00	.2517E-04 1.00	.1007E-03 1.00	.1044E-02 .96	.4175E-02 .96	.9329E-02 .997	.4665E-02 .997	.2660E-02 .97	.5320E-02 .979	.9986E-02 .999	.2497E-02 .999	.1168E-02 .827	.2913E-03 .825	.1619E-02 .98	.6476E-02 .98	.1843E-02 .90	.9204E-03 .90
E'' S _i W	398.239 .1820E-02 .989	398.233 .7274E-02 .986	620.467 .2196E-02 .91	620.461 .1098E-02 .91	345.151 .2786E-02 1.000	345.146 .1114E-01 1.000	970.758 .6900E-04 1.006	970.752 .2760E-03 1.006	939.717 .6998E-04 1.005	939.711 .2799E-03 1.005	909.965 .6872E-04 1.005	909.959 .2749E-03 1.005	881.503 .6440E-04 1.004	881.497 .2576E-03 1.004	854.331 .5631E-04 1.003	854.325 .2252E-03 1.003	558.249 .3120E-02 .946	375.372 .8397E-02 .993	375.366 .2099E-02 .99:	558.243 .7792E-03 .94	828.449 .4357E-04 1.00	828.444 .1743E-03 1.00	803.859 .2517E-04 1.00	803.854 .1007E-03 1.00	505.219 .1044E-02 .96	505.213 .4175E-02 .960	361.710 .9329E-02 .990	361.705 .4665E-02 .997	461.375 .2660E-02 .97	461.369 .5320E-02 .979	357.250 .9986E-02 .999	357.244 .2497E-02 .999	734.522 .1168E-02 .827	734.516 .2913E-03 .825	426.729 .1619E-02 .98	426.723 .6476E-02 .98	660.559 .1843E-02 .90	660.553 .9204E-03 .90
o-c E'' S _i W	398.239 .1820E-02 .989	-69 398.233 .7274E-02 .986	93 620.467 .2196E-02 .91	620.461 .1098E-02 .91	345.151 .2786E-02 1.000	-9 345.146 .1114E-01 1.000	970.758 .6900E-04 1.006	970.752 .2760E-03 1.006	939.717 .6998E-04 1.005	939.711 .2799E-03 1.005	909.965 .6872E-04 1.005	909.959 .2749E-03 1.005	881.503 .6440E-04 1.004	881.497 .2576E-03 1.004	854.331 .5631E-04 1.003	854.325 .2252E-03 1.003	153 558.249 .3120E-02 .946	-11 375.372 .8397E-02 .99:	375.366 .2099E-02 .99:	558.243 .7792E-03 .94	828.449 .4357E-04 1.00	828.444 .1743E-03 1.00	803.859 .2517E-04 1.00	803.854 .1007E-03 1.00	505.219 .1044E-02 .96	-63 505.213 .4175E-02 .960	-12 361.710 .9329E-02 .997	361.705 .4665E-02 .997	-94 461.375 .2660E-02 .97!	36 461.369 .5320E-02 .979	32 357.250 .9986E-02 .999	357.244 .2497E-02 .999	12 734.522 .1168E-02 .827	734.516 .2913E-03 .825	426.729 .1619E-02 .98	-74 426.723 .6476E-02 .98	331* 660.559 .1843E-02 .90	660.553 .9204E-03 .90
ν _i ο-c Ε'' S _i W	868.47380 398.239 .1820E-02 .989	868.47748 -69 398.233 .7274E-02 .986	868.50960 93 620.467 .2196E-02 .91	868.51734 620.461 .1098E-02 .91	868.52954 345.151 .2786E-02 1.000	868.53128 -9 345.146 .1114E-01 1.000	868.53348 970.758 .6900E-04 1.006	868.53588 970.752 .2760E-03 1.006	868.59963 939.717 .6998E-04 1.005	868.60190 939.711 .2799E-03 1.005	868.66307 909.965 .6872E-04 1.005	868.66521 909.959 .2749E-03 1.005	868.72380 881.503 .6440E-04 1.004	868.72582 881.497 .2576E-03 1.004	868.78180 854.331 .5631E-04 1.003	868.78371 854.325 .2252E-03 1.003	868.79069 153 558.249 .3120E-02 .946	868.79234 -11 375.372 .8397E-02 .993	868.79626 375.366 .2099E-02 .99	868.80006 558.243 .7792E-03 .94	868.83708 828.449 .4357E-04 1.00	868.83887 828.444 .1743E-03 1.00	868.88962 803.859 .2517E-04 1.00	868.89131 803.854 .1007E-03 1.00	869.08423 505.219 .1044E-02 .96	869.08968 -63 505.213 .4175E-02 .96	869.11635 -12 361.710 .9329E-02 .99	869.11896 361.705 .4665E-02 .997	869.39167 -94 461.375 .2660E-02 .97	869.39799 36 461.369 .5320E-02 .979	869.44881 32 357.250 .9986E-02 .999	869.45132 357.244 .2497E-02 .999	869.47105 12 734.522 .1168E-02 .827	869.48621 734.516 .2913E-03 .825	869.70565 426.729 .1619E-02 .98	869.70954 -74 426.723 .6476E-02 .98	869.71979 331* 660.559 .1843E-02 .90	869.72792 660.553 .9204E-03 .90
σ ν _i ο-c E'' S _i W	3 868.47380 398.239 .1820E-02 .98	1 868.47748 -69 398.233 .7274E-02 .986	3 868.50960 93 620.467 .2196E-02 .91	1 868.51734 620.461 .1098E-02 .91	3 868.52954 345.151 .2786E-02 1.000	1 868.53128 -9 345.146 .1114E-01 1.000	3 868.53348 970.758 .6900E-04 1.006	1 868.53588 970.752 .2760E-03 1.006	3 868.59963 939.717 .6998E-04 1.005	1 868.60190 939.711 .2799E-03 1.005	3 868.66307 909.965 .6872E-04 1.005	1 868.66521 909.959 .2749E-03 1.005	3 868.72380 881.503 .6440E-04 1.004	1 868.72582 881.497 .2576E-03 1.004	3 868.78180 854.331 .5631E-04 1.003	1 868.78371 854.325 .2252E-03 1.003	2 868.79069 153 558.249 .3120E-02 .946	2 868.79234 -11 375.372 .8397E-02 .993	0 868.79626 375.366 .2099E-02 .99	0 868.80006 558.243 .7792E-03 .94	3 868.83708 828.449 .4357E-04 1.00	1 868.83887 828.444 .1743E-03 1.00	3 868.88962 803.859 .2517E-04 1.00	1 868.89131 803.854 .1007E-03 1.00	3 869.08423 505.219 .1044E-02 .96	1 869.08968 -63 505.213 .4175E-02 .96	3 869.11635 -12 361.710 .9329E-02 .99	1 869.11896 361.705 .4665E-02 .997	2 869.39167 -94 461.375 .2660E-02 .97	0 869.39799 36 461.369 .5320E-02 .979	2 869.44881 32 357.250 .9986E-02 .999	0 869.45132 357.244 .2497E-02 .999	2 869.47105 12 734.522 .1168E-02 .827	0 869.48621 734.516 .2913E-03 .825	3 869.70565 426.729 .1619E-02 .98	1 869.70954 -74 426.723 .6476E-02 .98	3 869.71979 331* 660.559 .1843E-02 .90	1 869.72792 660.553 .9204E-03 .90
$J \sigma v_i o_c E''_i S_i W$	7 21 3 868.47380 398.239 .1820E-02 .98	7 21 1 868.47748 -69 398.233 .7274E-02 .986	3 30 3 868.50960 93 620.467 .2196E-02 .91	3 30 1 868.51734 620.461 .1098E-02 .91	1 12 3 868.52954 345.151 .2786E-02 1.000	1 12 1 868.53128 -9 345.146 .1114E-01 1.000	7 24 3 868.53348 970.758 .6900E-04 1.006	7 24 1 868.53588 970.752 .2760E-03 1.006	7 23 3 868.59963 939.717 .6998E-04 1.005	7 23 1 868.60190 939.711 .2799E-03 1.005	7 22 3 868.66307 909.965 .6872E-04 1.005	7 22 1 868.66521 909.959 .2749E-03 1.005	7 21 3 868.72380 881.503 .6440E-04 1.004	7 21 1 868.72582 881.497 .2576E-03 1.004	7 20 3 868.78180 854.331 .5631E-04 1.003	7 20 1 868.78371 854.325 .2252E-03 1.003	4 28 2 868.79069 153 558.249 .3120E-02 .946	8 19 2 868.79234 -11 375.372 .8397E-02 .993	8 19 0 868.79626 375.366 .2099E-02 .99.	4 28 0 868.80006 558.243 .7792E-03 .94	7 19 3 868.83708 828.449 .4357E-04 1.00	7 19 1 868.83887 828.444 .1743E-03 1.00	7 18 3 868.88962 803.859 .2517E-04 1.00	7 18 1 868.89131 803.854 .1007E-03 1.00	5 26 3 869.08423 505.219 .1044E-02 .96	5 26 1 869.08968 -63 505.213 .4175E-02 .96	9 17 3 869.11635 -12 361.710 .9329E-02 .99	9 17 1 869.11896 361.705 .4665E-02 .997	6 24 2 869.39167 -94 461.375 .2660E-02 .97	6 24 0 869.39799 36 461.369 .5320E-02 .979	0 15 2 869.44881 32 357.250 .9986E-02 .999	0 15 0 869.45132 357.244 .2497E-02 .999	2 33 2 869.47105 12 734.522 .1168E-02 .827	2 33 0 869.48621 734.516 .2913E-03 .825	7 22 3 869.70565 426.729 .1619E-02 .98	7 22 1 869.70954 -74 426.723 .6476E-02 .98	3 31 3 869.71979 331* 660.559 .1843E-02 .90	3 31 1 869.72792 660.553 .9204E-03 .90
$K J \sigma \nu_i o-c E''_i S_i W$	1 7 21 3 868.47380 398.239 .1820E-02 .989	1 7 21 1 868.47748 -69 398.233 .7274E-02 .986	1 3 30 3 868.50960 93 620.467 .2196E-02 .91	1 3 30 1 868.51734 620.461 .1098E-02 .91	1 11 12 3 868.52954 345.151 .2786E-02 1.000	1 11 12 1 868.53128 -9 345.146 .1114E-01 1.000	0 17 24 3 868.53348 970.758 .6900E-04 1.006	0 17 24 1 868.53588 970.752 .2760E-03 1.006	0 17 23 3 868.59963 939.717 .6998E-04 1.005	0 17 23 1 868.60190 939.711 .2799E-03 1.005	0 17 22 3 868.66307 909.965 .6872E-04 1.005	0 17 22 1 868.66521 909.959 .2749E-03 1.005	0 17 21 3 868.72380 881.503 .6440E-04 1.004	0 17 21 1 868.72582 881.497 .2576E-03 1.004	0 17 20 3 868.78180 854.331 .5631E-04 1.003	0 17 20 1 868.78371 854.325 .2252E-03 1.003	1 4 28 2 868.79069 153 558.249 .3120E-02 .946	1 8 19 2 868.79234 -11 375.372 .8397E-02 .993	1 8 19 0 868.79626 375.366 .2099E-02 .99:	1 4 28 0 868.80006 558.243 .7792E-03 .94	0 17 19 3 868.83708 828.449 .4357E-04 1.00	0 17 19 1 868.83887 828.444 .1743E-03 1.00	0 17 18 3 868.88962 803.859 .2517E-04 1.00	0 17 18 1 868.89131 803.854 .1007E-03 1.00	1 5 26 3 869.08423 505.219 .1044E-02 .96	1 5 26 1 869.08968 -63 505.213 .4175E-02 .96	1 9 17 3 869.11635 -12 361.710 .9329E-02 .99	1 9 17 1 869.11896 361.705 .4665E-02 .997	1 6 24 2 869.39167 -94 461.375 .2660E-02 .97	1 6 24 0 869.39799 36 461.369 .5320E-02 .976	1 10 15 2 869.44881 32 357.250 .9986E-02 .999	1 10 15 0 869.45132 357.244 .2497E-02 .999	1 2 33 2 869.47105 12 734.522 .1168E-02 .827	1 2 33 0 869.48621 734.516 .2913E-03 .825	1 7 22 3 869.70565 426.729 .1619E-02 .98	1 7 22 1 869.70954 -74 426.723 .6476E-02 .98	1 3 31 3 869.71979 331* 660.559 .1843E-02 .90	1 3 31 1 869.72792 660.553 .9204E-03 .90
$\Delta J K J \sigma \nu_i$ o-c $E''_i S_i W$	1 1 7 21 3 868.47380 398.239 .1820E-02 .98	1 1 7 21 1 868.47748 -69 398.233 .7274E-02 .986	1 1 3 30 3 868.50960 93 620.467 .2196E-02 .91	1 1 3 30 1 868.51734 620.461 .1098E-02 .91	1 1 11 12 3 868.52954 345.151 .2786E-02 1.000	1 1 11 12 1 868.53128 -9 345.146 .1114E-01 1.000	1 0 17 24 3 868.53348 970.758 .6900E-04 1.006	1 0 17 24 1 868.53588 970.752 .2760E-03 1.006	1 0 17 23 3 868.59963 939.717 .6998E-04 1.005	1 0 17 23 1 868.60190 939.711 .2799E-03 1.005	1 0 17 22 3 868.66307 909.965 .6872E-04 1.005	1 0 17 22 1 868.66521 909.959 .2749E-03 1.005	1 0 17 21 3 868.72380 881.503 .6440E-04 1.004	1 0 17 21 1 868.72582 881.497 .2576E-03 1.004	1 0 17 20 3 868.78180 854.331 .5631E-04 1.003	1 0 17 20 1 868.78371 854.325 .2252E-03 1.003	1 1 4 28 2 868.79069 153 558.249 .3120E-02 .946	1 1 8 19 2 868.79234 -11 375.372 .8397E-02 .99	1 1 8 19 0 868.79626 375.366 .2099E-02 .99	1 1 4 28 0 868.80006 558.243 .7792E-03 .94	1 0 17 19 3 868.83708 828.449 .4357E-04 1.00	1 0 17 19 1 868.83887 828.444 .1743E-03 1.00	1 0 17 18 3 868.88962 803.859 .2517E-04 1.00	1 0 17 18 1 868.89131 803.854 .1007E-03 1.00	1 1 5 26 3 869.08423 505.219 .1044E-02 .96	1 1 5 26 1 869.08968 -63 505.213 .4175E-02 .96	1 1 9 17 3 869.11635 -12 361.710 .9329E-02 .99	1 1 9 17 1 869.11896 361.705 .4665E-02 .997	1 1 6 24 2 869.39167 -94 461.375 .2660E-02 .97	1 1 6 24 0 869.39799 36 461.369 .5320E-02 .976	1 1 1 10 15 2 869.44881 32 357.250 .9986E-02 .999	1 1 10 15 0 869.45132 357.244 .2497E-02 .999	1 1 2 33 2 869.47105 12 734.522 .1168E-02 .827	1 1 2 33 0 869.48621 734.516 .2913E-03 .825	1 1 7 22 3 869.70565 426.729 .1619E-02 .98	1 1 7 22 1 869.70954 -74 426.723 .6476E-02 .98	1 1 3 31 3 869.71979 331* 660.559 .1843E-02 .90	1 1 3 31 1 869.72792 660.553 .9204E-03 .90

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W.	.933	.932	066.	066.	1.000	1.000	.957	.956	994	.994	.972	126.	766.	766-	.884	.883	.982	.982	666.	666.	1.016	1.016	.928	.927	1.015	1.015	989.	988.	1.013	1.013	1.012	1.012	1.000	1.000	1.011	1.011	.953	.953
S:	.1883E-02	.4703E-03	.6001E-02	.1500E-02	.4472E-02	.8945E-02	.6561E-03	.2621E-02	.6873E-02	.3436E-02	.1736E-02	.3468E-02	.7571E-02	.1893E-02	.1041E-02	.5201E-03	.1096E-02	.4383E-02	.2009E-02	.8037E-02	.8884E-05	.3554E-04	.1569E-02	.3918E-03	.1049E-04	.4195E-04	.5297E-02	.1323E-02	.1224E-04	.4897E-04	.1415E-04	.5659E-04	.4121E-02	.8242E-02	.1616E-04	.6465E-04	.5538E-03	.2215E-02
E''_i	674.664	674.658	456.961	456.956	408.341	408.336	613.908	613.902	435.543	435.537	562.329	562.323	423.320	423.314	788.545	788.539	519.941	519.935	420.301	420.296	1541.721	1541.715	716.040	716.034	1496.556	1496.550	486.740	486.734	1452.673	1452.667	1410.071	1410.065	426.480	426.475	1368.752	1368.746	652.711	652.706
မီ	46		21			88		-107	-16		26	38	39		132			-82		-25			30				21							89				-190*
Vi	872.42381	872.43480	872.49537	872.50017	872.64821	872.65004	872.73066	872.73702	872.83588	872.83899	873.05338	873.06090	873.18519	873.18835	873.33422	873.34359	873.38307	873.38766	873.53964	873.54184	873.54894	873.55268	873.62914	873.64070	873.64576	873.64933	873.72364	873.72875	873.73990	873.74332	873.83137	873.83463	873.90188	873.90387	873.92015	873.92325	873.94023	873.94690
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J	31	31	22	52	13	13	23	$\mathbf{\tilde{23}}$	20	20	27	27	18	18	34	34	25	25	16	16	35	35	32	32	34	34	23	23	R	ŝ	32	32	14	14	31	31	30	8
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W;	.937	.936	.991	.991	1.008	1.008	1.007	1.007	1.000	1.000	1.006	1.006	1.005	1.005	.960	.960	1.004	1.004	.995	.995	1.004	1.004	1.003	1.003	1.002	1.002	1.001	1.001	.974	.974	.998	866.	.891	.890	.984	-984	666'	666.
Si	.2243E-02	.5602E-03	.6755E-02	.1689E-02	.7542E-04	.1508E-03	.8064E-04	.1613E-03	.4834E-02	.9668E-02	.8442E-04	.1688E-03	.8612E-04	.1722E-03	.7711E-03	.3084E-02	.8497E-04	.1699E-03	.7656E-02	.3828E-02	.8015E-04	.1603E-03	.7046E-04	.1409E-03	.5480E-04	.1096E-03	.3182E-04	.6364E-04	.2014E-02	.4028E-02	.8353E-02	.2088E-02	.1269E-02	.6337E-03	.1257E-02	.5027E-02	.2196E-02	.8782E-02
E''_i	634.573	634.567	428.473	428.468	1141.964	1141.959	1107.065	1107.059	391.497	391.491	1073.452	1073.447	1041.127	1041.122	576.390	576.385	1010.091	1010.085	409.640	409.634	980.343	980.338	951.885	951.880	924.717	924.711 222.711	898.839	898.834	527.389	527.383	400.003	399.998	744.599	744.593	487.580	487.575	399.573	399.567
ž	62	;	23							73						-80			-10									1	-65	31	40		79			-102	ļ	-37
Vi 0.110	871.21563	871.22607	871.26405	871.26854	871.27638	871.27949	871.35107	871.35400	871.39155	871.39323	871.42306	871.42580	871.49234	871.49489	871.51814	871.52419	871.55889	871.56126	871.59907	871.60200	871.62271	871.62492	871.68380	871.68584	871.74215	871.74404	8/17/9/10	871.79950	871.83581	871.84292	871.94275	871.94568	872.13209	872.14103	872.16030	872.16464	872.29161	8/2.29369
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5	8	33	12	21	72	27		50	12	12	52	25	24	24	8	28	.73	73	61	19	77	52	23	12	07 S	22	ĥ	I A	20	20	17	17			24	54	15	13
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W.	.949 000	999.	266. 262	.967	.966	1.000	1.000	.996	966.	.978	.978	966.	9 66.	.918	.917	.986	.986	.946	.946	666.	666.	166.	166.	.964	.963	1.000	1.000	395	.995	926.	976.	799.	766.	.984	.984	.942	.942
S:	.1857E-02	7553E-02	.5436E-02 2718E-02	.1262E-02	.2522E-02	.1891E-02	.7564E-02	.6117E-02	.1529E-02	.8167E-03	.3267E-02	.1654E-02	.6615E-02	.1066E-02	.2663E-03	.4043E-02	.1011E-02	.3871E-03	.1548E-02	.3447E-02	.6895E-02	.4789E-02	.2394E-02	.1065E-02	.2128E-02	.1738E-02	.6951E-02	.5446E-02	.1362E-02	.6980E-03	.2792E-02	.1487E-02	.5948E-02	.3496E-02	.8739E-03	.3201E-03	.1281E-02
E!!	692.795	445.908	491.224	636.073	636.067	458.707	458.702	473.830	473.824	588.529	588.523	465.637	465.632	802.646	802.640	550.168	550.162	734.176	734.170	466.639	466.634	521.000	520.995	674.875	674.869	476.844	476.839	501.023	501.017	624.755	624.750	490.244	490.239	583.816	583.810	776.835	776.830
2-0-0	18	9.	25	-75	39		-28	26			88-		-20			17			-92		66	с ^і		12	49		-24	42			-90		-111	32			-98
Ŀ,	875.15383	875.15470	875.30035 875.30383	875.47947	875.48786	875.52545	875.52710	875.66095	875.66458	875.81948	875.82456	876.02658	876.02906	876.03124	876.04397	876.17100	876.17678	876.35048	876.35780	876.40017	876.40251	876.52798	876.53166	876.68797	876.69682	876.77870	876.78045	876.89422	876.89811	877.03310	877.03844	877.26546	877.26809	877.39007	877.39619	877.55116	877.55882
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A N	1.01(1.01(.66. .00	1.000	1.009	1.008	1.008	1.007	1.007	<u>96</u> 96.	696.	1.006	1.006	1.005	1.005	966.	966.	1.004	1.004	1.004	1.00	1.003	1.00	.98	.98	1.002	1.002	1.001	1.001	866.	966.	.923	.922	.987	86.	.95(<u>6</u> 6.
S _i W	.1823E-04 1.01(.7292E-04 1.010	.6132E-02 .993	.2028E-04 1.009	.8111E-04 1.009	.2220E-04 1.008	.8882E-04 1.008	.2388E-04 1.007	.9553E-04 1.007	.1485E-02 .969	.2969E-02 .969	.2515E-04 1.006	.1006E-03 1.006	.2580E-04 1.005	.1032E-03 1.005	.6822E-02 .996	.1706E-02 .996	.2561E-04 1.004	.1024E-03 1.004	.2429E-04 1.004	.9716E-04 1.004	.2147E-04 1.003	.8589E-04 1.00	.9491E-03 .98(.3797E-02 .98(.1679E-04 1.002	.6716E-04 1.002	.9799E-05 1.001	.3920E-04 1.001	.1827E-02 .998	.7308E-02 .998	.1298E-02 .923	.3241E-03 .922	.4640E-02 .987	.1160E-02 .98	.4648E-03 .95(.3777E-02 .99
E'' S; W	1328.717 .1823E-04 1.01(1328.711 .7292E-04 1.010	462.737 .6132E-02 .993	1289.966 .2028E-04 1.005	1289.960 .8111E-04 1.009	1252.499 .2220E-04 1.008	1252.494 .8882E-04 1.008	1216.319 .2388E-04 1.007	1216.313 .9553E-04 1.007	598.557 .1485E-02 .969	598.551 .2969E-02 .969	1181.424 .2515E-04 1.006	1181.419 .1006E-03 1.006	1147.817 .2580E-04 1.005	1147.811 .1032E-03 1.005	447.929 .6822E-02 .996	447.923 .1706E-02 .996	1115.497 .2561E-04 1.004	1115.491 .1024E-03 1.004	1084.465 .2429E-04 1.004	1084.459 .9716E-04 1.004	1054.722 .2147E-04 1.003	1054.716 .8589E-04 1.003	553.591 .9491E-03 .98(553.585 .3797E-02 .98(1026.268 .1679E-04 1.002	1026.262 .6716E-04 1.002	999.104 .9799E-05 1.001	999.098 .3920E-04 1.001	442.323 .1827E-02 .998	442.317 .7308E-02 .998	758.701 .1298E-02 .923	758.695 .3241E-03 .922	517.809 .4640E-02 .987	517.803 .1160E-02 .98	692.801 .4648E-03 .95(445.913 .3777E-02 .99
o-c E'' S; W	1328.717 .1823E-04 1.010	1328.711 .7292E-04 1.010	-15 462.737 .6132E-02 .993	1289.966 .2028E-04 1.000	1289.960 .8111E-04 1.009	1252.499 .2220E-04 1.008	1252.494 .8882E-04 1.008	1216.319 .2388E-04 1.007	1216.313 .9553E-04 1.007	-52 598.557 .1485E-02 .969	55 598.551 .2969E-02 .969	1181.424 .2515E-04 1.006	1181.419 .1006E-03 1.006	1147.817 .2580E-04 1.005	1147.811 .1032E-03 1.005	64 447.929 .6822E-02 .996	447.923 .1706E-02 .996	1115.497 .2561E-04 1.004	1115.491 .1024E-03 1.004	1084.465 .2429E-04 1.004	1084.459 .9716E-04 1.004	1054.722 .2147E-04 1.003	1054.716 .8589E-04 1.003	553.591 .9491E-03 .98(-56 553.585 .3797E-02 .98(1026.268 .1679E-04 1.002	1026.262 .6716E-04 1.002	999.104 .9799E-05 1.001	999.098 .3920E-04 1.001	442.323 .1827E-02 .998	-50 442.317 .7308E-02 .998	177 758.701 .1298E-02 .923	758.695 .3241E-03 .922	17 517.809 .4640E-02 .987	517.803 .1160E-02 .98	692.801 .4648E-03 .95(445.913 .3777E-02 .99
<i>v</i> : o-c E'' S _i W	874.00623 1328.717 .1823E-04 1.010	874.00918 1328.711 .7292E-04 1.010	874.06965 -15 462.737 .6132E-02 .993 274.07904 489.739 2066E.09 00	874.08961 1289.966 .2028E-04 1.000	874.09242 1289.960 .8111E-04 1.009	874.17027 1252.499 .2220E-04 1.008	874.17295 1252.494 .8882E-04 1.008	874.24822 1216.319 .2388E-04 1.007	874.25076 1216.313 .9553E-04 1.007	874.26793 -52 598.557 .1485E-02 .969	874.27588 55 598.551 .2969E-02 .969	874.32345 1181.424 .2515E-04 1.006	874.32585 1181.419 .1006E-03 1.006	874.39594 1147.817 .2580E-04 1.005	874.39822 1147.811 .1032E-03 1.005	874.42460 64 447.929 .6822E-02 .996	874.42798 447.923 .1706E-02 .996	874.46570 1115.497 .2561E-04 1.004	874.46785 1115.491 .1024E-03 1.004	874.53271 1084.465 .2429E-04 1.004	874.53475 1084.459 .9716E-04 1.004	874.59698 1054.722 .2147E-04 1.003	874.59890 1054.716 .8589E-04 1.003	874.60281 553.591 .9491E-03 .98(874.60763 -56 553.585 .3797E-02 .98(874.65849 1026.268 .1679E-04 1.002	874.66030 1026.262 .6716E-04 1.002	874.71724 999.104 .9799E-05 1.001	874.71895 999.098 .3920E-04 1.001	874.78463 442.323 .1827E-02 .998	874.78697 -50 442.317 .7308E-02 .998	874.83161 177 758.701 .1298E-02 .923	874.84375 758.695 .3241E-03 .922	874.94886 17 517.809 .4640E-02 .987	874.95430 517.803 .1160E-02 .98	875.14683 692.801 .4648E-03 .956	875.15254 445.913 .3777E-02 .99
σ ν, ο-c Ε" S _i W	<u>3 874.00623 1328.717 .1823E-04 1.010</u>	1 874.00918 1328.711 .7292E-04 1.010	3 874.06965 -15 462.737 .6132E-02 .999 1 274.07904 489.739 2066E-02 00	3 874.08961 1289.966 .2028E-04 1.000	1 874.09242 1289.960 .8111E-04 1.009	3 874.17027 1252.499 .2220E-04 1.008	1 874.17295 1252.494 .8882E-04 1.008	3 874.24822 1216.319 .2388E-04 1.007	I 874.25076 1216.313 .9553E-04 1.007	2 874.26793 -52 598.557 .1485E-02 .969	0 874.27588 55 598.551 .2969E-02 .969	3 874.32345 1181.424 .2515E-04 1.006	1 874.32585 1181.419 .1006E-03 1.006	3 874.39594 1147.817 .2580E-04 1.005	1 874.39822 1147.811 .1032E-03 1.005	2 874.42460 64 447.929 .6822E-02 .996	0 874.42798 447.923 .1706E-02 .996	3 874.46570 1115.497 .2561E-04 1.004	1 874.46785 1115.491 .1024E-03 1.004	3 874.53271 1084.465 .2429E-04 1.004	1 874.53475 1084.459 .9716E-04 1.00	3 874.59698 1054.722 .2147E-04 1.003	1 874.59890 1054.716 .8589E-04 1.003	3 874.60281 553.591 .9491E-03 .98(1 874.60763 -56 553.585 .3797E-02 .98(3 874.65849 1026.268 .1679E-04 1.002	1 874.66030 1026.262 .6716E-04 1.002	3 874.71724 999.104 .9799E-05 1.001	1 874.71895 999.098 .3920E-04 1.001	3 874.78463 442.323 .1827E-02 .998	1 874.78697 -50 442.317 .7308E-02 .998	2 874.83161 177 758.701 .1298E-02 .923	0 874.84375 758.695 .3241E-03 .922	2 874.94886 17 517.809 .4640E-02 .987	0 874.95430 517.803 .1160E-02 .98	3 875.14683 692.801 .4648E-03 .956	2 875.15254 445.913 .3777E-02 .99
$J \sigma$ ν_i o -c E''_i S_i W) 30 3 874.00623 1328.717 .1823E-04 1.010	30 1 874.00918 1328.711 .7292E-04 1.01) 21 3 874.06965 -15 462.737 .6132E-02 .993	1 29 3 874.08961 1289.966 2028E-04 1.000	29 1 874.09242 1289.960 .8111E-04 1.009	1 28 3 874.17027 1252.499 .2220E-04 1.008) 28 1 874.17295 1252.494 .8882E-04 1.008) 27 3 874.24822 1216.319 .2388E-04 1.007) 27 1 874.25076 1216.313 .9553E-04 1.007	3 28 2 874.26793 -52 598.557 .1485E-02 .969	3 28 0 874.27588 55 598.551 .2969E-02 .969) 26 3 874.32345 1181.424 .2515E-04 1.006) 26 1 874.32585 1181.419 .1006E-03 1.006) 25 3 874.39594 1147.817 .2580E-04 1.005) 25 1 874.39822 1147.811 .1032E-03 1.005) 19 2 874.42460 64 447.929 .6822E-02 .996	0 19 0 874.42798 447.923 .1706E-02 .996	3 24 3 874.46570 1115.497 .2561E-04 1.004) 24 1 874.46785 1115.491 .1024E-03 1.004	9 23 3 874.53271 1084.465 2429E-04 1.004	9 23 1 874.53475 1084.459 .9716E-04 1.00	9 22 3 874.59698 1054.722 .2147E-04 1.003	9 22 1 874.59890 1054.716 .8589E-04 1.003	7 26 3 874.60281 553.591 .9491E-03 .98(7 26 1 874.60763 -56 553.585 .3797E-02 .98(9 21 3 874.65849 1026.268 .1679E-04 1.002	9 21 1 874.66030 1026.262 .6716E-04 1.002	9 20 3 874.71724 999.104 .9799E-05 1.001	9 20 1 874.71895 999.098 .3920E-04 1.001	1 17 3 874.78463 442.323 .1827E-02 .998	1 17 1 874.78697 -50 442.317 .7308E-02 .998	4 33 2 874.83161 177 758.701 .1298E-02 .923	4 33 0 874.84375 758.695 .3241E-03 .922	8 24 2 874.94886 17 517.809 .4640E-02 .987	8 24 0 874.95430 517.803 .1160E-02 .98	5 31 3 875.14683 692.801 .4648E-03 .956	2 15 2 875.15254 445.913 .3777E-02 .99
KJ \sigma v: o-c E'' S _i W) 19 30 3 874.00623 1328.717 .1823E-04 1.010	$19 \ 30 \ 1 \ 874.00918 \ 1328.711 \ .7292E-04 \ 1.010$	1 9 21 3 874.06965 -15 462.737 .6132E-02 .999 0 0 91 1 974.07904 489.739 3066E.09 00	1 19 29 3 874.08961 1289.966 2028E-04 1.000) 19 29 1 874.09242 1289.960 .8111E-04 1.009) 19 28 3 874.17027 1252.499 .2220E-04 1.008) 19 28 1 874.17295 1252.494 .8882E-04 1.008) 19 27 3 874.24822 1216.319 .2388E-04 1.007) 19 27 1 874.25076 1216.313 .9553E-04 1.007	1 6 28 2 874.26793 -52 598.557 .1485E-02 .969	1 6 28 0 874.27588 55 598.551 .2969E-02 .969) 19 26 3 874.32345 1181.424 .2515E-04 1.006) 19 26 1 874.32585 1181.419 .1006E-03 1.006) 19 25 3 874.39594 1147.817 .2580E-04 1.005	0 19 25 1 874.39822 1147.811 .1032E-03 1.005	1 10 19 2 874.42460 64 447.929 .6822E-02 .996	l 10 19 0 874.42798 447.923 .1706E-02 .996	0 19 24 3 874.46570 1115.497 .2561E-04 1.004	0 19 24 1 874.46785 1115.491 .1024E-03 1.004	0 19 23 3 874.53271 1084.465 .2429E-04 1.004	0 19 23 1 874.53475 1084.459 .9716E-04 1.00	0 19 22 3 874.59698 1054.722 .2147E-04 1.003	0 19 22 1 874.59890 1054.716 .8589E-04 1.003	1 7 26 3 874.60281 553.591 .9491E-03 .98(1 7 26 1 874.60763 -56 553.585 .3797E-02 .98(0 19 21 3 874.65849 1026.268 .1679E-04 1.002	0 19 21 1 874.66030 1026.262 .6716E-04 1.002	0 19 20 3 874.71724 999.104 .9799E-05 1.001	0 19 20 1 874.71895 999.098 .3920E-04 1.001	1 11 17 3 874.78463 442.323 .1827E-02 .998	1 11 17 1 874.78697 -50 442.317 .7308E-02 .998	1 4 33 2 874.83161 177 758.701 .1298E-02 .923	1 4 33 0 874.84375 758.695 .3241E-03 .922	1 8 24 2 874.94886 17 517.809 .4640E-02 .987	1 8 24 0 874.95430 517.803 .1160E-02 .98	1 5 31 3 875.14683 692.801 .4648E-03 .956	1 12 15 2 875.15254 445.913 .3777E-02 .99
$\Delta J K J \sigma$ ν ; $o-c E''_{i} S_i W$	0 19 30 3 874.00623 1328.717 .1823E-04 1.010	(0 19 30 1 874.00918 1328.711 .7292E-04 1.010	1 1 9 21 3 874.06965 -15 462.737 .6132E-02 .999 1 0 0 1 1 0 24 07304 463 739 3066E.03 00	0 19 29 3 874.08961 1289.966 2028E-04 1.000	0 19 29 1 874.09242 1289.960 .8111E-04 1.009	1 0 19 28 3 874.17027 1252.499 .2220E-04 1.008	1 0 19 28 1 874.17295 1252.494 .8882E-04 1.008	1 0 19 27 3 874.24822 1216.319 .2388E-04 1.007	1 0 19 27 1 874.25076 1216.313 .9553E-04 1.007	1 1 6 28 2 874.26793 -52 598.557 .1485E-02 .969	1 1 6 28 0 874.27588 55 598.551 .2969E-02 .969	1 0 19 26 3 874.32345 1181.424 .2515E-04 1.006	1 0 19 26 1 874.32585 1181.419 .1006E-03 1.006	1 0 19 25 3 874.39594 1147.817 .2580E-04 1.005	1 0 19 25 1 874.39822 1147.811 .1032E-03 1.005	1 1 10 19 2 874.42460 64 447.929 .6822E-02 .996	1 1 10 19 0 874.42798 447.923 .1706E-02 .996	1 0 19 24 3 874.46570 1115.497 .2561E-04 1.004	1 0 19 24 1 874.46785 1115.491 .1024E-03 1.004	1 0 19 23 3 874.53271 1084.465 .2429E-04 1.004	1 0 19 23 1 874.53475 1084.459 .9716E-04 1.00 ²	1 0 19 22 3 874.59698 1054.722 .2147E-04 1.005	1 0 19 22 1 874.59890 1054.716 .8589E-04 1.003	1 1 7 26 3 874.60281 553.591 .9491E-03 .98(1 1 7 26 1 874.60763 -56 553.585 .3797E-02 .98(1 0 19 21 3 874.65849 1026.268 .1679E-04 1.002	1 0 19 21 1 874.66030 1026.262 .6716E-04 1.002	1 0 19 20 3 874.71724 999.104 .9799E-05 1.001	1 0 19 20 1 874.71895 999.098 .3920E-04 1.001	1 1 11 17 3 874.78463 442.323 .1827E-02 .998	1 1 11 17 1 874.78697 -50 442.317 .7308E-02 .998	1 1 4 33 2 874.83161 177 758.701 .1298E-02 .923	1 1 4 33 0 874.84375 758.695 .3241E-03 .922	1 1 8 24 2 874.94886 17 517.809 .4640E-02 .987	1 1 8 24 0 874.95430 517.803 .1160E-02 .98	1 1 5 31 3 875.14683 692.801 .4648E-03 .956	1 1 12 15 2 875.15254 445.913 .3777E-02 .99

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W.	987	987	.955	.954	666.	666.	.992	.992	696.	696.	1.000	1.000	. 995	.995	<u>979.</u>	979.	766.	.997	986.	.986	.952	.951	666.	666.	166.	166.	.967	996.	1.000	1.000	.994	.994	776.	776.	266	.997	.984	.984
5	.3148F-02	.1574E-02	.6146E-03	1228E-02	.1311E-02	.5244E-02	.3704E-02	.9259E-03	.4184E-03	.1674E-02	.5235E-02	.1309E-02	.1045E-02	.4178E-02	.2175E-02	.5438E-03	.2264E-02	.4529E-02	.2703E-02	.1351E-02	.5049E-03	.1009E-02	.1182E-02	.4727E-02	.3216E-02	.8041E-03	.3483E-03	.1392E-02	.4757E-02	.1189E-02	.9170E-03	.3668E-02	.1832E-02	.4581E-03	.2011E-02	.4021E-02	.2303E-02	.1152E-02
E!'	618.069	618.064	798.993	798.987	539.017	539.011	590.345	590.340	741.155	741.149	550.649	550.644	571.815	571.809	692.487	692.481	562.472	562.467	653.003	652.998	842.934	842.928	562.327	562.321	622.699	622.694	782.526	782.520	571.371	571.366	601.587	601.581	731.285	731.279	589.660	589.655	689.225	689.219
J	123			60		-51	m			-82	29			-65	30			150	144					-37	14			100	68			-61	20			169	136	
ä	880.19229	880.19658	880.29530	880.30557	880.52018	880.52228	880.57548	880.58020	880.65548	880.66164	880.92303	880.92487	880.96357	880.96668	881.02868	881.03591	881.36002	881.36317	881.40748	881.41200	881.49167	881.50243	881.76119	881.76341	881.79633	881.80134	881.85677	881.86321 -	882.16978	882.17178	882.19004	882.19332	882.23531	882.24293	882.59224	882.59561	882.61954	882.62429
ь	3	1	2	0	ŝ	-	3	0	3	-	2	0	3		2	0	3	0	ŝ		2	0	ŝ		2	0	ŝ		2	0	ŝ	-	3	0	3	0	ŝ	
ſ	26	26	ŝ	33	17	17	24	24	31	31	15	15	3	ដ	23	8	30	30	27	27	34	¥.	8	18	22	25	32	32	16	16	23	33	30	30	21	21	3 8	8
K	6	6	9	9	13	13	10	10	~	~	14	14	11	Ц.	œ	œ	12	12	с С	6	9	9	<u> </u>	<u> </u>	10	10	-	-	14	14	H	11	80	œ	12	12	6	5
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W.	666.	666.	066.	066.	.961	.961	1.000	1.000	-994	-994 27	.974 	.974	.997	766.	.982	.982	.938	.938	998. 202	.998 202	989.	.989	.958	.957	999.	666 ⁻	.993 222	.993	116.	116.	1.000	1.000	966.	966.	186.	.980	.998 200	.998
S _i W _i	.3131E-02 .999	.6262E-02 .999	.4192E-02 .990	.2096E-02 .990	.8927E-03 .961	.1786E-02 .961	.1590E-02 1.000	.6361E-02 1.000	.4819E-02 .994	.1205E-02 .994	.5927E-03 .974	.2371E-02 .974	.1331E-02 .997	.5323E-02 .997	.3003E-02 .982	.7508E-03 .982	.2630E-03 .938	.1052E-02 .938	.2825E-02 .998	.5650E-02 .998	.3646E-02 .989	.1623E-UZ .989	.(432E-U3 .958	.1485E-02 .957	.144/E-02 .999	.5787E-02 .999	.4238E-02 .993	.1060E-02 .993	.4994E-03 .971	1/6. ZO-JOEAT.	.5734E-02 1.000	.1434E-02 1.000	.1183E-02 .996	.4730E-02 .996	.2566E-02 .981	.6407E-03 .980	.2538E-02 .998	.5075E-02 .998
$E''_i S_i W_i$	488.659 .3131E-02 .999	488.653 .6262E-02 .999	552.067 .4192E-02 .990	552.062 .2096E-02 .990	714.963 .8927E-03 .961	714.957 .1786E-02 .961	496.275 .1590E-02 1.000	496.270 .6361E-02 1.000	529.506 .4819E-02 .994	529.501 .1205E-02 .994	002.209 .5927E-03 .974	662.263 .2371E-02 .974	516.143 .1331E-02 .997	516.137 .5323E-02 .997	618.752 .3003E-02 .982	618.746 .7508E-03 .982	820.778 .2630E-03 .938	820.773 .1052E-02 .938	511.9/1 .2825E-02 .998	511.966 .5650E-02 .998	554.424 .3546E-U2 .989	004.416 .1523E-UZ .989	726 000 (432E-U3 .958	(30.330 .1485E-02 .957	517.000 .1447E-02 .999	516.994 .5787E-02 .999	559.281 .4238E-02 .993	201.020 1000E-02 .993	701.069 1000F 03 071		531.221 .5734E-02 1.000	531.215 .1434E-02 1.000	543.333 .1183E-02 .996	543.328 .4730E-02 .996	654.976 .2566E-02 .981	654.970 .6407E-03 .980	536.576 .2538E-02 .998	330.570 .5075E-02 .998
$o-c = E''_i = S_i = W_i$	488.659 .3131E-02 .999	118 488.653 .6262E-02 .999	-3 552.067 .4192E-02 .990	552.062 .2096E-02 .990	714.963 .8927E-03 .961	59 714.957 .1786E-02 .961	496.275 .1590E-02 1.000	-32 496.270 .6361E-02 1.000	40 529.506 .4819E-02 .994	529.501 .1205E-02 .994	002.209 .5927E-03 .974	-118 662.263 .2371E-02 .974	516.143 .1331E-02 .997	-61 516.137 .5323E-02 .997	21 618.752 .3003E-02 .982	618.746 .7508E-03 .982	820.778 .2630E-03 .938	820.773 .1052E-02 .938	311.9/1 .2825E-02 .998	1/2 b11.966 .5650E-02 .998	12/ 054.424 .3646E-U2 .989	004.410 .1523E-UZ .989	(20.330 .(432E-U3 .958	43 (30.330 .1485E-02 .957	50 71000 .144/E-02 .999	-bu b16.994 .5787E-02 .999	31 359.281 .4238E-02 .993	201.020 1000E-02 .993	(01.009 .4994E-03 .971	1/6. 20-2022 100-101 06-	24 331.221 .5734E-02 1.000	531.215 .1434E-02 1.000	543.333 .1183E-02 .996	-14 543.328 .4730E-02 .996	-1 654.976 .2566E-02 .981	654.970 .6407E-03 .980	536.576 .2538E-02 .998	30 330.370 .3075E-02 .998
ν_i o-c E''_i S_i W_i	877.64475 488.659 .3131E-02 .999	877.64727 118 488.653 .6262E-02 .999	877.75252 -3 552.067 .4192E-02 .990	877.75640 552.062 .2096E-02 .990	877.89345 714.963 .8927E-03 .961	877.90276 59 714.957 .1786E-02 .961	8/8.02892 496.275 .1590E-02 1.000	8/8/030/8 -32 496.270 .6361E-02 1.000	8/8.12442 40 529.506 .4819E-02 .994	8/8/1285/ 529.501 .1205E-02 .994 979 94964 646 646 70627 60 6-7	0/0.24304 002.209 .5927E-03 .974	8/8/24925 -118 662.263 .2371E-02 .974	8/8.5012/ 516.143 .1331E-02 .997	878.50405 -61 516.137 .5323E-02 .997	8/8.0004 21 618.752 .3003E-02 .982	8/8.61253 618.746 $7508E-03$ 982	878.74888 820.778 $.2630E-03$ $.938$	676.66666 820.773 .1052E-02 .938	070.00020 011.9/1 .2825E-02 .998	6/8/86899 1/2 511.966 .5650E-02 .998	010.91390 121 054.424 .3646E-02 .989 070 07005 501 110 10005 50 500	010.31000 004.416 .1623E-02 .989 070.00600 752.996 71960 60 610	019.09090 (00.330 .1432E-03 .958 070 10520 49 750 000 11055 25	019.10000 43 (30.330 .1485E-02 .957 970 97600 517 000 11127 00 000	019.210U9 011.000 144/E-02 999	879.2780b -50 516.994 .5787E-02 .999	070 95504 51 539.281 .4238E-02 .993	019.33034 339.273 .106UE-02 .993	0/9-43111 / (01.009 .4994E-03 .97] 870 / 6608 06 701 069 10000 09 271	1/6. 20-20-20 101.000 103 10-20-20-20-20-20-20-20-20-20-20-20-20-20	519.01320 24 331.221 .5734E-02 1.000	5/9.0/490 531.215 .1434E-02 1.000	8/9./3398 543.333 .1183E-02 .996	879.73692 -14 543.328 .4730E-02 .996	879.81892 -1 654.976 .2566E-02 .981	879.82577 654.970 .6407E-03 .980	860.12409 536.576 .2538E-02 .998	000.12/02 30 330.3/0 .30/3E-02 .998
σ ν_i σ E''_i S_i W_i	2 877.64475 488.659 .3131E-02 .999	0 877.64727 118 488.653 .6262E-02 .999	3 877.75252 -3 552.067 .4192E-02 .990	1 877.75640 552.062 .2096E-02 .990	2 877.89345 714.963 .8927E-03 .961	0 877.90276 59 714.957 .1786E-02 .961	3 8/8.02892 496.275 .1590E-02 1.000	1 8/8.U30/8 -32 496.270 .6361E-02 1.000	2 8/8.12442 40 529.506 .4819E-02 .994	U 818.12857 529.501 .1205E-02 .994	3 010.24304 002.209 .5927E-U3 .974	1 8/8.24925 -118 662.263 .2371E-02 .974	3 8/8.5012/ 516.143 .1331E-02 .997	1 878.50405 -61 516.137 .5323E-02 .997	2 8/8.60604 21 618.752 .3003E-02 .982	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3 878.74888 820.778 .2630E-03 .938	1 5/5./5059 820.773 .1052E-02 .938	2 818.58020 311.9/1 .2825E-U2 .998 0 979 88800 179 111.000 127.50 00 000	0 818.88899 172 511.966 .5650£-02 .998	3 010.91390 121 364.424 .3646E-U2 .989 1 979 07905 504.419 100000 00	1 010.3100.0 004.416 .1623E-UZ .989 9 270.00500 752.002 71000.00 010	2 013.03330 1.00.330 1.143.2E-U3 .958 0 070.10560 49 750.000 1.6575.000 0.55	U 019.10000 43 700.330 .1485E-02 .957 3 270 97600 E17 000 11177 02 000	3 819.21009 311.000 .1447E-02 .999	1 8(9.2/800 -50 516.994 .5787E-02 .999 9 970 971 91 77 801 .0002 00	2 819.30131 31 339.281 .4238E-02 .993	0 019-33394 039-713 1000E-02 393	3 0/9.49111 / (11.009 .4994E-03 .97] 1 870 46602 05 701 069 1000E 06 271	1/01/242000 -20 101/000 -122020 -2000 0 020/242000 01 501001 -200120 00 -200	2 019.013.20 24 331.221 .5734E-02 1.000	U 5/9.0/490 531.215 .1434E-02 1.000	3 8(9.73398 543.333 .1183E-02 .996	1 879.73692 -14 543.328 .4730E-02 .996	2 879.81892 -1 654.976 .2566E-02 .981	0 879.82577 654.970 .6407E-03 .980	2 880.12409 536.576 .2538E-02 .998 0 880.12729 52 200720 20272 00 200	U 000.12/02 00 030.0/0 .0075E-02 .998
$J \sigma \nu_i $ o-c $E''_i S_i W_i$	17 2 877.64475 488.659 3131E-02 999	17 0 877.64727 118 488.653 .6262E-02 .999	24 3 877.75252 -3 552.067 .4192E-02 .990	24 1 877.75640 552.062 .2096E-02 .990	31 2 877.89345 714.963 .8927E-03 .961	31 U 877.90276 59 714.957 .1786E-02 .961	15 3 8/8.02892 496.275 .1590E-02 1.000	10 1 8/8.030/8 -32 496.270 .6361E-02 1.000	22 2 8/8.12442 40 529.506 .4819E-02 .994	22 ·U 8/8.1285/ 529.501 ·1205E-02 ·994 90 3 979 94364 660 660 70622 09	28 3 016.24304 002.209 .3927E-03 .974	29 I 8/8.24925 -118 662.263 .2371E-02 .974	20 3 8/8.50127 516.143 .1331E-02 .997	20 I 878.50405 -61 516.137 .5323E-02 .997	2/ 2 8/8.60604 21 618.752 .3003E-02 .982	2/ U 8/8.61253 618.746 7508E-03 .982	34 3 878.74888 820.778 .2630E-03 .938	34 1 8/8/3089 820/7/3 .1052E-02 .938	10 2 0/0.00020 011.9/1 .2825E-02 .998 19 0 078 88800 170 111.000 7.070 00 000	10 U 8(8.8889 1/2 311.966 .5650E-02 .998 9E 3 878 87298 187 501.94	23 3 3 3 3 3 3 3 3 3 3 3 4 3 4 3 3 5 4 5 5 5 5	20 1 010.31004 004.416 .1623E-02 .989 29 9 270.00500 752.995 74.950 05	32 2 019.09390 (30.330 .1432E-03 .958 39 0 270 10560 49 756 990 1.027 00 02-	32 U 019-110006 43 (30.33U .1485E-U2 .957 16 2 270 97600 E17 000 11277 00 000	10 3 819.21009 311.000 .1447E-02 .999 16 1 870 87806 50 110.001 270-100 00	10 1 8(9.2/80b -50 516.994 .5787E-02 .999 99 9 970 971 91 770 901 .5002 50	20 2 6(9.50101 31 009.281 .4238E-02 .993 99 0 970 95504 550 557 30000 00	20 0 018-0-004 009-210 .1060E-02 .993	30 3 0/9-45111 / 101.009 .4994E-03 .971 30 1 870 45608 05 701 069 10005 06 073	1/1 9 020 23000 01 201 001 12302-05 31	14 2 6/9.0/320 24 331.221 .5734E-02 1.000 14 0 676 67460 791 01 1.002 000	14 U 8(9.0(490 531.215 .1434E-02 1.000	21 3 8/9.73398 543.333 .1183E-02 .996	21 1 879.73692 -14 543.328 .4730E-02 .996	28 2 879.81892 -1 654.976 .2566E-02 .981	28 0 879.82577 654.970 .6407E-03 .980	19 2 660.12409 536.576 .2538E-02 .998 10 0 990.19720 E2 F20.F70 F20F2 00 000	19 0 000.12/02 00 030.070 .00/5E-02 .998
$K J \sigma \nu_i o - c E''_i S_i W_i$	12 17 2 877.64475 488.659 .3131E-02 .999	12 17 0 877.64727 118 488.653 .6262E-02 .999	9 24 3 877.75252 -3 552.067 .4192E-02 .990	9 24 1 877.75640 552.062 .2096E-02 .990	6 31 2 877.89345 714.963 .8927E-03 .961	0 31 U 877.90276 59 714.957 .1786E-02 .961	13 15 3 8/8.02892 496.275 .1590E-02 1.000	13 13 1 8/8.U30/8 -32 496.270 .6361E-02 1.000	10 22 2 8/8.12442 40 529.506 .4819E-02 .994	10 22 0 8/8.1285/ 529.501 .1205E-02 .994	7 00 1 070 010 24304 002.269 .5927E-03 .974	1 29 1 8/8.24925 -118 662.263 .2371E-02 .974	11 20 3 8/8.50127 516.143 .1331E-02 .997	11 20 1 878.50405 -61 516.137 .5323E-02 .997	8 2/ 2 8/8.60604 21 618.752 .3003E-02 .982	5 2/ U 8/8.61253 618.746 7508E-03 .982	5 34 3 878.74888 820.778 .2630E-03 .938	3 34 1 5/5./3089 820.773 .1052E-02 .938	12 10 2 010.000.20 011.9/1 .2825E-02 .998 19 19 0 070.00000 170 711.000 7.000 000	12 10 U 016.088899 1/2 511.966 .5650E-02 .998 0 25 3 276.07302 127 701.161 20120 20	9 20 0 010-91090 121 054.424 .3646E-02 .989 0 95 1 979 07905 501 110 10000 000	8 20 1 010-31000 004-410 .1623E-UZ .989 8 20 0 270 00500 755 095 710607 55	0 02 2 0 9.09090 0 00.030 . (432E-U3 . 958 6 99 0 070 10560 49 750 000 1 1055 0 055	0 32 U 819.10908 43 (30.330 .1485E-UZ 957 13 16 3 270.97600 517.000 11177.00 20	10 0 019.21009 017.000 1447E-02 999	10 10 1 0(9.2/800 -30 310.994 .5787E-02 .999 10 93 9 920.95151 91 FF2.801 .2005 200	10 20 2 019.30101 31 559.281 .4238E-02 .993 10 99 0 970 95504 550.007 10.000 000	10 20 0 019.30394 039.270 .1000E-02 .993	7 30 1 870 45602 05 701 069 14994E-03 971	1/6. 70-1040E. 000:101 102 - 2000E.207 1001 1001 1001 1001 1001 1001 1001 1	14 14 2 019.01320 24 031.221 .5734E-02 1.000 14 14 0 070.67400 501.017 1.012 00 100	14 14 U 5/9.0/490 531.215 .1434E-02 1.000	11 21 3 8/9.73398 543.333 .1183E-02 .996	11 21 1 879.73692 -14 543.328 .4730E-02 .996	8 28 2 879.81892 -1 654.976 .2566E-02 .981	8 28 0 879.82577 654.970 .6407E-03 .980	12 19 2 880.12409 536.576 .2538E-02 .998 19 10 0 990.19729 52 59757 5255 50	12 19 0 000.12/02 30 330.3/0 .30/5E-02 .998
$N K J \sigma \nu_i o \in E''_i S_i W_i$	1 12 17 2 877.64475 488.659 .3131E-02 .999	1 12 17 0 877.64727 118 488.653 .6262E-02 .999	1 9 24 3 877.75252 -3 552.067 .4192E-02 .990	1 9 24 1 877.75640 552.062 .2096E-02 .990	1 6 31 2 877.89345 714.963 .8927E-03 .961	1 6 31 0 877.90276 59 714.957 .1786E-02 .961	1 13 15 3 8/8.02892 496.275 .1590E-02 1.000	1 13 13 1 8/8.030/8 -32 496.270 .6361E-02 1.000	1 10 22 2 8/8.12442 40 529.506 .4819E-02 .994	1 10 22 0 8/8.12857 529.501 .1205E-02 .994 1 7 90 3 979 94954 2560 250 250 250 25	1 1 29 3 010.24304 002.209 .5927E-03 .974	1 / 29 1 8/8.24925 -118 662.263 .2371E-02 .974	1 11 20 3 8/8.50127 516.143 .1331E-02 .997	1 11 20 1 878.50405 -61 516.137 .5323E-02 .997	1 8 2/ 2 8/8.60604 21 618.752 .3003E-02 .982	1 8 2/ U 8/8.61253 618.746 .7508E-03 .982	1 5 34 3 878.74888 820.778 .2630E-03 .938	1 3 34 1 5(5./3089 820.773 .1052E-02 .938	1 12 10 2 010.00020 011.9/1 .2825E-02 .998	1 12 16 U 8(8.88899 1/2 511.966 .5650E-02 .998	1 9 20 3 010.91390 121 354.424 .3646E-02 .989 1 0 95 1 979 07905 504.410 10000 000	1 8 20 1 010.31000 004.410 .1623E-UZ .989 1 8 20 9 270 AARAO 758 998 7.0000 00	1 0 32 2 0(3.03330 0 00.330 .(432E-U3 .958 1 6 99 0 07010660 49 756 900 1.657 60 6	1 0 32 0 019.10000 43 (30.330 .1485E-02 .957 1 13 16 3 270 37600 517 000 11777 00 200	I 10 10 0 019.2/009 01/.000 .144/E-02 .999	1 13 10 1 8(9.2/80b -50 516.994 .5787E-02 .999	1 10 20 2 6(9.30191 31 339.281 .4238E-02 .993 1 10 99 0 970 95504 5504 550 300 300 300	1 10 20 0 019.00094 009.270 .1060E-02 .993	1 7 30 1 870 AFROR 05 701 069 100000 071	1/A. ZU-IBART. COULD A FOIDOR TO A FOID A FO	1 14 14 2 0(3.0(320 24 031.221 .5734E-02 1.000 1 14 14 0 070 67400 501 61 61 61 012 0.000	1 14 14 U 5/9.0/490 331.215 .1434E-02 1.000	1 11 21 3 8/9/3398 543.333 .1183E-02 .996	1 11 21 1 879.73692 -14 543.328 .4730E-02 .996	1 8 28 2 879.81892 -1 654.976 .2566E-02 .981	1 8 28 0 879.82577 654.970 .6407E-03 .980	1 12 19 2 880.12469 536.576 .2538E-02 .998 1 19 10 0 860.19720 52 596750 702750 20	1 12 19 0 000.12/102 30 330.370 .3075E-02 .998
$\frac{1}{N} \Delta J K J \sigma$ ν_i $\sigma \in E''_i S_i W_i$	1 1 12 17 2 877.64475 488.659 3131E-02 999	1 1 1 2 17 0 877.64727 118 488.653 .6262E-02 .999	1 1 9 24 3 877.75252 -3 552.067 .4192E-02 .990	1 1 9 24 1 877.75640 552.062 .2096E-02 .990	1 1 6 31 2 877.89345 714.963 .8927E-03 .961	1 1 6 31 0 877.90276 59 714.957 .1786E-02 .961	1 1 13 15 3 8/8/02892 496.275 .1590E-02 1.000	1 1 13 13 1 8/8.030/8 -32 496.270 .6361E-02 1.000	1 1 10 22 2 8/8.12442 40 529.506 .4819E-02 .994	1 1 1 22 U 8/8.1285/ 529.501 .1205E-02 .994 1 1 7 90 3 979.94954 2560.550 75577 55 575	1 1 7 90 1 979 04005 110 002.209 .5927E-03 .974	1 1 1 29 1 8/8.24925 -118 662.263 .2371E-02 .974	1 1 11 20 3 8/8.5012/ 516.143 .1331E-02 .997	1 1 11 20 1 878.50405 -61 516.137 .5323E-02 .997	1 1 8 2/ 2 8/8.0004 21 618.752 .3003E-02 .982	1 1 8 2/ U 8/8.61253 618.746 .7508E-03 .982	1 1 5 34 3 878.74888 820.778 .2630E-03 .938	1 1 3 34 1 8/8./3089 820.773 .1052E-02 .938	1 1 1 1 1 1 0 2 010.00020 011.9/1 .2825E-02 .998	1 1 1 2 10 0 8(8.88899 1/2 511.966 .5650E-02 .998	1 1 9 20 3 010.91390 121 364.424 .3646E-02 .989	$\frac{1}{1} + \frac{1}{6} + \frac{2}{20} + \frac{1}{2} = \frac{1}{20} + \frac$	1 1 0 32 2 0(3.03030 0 00.330 . (432E-03 . 958 1 1 6 99 0 070 10620 49 750 990 4402E 00 020	1 1 0 32 0 309.10303 43 (30.330 .1485E-02 .957 1 1 12 16 3 270.37200 E17.000 11.277.55 55	1 1 1 1 1 1 44/E-02 999	1 1 13 10 1 8(9.2/800 -50 516.994 .5787E-02 .999	1 1 10 20 2 0(9.30101 31 009.281 .4238E-02 .993 1 1 10 99 0 070 95504 550 077 10000 00	1 1 7 90 9 679 45111 701 009 1000 1000 1000 1000 1000 100	1 1 1 20 3 0/9.49111 (01.009 .4994E-03 .97] 1 1 7 30 1 870 45509 05 701 069 10000 06 071		1 1 14 14 2 5(3.0/520 24 331.221 .5734E-02 1.000 1 1 14 14 0 576 57460 591 515 1.221	1 1 14 14 U 019.0149U 031.215 .1434E-02 1.000	1 1 11 21 3 879.73398 543.333 .1183E-02 .996	I I II 21 I 879.73692 -14 543.328 .4730E-02 .996	I I 8 28 2 879.81892 -I 654.976 .2566E-02 .981	I I 8 28 0 879.82577 654.970 .6407E-03 .980	1 1 1 2 19 2 880.12409 536.576 2538E-02 998 1 1 19 10 0 880.19720 52 50.570 52720 50	I I 12 19 0 000.12/02 30 330.370 .3075E-02 .998

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W.	.998	966.	.971	.970	.992	.992	666.	666.	.980	.979 979	.995 200	.995	1.000	1.000	986. 096	986. 200	766.	.997	.968	.968	.991	.991	666.	666.	.978	.978	.994	.994	1.000	1.000	.985	.984 	7997	7997. 2007	1.000	1.000	066.	066.
S _i	.8365E-03	.3346E-02	.1053E-02	.2629E-03	.5984E-03	.2393E-02	.3461E-02	.8652E-03	.1374E-02	.6864E-03	.1355E-02	.2710E-02	.3451E-02	.1726E-02	.1714E-02	.4286E-03	.7365E-03	.2946E-02	.8628E-03	.2157E-03	.5124E-03	.2049E-02	.3080E-02	.7701E-03	.1141E-02	.5705E-03	.1173E-02	.2347E-02	.3100E-02	.1550E-02	.1442E-02	.3601E-03	.6452E-03	.2581E-02	.3007E-02	.7518E-03	.4359E-03	.1744E-UZ
E''	640.008	640.003	855.389	855.384	698.640	698.635	641.293	641.288	805.609	805.603	678.967	678.962	651.771	651.766	764.998	764.993	668.484	668.479	899.325	899.320	733.568	733.563	667.184	667.179	846.975	846.969	711.316	711.310	675.076	675.071	803.790	803.785	698.250	698.245	692.152	692.146	769.784	769.779
j		-57	7			-87	38		191*			-86	-24		19			-62	57			-70	43		290*			-36	-31		45			-63	12			-119
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t	3 i 2000 00	.6229E-03	.1240E-UZ	.1125E-02	.2812E-03	.8237E-03	.2059E-03	.2420E-03	.4834E-03	.2838E-03	.1135E-02	.9127E-03	.4563E-03	.1476E-03	.5903E-03	.5512E-03	.1102E-02	.9699E-03	.2425E-03	.6905E-03	.1726E-03	.2473E-03	.9892E-03	.7730E-03	.3865E-03	.1214E-03	.4856E-03	.4851E-03	.9702E-03	.8306E-03	.2076E-03	.5746E-03	.1437E-03	.2288E-03	.9154E-03	.2143E-03	.8571E-03	.6514E-03	.3257E-03
	E.	898.839	696.634 001 901	904.384	904.379	958.240	958.234	1060.361	1060.355	909.965	909.959	942.895	942.889	1024.109	1024.103	924.717	924.711	936.718	936.712	997.017	110.766	939.717	939.711	979.096	979.090	1066.744	1066.738	951.885	951.880	970.340	970.334	1037.079	1037.073	973.230	973.224	970.758	970.752	1016.583	1016.577
	ц Г	ć	2 2	31		-44					-95	30					58	38		184*			6-	26					50	103		-74					-63	28	
	V;	897.61990	897.62111 007 05771	897.85751	897.86062	898.09013	898.09494	898.32033	898.32739	898.35145	898.35370	898.57853	898.58179	898.80169	898.80628	898.85201	898.85404	899.07455	899.07787	899.29208	899.29716	899.57438	899.57675	899.78633	899.78975	899.99442	899.99922	900.08088	900.08307	900.28830	900.29184	900.49071	900.49606	900.59113	900.59282	900.79403	900.79653	900.99081	900.99441
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٠	-	61 9	ĥ	74	54	1 29	1 29	34	34	7 22	7 22	5 27	5 27	3 32	3 32	3 20	8	3 25	3 25	1 30	4 30	7 23	7 23	5 28	5 28	3 33	3 33	8 21	8 21	6 26	6 26	4 31	4 31	9 19	9 19	7 24	7 24	5 29	5 29
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	1																												_						THE R R R R R R R R R R R R R R R R R R R			_	_
	W.	966.	. 996	1.000	1.000	988.	988.	866.	866.	.992	.992	666.	666.	.982	.982	.995	.995	1.000	1.000	.987	786.	7997	266.	1.000	1.000	166.	.991	866	866.	994	.994	666.	666.	.986	.986	266.	966.	066	066.
	Si Wi	.1351E-02 .996	.33795-03 .996	.4151E-03 1.000	.1661E-02 1.000	.4336E-03 .988	.8671E-03 .988	.1447E-02 .998	.7235E-03 .998	.2553E-03 .992	.1021E-02 .992	.1487E-02 .999	.3719E-03 .999	.1444E-03 .982	.5775E-03 .982	.1153E-02 .995	.2882E-03 .995	.3678E-03 1.000	.1471E-02 1.000	.3592E-03 .987	.7185E-03 .987	.1248E-02 .997	.6240E-03 .997	.7004E-03 1.000	.1401E-02 1.000	.2140E-03 .991	.8562E-03 .991	.1297E-02 .998	.3241E-03 .998	.9775E-03 .994	.2444E-03 .994	.3238E-03 .999	.1295E-02 .999	.2958E-03 .986	.5915E-03 .986	.1071E-02 .997	.5350E-03 .996	.1783E-03 .990	.7132E-03 .990
2	$E_i'' S_i W_i$	849.626 .1351E-02 .996	849.621 .3379E-U3 .996	828.449 .4151E-03 1.000	828.444 .1661E-02 1.000	932.445 .4336E-03 .988	932.439 .8671E-03 .988	842.018 .1447E-02 .998	842.012 .7235E-03 .998	903.911 .2553E-03 .992	903.905 .1021E-02 .992	843.583 .1487E-02 .999	843.578 .3719E-03 .999	1014.078 .1444E-03 .982	1014.072 .5775E-03 .982	884.544 .1153E-02 .995	884.538 .2882E-03 .995	854.331 .3678E-03 1.000	854.325 .1471E-02 1.000	973.800 .3592E-03 .987	973.794 .7185E-03 .987	874.356 .1248E-02 .997	874.350 .6240E-03 .997	874.252 .7004E-03 1.000	874.247 .1401E-02 1.000	942.692 .2140E-03 .991	942.686 .8562E-03 .991	873.339 .1297E-02 .998	873.334 .3241E-03 .998	920.749 .9775E-03 .994	920.743 .2444E-03 .994	881.503 .3238E-03 .999	881.497 .1295E-02 .999	1016.439 .2958E-03 .986	1016.433 .5915E-03 .986	907.982 .1071E-02 .997	907.976 .5350E-03 .996	982.758 .1783E-03 .990	982.752 .7132E-03 .990
	$o-c = E''_i = S_i = W_i$	139 849.626 .1351E-02 .996	849.621 .3379E-U3 .996	828.449 .4151E-03 1.000	-37 828.444 .1661E-02 1.000	932.445 .4336E-03 .988	89 932.439 .8671E-03 .988	-16 842.018 .1447E-02 .998	842.012 .7235E-03 .998	903.911 .2553E-03 .992	-117 903.905 .1021E-02 .992	68 843.583 .1487E-02 .999	843.578 .3719E-03 .999	1014.078 .1444E-03 .982	1014.072 .5775E-03 .982	51 884.544 .1153E-02 .995	884.538 .2882E-03 .995	854.331 .3678E-03 1.000	-51 854.325 .1471E-02 1.000	973.800 .3592E-03 .987	257* 973.794 .7185E-03 .987	7 874.356 .1248E-02 .997	874.350 .6240E-03 .997	874.252 .7004E-03 1.000	73 874.247 .1401E-02 1.000	942.692 .2140E-03 .991	-98 942.686 .8562E-03 .991	-17 873.339 .1297E-02 .998	873.334 .3241E-03 .998	30 920.749 .9775E-03 .994	920.743 .2444E-03 .994	881.503 .3238E-03 .999	-3 881.497 .1295E-02 .999	1016.439 .2958E-03 .986	1016.433 .5915E-03 .986	-25 907.982 .1071E-02 .997	907.976 .5350E-03 .996	982.758 .1783E-03 .990	-101 982.752 .7132E-03 .990
	ν_i o-c E_i'' S_i W_i	894.46451 139 849.626 .1351E-02 .996	894.46856 849.621 .3379E-U3 .996	894.66321 828.449 .4151E-03 1.000	894.66509 -37 828.444 .1661E-02 1.000	894.73947 932.445 .4336E-03 .988	894.74557 89 932.439 .8671E-03 .988	894.93541 -16 842.018 .1447E-02 .998	894.93820 842.012 .7235E-03 .998	895.20362 903.911 .2553E-03 .992	895.20762 -117 903.905 .1021E-02 .992	895.41363 68 843.583 .1487E-02 .999	895.41635 843.578 .3719E-03 .999	895.47069 1014.078 .1444E-03 .982	895.47628 1014.072 .5775E-03 .982	895.67633 51 884.544 .1153E-02 .995	895.68062 884.538 .2882E-03 .995	895.89585 854.331 .3678E-03 1.000	895.89785 -51 854.325 .1471E-02 1.000	895.93639 973.800 .3592E-03 .987	895.94280 257* 973.794 .7185E-03 .987	896.15305 7 874.356 .1248E-02 .997	896.15600 874.350 .6240E-03 .997	896.38456 874.252 .7004E-03 1.000	896.38628 73 874.247 .1401E-02 1.000	896.40627 942.692 .2140E-03 .991	896.41047 -98 942.686 .8562E-03 .991	896.63720 -17 873.339 .1297E-02 .998	896.64011 873.334 .3241E-03 .998	896.88488 30 920.749 .9775E-03 .994	896.88942 920.743 .2444E-03 .994	897.12527 881.503 .3238E-03 .999	897.12739 -3 881.497 .1295E-02 .999	897.13001 1016.439 .2958E-03 .986	897.13674 1016.433 .5915E-03 .986	897.36743 -25 907.982 .1071E-02 .997	897.37053 907.976 .5350E-03 .996	897.60563 982.758 .1783E-03 .990	897.61003 -101 982.752 .7132E-03 .990
	$\sigma \nu_i o - c E''_i S_i W_i I$	2 894.46451 139 849.626 .1351E-02 .996	0 894.46856 849.621 .3379E-U3 .996	3 894.66321 828.449 .4151E-03 1.000	1 894.66509 -37 828.444 .1661E-02 1.000	2 894.73947 932.445 .4336E-03 .988	0 894.74557 89 932.439 .8671E-03 .988	3 894.93541 -16 842.018 .1447E-02 .998	1 894.93820 842.012 .7235E-03 .998	3 895.20362 903.911 .2553E-03 .992	1 895.20762 -117 903.905 .1021E-02 .992	2 895.41363 68 843.583 .1487E-02 .999	0 895.41635 843.578 .3719E-03 .999	3 895.47069 1014.078 .1444E-03 .982	1 895.47628 1014.072 .5775E-03 .982	2 895.67633 51 884.544 .1153E-02 .995	0 895.68062 884.538 .2882E-03 995	3 895.89585 854.331 .3678E-03 1.000	1 895.89785 -51 854.325 .1471E-02 1.000	2 895.93639 973.800 .3592E-03 .987	0 895.94280 257* 973.794 .7185E-03 .987	3 896.15305 7 874.356 .1248E-02 .997	1 896.15600 874.350 .6240E-03 .997	2 896.38456 874.252 .7004E-03 1.000	0 896.38628 73 874.247 .1401E-02 1.000	3 896.40627 942.692 .2140E-03 .991	1 896.41047 -98 942.686 .8562E-03 .991	2 896.63720 -17 873.339 .1297E-02 .998	0 896.64011 873.334 .3241E-03 .998	2 896.88488 30 920.749 .9775E-03 .994	0 896.88942 920.743 .2444E-03 .994	3 897.12527 881.503 .3238E-03 .999	1 897.12739 -3 881.497 .1295E-02 .999	2 897.13001 1016.439 .2958E-03 .986	0 897.13674 1016.433 .5915E-03 .986	3 897.36743 -25 907.982 .1071E-02 .997	1 897.37053 907.976 .5350E-03 .996	3 897.60563 982.758 .1783E-03 .990	1 897.61003 -101 982.752 .7132E-03 .990
	$J \sigma \nu_i$ o-c E_i'' $S_i W_i$	26 2 894.46451 139 849.626 .1351E-02 .996	26 0 894.46856 849.621 .3379E-U3 .996	7 19 3 894.66321 828.449 .4151E-03 1.000	7 19 1 894.66509 -37 828.444 .1661E-02 1.000	2 31 2 894.73947 932.445 .4336E-03 .988	2 31 0 894.74557 89 932.439 .8671E-03 .988	5 24 3 894.93541 -16 842.018 .1447E-02 .998	5 24 1 894.93820 842.012 .7235E-03 .998	3 29 3 895.20362 903.911 .2553E-03 .992	3 29 1 895.20762 -117 903.905 .1021E-02 .992	3 22 2 895.41363 68 843.583 .1487E-02 .999	3 22 0 895.41635 843.578 .3719E-03 .999	1 34 3 895.47069 1014.078 .1444E-03 .982	1 34 1 895.47628 1014.072 .5775E-03 .982	4 27 2 895.67633 51 884.544 .1153E-02 .995	t 27 0 895.68062 884.538 .2882E-03 .995	7 20 3 895.89585 854.331 .3678E-03 1.000	7 20 1 895.89785 -51 854.325 .1471E-02 1.000	2 32 2 895.93639 973.800 .3592E-03 .987	2 32 0 895.94280 257* 973.794 .7185E-03 .987	5 25 3 896.15305 7 874.356 .1248E-02 .997	5 25 1 896.15600 874.350 .6240E-03 .997	3 18 2 896.38456 874.252 .7004E-03 1.000	3 18 0 896.38628 73 874.247 .1401E-02 1.000	3 30 3 896.40627 942.692 .2140E-03 .991	3 30 1 896.41047 -98 942.686 .8562E-03 .991	6 23 2 896.63720 -17 873.339 .1297E-02 .998	6 23 0 896.64011 873.334 .3241E-03 .998	4 28 2 896.88488 30 920.749 .9775E-03 .994	4 28 0 896.88942 920.743 .2444E-03 .994	7 21 3 897.12527 881.503 .3238E-03 .999	7 21 1 897.12739 -3 881.497 .1295E-02 .999	2 33 2 897.13001 1016.439 .2958E-03 .986	2 33 0 897.13674 1016.433 .5915E-03 .986	5 26 3 897.36743 -25 907.982 .1071E-02 .997	5 26 1 897.37053 907.976 .5350E-03 .996	3 31 3 897.60563 982.758 .1783E-03 .990	3 31 1 897.61003 -101 982.752 .7132E-03 .990
	$K J \sigma \nu_i$ o-c E''_i $S_i W_i$	14 26 2 894.46451 139 849.626 .1351E-02 .996	14 26 0 894.46856 849.621 .3379E-U3 .996	17 19 3 894.66321 828.449 .4151E-03 1.000	17 19 1 894.66509 -37 828.444 .1661E-02 1.000	12 31 2 894.73947 932.445 .4336E-03 .988	12 31 0 894.74557 89 932.439 .8671E-03 .988	15 24 3 894.93541 -16 842.018 .1447E-02 .998	15 24 1 894.93820 842.012 .7235E-03 .998	13 29 3 895.20362 903.911 .2553E-03 .992	13 29 1 895.20762 -117 903.905 .1021E-02 .992	16 22 2 895.41363 68 843.583 .1487E-02 .999	16 22 0 895.41635 843.578 .3719E-03 .999	11 34 3 895.47069 1014.078 .1444E-03 .982	11 34 1 895.47628 1014.072 .5775E-03 .982	14 27 2 895.67633 51 884.544 .1153E-02 .995	14 27 0 895.68062 884.538 .2882E-03 .995	17 20 3 895.89585 854.331 .3678E-03 1.000	17 20 1 895.89785 -51 854.325 .1471E-02 1.000	1 12 32 2 895.93639 973.800 .3592E-03 .987	(12 32 0 895.94280 257* 973.794 .7185E-03 .987	1 15 25 3 896.15305 7 874.356 .1248E-02 .997	1 15 25 1 896.15600 874.350 .6240E-03 .997	1 18 18 2 896.38456 874.252 .7004E-03 1.000	1 18 18 0 896.38628 73 874.247 .1401E-02 1.000	1 13 30 3 896.40627 942.692 .2140E-03 .991	1 13 30 1 896.41047 -98 942.686 .8562E-03 .991	1 16 23 2 896.63720 -17 873.339 .1297E-02 .998	1 16 23 0 896.64011 873.334 .3241E-03 .998	1 14 28 2 896.88488 30 920.749 .9775E-03 .994	l 14 28 0 896.88942	1 17 21 3 897.12527 881.503 .3238E-03 .999	l 17 21 1 897.12739 -3 881.497 .1295E-02 .999	1 12 33 2 897.13001 1016.439 .2958E-03 .986	1 12 33 0 897.13674 1016.433 .5915E-03 .986	1 15 26 3 897.36743 -25 907.982 .1071E-02 .997	1 15 26 1 897.37053 907.976 .5350E-03 .996	1 13 31 3 897.60563 982.758 1783E-03 990	1 13 31 1 897.61003 -101 982.752 .7132E-03 .990
	$\Delta J K J \sigma \nu_i$ o-c E''_i Si W_i	1 14 26 2 894.46451 139 849.626 .1351E-02 .996	1 14 26 0 894.46856 849.621 .3379E-U3 .996	1 17 19 3 894.66321 828.449 .4151E-03 1.000	1 17 19 1 894.66509 -37 828.444 .1661E-02 1.000	1 12 31 2 894.73947 932.445 .4336E-03 .988	1 12 31 0 894.74557 89 932.439 .8671E-03 .988	1 15 24 3 894.93541 -16 842.018 .1447E-02 .998	1 15 24 1 894.93820 842.012 .7235E-03 .998	1 13 29 3 895.20362 903.911 .2553E-03 .992	1 13 29 1 895.20762 -117 903.905 .1021E-02 .992	1 16 22 2 895.41363 68 843.583 .1487E-02 .999	1 16 22 0 895.41635 843.578 .3719E-03 .999	1 11 34 3 895.47069 1014.078 .1444E-03 .982	1 11 34 1 895.47628 1014.072 .5775E-03 .982	1 14 27 2 895.67633 51 884.544 .1153E-02 .995	1 14 27 0 895.68062 884.538 .2882E-03 .995	1 17 20 3 895.89585 854.331 .3678E-03 1.000	1 17 20 1 895.89785 -51 854.325 .1471E-02 1.000	1 12 32 2 895.93639 973.800 .3592E-03 .987	1 12 32 0 895.94280 257* 973.794 .7185E-03 .987	1 15 25 3 896.15305 7 874.356 .1248E-02 .997	1 15 25 1 896.15600 874.350 .6240E-03 .997	1 18 18 2 896.38456 874.252 .7004E-03 1.000	1 18 18 0 896.38628 73 874.247 .1401E-02 1.000	1 13 30 3 896.40627 942.692 .2140E-03 .991	1 13 30 1 896.41047 -98 942.686 .8562E-03 .991	1 16 23 2 896.63720 -17 873.339 .1297E-02 .998	1 16 23 0 896.64011 873.334 .3241E-03 .998	1 14 28 2 896.88488 30 920.749 .9775E-03 .994	1 14 28 0 896.88942 920.743 .2444E-03 .994	1 17 21 3 897.12527 881.503 .3238E-03 .999	1 17 21 1 897.12739 -3 881.497 .1295E-02 .999	1 12 33 2 897.13001 1016.439 .2958E-03 .986	1 12 33 0 897.13674 1016.433 .5915E-03 .986	1 15 26 3 897.36743 -25 907.982 .1071E-02 .997	1 15 26 1 897.37053 907.976 .5350E-03 .996	1 13 31 3 897.60563 982.758 .1783E-03 .990	1 13 31 1 897.61003 -101 982.752 .7132E-03 .990
	$\Delta K \Delta J K J \sigma \nu_i$ o-c E''_i Si W_i	1 1 14 26 2 894.46451 139 849.626 .1351E-02 .996	1 1 14 26 0 894.46856 849.621 .3379E-U3 .996	1 1 17 19 3 894.66321 828.449 .4151E-03 1.000	1 1 17 19 1 894.66509 -37 828.444 .1661E-02 1.000	1 1 12 31 2 894.73947 932.445 .4336E-03 .988	1 1 12 31 0 894.74557 89 932.439 .8671E-03 .988	1 1 15 24 3 894.93541 -16 842.018 .1447E-02 .998	1 1 15 24 1 894.93820 842.012 .7235E-03 .998	1 1 13 29 3 895.20362 903.911 .2553E-03 .992	1 1 13 29 1 895.20762 -117 903.905 .1021E-02 .992	1 1 1 16 22 2 895.41363 68 843.583 .1487E-02 .999	1 1 1 16 22 0 895.41635 843.578 .3719E-03 .999	1 1 1 34 3 895.47069 1014.078 .1444E-03 .982	1 1 1 11 34 1 895.47628 1014.072 .5775E-03 .982	1 1 14 27 2 895.67633 51 884.544 .1153E-02 .995	1 1 14 27 0 895.68062 884.538 2882E-03 995	1 1 1 7 20 3 895.89585 854.331 .3678E-03 1.000	1 1 1 17 20 1 895.89785 -51 854.325 .1471E-02 1.000	1 1 12 32 2 895.93639 973.800 .3592E-03 .987	1 1 12 32 0 895.94280 257* 973.794 .7185E-03 .987	1 1 15 25 3 896.15305 7 874.356 .1248E-02 .997	1 1 15 25 1 896.15600 874.350 .6240E-03 .997	1 1 18 18 2 896.38456 874.252 .7004E-03 1.000	1 1 18 18 0 896.38628 73 874.247 .1401E-02 1.000	1 1 13 30 3 896.40627 942.692 .2140E-03 .991	1 1 13 30 1 896.41047 -98 942.686 .8562E-03 .991	1 1 16 23 2 896.63720 -17 873.339 .1297E-02 .998	1 1 16 23 0 896.64011 873.334 .3241E-03 .998	1 1 14 28 2 896.88488 30 920.749 .9775E-03 .994	1 1 14 28 0 896.88942 920.743 .2444E-03 .994	1 1 1 17 21 3 897.12527 881.503 .3238E-03 .999	1 1 1 7 21 1 897.12739 -3 881.497 .1295E-02 .999	1 1 12 33 2 897.13001 1016.439 .2958E-03 .986	1 1 12 33 0 897.13674 1016.433 .5915E-03 .986	1 1 15 26 3 897.36743 -25 907.982 .1071E-02 .997	1 1 15 26 1 897.37053 907.976 .5350E-03 .996	1 1 1 13 31 3 897.60563 982.758 .1783E-03 .990	1 1 13 31 1 897.61003 -101 982.752 .7132E-03 .990

W.	666.	666.	.995	366.	666.	666	766.	266.	.992	.991	966.	966.	994	. 994	666.	666.	966.	966.	.991	166.	966.	966.	.994	.993	666.	666 .	966.	966.	966.	266.	.993	.993	666.	666.	.995	.995	766.	766.
ŝ	.2750E-03	.5499E-03	.4213E-03	.1053E-03	.1350E-03	.5399E-03	.1136E-03	.4544E-03	.3077E-03	.1537E-03	.2350E-03	.4700E-03	.3500E-03	.8750E-04	.1167E-03	.4668E-03	.9546E-04	.3818E-03	.2511E-03	.1255E-03	.1998E-03	.3997E-03	.2892E-03	.7224E-04	.1003E-03	.4013E-03	.7979E-04	.3192E-03	.1689E-03	.3375E-03	.2373E-03	.5933E-04	.8573E-04	.3429E-03	.6623E-04	.2649E-03	.1418E-03	.2836E-03
E	1073.452	1073.447	1117.695	1117.689	1084.465	1084.459	1107.800	1107.794	1179.379	1179.373	1107.065	1107.059	1157.747	1157.741	1115.497	1115.491	1145.278	1145.272	1223.287	1223.281	1141.964	1141.959	1199.083	1199.078	1147.817	1147.811	1184.040	1184.034	1178.151	1178.145	1241.703	1241.697	1181.424	1181.419	1224.087	1224.081	1215.623	1215.617
Ĭ		86																																				
'n	904.96362	904.96652	905.11012	905.11458	905.49758	905.49971	905.63952	905.64261	905.77529	905.77962	906.17602	906.17911	906.30719	906.31191	906.71594	906.71820	906.84254	906.84579	906.96298	906.96750	907.38508	907.38837	907.50088	907.50585	907.93098	907.93336	908.04218	908.04559	908.59077	908.59427	908.69118	908.69640	909.14266	909.14517	909.23843	909.24200	909.79308	909.79680
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W.	.987	.987	666.	666.	.997	-997	.991	166.	1.000	1.000	.998	866.	.994	.994	666.	666.	966.	966.	066.	066.	1.000	1.000	866.	866.	.993	.993	666.	666.	966.	966.	.989	.989	1.000	1.000	.997	266.	.992	.992
S.	.9922E-04	.3969E-03	.4242E-03	.8484E-03	.7078E-03	.1769E-03	.4752E-03	.1188E-03	.2022E-03	.8089E-03	.1844E-03	.7375E-03	.5449E-03	.2725E-03	.3692E-03	.7384E-03	.5988E-03	.1497E-03	.3905E-03	.9763E-04	.1778E-03	.7110E-03	.1579E-03	.6316E-03	.4531E-03	.2265E-03	.3195E-03	.6391E-03	.5041E-03	.1260E-03	.3189E-03	.7973E-04	.1554E-03	.6216E-03	.1343E-03	.5371E-03	.3744E-03	.1872E-03
E_i''	1110.661	1110.655	.980.343	980.338	1005.249	1005.243	1078.426	1078.420	999.104	860.666	1003.087	1003.082	1055.355	1055.349	1010.091	1010.085	1041.445	1041.439	1121.055	1121.050	1026.268	1026.262	1036.704	1036.699	1095.412	1095.407	1041.127	1041.122	1078.927	1078.921	1164.968	1164.962	1054.722	1054.716	1071.609	1071.603	1136.754	1136.748
ų				105	-82					-68		-118	25			125	-					4		-109	8			-73						-180			146	
Vi	901.18381	901.18883	901.30650	901.30886	901.49875	901.50251	901.68601	901.69164	901.82265	901.82445	902.01038	902.01303	902.19196	902.19574	902.52884	902.53137	902.70588	902.70987	902.87796	902.88388	903.05091	903.05281	903.22343	903.22622	903.38977	903.39373	903.74788	903.75060	903.90968	903.91390	904.06654	904.07276	904.27589	904.27791	904.43315	904.43608	904.58422	904.58836
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ſ	34	34	53	53	27	21	32	32	30	20	25	52	8	30	53	23	28	28	3		21	21	26	26	31	31	24	74	53	29	34	34	22	22	27	27	32	32
К	13	13	18	18	10	16	14	14	19	19	17	17	15	15	18	18	16	16	14	14	19	19	17	17	12	5	ŝ	×	16	16	14	14	19	19	17	11	<u>S</u>	12
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W_i	.992 000	366 866	966.	. 995	.995	766.	766.	966.	866.	.994	.994	966.	966.	.998	.998	.993	.993	966.	.995	766.	766.	.995	.995	.997	766.	9 94	.994	966.	966.	966.	966.	.995	.995		
$S_i = W_i$.1935E-03 .992	7977F-04 998	.2911E-03 .998	.5468E-04 .995	.2187E-03 .995	.1184E-03 .997	.2369E-03 .997	.6146E-04 .998	.2458E-03 .998	.4483E-04 .994	.1793E-03 .994	.9822E-04 .996	.1964E-03 .996	.5160E-04 .998	.2064E-03 .998	.3652E-04 .993	.1461E-03 .993	.8103E-04 .996	.1619E-03 .995	.4302E-04 .997	.1721E-03 .997	.6638E-04 .995	.1328E-03 .995	.3568E-04 .997	.1427E-03 .997	.5404E-04 .994	.1081E-03 .994	.2939E-04 .996	.1175E-03 .996	.2408E-04 .996	.9632E-04 .996	.1959E-04 .995	.7836E-04 .995		
E_i'' S_i W_i	1285.605 .1935E-03 .992	1260.088	1216.313 .2911E-03 .998	1265.418 .5468E-04 .995	1265.412 .2187E-03 .995	1254.380 .1184E-03 .997	1254.374 .2369E-03 .997	1252.499 .6146E-04 .998	1252.494 .2458E-03 .998	1308.032 .4483E-04 .994	1308.026 .1793E-03 .994	1294.421 .9822E-04 .996	1294.415 .1964E-03 .996	1289.966 .5160E-04 .998	1289.960 .2064E-03 .998	1351.928 .3652E-04 .993	1351.922 .1461E-03 .993	1335.746 .8103E-04 .996	1335.740 .1619E-03 .995	1328.717 .4302E-04 .997	1328.711 .1721E-03 .997	1378.354 .6638E-04 .995	1378.348 .1328E-03 .995	1368.752 .3568E-04 .997	1368.746 .1427E-03 .997	1422.244 .5404E-04 .994	1422.238 .1081E-03 .994	1410.071 .2939E-04 .996	1410.065 .1175E-03 .996	1452.673 .2408E-04 .996	1452.667 .9632E-04 .996	1496.556 .1959E-04 .995	1496.550 .7836E-04 .995		
$o-c E''_i S_i W_i$	1285.605 .1935E-03 .992	1916.319 7277F-04 998	1216.313 .2911E-03 .998	1265.418 .5468E-04 .995	1265.412 .2187E-03 .995	1254.380 .1184E-03 .997	1254.374 .2369E-03 .997	1252.499 .6146E-04 .998	1252.494 .2458E-03 .998	1308.032 .4483E-04 .994	1308.026 .1793E-03 .994	1294.421 .9822E-04 .996	1294.415 .1964E-03 .996	1289.966 .5160E-04 .998	1289.960 .2064E-03 .998	1351.928 .3652E-04 .993	1351.922 .1461E-03 .993	1335.746 .8103E-04 .996	1335.740 .1619E-03 .995	1328.717 .4302E-04 .997	1328.711 .1721E-03 .997	1378.354 .6638E-04 .995	1378.348 .1328E-03 .995	1368.752 .3568E-04 .997	1368.746 .1427E-03 .997	1422.244 .5404E-04 .994	1422.238 .1081E-03 .994	1410.071 .2939E-04 .996	1410.065 .1175E-03 .996	1452.673 .2408E-04 .996	1452.667 .9632E-04 .996	1496.556 .1959E-04 .995	1496.550 .7836E-04 .995		
ν_i o-c E''_i S_i W_i	909.87806 1285.605 1935E-03 .992	909.66333 1203.377	910.35362 1216.313 .2911E-03 .998	910.43128 1265.418 .5468E-04 .995	910.43502 1265.412 .2187E-03 .995	910.99200 1254.380 .1184E-03 .997	910.99594 1254.374 .2369E-03 .997	911.55591 1252.499 .6146E-04 .998	911.55869 1252.494 .2458E-03 .998	911.62070 1308.032 .4483E-04 .994	911.62461 1308.026 1793E-03 994	912.18751 1294.421 .9822E-04 .996	912.19166 1294.415 .1964E-03 .996	912.75743 1289.966 .5160E-04 .998	912.76036 1289.960 .2064E-03 .998	912.80668 1351.928 .3652E-04 .993	912.81077 1351.922 .1461E-03 .993	913.37958 1335.746 .8103E-04 .996	913.38397 1335.740 .1619E-03 .995	913.95554 1328.717 .4302E-04 .997	913.95862 1328.711 .1721E-03 .997	914.56821 1378.354 .6638E-04 .995	914.57284 1378.348 .1328E-03 .995	915.15022 1368.752 .3568E-04 .997	915.15344 1368.746 .1427E-03 .997	915.75338 1422.244 .5404E-04 .994	915.75825 1422.238 .1081E-03 .994	916.34144 1410.071 2939E-04 .996	916.34482 1410.065 .1175E-03 .996	917.52919 1452.673 .2408E-04 .996	917.53273 1452.667 .9632E-04 .996	918.71346 1496.556 .1959E-04 .995	918.71717 1496.550 .7836E-04 .995		
σ ν_i o-c E''_i S_i W_i	2 909.87806 1285.605 .1935E-03 .992	U 909.00000 1200.000	1 910.35362 1216.313 .2911E-03 .998	3 910.43128 1265.418 .5468E-04 .995	1 910.43502 1265.412 .2187E-03 .995	2 910.99200 1254.380 .1184E-03 .997	0 910.99594 1254.374 .2369E-03 .997	3 911.55591 1252.499 .6146E-04 .998	1 911.55869 1252.494 .2458E-03 .998	3 911.62070 1308.032 .4483E-04 .994	1 911.62461 1308.026 1793E-03 994	2 912.18751 1294.421 .9822E-04 .996	0 912.19166 1294.415 .1964E-03 .996	3 912.75743 1289.966 .5160E-04 .998	1 912.76036 1289.960 .2064E-03 .998	3 912.80668 1351.928 .3652E-04 .993	1 912.81077 1351.922 .1461E-03 .993	2 913.37958 1335.746 .8103E-04 .996	0 913.38397 1335.740 .1619E-03 .995	3 913.95554 1328.717 .4302E-04 .997	1 913.95862 1328.711 .1721E-03 .997	2 914.56821 1378.354 .6638E-04 .995	0 914.57284 1378.348 .1328E-03 .995	3 915.15022 1368.752 .3568E-04 .997	1 915.15344 1368.746 .1427E-03 .997	2 915.75338 1422.244 .5404E-04 .994	0 915.75825 1422.238 .1081E-03 .994	3 916.34144 1410.071 .2939E-04 .996	1 916.34482 1410.065 .1175E-03 .996	3 917.52919 1452.673 .2408E-04 .996	1 917.53273 1452.667 .9632E-04 .996	3 918.71346 1496.556 .1959E-04 .995	1 918.71717 1496.550 .7836E-04 .995		
J a vi o-c E'' Si Wi	34 2 909.87806 1285.605 .1935E-03 .992	34 0 303.000 0 1200.000 1200.000 1200.000 000 000 000 000 000 000 000 000	27 1 910.35362 1216.313 .2911E-03 .998	32 3 910.43128 1265.418 .5468E-04 .995	32 1 910.43502 1265.412 .2187E-03 .995	30 2 910.99200 1254.380 .1184E-03 .997	30 0 910.99594 1254.374 .2369E-03 .997	28 3 911.55591 1252.499 .6146E-04 .998	28 1 911.55869 1252.494 .2458E-03 .998	33 3 911.62070 1308.032 .4483E-04 .994	33 1 911.62461 1308.026 .1793E-03 .994	31 2 912.18751 1294.421 .9822E-04 .996	31 0 912.19166 1294.415 .1964E-03 .996	29 3 912.75743 1289.966 .5160E-04 .998	29 1 912.76036 1289.960 .2064E-03 .998	34 3 912.80668 1351.928 .3652E-04 .993	34 1 912.81077 1351.922 .1461E-03 .993	32 2 913.37958 1335.746 .8103E-04 .996	32 0 913.38397 1335.740 .1619E-03 .995	30 3 913.95554 1328.717 .4302E-04 .997	30 1 913.95862 1328.711 .1721E-03 .997	33 2 914.56821 1378.354 .6638E-04 .995	33 0 914.57284 1378.348 .1328E-03 .995	31 3 915.15022 1368.752 .3568E-04 .997	31 1 915.15344 1368.746 .1427E-03 .997	34 2 915.75338 1422.244 .5404E-04 .994	34 0 915.75825 1422.238 .1081E-03 .994	32 3 916.34144 1410.071 2939E-04 .996	32 1 916.34482 1410.065 .1175E-03 .996	33 3 917.52919 1452.673 .2408E-04 .996	33 1 917.53273 1452.667 .9632E-04 .996	34 3 918.71346 1496.556 .1959E-04 .995	1 34 1 918.71717 1496.550 .7836E-04 .995		
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Appendix B

Observed and Calculated FTS Spectra of ν_{12} ¹³C¹²CH₆

Top trace:

Observed at p = 1.05 Torr, $\ell = 1.5$ m and T = 294 K.

Middle trace:

2

Calculated at p = 1.05 Torr, $\ell=1.5$ m and T = 294 K. Spectrum shown on a scale from 0% to 100% transmission.

Bottom trace:

Same as middle trace. Spectrum shown on a blown up scale from 90% to 100% transmission.



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13. ABSTRACT (Maximum 200 words) The recent discovery of the n Neptune, added ethane to the The increased spectral resolut Saturn and Titan may enable of the v ₁₂ fundamental under spectra. High resolution spe Kitt Peak Fourier Transform molecular constants in a syn and K=20 have been determ measurements, a vibrational covering the region from 74 intensities, and lower state ether state ether in the synthesis of the synthes	minor isotopomer of ethane, ¹³ C e molecules which can be used ation and coverage of the IR an e the detection of the minor isoto controlled laboratory condition ectra of the minor isotopomer ¹³ (FTS) and the Goddard Tunab metric top Hamiltonian, transi ined with a standard deviation of dipole moment for the v_{12} fund 0cm ⁻¹ and to 910cm ⁻¹ are presenergies are included for general	$C^{12}CH_6$, in the planetary a to determine isotopic ¹² C d far-IR instruments to b opomer. Accurate frequent are important to interpart $C^{12}CH_6$ have been record le Diode Laser spectrom tion frequencies of the v of less than 0.0005 cm ⁻¹ amental has been derive nted. A compilation of the l use in the astronomical	tmospheres of Jupi ¹² C ratios for the jo e carried on the Ca ency and cross-sect et current and futur ed in the 12.2 μ m r eter (TDL). In a gl fundamental rang From selected line d. Observed and ca ransition frequencie community.	ter and ovian planets. ssini mission to tion measurements re planetary region using the obal fit to 19 ing up to J=35 e intensity deculated spectra es, line	
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