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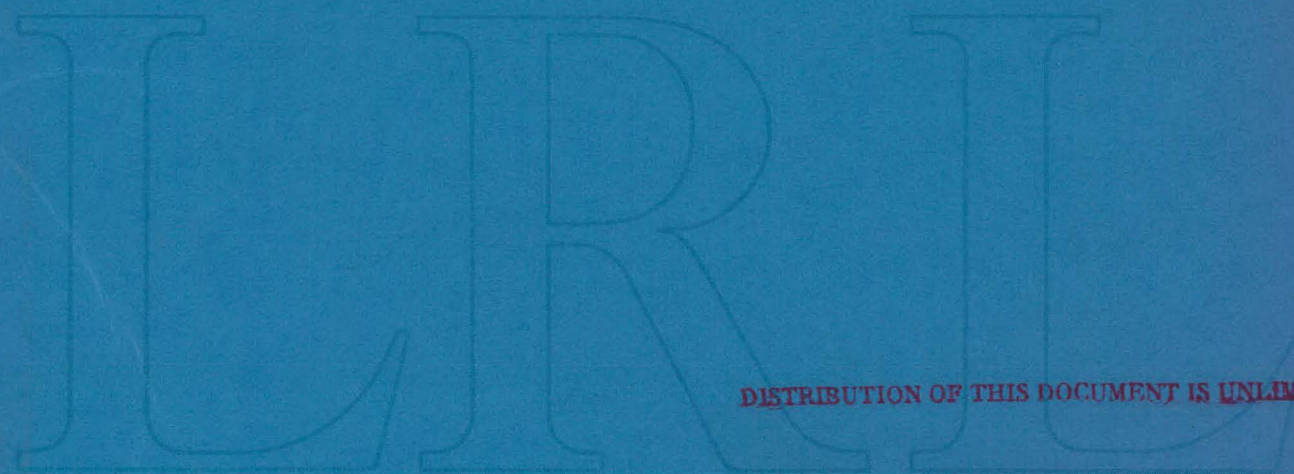
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PRELIMINARY LEVEL ANALYSIS OF THE FIRST AND
SECOND SPECTRA OF DYSPROSIUM, Dy I AND Dy II

John G. Conway and Earl F. Worden

August 1970

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Preliminary Level Analysis of the First and Second Spectra of Dysprosium,
Dy I and Dy II.*

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ABSTRACT

Accurate wavelengths and wave numbers of over 22,000 dysprosium lines have been measured in the wavelength region 2300 to 11,400 Å. The Zeeman effect has been observed at a field strength of 24,000 G from 2300 to 9000 Å. By comparison of relative intensities of the lines from sources under various conditions, 85% of the lines have been assigned as Dy I or Dy II spectrum lines. From the energy level analysis, 141 even and 197 odd levels of Dy I are known. Combinations between these levels account for 1952 lines. For Dy II, 14 even and 214 odd levels are known with 1000 lines classified. The ground levels of Dy I and Dy II are $4f^{10}6s^2 5I_8$ and $4f^{10}6s 6I_8 1/2$, respectively. The lowest level of the $4f^9 5d6s^2$ configuration of Dy I lies 7565.62 cm^{-1} above the ground level. The g-values for most of the levels of both spectra are given.

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INDEX HEADINGS: Dysprosium, Spectra, Zeeman Effect, Wavelengths.

To date little information on the energy levels of the first and second spectra of dysprosium has appeared in the literature. As early as 1914, Paulson¹ reported an energy interval of 828 cm^{-1} for the Dy II spectrum. Meggers² confirmed this interval in 1942 as the ${}^6I_{8 \ 1/2}$ to ${}^4I_{7 \ 1/2}$ interval of that spectrum. In a report to the Triple Commission for Spectroscopy in 1960, C. E. Moore³ cites a private communication from K. L. Vander Sluis giving the next two levels as ${}^6I_{7 \ 1/2}$ at 4341.12 cm^{-1} and ${}^4I_{6 \ 1/2}$ at 4755.70 cm^{-1} . The only level information for Dy I is the atomic beam g-value of 1.24166 which indicates that the ground state is the 5I_8 level of the $4f^{10}6s^2$ configuration.⁴

A thesis by J. M. Blank⁵ contains considerable Zeeman effect data for Dy II. Other experimental information useful in a term analysis is the temperature classification work by King.^{6,7,8} Wavelength listings available⁹ are either not complete enough or accurate enough to be useful for extensive level analyses of the spectra.

Our interest in dysprosium began in 1962 with the view that the information available on its spectra would be useful in an investigation of the californium spectra when samples of that element became available. The references cited above contained all the information available at that time on the Dy I and II spectra. The information was certainly not sufficient to be of significant aid in our planned study of the Cf spectra.

To remedy this, we have photographed wavelength and Zeeman effect spectra of Dy from 2300 to 9100 Å and additional wavelength spectra from 9100 to 11,400 Å. Electrodeless lamps that emit predominantly first and second

spectrum lines were used as sources.^{10,11} A listing of over 22,000 lines of Dy was assembled from these data, and the spectrum assignment of 85% of the lines as belonging to the first or second spectrum of Dy was accomplished for the 2300 to 10,000 Å region. In addition, lines showing self-reversal in lamps operated at high temperature were identified.

With this information, we have carried out preliminary energy level analyses of the Dy I and Dy II spectra. All the levels of the ground terms have been determined for both spectra. These terms arise from the even configurations $4f^{10}6s^2$ and $4f^{10}6s$ in Dy I and Dy II, respectively. Many levels of the lowest odd configuration $4f^9 5d6s^2$ in Dy I have been identified. The lowest level in this configuration is 7565.62 cm^{-1} above the 5I_8 ground level.

The analyses have lead to the classification of over 2952 lines of dysprosium or about 13% of the observed lines and 50% of the intensity of the observed spectrum. As these numbers indicate, the analyses are far from complete. However, publication at this time is prompted by the pressure of our work on the observation and analysis of the spectra of the actinides Cm, Bk, Cf, and Es now in progress. Investigators at Oak Ridge National Laboratory, Laboratory Aimé-Cotton (Orsay) and the Zeeman Laboratory (Amsterdam) plan to continue the energy level analyses of dysprosium.

EXPERIMENTAL PROCEDURE

Wavelengths

Electrodeless lamps containing the single isotope ^{162}Dy as the triiodide sealed in quartz tubes 3 mm i.d. and about 22 mm long were used as sources. The lamps were prepared and operated using procedures described previously.^{10,11}

Spectra for wavelength determination and for Zeeman effect studies were photographed with the Argonne National Laboratory 9.15 m Paschen-Runge spectrograph.^{12,13} The wavelength range 2300 to 9100 Å was covered using this instrument. By use of different filter and emulsion combinations, this wavelength range was divided into five independently photographed regions. In this manner, each region was photographed in the number of grating orders desired. The Zeeman effect was observed at a field strength of 24,000 G. Additional wavelength spectra for the 9100 to 11,400 Å region were photographed with a 3.4 m Ebert spectrograph provided with a 300 lines/mm grating used at angles between 27 and 34 deg. The reciprocal linear dispersions were about 3 Å/mm for third order lines and about 2 Å/mm for fourth order lines.

Other spectra for spectrum assignment and for reversal studies were photographed with the Ebert spectrograph using the grating near its two blaze angles, 30 and 59 deg. At the higher angles, spectra from the eighth through the twenty-fifth orders were observed. The orders were separated by use of a Perkin-Elmer model 160 fore-prism monochromator provided with various prisms. The use of appropriate Hartmann diaphragms at the preslit of the fore-prism monochromator allowed suitable positioning of spectra on the plates.

Most of the plates for wavelength determination were measured with the University of California Astronomy Department's semi-automatic comparator.¹⁴

The remainder of the plates was measured on a Grant Instruments comparator. Both comparators are similar to one described by Tomkins and Fred^{13,15} and our measurement methods were similar to theirs. A computer program calculates wavelengths by fitting the measured positions of thorium reference spectrum lines and their interferometric wavelengths to a fourth-degree polynomial equation.¹⁶ The computer program calculates the standard air wavelengths and the vacuum wave numbers for each of the measured line positions in the proper orders of the grating as described by Tomkins and Fred.¹³

Since each line position measurement may generate one to four possible wavelengths, real values were determined by the appearance of the wavelength two or more times in the list. Lines were also confirmed by their appearance on the spectrum assignment plates taken with the orders separated. To facilitate the search for real values, a computer program called Consort was written to sort all calculated values in order of increasing wave number and average all values which were within a specified wave number interval from one another, e.g., 0.03 cm^{-1} for the Dy spectrum. The program produced the average wave number and wavelength, the maximum intensity reading for the group, the number of values used and the average deviation for each average. This information was punched on cards and printed. The printout also contained the values used in each average as well as all the entries not used in averages. The accepted averages were selected by carefully checking each one, eliminating false averages and correcting those averages where errors were found.

From more than 60,000 line position measurements, over 120,000 values were calculated which yielded a line list of over 22,000 lines. The wavelengths

of common impurities (e.g. Al, Mg, Ca, Fe, Ti) as well as the sensitive lines of other elements were searched for and eliminated. The wave number precision (or the internal consistency) of the line list as determined from the energy level analysis is about $\pm 0.01 \text{ cm}^{-1}$. The average deviations for multiple measurements are: $\pm 0.0013 \text{ \AA}$ at 3000 \AA , $\pm 0.0023 \text{ \AA}$ at 5000 \AA , $\pm 0.0025 \text{ \AA}$ at 7000 \AA , and $\pm 0.02 \text{ \AA}$ above 9100 \AA .

Spectrum Assignment

Electrodeless lamps emit lines of both the first and second spectrum. The separation of lines according to their spectrum is a very important step for any energy level analysis, especially for elements with spectra as complex as dysprosium. Two methods were employed in our study of the Dy spectrum. In one method, the intensity of lines emitted by an electrodeless lamp at low and high Dy vapor pressure was used.¹¹ Second spectrum lines are relatively stronger at low Dy pressure and first spectrum lines are relatively stronger at high Dy pressure. This method has proven successful for several elements.^{11,17-20} In the second method, the relative intensities of the lines emitted by a spark between Dy metal electrodes and by an electrodeless lamp at high Dy pressure were compared. The second spectrum lines were relatively more intense in the spark and the first spectrum lines more intense in the lamp.

The information from these methods was supplemented by the temperature classification of King.⁸ The results of the three methods were compared in various regions of the spectrum. For the two methods we used, the agreement for 410 lines was 88%. The agreement of our assignments with those by King

for 510 lines was 85%. Most of the discrepancies occurred with the weak lines. The confidence level for spectrum assignment is about 85% for the Dy spectrum. This is much poorer than the agreement obtained for Gd¹¹ and the excellent results reported for Pa.^{17,18}

Of over 22,000 lines of Dy, 44% are assigned as first spectrum lines and 41% are assigned as second spectrum lines. Most of the unassigned lines are weaker lines or near-infrared lines.

Zeeman Effect

The Zeeman effect was photographed from 2300 to 9100 Å at a field strength of 24,000 G. We have completed measurements for the 4000 to 9100 Å region and have measured certain regions below 4000 Å to obtain g-values for the low levels of Dy II and to confirm some assignments. The Zeeman effect of all strong lines from 2600 to 9100 Å was examined to determine the type of Zeeman pattern. The types of Zeeman patterns are defined in Fig. 1.

Our data for resolved Zeeman patterns were reduced by a computer program²¹ employing least squares methods.²² These patterns give explicit J-values and accurate g-values. The majority of the Zeeman patterns for Dy were unresolved, especially for Dy I. These patterns were measured following a method described by Blank⁵ that allows the determination of g-values when the J-values of the combining levels can be deduced from the classification of the line. The distances measured (2A and 2B) and the formulas for determining the g-values are given in Fig. 1 for each type of Zeeman pattern.

The accuracy of the g-values reported in this paper is ± 0.003 Lorentz units for the values with three figures after the decimal point and about

± 0.01 Lorentz units for the values with two figures after the decimal point. The accurate values are from resolved Zeeman patterns, while the less accurate values are from the unresolved patterns plus a few inaccurate values from resolved patterns.

Self-Reversal

Spectra from Dy lamps operated at high power in a one inch cavity¹¹ showed 254 lines with self-reversal. Self-reversed lines usually involve transitions to low lying levels.¹¹ These lines served as a starting list for our energy level analysis of Dy I. The list included 41 Dy II lines, all of which involved combinations with the lowest levels of Dy II.

Of the 254 self-reversed lines, 242 or 95% are classified and involve transitions to the low lying levels of Dy I and Dy II. The lower levels of some reversed lines were as high as $15,567 \text{ cm}^{-1}$. The most strongly reversed lines involved transitions to levels below $10,000 \text{ cm}^{-1}$.

ENERGY LEVEL ANALYSIS

Dy I Levels

A search of the self-reversed line list for constant intervals yielded two intervals that appeared to be significant, 4134.23 and 953.58 cm^{-1} . The 4134 cm^{-1} interval was close to the value of 4160 cm^{-1} predicted by theory²³ for the 5I_8 to 5I_7 interval of the $4f^{10}6s^2$ configuration. Examination of the Zeeman effect of several of the lines yielding the interval confirmed that the levels involved were the 5I_8 ground level with $g = 1.242$ and the 5I_7 level with $g = 1.175$. The g -value for the 5I_8 level was in good agreement with the atomic beam value. Examination of the temperature classification data of King⁸ gave further evidence that the 5I_8 level was the ground level. In a search of lines of Temperature Class I (i.e. those lines most easily excited in the furnace), the 4134 cm^{-1} interval was prominent but the 953 cm^{-1} interval did not appear. Thus the 5I_8 level was placed lowest and the $4f^{10}6s^2$ configuration set as the ground configuration. This was confirmed later when the intercombination between the 5I_8 levels and the 953 cm^{-1} levels was found.

The remainder of the 5I term levels were built on the 5I_8 and 5I_7 levels using searching programs²⁴ and Zeeman effect information. The Zeeman effect was especially useful for finding the $J = 5$ and the $J = 4$ levels which did not appear in early computer searches. Lines involving levels with J 's of 6, 5, and 4 were picked out by examining their Zeeman effect and these patterns were measured to determine the g -values of the combining levels. Those lines that gave g -values near the values predicted for the levels of the 5I term were used in searches that yielded the 5I_5 and 5I_4 level positions. The levels and g -values found for the 5I ground term of Dy I are given in Table I

together with the values calculated from theory. The agreement between the experimental and the calculated values is very good.

The calculated values were obtained by diagonalization of the matrices for f^{10} by use of computer programs developed by Mehlhorn.²⁵ In these calculations, the fitting program minimizes the RMS deviation between the calculated and the observed energies of the levels. In addition to the energies, the output from the program gives the compositions and the calculated g-values for the levels. The notation employed for the compositions is that of Nielson and Koster.²⁶

For the evaluation of f^{10} , we fixed the 4f hydrogenic Racah parameters and varied only the spin-orbit parameter, $\zeta(f)$. The final values are given at the bottom of Table I. The value of 1751.1 cm^{-1} obtained for $\zeta(f)$ is in good agreement with values reported by Judd and Lindgren²⁷ and by Reader and Davis.¹⁹

Most of the levels of the 953 cm^{-1} system were thought to belong to the $4f^9 5d 6s^2$ configuration of Dy I. To determine if this was true, a calculation of the $f^9 ds^2$ configuration was necessary. By use of a program written by Mehlhorn,²⁵ the matrix elements for this configuration were calculated for the 17 multiplets that have significant composition in the low levels of the f^9 configuration.²³ A trial diagonalization was performed with these matrices and with reasonable values of the parameters. The results obtained indicated a level with $J = 8$ as the lowest level of the configuration, and a level with $J = 7$ at 935 cm^{-1} followed by a level with $J = 9$ at 2201 cm^{-1} . These values of energy agreed well with the experimental values of 953.58 cm^{-1} and 2425.35 cm^{-1} . The Zeeman effect information confirmed the J-value relations, but did not

give explicit J-values until later in the analysis because almost all the lines resulting from combinations with these levels have unresolved Zeeman patterns.

Knowledge of the J-values of the levels of the 953 cm^{-1} system made possible a search for the intercombination between the two level systems. Low odd levels determined from the 5I_8 and 5I_7 levels were used to find high even levels that were then used to find additional low odd levels. The lowest odd level at 7565.62 cm^{-1} was separated by the 953 and 2425 cm^{-1} intervals from the next two levels. Thus, the lowest level of $4f^9 5d6s^2$ is 7565.62 cm^{-1} above the ground 5I_8 level. A number of the levels of the $f^9 ds^2$ configuration lying above $12,000 \text{ cm}^{-1}$ have transitions to the ground level. The wave numbers of these combination lines agree with the energies of the levels to within $\pm 0.01 \text{ cm}^{-1}$.

We have been able to attribute 13 levels to the $4f^9 5d6s^2$ configuration. Two of these are levels with $J = 6$ found by K. L. Vander Sluis (Oak Ridge Laboratory) to lie at 10088.81 and at 11673.51 cm^{-1} . The energies and g-values for the 13 levels are listed in Table II together with the values calculated from theory. Many diagonalizations were performed, varying the parameters to obtain a better fit and to predict the positions of additional levels. In the diagonalizations, all of the parameters except F^0 , $\zeta(f)$ and $\zeta(d)$ were fixed. Values for the parameters G^1 , G^3 , G^5 , F^2 , and F^4 for (fd) were taken from Arnoult and Gerstenkorn.²⁸ In all cases, only the spin-orbit constants for the parameters are given at the bottom of Table II. The calculated level positions and g-values are given in columns 3 and 6. The agreement between the calculated and experimental g-values is good and the energy level fit is fair.

All the levels found for Dy I are listed in Table III. The energy, parity and J-value are listed in the first three columns. Values of g were obtained for most of the levels and are contained in column 4. The term assignment for the level is given in column 5 and the configuration in column 6. They are designated only for the lowest levels. No attempt has been made to assign terms or configurations to the high energy levels. A number of the levels in the table are noted with an F following the energy value. These levels were determined by fit of a limited number of combinations and were not confirmed by Zeeman effect data. Hence, these levels are less well substantiated than the rest of the levels. Levels without a g-value or an F are based on a large number of combinations (greater than 7) or they are confirmed by Zeeman effect information but a g-value has not been determined.

There is a total of 141 even and 197 odd levels. The wave numbers of all possible combinations between these levels were calculated using $\Delta J = \pm 1$ or 0 and the Laporte rule as the only selection rules. The line list was searched to find if a line occurred within $\pm 0.04 \text{ cm}^{-1}$ of the calculated wave number. Table IV is a listing of 1952 lines classified in this manner. The vacuum wave number and air wavelength are given in columns 1 and 2, the estimated intensity and line character (defined at the end of the Table) are listed in column 3. Column 4 gives the spectrum assignment, columns 5 and 6 the J-values, columns 7 and 8 the g-values, and column 9 the Zeeman type as defined in Fig. 1. The levels that combine to yield the line are given in columns 10 and 11. Fifteen of the lines have no intensity indicated because the Zeeman effect or the spectrum assignment showed that the majority of the intensity at that wave number could not be attributed to that classification.

The 1952 classified lines account for 19% of the Dy I lines and an estimated 50% of the intensity of this spectrum.

Dy II Levels

With the four low even published levels as a starting point, the remaining six levels of the 6I and 4I terms were found. These are the lowest terms from the ground configuration $4f^{10}6s$. All the self-reversed Dy II lines are classified as combinations involving the lowest levels of these terms. Also, the levels of these two terms account for a large number of the lines in King's list⁸ with Temperature Class IIIIE (II-spectrum lines most easily excited in the furnace). This is conclusive evidence that the ground electron configuration of Dy II is $4f^{10}6s$. Four other even levels that we attribute to this configuration have been found.

The ten 6I and 4I levels arise from the removal of an s electron from the $f^{10}s^2$ configuration. Figure 2 is a plot of the levels of the 5I multiplet of Dy I and 6I and 4I multiplets of Dy II adjusted so that the 5I_8 level is centered between the ${}^6I_{8\ 1/2}$ and ${}^4I_{7\ 1/2}$ levels. The figure clearly illustrates how each 5I level is split by removal of the s electron to form $f^{10}s$.

The matrices for the $f^{10}s$ configuration have been diagonalized and the levels fitted. In the calculations, the F^k 's were fixed at the 4f hydrogenic values²³ while $G^3(fs)$, the spin-orbit constant $\zeta(f)$ and F^0 were varied for the fit of the ten 6I and 4I levels. For the fit of 12 levels, the values of $G^3(fs)$ and $\zeta(f)$ were fixed at the values determined in the ten-level fit and F^0 , F^2 , F^4 , and F^6 were varied. The results are shown in Table V together with the experimental results. The fit on energy alone gave an RMS deviation

for the 12 levels of $\pm 45 \text{ cm}^{-1}$ and calculated g-values that are in excellent agreement with the experimental values. The value for $G^3(\text{fs})$ of 1478 cm^{-1} agrees well with the almost constant value of 1450 cm^{-1} expected for rare earths.^{29,30,31}

The fourteen even levels were used to determine 214 odd levels. Table VI is a listing of all the levels of Dy II. The J's for most of the odd levels are substantiated by Zeeman effect data. Values of g were obtained for most of the levels. Vander Sluis and McNally have reported g-values for 10 low even levels and 77 upper odd Dy II levels.³² The agreement of g-values is within the error limits of the two investigations.

Levels in Table VI that were determined from a fit of 5 or less combinations and that were not substantiated by Zeeman effect observations are indicated by an F following the energy of the level. The J-values of these levels are doubtful. Levels with a J of $9 \frac{1}{2}$ were determined from Zeeman effect measurements and reversal. These levels are based on one combination involving a Dy II self-reversed line having a g-value in agreement with the value for the ${}^6\text{I}_{8 \frac{1}{2}}$ ground level.

Term assignments are given only for the twelve lowest levels and the configuration is given only for the lowest fourteen levels. No attempt was made to make term or configuration assignments for the higher levels of Dy II.

All possible combinations between the 14 even and 214 odd levels were calculated observing only the $\Delta J = \pm 1$ or 0 and the Laporte selection rules. The line list was searched to find if a line occurred within $\pm 0.01 \text{ cm}^{-1}$ of the calculated wave number. The 1000 lines classified in this manner are listed in Table VII. All the pertinent information is given for each line in the same

format as used for the Dy I classified lines, Table IV. The 1000 classified lines account for 11% of the Dy II lines and roughly 40% of the intensity of this spectrum.

CONCLUSION

The ground electronic configurations and all the levels of the ground terms of Dy I and Dy II have been identified. A number of levels of both spectra are known but no interpretation of the high energy levels has been attempted. The identification of upper levels is necessary to determine the $4f^{10} 6s ns$ and the $4f^{10} ns$ series for use in the calculation of the ionization potentials of Dy I and Dy II.

While the known levels explain most of the very intense lines in the Dy I and Dy II spectra, the majority of the lines of both spectra remain unclassified. Levels of the $4f^9 5d6s$ configuration of Dy II have not been identified, but by analogy with Dy I, the lowest levels of this configuration probably lie near $10,000 \text{ cm}^{-1}$. Complete measurement of the Zeeman effect below 4000 \AA should be a great aid in advancing the analyses of these spectra.

WAVELENGTH LIST

Table VIII is a complete listing of the 22858 observed lines of dysprosium. Columns 1, 2, and 3 are the vacuum wave numbers, air wavelength, and the estimated intensity and line characters (defined at the end of the Table). Column 4 gives the spectrum assignment (SA), columns 5 and 6 the J values (J-0; J-odd: J-E; J-even), columns 7 and 8 the g values (g-0; g-odd: g-E; g-even). Column 9 is the Zeeman type as defined in Table I. Column 10 and 11 are the values of the level that combine to yield the line.

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FOOTNOTES AND REFERENCES

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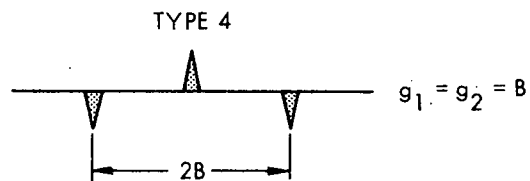
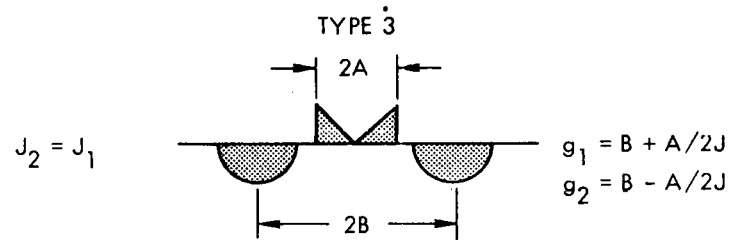
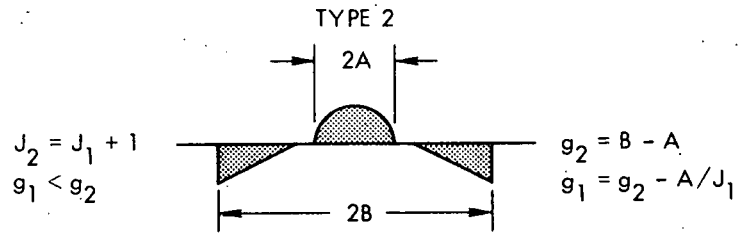
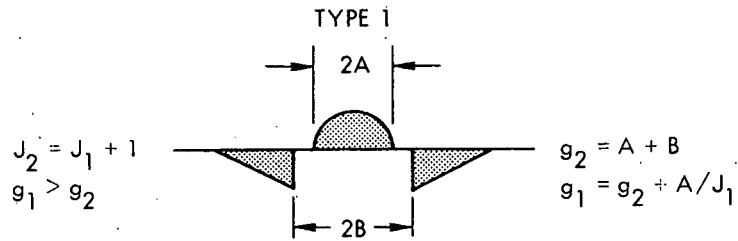
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FIGURE CAPTIONS

Fig. 1. Types of Zeeman patterns and formulas for the determination of g-values from unresolved patterns.

Fig. 2. Energy level plot of the 5I multiplet of Dy I and 6I and 4I multiplets of Dy II showing the effect of removing the s electron from the $4f^9 6s^2$ configuration.



TYPE A

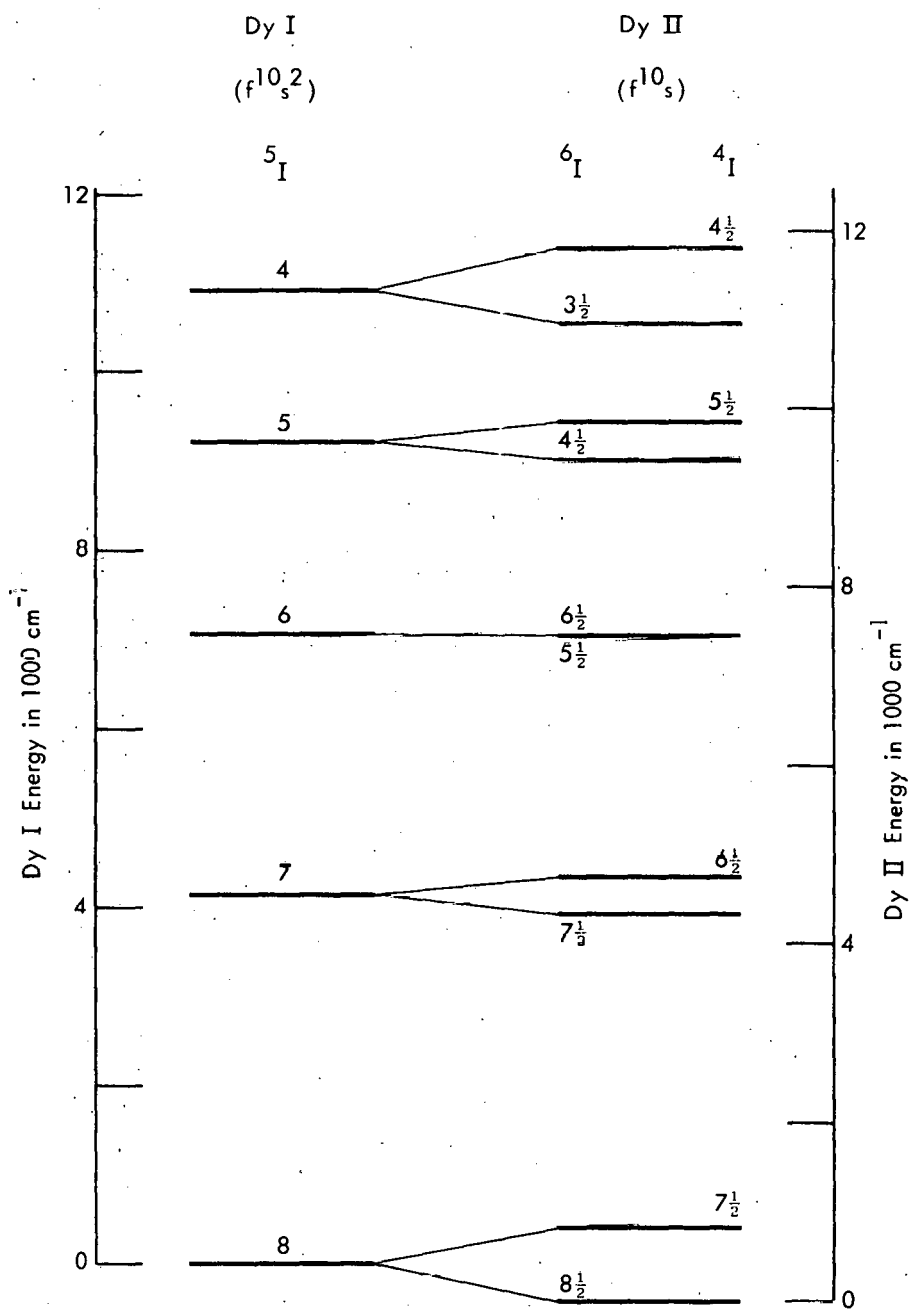
$J_1 \neq J_2$ but could not determine which g was largest.

TYPE P

Pattern perturbed.

XRI. 708-1927

Fig. 1



XBL 708-1928

Fig. 2

Table I . Observed and calculated energy levels, g-values, and eigenvector composition for the $4f^{10}6s^2$ configuration of Dy I.

J	Energy (cm^{-1})		g		Composition*
	Obs	Calc	Obs	Calc	
8	0.00	27	1.242 (1.24160) ^a	1.244	0.9721 5I 0.1069 3K1 -0.2047 3K2
7	4134.23	4092.2	1.175 (1.17347) ^a	1.175	-0.9876 5I 0.1341 3K2
6	7050.61	7027.8	1.073 (1.07155) ^a	1.073	-0.9825 5I -0.1152 3H4
5	9211.58	9224.7	0.911	0.908	0.9691 5I -0.1201 3H3 0.1673 3H4
4	10925.25	10947.3	0.618	0.615	0.9613 5I -0.1084 3H1 -0.1447 3H3 0.1971 3H4

$$E^1 = 6256.78$$

$$E^2 = 32.57$$

$$E^3 = 632.41$$

$$\zeta(f) = 1751.05$$

5 levels

Mean Diff. 25.5 cm^{-1} RMS Dev. 27.8 cm^{-1}

$$\text{RMS Dev.} = [\sum_i \Delta^2 / N - K]^{1/2}$$

 Δ , difference between calculated and observed

N, number of levels

K, number of variable parameters

* Only values greater than 0.1 are listed.

^a Atomic beam values from W. J. Childs, Phys. Rev.

(1970).

Table II . Observed and calculated energy levels, g-values, and eigenvector compositions of the $4f^9 5d 6s^2$ configuration of Dy I.

J	Energy (cm^{-1})		g		Composition*
	Obs	Calc	Obs	Calc	
8	7565.62	7674.1	1.362 (1.35246) ^a	1.356	-0.1724(6F)7H 0.8789(6H)7H -0.1601(6H)5I 0.3821(6H)7I -0.1309(4I3)5I
7	8519.22	8532.7	1.336	1.345	0.1609(6F)7H -0.4837(6H)7G 0.1610(6H)5H -0.7645(6H)7H 0.1085(6H)5I -0.3009(6H)7I
9	9990.97	9843.4	1.32	1.320	-0.9229(6H)7I 0.1982(6H)5K -0.2960(6H)7K 0.1364(4I3)5K
6	10088.81	9892.2	1.36	1.370	0.1424(6F)7F 0.1363(6F)7H -0.5114(6H)7F -0.5058(6H)7G 0.1175(6H)5H -0.5868(6H)7H -0.2089(6H)7I
6	11673.51	11556.6	1.392	1.387	0.2171(6F)7F -0.1397(6F)7H -0.7014(6H)7F

(continued)

Table II . (continued)

J	Energy (cm^{-1})		g		Composition
	Obs	Calc	Obs	Calc	
					0.1024(6H)5G 0.5583(6H)7H 0.2945(6H)7I 0.1065(4I3)5G
8	12007.11	12037.7	1.28	1.286	0.1246(6F)7H -0.3991(6H)7H -0.3034(6H)5I 0.7652(6H)7I -0.1844(6H)5K 0.3133(6H)7K -0.1040(4I3)5K
7	12655.14	12324.2	1.36	1.351	0.1001(6F)7G -0.7580(6H)7G 0.2561(6H)7H -0.1621(6H)5I 0.5227(6H)7I 0.1461(6H)7K 0.1037(4I3)5H
10	12892.77	12965.0	1.29	1.298	0.9877(6H)7K -0.1564(4I3)5L
9	13495.94	13373.2	1.23	1.244	-0.3403(6H)7I -0.7375(6H)5K 0.5613(6H)7K 0.1114(4I3)3L

(continued)

Table II. (continued)

J	Energy (cm^{-1})		g		Composition
	Obs	Calc	Obs	Calc	
					0.1024(6H)5G 0.5583(6H)7H 0.2945(6H)7I 0.1065(4I3)5G
8	12007.11	12037.7	1.28	1.286	0.1246(6F)7H -0.3991(6H)7H -0.3034(6H)5I 0.7652(6H)7I -0.1844(6H)5K 0.3133(6H)7K -0.1040(4I3)5K
7	12655.14	12324.2	1.36	1.351	0.1001(6F)7G -0.7580(6H)7G 0.2561(6H)7H -0.1621(6H)5I 0.5227(6H)7I 0.1461(6H)7K 0.1037(4I3)5H
10	12892.77	12965.0	1.29	1.298	0.9877(6H)7K -0.1564(4I3)5L
9	13495.94	13373.2	1.23	1.244	-0.3403(6H)7I -0.7375(6H)5K 0.5613(6H)7K 0.1114(4I3)3L

(continued)

Table II . (continued)

$G^1(\text{fd}) = 6300.0$ fixed	$\text{RMS Dev.} = [\sum_i \Delta^2 / N - K]^{1/2}$
$G^3(\text{fd}) = 5509.0$ fixed	Δ , difference between calculated and
$G^5(\text{fd}) = 4467.0$ fixed	observed
$F^2(\text{fd}) = 15120.0$ fixed	N , number of levels
$F^4(\text{fd}) = 9771.3$ fixed	K , number of variable parameters

* Only values greater than 0.1 are listed.

^a Atomic beam value from W. J. Childs, Phys. Rev. (1970).

TABLE CAPTIONS

Table III. Energy levels of Dy I.

Table IV. Classified lines of Dy I.

Table VI. Energy levels of Dy II.

Table VII. Classified lines of Dy II.

TABLE III
(pp. 29-32)

ENERGY	P	J	G	SL	CONF	ENERGY	P	J	G	SL	CONF
	EVEN LEVELS										
0.0	E	8.0	1.242	51	F10S2	30716.06	E	9.0	1.26		
4134.23	E	7.0	1.175	51	F10S2	30739.79	E	8.0	1.32		
7050.61	E	6.0	1.073	51	F10S2	30979.53	E	8.0	1.26		
9211.58	E	5.0	0.911	51	F10S2	31124.80	E	7.0	1.34		
10925.25	E	4.0	0.618	51	F10S2	31287.04	E	9.0	1.35		
20614.34	E	7.0	1.32			31674.03	E	7.0	1.31		
20789.86	E	8.0	1.32			31775.65	E	9.0			
23218.59	E	9.0	1.37			31820.28	F	8.0	1.204		
23534.50	E	8.0	1.31			32036.51	F	7.0	1.32		
23591.27	E	7.0	1.26			32206.27	E	9.0	1.24		
23780.27	E	9.0	1.34			32382.29	E	7.0	1.37		
23799.42	E	7.0	1.38			32411.25	F	7.0	1.32		
24867.17	F	6.0	1.33			32428.66	F	8.0			
24899.07	E	6.0	1.35			32554.86	E	8.0	1.27		
25095.67	E	8.0	1.39			32675.52	E	8.0	1.27		
25879.15	E	7.0	1.35			32722.87	E	7.0	1.33		
26349.48	E	8.0	1.34			32763.21	E	9.0	1.29		
26752.29	E	10.0	1.36			33086.26	E	9.0	1.29		
26848.46	E	7.0	1.28			33246.13	E	8.0	1.24		
27059.89	E	8.0	1.29			33252.28	E	9.0	1.31		
27390.07	E	9.0	1.35			33406.06	E	8.0	1.31		
27445.90	E	8.0	1.34			33474.30	E	6.0	1.37		
27474.54	E	6.0	1.35			33475.72	E	7.0	1.33		
27896.80	E	8.0	1.33			33552.39	E	7.0	1.28		
27959.98	E	7.0	1.36			33753.11	E	8.0	1.31		
27987.90	E	6.0	1.32			33806.12	E	7.0	1.204		
28158.51	E	9.0	1.33			34174.66	E	9.0	1.31		
28326.48	E	6.0	1.33			34676.95	E	8.0	1.24		
28358.70	F	7.0	1.35			34679.75	E	6.0	1.488		
28539.57	E	8.0				34689.19	E	9.0	1.28		
28971.42	E	8.0	1.35			34742.84	E	7.0	1.34		
29291.32	E	8.0	1.36			34829.30	E	9.0	1.27		
29465.04	E	9.0	1.32			34843.11	E	7.0	1.29		
29512.27	E	7.0	1.36			35003.75	E	7.0	1.31		
29682.16	E	6.0	1.36			35053.56	E	8.0	1.32		
29706.72	E	10.0	1.32			35219.85	F	9.0	1.28		
29714.72	E	9.0	1.31			35249.13	E	8.0	1.32		
29841.69	E	8.0	1.32			35377.51	E	8.0	1.28		
29877.37	E	7.0	1.38			35385.78	E	10.0	1.27		
30444.88	E	7.0	1.30			35744.63	E	6.0	1.32		
30459.64	E	9.0	1.26			35762.55	E	9.0	1.32		
30475.95	E	6.0	1.34			35938.74	F	8.0	1.35		
30560.56	E	9.0	1.32			35940.35	E	9.0	1.32		
30600.15	E	8.0	1.31			35970.10	E	6.0	1.40		
30621.87	E	7.0	1.27			36093.54	E	6.0	1.27		

ENERGY	P	J	G	SL	CONF	ENERGY	P	J	G	SL	CONF
19182.66	0	6.0	1.036			23832.08	0	8.0	1.32		
19688.59	0	8.0	1.22			23877.74	0	8.0	1.29		
19811.49F	0	7.0				23985.70	0	9.0	1.22		
19813.98	0	5.0	1.270			24040.59	0	6.0	1.26		
19907.50	0	7.0	1.23			24204.18	0	8.0	1.30		
20341.32	0	8.0	1.23			24491.79	0	5.0	0.86		
20485.40	0	7.0	1.375			24634.07	0	5.0	1.210		
20554.73	0	6.0	1.11			24708.96	0	7.0	1.26		
20766.29	0	7.0	1.16			24906.86	0	7.0	1.14		
20793.94	0	8.0	1.22			24999.58	0	8.0	1.19		
20817.61	0	6.0	1.13			25012.21	0	8.0	1.34		
20822.68F	0	7.0				25133.60F	0	7.0			
20921.55	0	5.0	1.30			25825.83	0	6.0	1.00		
20954.17	0	7.0	1.410			25868.00	0	6.0	1.30		
21418.43F	0	6.0				25912.63	0	5.0	1.03		
21456.60	0	6.0	1.07			26846.21	0	7.0			
21529.73	0	9.0	1.25			26868.07	0	8.0	1.24		
21616.61	0	7.0	1.25			27014.02	0	9.0	1.23		
21675.28	0	7.0	1.22			27319.08	0	8.0	1.22		
21699.20F	0	6.0				27427.08	0	7.0	1.08		
21783.42	0	7.0	1.15			27556.34	0	7.0	1.24		
21838.55	0	9.0	1.25			27817.99	0	8.0	1.21		
21899.22	0	8.0	1.20			27834.93	0	7.0	1.22		
21998.99F	0	6.0				27837.54	0	7.0	1.26		
22061.29	0	7.0	1.18			27851.43	0	8.0	1.24		
22099.06	0	4.0	1.059			27984.50	0	7.0	1.24		
22294.88	0	5.0	1.02			28029.68	0	8.0	1.09		
22524.21	0	5.0	1.04			28177.14	0	8.0			
22535.39F	0	4.0				28197.66	0	6.0	1.10		
22564.76	0	8.0	1.07			28518.30	0	8.0	1.26		
22599.59F	0	4.0				28795.26	0	8.0	1.22		
22633.23	0	6.0	1.29			29119.11	0	9.0	1.20		
22889.49F	0	7.0				29375.93F	0	6.0			
22938.03	0	4.0				29850.91	0	4.0			
23130.88F	0	5.0				29878.69	0	7.0	1.32		
23257.30F	0	7.0				29949.73F	0	7.0			
23440.46	0	5.0	1.36			30224.80F	0	6.0			
23464.02	0	6.0	1.18			30426.59	0	6.0	1.227		
23479.77	0	7.0	1.13			30528.36	0	7.0	1.22		
23552.65	0	5.0	1.07			30544.57	0	8.0	1.22		
23686.81	0	4.0	0.767			30566.07	0	7.0	1.39		
23687.87	0	6.0	1.076			30711.70	0	7.0	1.09		
23711.93F	0	5.0				30778.96	0	6.0	1.17		
23717.21	0	9.0	1.30			30840.73	0	6.0	1.269		
23736.60	0	7.0				30904.89	0	5.0	1.286		

ENERGY	P	J	G	SL	CONF	ENERGY	P	J	G	SL	CONF
30946.73	O	5.0	1.267			34213.63F	O	7.0			
31007.53F	O	6.0				34359.80	O	4.0	1.14		
31132.30	O	7.0	1.289			34400.67	O	5.0	1.123		
31200.96	O	5.0	1.310			34470.70	O	5.0	0.915		
31229.29	O	7.0	1.207			34486.89	O	4.0	1.213		
31341.39	O	6.0				34643.21	O	5.0			
31399.49	O	6.0				34720.68	O	4.0	0.761		
31410.95	O	5.0	1.242			34770.30	O	6.0			
31423.02	O	7.0	1.18			34782.33F	O	5.0			
31522.73	O	5.0	1.268			34921.85	O	7.0			
31547.01	O	8.0				35107.23	O	3.0	1.033		
31555.97	O	6.0				35136.67F	O	3.0	1.060		
31698.32	O	7.0				35231.23	O	3.0	0.958		
31878.42	O	7.0				35365.89F	O	5.0			
31900.74	O	9.0	1.24			35894.32	O	8.0			
31946.72	O	7.0				36402.09	O	6.0			
31940.91F	O	5.0				36769.37	O	5.0			
32007.12F	O	7.0				36942.00	O	5.0			
32029.92F	O	5.0				37541.26F	O	5.0			
32082.00	O	6.0				37646.28	O	8.0	1.09		
32111.44	O	6.0	1.119			38251.54F	O	7.0			
32126.16	O	6.0	1.23			38362.64F	O	7.0			
32263.16	O	5.0	1.26			38421.29F	O	7.0			
32359.02	O	5.0	1.223			38779.76F	O	7.0			
32431.61	O	6.0	1.121			39188.23F	O	6.0			
32564.97F	O	7.0				42375.02F	O	6.0			
32607.88	O	6.0	1.230			42479.83	O	5.0			
32790.65	O	6.0	1.178								
32834.29	O	6.0	1.195								
32889.19	O	5.0	1.138								
32970.87	O	6.0	1.177								
33025.64	O	5.0	1.01								
33102.79F	O	5.0									
33139.24	O	5.0	0.89								
33165.75F	O	8.0									
33311.52	O	7.0									
33324.06	O	4.0	0.89								
33342.94F	O	5.0									
33358.83	O	8.0									
33466.26F	O	5.0									
33608.31F	O	5.0									
33721.52	O	8.0									
33788.78F	O	5.0									
33795.02F	O	5.0									
33947.13	O	5.0	1.307								

ENERGY IN WAVENUMBERS
P PARITY, O FOR ODD, E FOR EVEN
J J VALUE
G LANDE G VALUE
S MULTIPLICITY
L TERM
CONF CONFIGURATION
F NOT WELL SUBSTANTIATED

TABLE IV
(pp. 33-76)

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
8782.73	11382.863	1		8.0	8.0				12007-20789
8797.73	11363.454	1		8.0	8.0				23877-32675
8843.45	11304.711	1		8.0	8.0				23832-32675
8908.83	11221.742	10		8.0	8.0				14625-23534
8938.88	11184.020	30		7.0	8.0				23736-32675
8965.60	11150.687	3		8.0	7.0				14625-23591
9005.33	11101.498	10		7.0	7.0				21616-30621
9066.15	11027.020	1		8.0	9.0				19092-28158
9071.31	11020.751	1		7.0	8.0				38362-29291
9102.97	10982.424	0		7.0	7.0				18857-27959
9118.88	10963.260	0		8.0	7.0				28177-37295
9119.49	10962.527	0		7.0	8.0				27837-36954
9130.88	10948.852	1		7.0	6.0				18857-27987
9154.59	10920.489	1		8.0	9.0				14625-23780
9160.54	10913.401	1		7.0	7.0				17687-26848
9166.68	10906.090	3		7.0	8.0				14367-23534
9223.45	10838.967	10		7.0	7.0				14367-23591
9266.38	10788.746	3		8.0	7.0				19092-28358
9267.96	10786.905	1		9.0	9.0				14512-23780
9287.53	10764.178	3		8.0	7.0				37646-28358
9301.73	10747.744	1		6.0	6.0				18172-27474
9349.62	10692.698	1		6.0	5.0				18561- 9211
9368.24	10671.444	3		7.0	8.0				18528-27896
9426.73	10605.228	1		6.0	6.0				18561-27987
9431.44	10599.928	10		7.0	7.0				18528-27959
9431.57	10599.790	10		7.0	7.0				14367-23799
9526.26	10494.426	1		7.0	7.0				18433-27959
9544.83	10474.004	1		8.0	8.0				35894-26349
9672.35	10335.911	3		7.0	6.0				15194-24867
9704.22	10301.973	100		7.0	6.0				15194-24899
9722.57	10282.533	1		9.0	9.0				13495-23218
9776.51	10225.793	3		8.0	9.0				19688-29465
9797.90	10203.471	0		7.0	6.0				18528-28326
9830.14	10170.012	3		7.0	7.0				18528-28358
9892.99	10105.396	3		8.0	7.0				27319-37212
9928.37	10069.385	3		8.0	7.0				23877-33806
9996.87	10000.392	1		8.0	7.0				23877-33475
10011.03	9986.244	1		7.0	8.0				18528-28539
10016.52	9980.767	1		7.0	8.0				23736-33753
10038.55	9958.866	300		9.0	8.0				13495-23534
10072.69	9925.113	10		7.0	7.0				23479-33552
10148.85	9850.632	1		7.0	8.0				23257-33406
10153.58	9846.045	0		6.0	6.0				18172-28326
10188.76	9812.044	0		8.0	7.0				19688-29877
10198.99	9802.204	0		8.0	8.0				19092-29291

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS OCC-EVEN
				J-C	J-E	G-C G-E TYPE	
10200.35	9800.899	0		8.0	8.0	37646-27445	
10218.43	9783.559	0		7.0	7.0	23257-33475	
10233.58	9769.069	0		7.0	7.0	14367- 4134	
10296.05	9709.798	3	II	7.0	7.0	29949-40245	
10325.82	9681.803	10000	I	10.0	9.0	12892-23218	
10342.11	9666.556	10000	I	6.0	7.0	23464-33806	
10377.15	9633.920	0		9.0	8.0	15972-26349	
10377.90	9633.220	10	I	8.0	8.0	24999-35377	
10384.21	9627.362	1	I	9.0	9.0	13495-23780	
10398.48	9614.149	0		8.0	8.0	20341-30739	
10414.67	9599.208	0		8.0	9.0	28029-38444	
10419.96	9594.335	10	I	8.0	7.0	19092-29512	
10491.43	9528.979	100	I	8.0	7.0	14625- 4134	
10491.43	9528.979	100	I	7.0	8.0	15858-26349	
10493.44	9527.152	3	I	8.0	8.0	18477-28971	
10494.16	9526.499	0	II	7.0	8.0	20485-30979	
10499.37	9521.769	30	I	7.0	6.0	14367-24867	
10502.87	9518.598	1	I	8.0	9.0	33721-23218	
10525.53	9498.106	3000	I	6.0	7.0	10088-20614	
10531.26	9492.935	3	I	7.0	6.0	14367-24899	
10602.38	9429.256	30	I	5.0	5.0	19813- 9211	
10637.32	9398.289	1	I	7.0	6.0	17687- 7050	
10645.22	9391.310	1	I	7.0	8.0	21783-32428	
10712.68	9332.171	0		8.0	8.0	16733-27445	
10762.78	9288.735	10	I	7.0	8.0	18528-29291	
10762.90	9288.624	10	I	8.0	9.0	24999-35762	
10782.10	9272.089	1	I	8.0	8.0	15567-26349	
10785.12	9269.488	3	I	6.0	7.0	31399-20614	
10798.90	9257.662	10000	I	9.0	8.0	9990-20789	
10812.03	9246.420	1	I	7.0	8.0	21616-32428	
10812.47	9246.046	10	I	9.0	8.0	17727-28539	
10836.94	9225.162	1	I	9.0	8.0	21838-32675	
10879.37	9189.190	300	I	7.0	8.0	12655-23534	
10883.28	9185.882	3	I	6.0	6.0	16591-27474	
10883.28	9185.882	3	I	8.0	7.0	26868-37751	
10887.51	9182.318	10000	I	10.0	9.0	12892-23780	
10892.11	9178.439	3	I	7.0	8.0	21783-32675	
10911.59	9162.056	0	I	8.0	8.0	19688-30600	
10933.26	9143.890	1	I	8.0	7.0	19688-30621	
10936.14	9141.482	300	I	7.0	7.0	12655-23591	
10949.57	9130.272	1	I	8.0	8.0	18021-28971	
10951.56	9128.615	1	I	7.0	8.0	18339-29291	
10951.56	9128.615	1	I	8.0	9.0	23877-34829	
10985.84	9100.132	3	II	7.0	7.0	25133-36119	
10987.07	9099.110	3	I	8.0	9.0	18477-29465	

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C		ZEEMAN DATA			LEVELS ODD-EVEN
				J-C	J-E	G-C	G-E	TYPE	
11000.28	9088.187	30	I	8.C	8.0				18291-29291
11011.03	9079.313	3	II	8.C	7.0				23832-34843
11060.65	9038.580	10000	I	7.C	7.0			3	15194- 4134
11072.02	9029.295	1	I	7.0	8.0				19907-30979
11122.27	8988.507	30	I	6.C	6.0				18172- 7050
11144.27	8970.763	30	I	7.C	7.0				12655-23799
11154.63	8962.425	3	I	7.0	8.0				15194-26349
11156.58	8960.862	0	I	7.C	6.0				18528-29682
11173.81	8947.043	3	I	4.C	4.0				22099-10925
11179.04	8942.854	3	II	6.C	7.0				34770-23591
11202.89	8923.817	3		9.C	8.0				16693-27896
11211.48	8916.980	1		8.C	9.0				12007-23218
11244.27	8890.976	1	I	9.0	8.0				17727-28971
11253.49	8883.697	1	I	8.0	7.0				14625-25879
11253.49	8883.697	1	I	8.C	7.0				14625-25879
11263.41	8875.868	3	I	9.0	8.0				23985-35249
11269.47	8871.099	0		8.0	8.0				18021-29291
11289.18	8855.609	10	I	7.0	6.0				18339- 7050
11305.74	8842.633	1		7.C	7.0				15439- 4134
11313.13	8836.863	0	I	7.0	8.0				18528-29841
11316.16	8834.494	0		6.C	7.0				18561-29877
11342.20	8814.212	0		8.0	9.0				23877-35219
11343.12	8813.492	30	I	6.0	5.0				20554- 9211
11367.37	8794.696	0	I	8.0	9.0				19092-30459
11368.62	8793.729	3	I	6.C	7.0				16591-27959
11369.62	8792.950	1	I	5.0	4.0				22294-10925
11383.16	8782.496	10	I	7.0	6.0				18433- 7050
11387.37	8779.249	0	I	7.C	8.0				34921-23534
11417.11	8756.377	10	I	8.0	8.0				23832-35249
11418.64	8755.207	1	I	9.0	9.0				15972-27390
11433.15	8744.098	30	I	8.C	7.0				15567- 4134
11439.22	8739.450	0	I	6.0	7.0				19182-30621
11443.18	8736.430	1	I	8.0	9.0				18021-29465
11443.61	8736.100	3	I	7.C	7.0				18433-29877
11468.25	8717.332	0	I	8.C	9.0				19092-30560
11473.58	8713.280	0	I	9.0	8.0				15972-27445
11477.95	8709.963	3	I	7.C	6.0				18528- 7050
11490.37	8700.546	3	I	8.C	7.0				18021-29512
11497.12	8695.442	1	I	6.C	7.0				32111-20614
11507.84	8687.343	3	I	8.0	8.0				19092-30600
11510.60	8685.256	1000	I	6.C	6.0	1.27	*1.073	3	18561- 7050
11511.34	8684.703	10	I	7.C	7.0				14367-25879
11525.52	8674.020	0		8.0	8.0				27851-39376
11527.38	8672.617	1000	I	8.C	8.0	1.28	1.31	3	12007-23534
11537.60	8664.937	0	I	7.C	7.0				18339-29877

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS	
				J-C	J-E	G-C	G-E	TYPE
11539.73	8663.332	0	I	6.0	7.0			23464-35003
11539.73	8663.332	0	I	7.0	8.0			27556-39096
11564.19	8645.008	1	I	9.0	8.0			17727-29291
11570.83	8640.051	0	I	7.0	8.0			21675-33246
11584.15	8630.118	1000	I	8.0	7.0	1.27	1.26	2 12007-23591
11587.88	8627.334	0	II	7.0	8.0			15858-27445
11598.64	8619.336	3	I	7.0	7.0			20766-32382
11598.95	8619.104	10	I	5.0	4.0			22524-10925
11599.73	8618.521	300	I	9.0	8.0			13495-25095
11603.41	8615.787	0	I	7.0	8.0			17687-29291
11606.02	8613.850	3	I	6.0	5.0			20817- 9211
11606.02	8613.850	3	I	7.0	8.0			20822-32428
11610.14	8610.794	300	I	4.0	4.0			22535-10925
11618.92	8604.289	0	II	7.0	6.0			18857-30475
11629.49	8596.465	0	I	7.0	8.0			21616-33246
11653.62	8578.664	300	I	7.0	7.0	1.26	1.28	3 15194-26848
11662.39	8572.216	0	I	7.0	8.0			20766-32428
11674.36	8563.431	100	I	4.0	4.0			22599-10925
11683.15	8556.987	1	I	7.0	8.0			24708-36392
11691.85	8550.615	0	I	7.0	8.0			22061-33753
11692.86	8549.877	0	I	8.0	9.0			18021-29714
11709.95	8537.398	300	I	5.0	5.0			3 20921- 9211
11723.83	8527.295	30	I	7.0	7.0			15858- 4134
11723.83	8527.295	30	I	8.0	8.0			14625-26349
11730.78	8522.244	1	I	7.0	8.0			21675-33406
11735.08	8519.116	10	I	6.0	6.0			16591-28326
11736.14	8518.350	0	II	8.0	9.0			24204-35940
11737.91	8517.066	1	I	9.0	9.0			17727-29465
11743.14	8513.273	100	II	7.0	8.0			18857-30600
11753.13	8506.037	0	I	6.0	7.0			42375-30621
11760.92	8500.400	1	I	8.0	8.0			20793-32554
11764.78	8497.612	0		7.0	7.0			18857-30621
11767.32	8495.779	1	I	6.0	7.0			16591-28358
11773.23	8491.510	0	I	8.0	9.0			12007-23780
11775.12	8490.149	1000	I	6.0	6.0			3 21699-33474
11788.57	8480.460	0	I	7.0	8.0			20766-32554
11792.29	8477.784	300	I	8.0	7.0			A 12007-23799
11806.44	8467.626	3	I	7.0	6.0			18857- 7050
11810.08	8465.020	10	I	8.0	9.0			25012-36822
11820.60	8457.481	0	I	7.0	8.0			27556-39376
11823.60	8455.336	3	I	8.0	9.0			15567-27390
11824.35	8454.801	3	I	7.0	7.0			17687-29512
11827.56	8452.508	1	I	6.0	7.0			20554-32382
11853.92	8433.711	0	II	8.0	8.0			21899-33753
11865.04	8425.803	10	I	7.0	8.0			15194-27059

WAVE NUMBER	WAVE LENGTH	INT	SA	J-O	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
11869.60	8422.570	1	I	8.0	7.0				26868-38737
11877.77	8416.774	1		8.0	7.0				28518-40396
11878.55	8416.221	1	I	8.0	8.0				15567-27445
11883.69	8412.580	0	II	6.0	7.0				18561-30444
11884.80	8411.796	10	I	8.0	9.0				23877-35762
11887.21	8410.094	0	II	8.0	8.0				19092-30979
11896.87	8403.259	3	I	7.0	7.0				20485-32382
11902.06	8399.596	0		7.0	8.0				38251-26349
11909.23	8394.542	1		7.0	8.0				20766-32675
11914.55	8390.796	3	II	9.0	8.0				21838-33753
11916.31	8389.552	1	I	7.0	7.0				18528-30444
11917.77	8388.526	1000	I	6.0	7.0	1.39	1.26	1	11673-23591
11924.49	8383.801	0	I	9.0	8.0				15972-27896
11930.50	8379.575	0	I	8.0	9.0				23832-35762
11947.38	8367.735	0	I	7.0	6.0				18528-30475
11954.65	8362.650	10	II	9.0	9.0				23985-35940
11979.61	8345.223	30	I	9.0	10.0				17727-29706
12005.96	8326.909	0	I	7.0	8.0				15439-27445
12007.12	8326.103	10000	I	8.0	8.0	1.28	1.24	3	12007- 0
12011.09	8323.354	1	I	7.0	7.0				18433-30444
12012.77	8322.186	300	I	4.0	4.0			3	22938-10925
12017.77	8318.725	1	I	6.0	6.0				21456-33474
12055.90	8292.417	0		6.0	6.0				21418-33474
12060.67	8289.131	1		6.0	7.0				18561-30621
12067.93	8284.145	100	I	7.0	7.0			3	16202- 4134
12071.59	8281.639	10	I	7.0	8.0				18528-30600
12075.30	8279.093	0		8.0	8.0				25012-37087
12077.74	8277.421	1	I	8.0	9.0				27817-39895
12082.59	8274.098	0	I	8.0	9.0				18477-30560
12087.35	8270.835	1	I	8.0	8.0				20341-32428
12095.12	8265.528	10000	I	7.0	7.0	1.34	1.32	3	8519-20614
12103.91	8259.526	0	I	8.0	8.0				24204-36308
12105.07	8258.730	10	I	7.0	7.0				18339-30444
12114.02	8252.631	3	I	8.0	9.0				35894-23780
12114.56	8252.263	1	I	9.0	8.0				17727-29841
12122.48	8246.867	10	I	7.0	8.0				18857-30979
12125.91	8244.535	1000	I	6.0	7.0	1.40	1.39	1	11673-23799
12132.03	8240.376	30	I	6.0	6.0			3	19182- 7050
12153.80	8225.621	0		7.0	8.0				17687-29841
12186.09	8203.819	1	I	9.0	9.0				15972-28158
12188.11	8202.461	0	I	7.0	7.0				18433-30621
12189.43	8201.573		B	7.0	7.0				17687-29877
12190.12	8201.110	1		7.0	8.0				20485-32675
12194.70	8198.029	1	I	8.0	9.0				19092-31287
12205.63	8190.686	1	I	5.0	4.0				23130-10925

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS CCC-EVEN
						G-C	G-E	TYPE	
12206.86	8189.862	C		6.0	5.0				21418- 9211
12209.88	8187.840	3	I	6.0	7.0				22633-34843
12212.03	8186.400	30	I	7.0	6.0				12655-24867
12213.54	8185.384	10	I	8.0	8.0				20341-32554
12222.82	8179.172	100	I	8.0	7.0				14625-26848
12234.31	8171.486	30	I	8.0	9.0				28795-41029
12238.23	8168.870	1	I	8.0	8.0				16733-28971
12243.92	8165.076	1	I	7.0	6.0				12655-24899
12251.06	8160.317	100	I	7.0	8.0				15194-27445
12260.35	8154.128	10	I	7.0	8.0				10339-30600
12269.53	8148.034	1	I	8.0	9.0				18291-30560
12270.65	8147.288	10000	I	7.0	8.0	1.32	1.30	1	8519-20789
12271.99	8146.396	0	II	6.0	7.0				18172-30444
12277.57	8142.694	C	I	9.0	8.0				16693-28971
12282.08	8139.706	100	I	7.0	7.0				18339-30621
12283.04	8139.071	1	I	8.0	9.0				24204-36487
12287.41	8136.171	0	I	8.0	7.0				23832-36119
12291.95	8133.168	3	I	7.0	8.0				20954-33246
12303.09	8125.807	1	II	8.0	7.0				35894-23591
12303.09	8125.807	1	II	6.0	6.0				18172-30475
12306.03	8123.864	3		7.0	8.0				18433-30739
12329.45	8108.430	8		8.0	8.0				15567-27896
12334.21	8105.303	1	I	8.0	8.0				20341-32675
12353.91	8092.377	0	I	8.0	7.0				25012-37366
12359.85	8088.490	0	II	8.0	8.0				35894-23534
12362.93	8086.472	1	I	9.0	8.0				27014-39376
12366.52	8084.124	1	I	8.0	7.0				24999-37366
12378.52	8076.287	0	II	7.0	8.0				24708-37087
12381.55	8074.314	0		8.0	8.0				20341-32722
12392.61	8067.103	10	I	8.0	7.0				15567-27959
12393.57	8066.484	0		7.0	8.0				25133-37527
12399.99	8062.306	10	I	7.0	8.0				18339-30739
12405.67	8058.612	1	I	6.0	6.0				23687-36093
12408.30	8056.905	0	I	7.0	7.0				27837-40245
12422.98	8047.386	1		8.0	7.0				18021-30444
12430.27	8042.664	30	I	7.0	8.0				38779-26349
12434.25	8040.090	1000	I	8.0	8.0	1.25	1.29	3	14625-27059
12440.51	8036.043	10	I	7.0	8.0				12655-25095
12449.00	8030.566	1	I	6.0	7.0				18172-30621
12451.89	8028.701	10	I	7.0	8.0				20954-33406
12452.21	8028.495	0		8.0	8.0				20793-33246
12457.15	8025.312	3000	I	6.0	7.0	1.348	1.175	1	16591- 4134
12458.94	8024.157	0	I	7.0	8.0				23479-35938
12476.09	8013.128	1	I	8.0	8.0				23832-36308
12480.66	8010.194	300	I	7.0	7.0	1.27	1.28	3	14367-26848

WAVE NUMBER	WAVE LENGTH	INT	SA	J-O	J-E	ZEEMAN DATA			LEVELS
						G-O	G-E	TYPE	ODD-EVEN
12487.61	8005.735	1		6.0	5.0				21699- 9211
12488.01	8005.481	0	I	7.0	8.0				22889-35377
12500.69	7997.361	1	II	7.0	7.0				15858-28358
12503.10	7995.818	3	I	7.0	7.0				24708-37212
12514.40	7988.597	0	II	8.0	8.0				23877-36392
12515.23	7988.065	1		5.0	4.0				23440-10925
12520.04	7984.999	0	II	7.0	7.0				15439-27959
12520.12	7984.947	0		7.0	6.0				20954-33474
12521.15	7984.292	3	I	7.0	8.0				19907-32428
12538.67	7973.134	1000	I	8.0	9.0			2	18021-30560
12545.76	7968.627	1000	I	7.0	8.0			2	18433-30979
12558.13	7960.780	3	I	8.0	8.0				16733-29291
12560.00	7959.592	0	II	8.0	8.0				23832-36392
12567.24	7955.011	3	I	9.0	8.0				15972-28539
12576.69	7949.029	0		8.0	9.0				27319-39895
12578.27	7948.036	0	I	8.0	8.0				18021-30600
12579.60	7947.192	0		8.0	9.0				25012-37591
12581.74	7945.843	3	I	8.0	7.0				19092-31674
12587.01	7942.517	10	I	7.0	7.0				24708-37295
12598.21	7935.451	0		7.0	7.0				20954-33552
12598.97	7934.976	1000	I	8.0	7.0	1.19	1.17	2	16733- 4134
12599.98	7934.335	30	I	8.0	7.0				18021-30621
12603.23	7932.288	1	I	8.0	8.0				24204-36807
12615.65	7924.482	10	I	7.0	8.0				22061-34676
12627.40	7917.111	1	I	5.0	4.0				23552-10925
12639.73	7909.386	3000	I	7.0	8.0	1.20	1.25	2	18339-30979
12639.73	7909.386		B	I	7.0	8.0			20766-33406
12653.10	7901.028	0		5.0	6.0				23440-36093
12655.15	7899.750	10	I	7.0	8.0				12655- 0
12655.15	7899.750	10	I	8.0	9.0				23832-36487
12657.15	7898.502	1		7.0	7.0				24708-37366
12689.41	7878.419	1	I	7.0	7.0				27556-40245
12691.05	7877.400	1	I	7.0	7.0				18433-31124
12692.10	7876.749	1	I	7.0	8.0				14367-27059
12694.17	7875.465	3	I	8.0	9.0				18021-30716
12701.96	7870.638	100	I	7.0	8.0				15194-27896
12709.42	7866.014	10	II	7.0	7.0				20766-33475
12717.91	7860.767	100	I	8.0	8.0				18021-30739
12731.84	7852.162	3	I	8.0	9.0				16733-29465
12731.84	7852.162	3	I	9.0	9.0				23985-36717
12732.49	7851.765	100	I	9.0	9.0				17727-30459
12734.77	7850.358	1	I	6.0	7.0				20817-33552
12744.50	7844.367	0	I	8.0	7.0				33358-20614
12746.24	7843.291	3	I	8.0	7.0				16880- 4134
12750.19	7840.864	0	I	8.0	8.0				24204-36954

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA				LEVELS ODD-EVEN
				J-C	J-E	G-C	G-E	
12760.88	7834.294	0		7.0	6.0			19811- 7050
12761.56	7833.877	300	I	4.0	4.0	0.77	*0.618	3 23686-10925
12763.37	7832.767	1000	I	5.0	6.0	1.270	1.080	1 19813- 7050
12765.14	7831.679	3	I	7.0	7.0			15194-27959
12765.32	7831.570	0		8.0	9.0			14625-27390
12777.77	7823.939	0	I	8.0	8.0			21899-34676
12779.05	7823.154	1	I	8.0	7.0			16733-29512
12784.96	7819.539	0		7.0	7.0			18339-31124
12786.66	7818.502	0	I	5.0	4.0			23711-10925
12787.38	7818.059	0		6.0	5.0			21998- 9211
12791.34	7815.641	30	I	8.0	7.0			15567-28358
12793.04	7814.598	1000	I	7.0	6.0	1.29	1.33	1 15194-27987
12798.94	7810.999	0		7.0	8.0			20954-33753
12817.02	7799.981	3	I	7.0	7.0			18857-31674
12820.25	7798.012	300	I	8.0	8.0			3 14625-27445
12830.41	7791.837	0		8.0	9.0			23877-36708
12833.41	7790.020	3000	I	9.0	9.0	1.25	1.33	3 17727-30560
12838.41	7786.981	3	I	9.0	8.0			21838-34676
12842.22	7784.671	0		8.0	8.0			24999-37841
12853.55	7777.809	100	I	9.0	8.0			A 13495-26349
12856.90	7775.783	100		7.0	6.0			A 19907- 7050
12870.85	7767.358	1		6.0	7.0			36462-23591
12873.03	7766.044	1	I	9.0	8.0			17727-30600
12876.08	7764.204	0	I	8.0	9.0			23832-36708
12881.81	7760.751	1	I	9.0	9.0			27014-39895
12887.50	7757.324	1000	I	4.0	5.0	1.059	0.912	1 22099- 9211
12898.93	7750.446	1	I	7.0	7.0			24708-37607
12904.80	7746.919	1		8.0	8.0			20341-33246
12911.43	7742.944	0		7.0	7.0			19811-32722
12912.24	7742.456	3	I	7.0	8.0			17687-30600
12920.97	7737.227	0		6.0	7.0			20554-33475
12930.11	7731.760	1	I	8.0	9.0			21899-34829
12942.46	7724.378	3	I	7.0	7.0			22061-35003
12943.92	7723.506	0		8.0	7.0			21899-34843
12944.21	7723.335	1		8.0	7.0			19092-32036
12951.91	7718.742	1	I	6.0	7.0			18172-31124
12957.65	7715.327	3000	I	8.0	8.0	1.23	1.25	3 18021-30979
12972.21	7706.666	10	I	8.0	8.0			15567-28539
12986.92	7697.937	0		8.0	8.0			19688-32675
12988.54	7696.978	0	II	6.0	7.0			20817-33806
12988.87	7696.778	1		9.0	9.0			17727-30716
12990.21	7695.988	0	I	8.0	9.0			23832-36822
12996.92	7692.015	30	I	8.0	7.0			16880-29877
12999.08	7690.737	10	I	9.0	8.0			15972-28971
13000.35	7689.984	1	I	9.0	9.0			23717-36717

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
13012.65	7682.715	100	I	9.0	8.0				A 17727-30739
13042.39	7665.200	3	I	7.0	7.0				24708-37751
13048.72	7661.478	1000	I	8.0	7.0				2 7565-20614
13051.88	7659.625	1	II	7.0	8.0				17687-30739
13070.78	7648.547	3	I	7.0	8.0				23736-36807
13078.09	7644.273	30	I	7.0	8.0				14367-27445
13083.30	7641.226	300	I	5.0	5.0				3 22294- 9211
13088.53	7638.171	30	I	8.0	8.0				12007-25095
13104.56	7628.831	3	I	8.0	7.0				21899-35003
13106.83	7627.513	1	I	7.0	6.0				14367-27474
13107.15	7627.322	0	I	8.0	7.0				33721-20614
13131.65	7613.094	1	I	7.0	6.0				15194-28326
13134.79	7611.273	1	I	7.0	8.0				23257-36392
13144.21	7605.819	3	II	8.0	7.0				16733-29877
13147.83	7603.724	3	I	9.0	8.0				16693-29841
13154.39	7599.936	1	I	8.0	8.0				21899-35053
13163.87	7594.461	0		7.0	7.0				15194-28358
13193.68	7577.301	3	I	6.0	6.0				11673-24867
13204.01	7571.370	1	I	7.0	6.0				22889-36093
13209.75	7568.080	1	I	8.0	8.0				23877-37087
13215.04	7565.055	30	I	9.0	8.0				21838-35053
13224.25	7559.782	3000	I	8.0	8.0	1.36	1.32	3	7565-20789
13225.56	7559.036	30	I	6.0	6.0				11673-24899
13227.63	7557.852	300	I	9.0	9.0	1.34	1.38	3	9990-23218
13252.40	7543.729	10000	I	9.0	8.0	1.25	1.26	1	17727-30979
13256.35	7541.476	1	I	9.0	10.0				13495-26752
13264.73	7536.715	3	I	8.0	7.0				24999-38264
13271.14	7533.073	100	I	8.0	8.0				14625-27896
13286.00	7524.650	1	II	6.0	7.0				16591-29877
13291.63	7521.459	300	I	7.0	8.0				17687-30979
13304.52	7514.175	0		6.0	7.0				21699-35003
13312.63	7509.596	100	I	5.0	5.0				3 22524- 9211
13323.81	7503.296	3	I	4.0	5.0				22535- 9211
13334.33	7497.378	30	I	8.0	7.0				14625-27959
13334.33	7497.378	30	I	8.0	7.0				23877-37212
13349.95	7488.605	0		8.0	8.0				21899-35249
13358.86	7483.608	0	I	8.0	9.0				27851-41210
13380.02	7471.771	0		8.0	7.0				23832-37212
13384.52	7469.261	3		9.0	8.0				14512-27896
13388.00	7467.320	10	I	4.0	5.0				22599- 9211
13392.33	7464.904	10	I	8.0	9.0				27817-41210
13410.56	7454.759	3	I	9.0	8.0				21838-35249
13411.82	7454.058	3	I	8.0	8.0				20341-33753
13418.24	7450.489	1	I	8.0	7.0				23877-37295
13434.79	7441.315	1	I	7.0	6.0				20485- 7050

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS	
				J-C	J-E	G-C	G-E	TYPE
13436.85	7440.169	0	I	7.C	7.0			17687-31124
13463.91	7425.219	10	I	8.C	7.0			23832-37295
13475.29	7418.945	3	I	6.0	7.0			18561-32036
13475.47	7418.847	C	II	7.0	7.0			23736-37212
13484.68	7413.778	0	II	8.C	9.0			18291-31775
13492.69	7409.381	10	I	9.0	9.0			15972-29465
13495.94	7407.595	3000	I	9.0	8.0	1.23	1.24	1 13495- 0
13502.46	7404.016	300	I	6.0	7.0			A 10088-23591
13504.13	7403.103	300	I	6.0	6.0	1.11	*1.073	3 20554- 7050
13520.73	7394.014	0		8.0	8.0			23877-37398
13525.24	7391.547	10	I	7.C	7.0			18857-32382
13531.43	7388.166	3	I	7.C	8.0			15439-28971
13543.53	7381.566	1000	I	9.0	8.0	1.33	1.32	2 9990-23534
13545.62	7380.429	1	I	7.C	7.0			24906-38452
13553.68	7376.038	3000	I	7.0	7.0	1.16	1.173	3 17687- 4134
13559.33	7372.966	0		7.0	7.0			23736-37295
13563.96	7370.447	30	I	9.0	8.0			13495-27059
13566.54	7369.045	100	I	5.C	4.0	0.86	*0.618	2 24491-10925
13571.59	7366.303	C		7.0	8.0			18857-32428
13592.18	7355.143	1	I	7.0	7.0			14367-27959
13620.08	7340.081	10	I	7.C	6.0			14367-27987
13649.41	7324.304	1		8.C	8.0			23877-37527
13652.17	7322.823	3	I	8.C	7.0			18021-31674
13654.20	7321.735	10	I	7.C	7.0			15858-29512
13660.30	7318.467	1	I	5.0	6.0			19813-33474
13670.87	7312.807	1	I	8.0	9.0			19092-32763
13694.34	7300.276	300	I	7.C	8.0			A 12655-26349
13696.71	7299.012	1	II	7.0	7.0			18339-32036
13710.61	7291.613	300	I	6.0	7.0			A 10088-23799
13711.67	7291.040	3	I	8.C	7.0			16733-30444
13714.07	7289.774	10	I	8.C	9.0			23877-37591
13715.67	7288.921	300	I	7.0	6.0			A 20766- 7050
13719.45	7286.915	C	I	9.0	8.0			21529-35249
13723.95	7284.525	1	I	8.C	8.0			15567-29291
13726.45	7283.196	30	I	4.C	5.0			22938- 9211
13733.03	7279.710	10	I	8.C	7.0			14625-28358
13734.36	7279.003	3	I	9.0	10.0			15972-29706
13742.37	7274.761	1	I	9.0	9.0			15972-29714
13743.34	7274.249	30	I	8.0	8.0			22564-36300
13743.52	7274.151	3		7.0	7.0			24708-38452
13759.74	7265.576	3	I	8.0	9.0			23832-37591
13767.01	7261.738	1000	I	6.0	6.0	1.13	1.07	3 20817- 7050
13772.08	7259.068	C		7.0	6.0			20822- 7050
13776.57	7256.703	1	I	7.C	8.0			15194-28971
13787.13	7251.144	0	I	8.C	7.0			19688-33475

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C		ZEEMAN DATA			LEVELS OCC-EVEN
				J-C	J-E	G-C	G-E	TYPE	
13788.66	7250.338	1		7.0	7.0				20954-34742
13789.28	7250.009	3000	I	9.0	9.0	1.32	1.34	3	9990-23780
13790.58	7249.328	1	I	7.0	8.0				23736-37527
13799.14	7244.830	10	I	8.0	8.0				23877-37676
13818.51	7234.679	30	II	7.0	8.0				18857-32675
13821.20	7233.270	1	I	6.0	7.0				18561-32382
13827.36	7230.044	3000	I	8.0	9.0	1.19	1.31	2	16733-30560
13831.97	7227.635	1	I	6.0	7.0				23464-37295
13844.83	7220.921	10	I	8.0	8.0				23832-37676
13856.09	7215.056	0	I	9.0	10.0				21529-35385
13859.51	7213.274	1000	I	10.0	10.0	1.29	1.36	3	12892-26752
13866.95	7209.404			8.0	8.0				16733-30600
13869.37	7208.147	3	I	9.0	8.0				15972-29841
13870.95	7207.328	1000	I	5.0	6.0	1.30	*1.073	1	20921- 7050
13872.02	7206.767	300	I	8.0	7.0			1	12007-25879
13873.59	7205.952	0		8.0	7.0				23877-37751
13884.55	7200.266	0		6.0	6.0				16591-30475
13887.66	7198.653	100	I	8.0	7.0				18021- 4134
13895.04	7194.830	300	I	9.0	9.0			3	13495-27390
13895.28	7194.705	1		8.0	9.0				20793-34689
13897.66	7193.475	0		8.0	9.0				15567-29465
13903.55	7190.423	3	I	7.0	6.0				20954- 7050
13906.25	7189.031	1	I	9.0	8.0				16693-30600
13910.66	7186.749	3	I	7.0	8.0				20766-34676
13913.92	7185.064	3	I	8.0	8.0				14625-28539
13915.25	7184.380	0	I	8.0	9.0				18291-32206
13919.30	7182.291	1	I	5.0	5.0				23130- 9211
13940.31	7171.465	0		7.0	8.0				23736-37676
13948.50	7167.253	1	I	7.0	7.0				18433-32382
13949.96	7166.502	100	I	9.0	8.0			A	13495-27445
13954.77	7164.036	0	I	7.0	7.0				23257-37212
13958.64	7162.046	30	I	7.0	6.0				14367-28326
13964.11	7159.241	3	I	8.0	8.0				23877-37841
13986.13	7147.969	3	I	7.0	7.0				17687-31674
13994.87	7143.504	3	I	7.0	8.0				18433-32428
14009.79	7135.896	3	I	8.0	8.0				23832-37841
14014.63	7133.436	1		8.0	7.0				18021-32036
14014.73	7133.381	10	I	7.0	7.0				23736-37751
14015.56	7132.959	3	I	9.0	9.0				27014-41029
14016.31	7132.577	10	I	6.0	7.0				42375-28358
14030.50	7125.363	3	I	6.0	7.0				16591-30621
14038.64	7121.232	3000	I	6.0	7.0	1.340	1.171	1	18172- 4134
14045.94	7117.531	1	I	9.0	8.0				16693-30739
14049.58	7115.687	1	I	7.0	7.0				20954-35003
14069.47	7105.628	0	I	7.0	6.0				21675-35744

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS	
				J-C	J-E	G-C	G-E	TYPE
14085.01	7097.791	3	I	8.0	8.0			18343-32428
14088.84	7095.858	3	I	7.0	8.0			18339-32428
14093.14	7093.695	1	I	9.0	8.0			17727-31820
14100.21	7090.138	3	I	9.0	8.0			21838-35938
14101.81	7089.332	0		9.0	9.0			21838-35940
14105.28	7087.590	0		7.0	8.0			23736-37841
14121.08	7079.661	3	I	7.0	8.0			18433-32554
14128.16	7076.109	1		7.0	7.0			23479-37607
14147.34	7066.520	1	I	8.0	9.0			15567-29714
14156.76	7061.814	10	I	8.0	7.0			18291- 4134
14161.69	7059.356	0		6.0	7.0			18561-32722
14171.77	7054.338	30	I	7.0	8.0			14367-28539
14184.39	7048.061	10	I	8.0	9.0			18021-32206
14186.13	7047.195	0		6.0	7.0			20817-35003
14193.33	7043.622	100	I	7.0	7.0			12655-26848
14205.60	7037.535	1000	I	7.0	7.0	1.20	*1.175	3 18339- 4134
14209.41	7035.649	1	I	8.0	7.0			18343- 4134
14209.41	7035.649	1	I	6.0	7.0			18172-32382
14215.07	7032.849	0		7.0	8.0			18339-32554
14228.86	7026.032	1		5.0	5.0			23440- 9211
14237.47	7021.783	30	I	7.0	7.0			20766-35003
14241.73	7019.682	1		7.0	8.0			18433-32675
14242.72	7019.196	10	I	7.0	7.0			16202-30444
14246.33	7017.416	3000	I	8.0	8.0			3 16733-30979
14252.43	7014.411	1		6.0	5.0			23464- 9211
14264.48	7008.485	1		7.0	8.0			24708-38973
14274.34	7003.645	0	I	8.0	8.0			15567-29841
14285.66	6998.095	10000	I	9.0	8.0			2 16693-30979
14287.32	6997.286	1	I	7.0	8.0			20766-35053
14287.32	6997.286	1	I	6.0	7.0			23464-37751
14288.12	6996.890	1	I	6.0	6.0			21456-35744
14299.54	6991.304	3000	I	7.0	7.0	1.20	1.17	3 18433- 4134
14310.00	6986.191	30	I	8.0	7.0			15567-29877
14313.75	6984.364	10	I	8.0	8.0			19092-33406
14335.85	6973.594	10	I	8.0	8.0			26868-41203
14336.03	6973.509	1		7.0	7.0			21783-36119
14341.06	6971.062	10	I	5.0	5.0			23552- 9211
14342.37	6970.427	1000	I	8.0	8.0			3 12007-26349
14345.76	6968.778	10	I	8.0	8.0			14625-28971
14357.73	6962.970	3	I	7.0	7.0			20485-34843
14357.73	6962.970	3	I	7.0	8.0			26846-41203
14360.40	6961.674	10	I	8.0	7.0			18021-32382
14367.81	6958.084	10000	I	7.0	8.0	1.27	1.24	1 14367- 0
14367.81	6958.084		I	6.0	6.0			21418- 7050
14383.C9	6950.691	1		7.0	7.0			18339-32722

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS		
				J-C	J-E	G-C	G-E	TYPE	OCC-EVEN
14389.08	6947.798	1		7.0	8.0				18857-33246
14394.33	6945.263	300		7.0	7.0	1.465	*1.175	3	18528- 4134
14400.86	6942.114	300	I	9.0	8.0			1	13495-27896
14404.75	6940.242	30	I	7.0	8.0				12655-27059
14405.98	6939.649	100	I	6.0	6.0	1.07	1.07	4	21456- 7050
14406.79	6939.258	0		8.0	8.0				18021-32428
14408.98	6938.201	0		9.0	8.0				21529-35938
14426.97	6929.550	3000	I	6.0	7.0	1.27	1.18	1	18561- 4134
14444.20	6921.284	1	I	7.0	7.0				21675-36119
14469.56	6909.152	0		9.0	8.0				21838-36308
14475.24	6906.443	1000	I	4.0	5.0	0.767	0.916	2	23686- 9211
14476.28	6905.949	100	I	6.0	5.0				23687- 9211
14487.29	6900.700	30	I	7.0	6.0				15194-29682
14487.29	6900.700	30	I	9.0	9.0				15972-30459
14498.19	6895.509	300	I	10.0	9.0				12892-27390
14500.35	6894.483	0	I	5.0	5.0				23711- 9211
14512.24	6888.833	1000	I	9.0	8.0	1.28	1.25	2	14512- 0
14518.34	6885.939	3	I	7.0	7.0				20485-35003
14524.21	6883.155	1	I	8.0	8.0				23832-38356
14532.96	6879.015	10	I	8.0	8.0				18021-32554
14533.39	6878.811	0		6.0	7.0				16591-31124
14537.64	6876.798	0		7.0	8.0				16202-30739
14548.96	6871.446	3	I	7.0	8.0				18857-33406
14566.03	6863.394	1	I	7.0	6.0				21616- 7050
14566.64	6863.107	1	I	8.0	9.0				23877-38444
14576.45	6858.489	1	I	6.0	7.0				23687-38264
14578.86	6857.356	3	I	6.0	7.0				22633-37212
14588.20	6852.965	10000 R	I	9.0	9.0	1.29	1.33	3	15972-30560
14611.19	6842.182	0	I	7.0	8.0				20766-35377
14624.70	6835.862	10	I	7.0	6.0				21675- 7050
14625.65	6835.418	10000 R	I	8.0	8.0	1.25	1.24	3	14625- 0
14646.85	6825.521	3	I	7.0	8.0				15194-29841
14648.61	6824.703	1	I	6.0	6.0				21699- 7050
14653.65	6822.354	1	I	8.0	8.0				18021-32675
14660.82	6819.017	3	I	8.0	8.0				19092-33753
14662.57	6818.205	1000	I	9.0	9.0	1.23	1.33	3	13495-28158
14665.66	6816.769	1	I	8.0	8.0				14625-29291
14682.52	6808.939	1	I	7.0	7.0				15194-29877
14700.92	6800.419	1	I	8.0	7.0				18021-32722
14712.28	6795.167	3	I	8.0	8.0				20341-35053
14722.83	6790.298	300	I	7.0	7.0	1.335	*1.175	3	18857- 4134
14732.80	6785.701	30	I	7.0	6.0				21783- 7050
14763.74	6771.484	0		7.0	8.0				20485-35249
14767.43	6769.790	3	I	9.0	8.0				15972-30739
14769.44	6768.868	1	I	7.0	8.0				19907-34676

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA						LEVELS ODD-EVEN
				J-C	J-E	G-C	G-E	TYPE		
14778.37	6764.778	100	I	6.0	6.0	1.36	1.34	3	10088-24867	
14784.55	6761.952	1	I	7.0	7.0				23479-38264	
14790.76	6759.113	30	I	7.0	8.0				12655-27445	
14810.26	6750.212	300	I	6.0	6.0	1.36	1.36	4	10088-24899	
14819.48	6746.013	1	I	7.0	6.0				12655-27474	
14827.70	6742.274	30	I	9.0	8.0				17727-32544	
14830.02	6741.219	10	I	7.0	7.0				38421-23591	
14839.39	6736.963	10	I	8.0	9.0				14625-29465	
14841.36	6736.069	30	I	8.0	7.0				12007-26848	
14866.93	6724.403	0	I	7.0	8.0				17687-32544	
14877.52	6719.697	1	I	8.0	7.0				15567-30444	
14877.52	6719.697	1	I	7.0	8.0				18528-33406	
14878.61	6719.203	0	I	8.0	9.0				20341-35219	
14892.26	6713.046	100	I	8.0	9.0				15567-30459	
14923.51	6698.987	1	I	7.0	8.0				14367-29291	
14940.90	6691.191	1		8.0	7.0				16733-31674	
14947.17	6688.384	1	I	7.0	7.0				18528-33475	
14948.39	6687.837	10	I	6.0	6.0				21998- 7050	
14948.39	6687.837	10	I	9.0	8.0				17727-32675	
14958.09	6683.498	30	I	8.0	7.0				19092- 4134	
14972.31	6677.153	1	I	7.0	8.0				18433-33406	
14983.73	6672.061	3	I	9.0	9.0				21838-36822	
14987.38	6670.438	1	I	5.0	4.0				25912-10925	
14988.34	6670.009	100	I	8.0	8.0				19688-34676	
14993.18	6667.858	10000	I	8.0	9.0	1.30	1.31	2	15567-30560	
15007.18	6661.639	1000	I	9.0	8.0	1.30	1.26	2	15972-30979	
15010.67	6660.090	10	I	7.0	6.0				22061- 7050	
15015.29	6658.039	300	I	7.0	8.0	1.33	1.31	1	8519-23534	
15032.79	6650.290	3	I	8.0	8.0				15567-30600	
15034.99	6649.317	3	I	7.0	7.0				17687-32722	
15036.09	6648.827	0	I	9.0	9.0				17727-32763	
15037.97	6647.998	0	I	8.0	8.0				23832-38870	
15040.51	6646.875	0	I	7.0	6.0				18433-33474	
15041.96	6646.233	1	I	7.0	7.0				18433-33475	
15048.44	6643.373	3000	I	6.0	7.0	1.036	1.177	2	19182- 4134	
15052.79	6641.451	30	I	8.0	8.0				12007-27059	
15064.30	6636.377	0	I	8.0	9.0				18021-33086	
15072.06	6632.961	10	I	7.0	7.0				8519-23591	
15082.69	6628.288	10	I	6.0	7.0				16591-31674	
15089.05	6625.490	100	I	8.0	9.0				14625-29714	
15095.72	6622.567	1	I	8.0	8.0				23877-38973	
15104.75	6618.607	0	I	9.0	8.0				9990-25095	
15118.64	6612.526	0	I	7.0	7.0				18433-33552	
15133.40	6606.075	1	I	7.0	8.0				23736-38870	
15139.37	6603.469	1	I	7.0	6.0				20954-36093	

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	OCC	EVEN
15141.39	6602.590	0		8.C	8.0				23832-38973	
15146.08	6600.546	3	I	7.0	8.0				19907-35053	
15148.68	6599.414	0	I	8.0	9.0				15567-30716	
15172.40	6589.095	1	I	8.0	8.0				15567-30739	
15174.98	6587.976	3	I	6.C	7.0				11673-26848	
15194.83	6579.367	10000	R	I	7.0	8.0	1.26	1.24	1	15194- 0
15216.04	6570.196	100		I	8.0	8.0			3	14625-29841
15236.82	6561.236	1		I	7.C	8.0				23736-38973
15241.65	6559.159	3		I	7.0	8.0				12655-27896
15244.29	6558.023	3000		I	5.0	6.0	1.02	1.09	2	22294- 7050
15248.92	6556.030	0	II	9.C	8.0					21838-37087
15250.03	6555.555	3	I	7.0	7.0					15194-30444
15251.73	6554.824	10	I	8.0	7.0					14625-29877
15265.73	6548.812	3	I	10.C	9.0					12892-28158
15270.90	6546.593	0	I	7.0	6.0					20822-36093
15275.89	6544.454	1	I	6.C	6.0					20817-36093
15280.20	6542.608	100		I	5.0	5.0			3	24491- 9211
15280.20	6542.608	100		I	7.0	7.0			3	8519-23799
15281.11	6542.221	3	I	7.0	6.0					15194-30475
15301.81	6533.369	1	I	6.C	7.0					20817-36119
15303.29	6532.737	0	I	8.0	7.0					16733-32036
15304.83	6532.081	1	I	7.0	7.0					12655-27959
15304.83	6532.081	1	I	7.0	7.0					22061-37366
15314.48	6527.963	10	I	7.C	6.0					14367-29682
15328.16	6522.140	1	I	8.0	7.0					18477-33806
15364.97	6506.513	0	I	8.C	8.0					19688-35053
15372.33	6503.398	0	I	7.C	7.0					18433-33806
15383.85	6498.528	1	I	8.C	9.0					12007-27390
15383.85	6498.528	1	I	8.C	7.0					25012-40396
15405.31	6489.477	10	I	7.C	8.0					15194-30600
15412.15	6486.595	3000		I	8.0	8.0	1.32	1.27	3	15567-30979
15412.15	6486.595			I	7.0	8.0				21675-37087
15413.28	6486.120	3		I	7.0	8.0				18339-33753
15421.25	6482.765	1			8.C	9.0				20341-35762
15422.47	6482.252	10		I	5.C	5.0				24634- 9211
15438.79	6475.404	1		I	8.0	8.0				12007-27445
15439.95	6474.915	300		I	7.C	8.0	1.18	*1.242	2	15439- 0
15445.16	6472.731	1		I	6.C	7.0				16591-32036
15465.83	6464.079	1		I	7.C	8.0				22061-37527
15469.99	6462.343	0		I	7.0	8.0				19907-35377
15473.61	6460.829	300		I	5.0	6.0	1.04	1.07	2	22524- 7050
15473.88	6460.719	30		I	7.0	8.0				14367-29841
15475.48	6460.049	10		I	9.0	8.0				13495-28971
15489.16	6454.343	0		I	7.C	7.0				24906-40396
15499.20	6450.162	0			8.C	8.0				21899-37398

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS	
				J-C	J-E	G-C	G-E	TYPE
15499.20	6450.162	0		8.0	8.0			23877-39376
15536.81	6434.549	1	I	7.0	7.0			21675-37212
15536.81	6434.549	1	I	7.0	7.0			24708-40245
15544.95	6431.180	10	I	7.0	8.0			15194-30739
15554.38	6427.282	300	I	8.0	7.0	1.22	1.18	2 19688- 4134
15558.23	6425.689	1	I	7.0	8.0			17687-33246
15560.57	6424.724	1	I	8.0	8.0			19688-35249
15567.37	6421.917	10000 R	I	8.0	8.0	1.31	1.24	3 15567- 0
15582.62	6415.630	10	I	6.0	6.0			22633- 7050
15584.63	6414.805	3	I	8.0	8.0			19092-34676
15615.07	6402.300	100	I	7.0	8.0			1 21783-37398
15616.32	6401.788	3	I	7.0	8.0			23479-39096
15649.08	6388.388	10	I	8.0	7.0			16733-32382
15652.98	6386.796	3000	I	8.0	9.0	1.36	1.37	2 7565-23218
15671.31	6379.323	30	I	7.0	6.0	1.36	1.35	2 12655-28326
15677.26	6376.905	3		7.0	7.0			19811- 4134
15692.62	6370.660	0	I	8.0	9.0			21899-37591
15703.58	6366.215	1	I	7.0	7.0			12655-28358
15718.12	6360.324	0	I	7.0	8.0			17687-33406
15719.66	6359.702	100	I	8.0	9.0			2 15567-31287
15734.78	6353.592	1	I	9.0	8.0			16693-32428
15749.45	6347.673	1	I	7.0	7.0			21616-37366
15773.28	6338.083	300	I	7.0	7.0	1.23	*1.175	3 19907- 4134
15778.16	6336.121	0	I	8.0	7.0			20341-36119
15784.72	6333.491	3	I	7.0	8.0			15194-30979
15786.36	6332.831	0	I	7.0	6.0			17687-33474
15790.34	6331.234	10	I	6.0	7.0			10088-25879
15795.02	6329.360	1	I	8.0	8.0			16880-32675
15795.38	6329.216	10	I	9.0	8.0			13495-29291
15801.13	6326.912	30	I	6.0	6.0			3 11673-27474
15819.88	6319.414	0	I	6.0	7.0			16591-32411
15819.88	6319.414	0	I	7.0	8.0			18857-34676
15837.11	6312.536	3		7.0	6.0			19907-35744
15838.89	6311.829	1	I	7.0	6.0			22889- 7050
15851.85	6306.670	3	I	7.0	8.0			21675-37527
15858.05	6304.202	1		7.0	8.0			15858- 0
15879.56	6295.663	1	I	8.0	9.0			22564-38444
15884.40	6293.743	0	I	7.0	8.0			12655-28539
15889.68	6291.651	300	I	8.0	8.0	1.30	1.34	3 12007-27896
15911.44	6283.049	0	I	8.0	7.0			19092-35003
15934.90	6273.800	10	I	8.0	9.0			14625-30560
15942.33	6270.875	3	I	8.0	8.0			16733-32675
15942.62	6270.759	100	I	8.0	8.0			21899-37841
15952.86	6266.734	3	I	8.0	7.0			12007-27959
15961.25	6263.440	1	I	8.0	8.0			19092-35053

WAVE NUMBER	WAVE LENGTH	INT	SA	J-G	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
15966.81	6261.258	1	I	8.0	8.0				20341-36308
15968.89	6260.444	300	I	8.0	8.0			3	7565-23534
15969.09	6260.364	300	I	9.0	9.0			3	13495-29465
15972.35	6259.088	10000 R	I	9.0	8.0	1.29	1.24	2	15972- 0
15996.22	6249.749	10	I	8.0	7.0				14625-30621
16013.47	6243.018	3	I	8.0	8.0				20793-36807
16018.05	6241.232	1	I	8.0	9.0				23877-39895
16025.66	6238.268	10	I	8.0	7.0				7565-23591
16025.95	6238.153	0	I	9.0	8.0				17727-33753
16030.02	6236.572	3	I	8.0	9.0				16733-32763
16030.02	6236.572	3	I	8.0	9.0				24999-41029
16031.25	6236.091	1	I	7.0	8.0				19907-35938
16063.73	6223.481	0		8.0	9.0				23832-39895
16065.22	6222.906	0	I	7.0	8.0				17687-33753
16077.05	6218.324	0	I	7.0	7.0				14367-30444
16080.28	6217.077	0	I	5.0	6.0				23130- 7050
16108.15	6206.322	10	I	7.0	6.0				14367-30475
16114.13	6204.016	30	I	8.0	8.0			3	14625-30739
16151.39	6189.707	100	I	8.0	9.0	1.28	1.33	2	12007-28158
16152.77	6189.178	1	I	8.0	9.0				18021-34174
16196.53	6172.454	1	I	7.0	8.0				18857-35053
16202.14	6170.317	10	I	7.0	8.0				16202- 0
16207.09	6168.431	3000 R	I	8.0	7.0	1.23	1.18	2	20341- 4134
16208.28	6167.981	10	I	8.0	9.0				15567-31775
16214.65	6165.555	1000	I	8.0	9.0	1.35	1.34	1	7565-23780
16218.79	6163.984	10	I	9.0	9.0				13495-29714
16232.34	6158.837	10	I	7.0	8.0				14367-30600
16233.80	6158.282	300	I	8.0	7.0	1.36	1.38	1	7565-23799
16251.73	6151.488	10	I	8.0	9.0				19688-35940
16254.07	6150.604	30	I	7.0	7.0			3	14367-30621
16285.17	6138.857	3	I	8.0	8.0				19092-35377
16286.48	6138.362	30	I	6.0	7.0				11673-27959
16316.27	6127.155	300	I	7.0	8.0	1.35	1.35	4	12655-28971
16347.97	6115.276	100	I	7.0	6.0	1.32	1.32	4	8519-24867
16351.18	6114.074	100	I	7.0	7.0	1.378	*1.175	3	20485- 4134
16351.58	6113.927	100	I	0.0	7.0			1	12007-28358
16358.50	6111.337	1	I	9.0	8.0				9990-26349
16379.84	6103.375	100	I	7.0	6.0	1.33	1.34	1	8519-24899
16389.86	6099.646	30	I	5.0	6.0	1.36	*1.073	1	23440- 7050
16413.42	6090.889	100	I	6.0	6.0	1.18	*1.073	3	23464- 7050
16420.51	6088.261	3000 R	I	6.0	7.0	1.11	1.18	2	20554- 4134
16429.15	6085.056	1000 R	I	7.0	6.0	1.13	1.07	2	23479- 7050
16456.29	6075.020	30	I	9.0	8.0			1	15972-32428
16502.05	6058.176	300	I	5.0	6.0	1.07	1.07	4	23552- 7050
16502.05	6058.176		I	8.0	7.0				20793-37295

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS OCC-EVEN
						G-C	G-E	TYPE	
16576.46	6030.980	300	I	7.0	8.0	1.32	1.39	2	8519-25095
16611.71	6018.184	1	I	7.0	8.0				14367-30979
16614.25	6017.263	1000 R	I	6.0	5.0	1.00	0.91	2	25825- 9211
16632.07	6010.815	3000 R	I	7.0	7.0	1.16	1.17	3	20766- 4134
16636.18	6009.331	100	I	7.0	8.0	1.36	1.37	2	12655-29291
16637.27	6008.938	1000	I	6.0	6.0	1.076	1.076	4	23687- 7050
16638.89	6008.351	10	I	8.0	9.0				15567-32206
16653.00	6003.262	100 B	I	6.0	6.0			3	11673-28326
16659.72	6000.838	100	I	8.0	7.0	1.22	1.17	2	20793- 4134
16661.33	6000.259	1	I	5.0	6.0				23711- 7050
16672.86	5996.111	1	I	8.0	8.0				16733-33406
16681.00	5993.184	3	I	7.0	8.0				21675-38356
16685.20	5991.674	100	I	6.0	7.0	1.39	1.35	1	11673-28358
16688.46	5990.505	3	I	7.0	7.0				20822- 4134
16693.87	5988.562	3000 R	I	9.0	8.0	1.26	1.24	2	16693- 0
16701.05	5985.990	300	I	5.0	5.0	1.03	0.91	3	25912- 9211
16712.21	5981.994	1		9.0	8.0				16693-33406
16722.68	5978.248	3	II	7.0	8.0				20954-37676
16733.20	5974.487	3000	I	8.0	8.0	1.20	1.24	3	16733- 0
16733.20	5974.487		I	8.0	8.0				20793-37527
16742.55	5971.152	1	I	8.0	7.0				16733-33475
16759.67	5965.052	100	I	6.0	7.0			A	10088-26848
16761.32	5964.464	1000 R	I	9.0	10.0	1.33	1.37	2	9990-26752
16768.04	5962.075	3	I	7.0	8.0				21783-38551
16812.20	5946.415	1	I	8.0	8.0				22564-39376
16813.93	5945.803	1000 R	I	10.0	10.0	1.30	1.32	3	12892-29706
16813.93	5945.803		I	8.0	7.0				20793-37607
16819.21	5943.935	0		8.0	7.0				16733-33552
16819.95	5943.674	300	I	7.0	7.0	1.410	1.178	3	20954- 4134
16821.93	5942.975	3	I	10.0	9.0				12892-29714
16830.90	5939.807	1	I	6.0	7.0				18172-35003
16841.65	5936.017	1	I	7.0	7.0				15194-32036
16845.84	5934.540	1	I	6.0	7.0				21418-38264
16846.43	5934.333	3	I	8.0	8.0				19092-35938
16861.26	5929.111	3	I	8.0	8.0				15567-32428
16880.48	5922.360	30	I	8.0	8.0			3	16880- 0
16887.50	5919.899	0		8.0	8.0				15567-32554
16909.35	5912.248	0		7.0	8.0				18339-35249
16954.26	5896.588	3	I	7.0	7.0				21783-38737
16957.40	5895.498	1		8.0	7.0				20793-37751
16963.70	5893.307	30	I	9.0	9.0			3	13495-30459
16964.30	5893.098	30	I	8.0	8.0			3	12007-28971
16989.04	5884.518	10	I	7.0	8.0				17687-34676
16989.99	5884.189	30	I	6.0	6.0	1.26	*1.073	3	24040- 7050
17019.21	5874.086	3	I	7.0	8.0				20822-37841

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS		
				J-C	J-E	G-C	G-E	TYPE	ODD-EVEN
17048.41	5864.025	100	I	8.C	7.0			1	14625-31674
17059.24	5860.301	1	I	9.0	8.0				16693-33753
17068.92	5856.976	30	I	9.C	8.0				9990-27059
17074.25	5855.149	3	I	8.0	8.0				21899-38973
17104.21	5844.894	3	I	9.0	8.0				13495-30600
17149.99	5829.292	30	I	8.C	9.0	1.26	1.27	2	14625-31775
17155.48	5827.427	3	I	8.0	7.0				15567-32722
17186.54	5816.895	3	I	7.0	8.0				12655-29841
17220.11	5805.554	300	I	9.0	9.0	1.24	1.26	3	13495-30716
17222.20	5804.850	1	I	7.C	7.0				12655-29877
17265.79	5790.196	3	I	8.C	8.0				19688-36954
17284.20	5784.026	10	I	6.0	7.0				21418- 4134
17284.20	5784.026	10	I	8.C	8.0				12007-29291
17322.39	5771.276	10	I	6.0	7.0				21456- 4134
17355.62	5760.223	1	I	8.C	8.0				18021-35377
17359.94	5758.793	300	I	7.C	7.0	1.34	1.35	3	8519-25879
17385.82	5750.219	10	I	6.C	6.0				10088-27474
17400.C1	5745.529	1000	I	9.0	9.0	1.32	1.35	3	9990-27390
17402.11	5744.837	1		7.C	8.0				20954-38356
17433.71	5734.424	3	I	9.C	8.0				15972-33406
17454.93	5727.451	100	I	9.0	8.0	1.32	1.34	1	9990-27445
17477.73	5719.978	3	II	8.0	8.0				21899-39376
17482.37	5718.461	1000	I	7.C	7.0	1.25	1.17	3	21616- 4134
17491.41	5715.505	0	I	8.C	9.0				20793-38285
17505.14	5711.025	30	I	8.0	7.0			1	12007-29512
17522.02	5705.521	0	I	9.C	8.0				17727-35249
17530.05	5702.908	300	I	8.C	8.0	1.36	1.40	3	7565-25095
17541.05	5699.332	300	I	7.0	7.0	1.22	1.18	3	21675- 4134
17564.98	5691.567	1	I	6.C	7.0				21699- 4134
17564.98	5691.567	1	I	7.C	6.0				18528-36093
17566.86	5690.959	10	I	10.0	9.0				12892-30459
17583.47	5685.583	300	I	5.0	6.0	1.210	1.066	1	24634- 7050
17649.19	5664.411	30	I	7.C	7.0	1.20	1.18	3	21783- 4134
17650.37	5664.031	0	I	9.0	8.0				17727-35377
17650.37	5664.031	0	I	8.0	9.0				20793-38444
17658.64	5661.380	10	I	9.C	10.0				17727-35385
17678.77	5654.934	1	I	8.0	8.0				15567-33246
17687.92	5652.009	1000	I	7.C	8.0				17687- 0
17689.60	5651.469	30	I	7.0	8.0				17687-35377
17707.60	5645.727	30	I	8.C	9.0				12007-29714
17727.16	5639.498	3000 R	I	9.0	8.0	1.25	1.24	2	17727- 0
17764.98	5627.490	300	I	8.C	7.0	1.20	1.17	2	21899- 4134
17780.75	5622.498	30	I	9.C	8.0	1.29	1.29	4	15972-33753
17820.79	5609.866	30	I	7.C	6.0	1.36	1.36	4	12655-30475
17823.26	5609.087	3	I	10.0	9.0				12892-30716

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
17834.57	5605.531	3	I	8.0	8.0				12007-29841
17838.74	5604.222	3	I	6.0	7.0				11673-29512
17864.77	5596.055	10	I	6.0	7.0				21998- 4134
17870.26	5594.338	10	I	8.0	7.0				12007-29877
17899.09	5585.325	3	I	6.0	6.0				10088-27987
17908.36	5582.435	1	I	8.0	7.0				15567-33475
17927.06	5576.611	10	I	7.0	7.0				22061- 4134
17929.18	5575.951	10	I	8.0	8.0				14625-32554
17934.37	5574.337	10	I	7.0	8.0				19907-37841
17942.87	5571.696	3	I	6.0	6.0				19182-37125
17945.01	5571.034	1	II	7.0	8.0				12655-30600
17966.73	5564.298	10	I	7.0	7.0				12655-30621
17995.15	5555.511	1	I	0.0	0.0				19092-37087
18008.65	5551.345	1	I	6.0	6.0				11673-29682
18021.89	5547.268	1000 R	I	8.0	8.0	1.23	1.24	3	18021- 0
18048.46	5539.101	10	I	8.0	8.0				18343-36392
18051.29	5538.231	30	I	7.0	8.0			A	15194-33246
18060.87	5535.296	3		7.0	8.0				14367-32428
18082.99	5528.524	10	I	7.0	6.0				25133- 7050
18084.66	5528.012	300	I	7.0	8.0	1.36	1.31	1	12655-30739
18111.16	5519.925	30	I	8.0	7.0				20341-38452
18137.54	5511.895	30	I	8.0	9.0			2	14625-32763
18167.54	5502.794	300	I	9.0	9.0	1.32	1.33	3	9990-28158
18185.73	5497.288	30	I	8.0	8.0	1.33	1.33	4	15567-33753
18203.80	5491.809	30	I	6.0	7.0	1.39	1.38	1	11673-29877
18230.41	5483.818	1		7.0	8.0				18857-37087
18237.66	5481.637	30	I	6.0	6.0	1.35	1.34	3	10088-28326
18252.26	5477.253	30	I	7.0	7.0				20485-38737
18269.91	5471.961	30	I	6.0	7.0	1.35	1.35	4	10088-28358
18278.44	5469.106	0		7.0	6.0				15194-33474
18281.00	5468.641	10	I	7.0	7.0				15194-33475
18291.03	5465.642	30	I	8.0	8.0	1.25	1.25	4	18291- 0
18313.53	5458.926	3	I	8.0	7.0				7565-25879
18324.32	5455.711	30	I	9.0	8.0			2	13495-31820
18329.24	5454.249	3	I	7.0	7.0				8519-26848
18339.79	5451.109	1000 R	I	7.0	8.0	1.21	1.24	2	18339- 0
18343.64	5449.965	30	I	8.0	8.0			3	18343- 0
18394.28	5434.961	30	I	10.0	9.0				12892-31287
18430.53	5424.273	300 R	I	8.0	7.0	1.07	1.17	1	22564- 4134
18433.77	5423.319	1000 R	I	7.0	8.0	1.20	1.24	2	18433- 0
18437.77	5422.141	3	I	8.0	7.0				12007-30444
18460.63	5415.429	1	I	8.0	9.0				14625-33086
18476.10	5410.893	1		9.0	10.0				21529-40005
18499.01	5404.192	300	I	6.0	7.0	1.29	1.17	1	22633- 4134
18499.53	5404.039	1		8.0	9.0				19092-37591

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS	
				J-C	J-E	G-C	G-E	TYPE
18509.07	5401.256	1		7.0	7.0			18857-37366
18528.56	5395.572	300	I	7.0	8.0	1.468	1.243	1 18528- 0
18530.10	5395.126	10	I	7.0	6.0			18528-37058
18540.69	5392.044	300	I	7.0	8.0	1.33	1.29	1 8519-27059
18540.69	5392.044		I	7.0	7.0			16202-34742
18548.60	5389.744	30	I	9.0	8.0			9990-28539
18575.71	5381.878	3		8.0	7.0			19688-38264
18596.86	5375.757	3	I	7.0	6.0			18528-37125
18614.76	5370.588	100	I	8.0	7.0	1.29	1.27	2 12007-30621
18620.47	5368.941	3	I	8.0	8.0			14625-33246
18629.19	5366.427	1		7.0	7.0			21616-40245
18664.96	5356.142	10	I	9.0	8.0			17727-36392
18686.25	5350.040	1	I	8.0	9.0			18021-36708
18695.69	5347.338	1	I	8.0	9.0			18021-36717
18704.61	5344.788	0		9.0	8.0			15972-34676
18708.92	5343.557	100	I	8.0	9.0			12007-30716
18710.33	5343.154	100	I	9.0	9.0	1.23	1.24	3 13495-32206
18732.66	5336.786	30	I	8.0	8.0			12007-30739
18755.27	5330.351	1	I	7.0	7.0			22889- 4134
18760.04	5328.997	10	II	9.0	9.0			17727-36487
18771.37	5325.780	10	I	6.0	7.0			11673-30444
18775.20	5324.695			6.0	6.0			25825- 7050
18783.88	5322.233	100	I	8.0	8.0	1.36	1.34	3 7565-26349
18802.44	5316.981	100	I	6.0	6.0			3 11673-30475
18851.40	5303.170	10	I	7.0	8.0			16202-35053
18857.07	5301.576	1000 R	I	7.0	8.0	1.34	1.24	1 18857- 0
18872.28	5297.302	3	I	7.0	7.0			18339-37212
18878.31	5295.610	10	I	7.0	8.0			14367-33246
18893.76	5291.281	1	I	9.0	8.0			14512-33406
18925.66	5282.360	30	I	4.0	4.0			29850-10925
18926.70	5282.072	300 R	I	7.0	8.0	1.35	1.35	4 8519-27445
18932.72	5280.391	10	I	9.0	8.0			13495-32428
18955.42	5274.068	100	I	7.0	6.0	1.32	1.35	1 8519-27474
18980.46	5267.111	300 R	I	9.0	8.0	1.31	1.34	1 9990-28971
18990.40	5264.354	30	I	9.0	9.0			17727-36717
19092.31	5236.253	300 R	I	8.0	8.0	1.33	1.24	3 19092- 0
19095.10	5235.489	1	I	9.0	9.0			17727-36822
19106.46	5232.374	10	I	7.0	6.0			14367-33474
19123.08	5227.827	30	I	7.0	7.0			23257- 4134
19190.18	5209.547	1	I	8.0	7.0			18021-37212
19205.56	5205.375	10	I	8.0	8.0			16733-35938
19227.22	5199.511	10	I	9.0	8.0			17727-36954
19267.25	5188.710	3	I	9.0	9.0			13495-32763
19279.93	5185.297	3	I	8.0	9.0			12007-31287
19282.87	5184.506	100	I	8.0	7.0			2 7565-26848

WAVE NUMBER	WAVE LENGTH	INT	SA	J		ZEEMAN DATA		TYPE	LEVELS	
				J-G	J-E	G-C	G-E		ODD-EVEN	
19317.59	5175.187	30	I	7.0	7.0				3	18433-37751
19329.80	5171.919	100	I	6.0	7.0				2	23464- 4134
19345.54	5167.711	10	I	7.0	7.0					23479- 4134
19371.76	5160.716	3	I	9.0	9.0					21838-41210
19376.56	5159.437	1	I	8.0	8.0					10021-37398
19377.59	5159.162	100	I	7.0	8.0	1.33	1.33	4		8519-27896
19405.15	5151.835	3	I	9.0	8.0					15972-35377
19411.55	5150.137	10	I	7.0	7.0					18339-37751
19413.42	5149.642	100	I	9.0	10.0					15972-35385
19423.46	5146.978	30	I	6.0	7.0					10088-29512
19438.32	5143.044	3	I	7.0	7.0					14367-33806
19440.78	5142.395	3	I	7.0	7.0					8519-27959
19468.69	5135.023	100	I	7.0	6.0	1.33	1.30	2		8519-27907
19474.07	5133.603	30	I	9.0	9.0	1.32	1.32	4		9990-29465
19494.24	5128.292	30	I	8.0	8.0					7565-27059
19549.03	5113.919	3	I	8.0	9.0					14625-34174
19553.64	5112.713	30	I	6.0	7.0					23687- 4134
19569.94	5108.454	10	I	8.0	9.0					18021-37591
19593.35	5102.350	100	I	6.0	6.0	1.36	1.36	4		10088-29682
19602.37	5100.003	30	I	7.0	7.0					23736- 4134
19658.92	5085.333	10	I	8.0	8.0					16733-36392
19666.97	5083.251	3	I	8.0	7.0					12007-31674
19680.54	5079.746	3	I	9.0	9.0					21529-41210
19688.59	5077.669	300 R	I	8.0	8.0	1.22	1.24	3		19688- 0
19697.87	5075.276	1	I	8.0	7.0					23832- 4134
19715.73	5070.678	1000 R	I	9.0	10.0	1.32	1.32	4		9990-29706
19727.12	5067.752	1	I	7.0	7.0					12655-32382
19729.43	5067.157	3		8.0	7.0					18021-37751
19735.74	5065.537	30	I	7.0	7.0					18528-38264
19743.52	5063.541	10	I	8.0	7.0					23877- 4134
19768.53	5057.135	1		8.0	9.0					12007-31775
19773.52	5055.859	10	I	7.0	8.0					12655-32428
19788.58	5052.010	100	I	6.0	7.0	1.36	1.37	2		10088-29877
19790.22	5051.592	C	I	9.0	9.0					15972-35762
19795.62	5050.215	300	I	7.0	6.0				1	26846- 7050
19807.25	5047.249	300	I	7.0	6.0	1.33	1.33	4		8519-28326
19808.88	5046.835	3		7.0	7.0					15194-35003
19811.52	5046.161	3		7.0	8.0					19811- 0
19813.14	5045.750	10	I	8.0	8.0					12007-31820
19825.38	5042.634	10000 R	I	8.0	9.0	1.36	1.35	1		7565-27390
19827.72	5042.038	30	I	7.0	8.0					18528-38356
19839.49	5039.046	100	I	7.0	7.0	1.33	1.34	3		8519-28358
19864.67	5032.660	100	I	9.0	9.0	1.25	1.29	3		17727-37591
19870.43	5031.200	C	I	10.0	9.0					12892-32763
19879.13	5028.999	10	I	7.0	8.0					20954-40833

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA				TYPE	LEVELS CCC-EVEN
				J-C	J-E	G-C	G-E		
19906.36	5022.119	1000 R	I	6.0	7.0	1.26	1.17	1	24040- 4134
19907.49	5021.835	100	I	7.0	8.0	1.23	1.24	2	19907- 0
19968.01	5006.614	3	I	9.0	9.0				15972-35940
19974.95	5004.874	3	I	8.0	9.0				16733-36708
19984.37	5002.514	10	I	8.0	9.0				16733-36717
20000.57	4998.462	100	I	6.0	7.0			1	11673-31674
20003.91	4997.630	10	I	8.0	9.0				19688-39692
20014.31	4995.031	3	I	9.0	9.0				16693-36708
20018.71	4993.932	3	I	7.0	7.0				18433-38452
20020.38	4993.518	100	I	7.0	8.0			1	8519-28539
20029.38	4991.273	3	I	8.0	7.0				12007-32036
20054.31	4985.068	30	I	7.0	8.0				15194-35249
20063.56	4982.770	3	I	8.0	9.0				14625-34689
20074.21	4980.125	30	I	8.0	8.0				16733-36807
20089.06	4976.444	10	I	8.0	9.0				16733-36822
20100.68	4973.568	100	I	8.0	9.0				18343-38444
20164.33	4957.868	1		6.0	5.0				29375- 9211
20182.66	4953.366	100	I	7.0	8.0			4	15194-35377
20193.48	4950.712	0		10.0	9.0				12892-33086
20195.18	4950.294	10	I	8.0	9.0				15567-35762
20199.16	4949.319	30	I	8.0	9.0				12007-32206
20203.66	4948.217	100	I	8.0	9.0				14625-34829
20209.10	4946.885	1	I	7.0	7.0				18528-38737
20235.53	4940.425	100	I	7.0	6.0			4	15858-36093
20257.19	4935.141	10	I	9.0	8.0				13495-33753
20279.58	4929.693	3	I	6.0	7.0				18172-38452
20309.15	4922.516	30	I	7.0	8.0				14367-34676
20331.21	4917.175	300	I	8.0	8.0	1.36	1.33	3	7565-27896
20334.37	4916.409	1000	I	8.0	8.0	1.22	1.22	4	18021-38356
20341.32	4914.729	1000	I	8.0	8.0	1.23	1.24	3	20341- 0
20356.08	4911.167	100	I	6.0	7.0			A	10088-30444
20363.01	4909.494	30	I	6.0	7.0				11673-32036
20371.37	4907.479	100	I	8.0	8.0	1.32	1.34	3	15567-35938
20372.99	4907.089	30	I	8.0	9.0			4	15567-35940
20375.21	4906.554	10	I	8.0	7.0				12007-32382
20376.47	4906.252	1000	I	7.0	6.0	1.08	1.08	4	27427- 7050
20378.06	4905.868	3	I	8.0	7.0				14625-35003
20387.15	4903.682	300	I	6.0	6.0	1.36	1.36	4	10088-30475
20394.39	4901.941	300	I	8.0	7.0	1.37	1.36	2	7565-27959
20404.12	4899.603	1	I	8.0	7.0				12007-32411
20419.76	4895.850	300		9.0	8.0	1.29	1.33	1	15972-36392
20427.95	4893.888	10	I	8.0	8.0				14625-35053
20452.21	4888.081	3000 R	I	7.0	8.0	1.34	1.35	2	8519-28971
20468.67	4884.152	1000	I	9.0	9.0			3	9990-30459
20478.89	4881.714	0		8.0	7.0				16733-37212

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS				
				J-C	J-E	G-C	G-E	TYPE	ODD-EVEN		
20485.41	4880.161	10000	R	I	7.0	8.0	1.375	1.240	1	20485-	0
20498.80	4876.973	0		II	7.0	8.0				15439-	35938
20514.84	4873.159	300		I	9.0	9.0	1.30	1.31	3	15972-	36487
20517.71	4872.476	100		I	9.0	10.0				15972-	36490
20529.58	4869.660	30		I	8.0	8.0				18021-	38551
20533.07	4868.832	30		I	6.0	7.0				10088-	30621
20547.73	4865.359	10		I	8.0	8.0				12007-	32554
20549.79	4864.870	1		I	7.0	6.0				15194-	35744
20562.78	4861.798	10		I	8.0	7.0				16733-	37295
20569.59	4860.188	1			9.0	9.0				9990-	30560
20574.74	4858.971	300		I	7.0	7.0	1.26	*1.175	3	24708-	4134
20590.99	4855.136	100		I	7.0	8.0				12655-	33246
20592.91	4854.685	10		I	8.0	9.0				7565-	28158
20594.21	4854.378	3		I	8.0	9.0				14625-	35219
20602.74	4852.367	3		I	9.0	10.0				17725-	38329
20609.19	4850.850	30		I	9.0	8.0	1.32	1.32	4	9990-	30600
20629.14	4846.158	3		I	9.0	8.0				17727-	38356
20632.91	4845.272	10		I	8.0	7.0				16733-	37366
20635.93	4844.563	3		I	7.0	7.0				14367-	35003
20639.32	4843.767	100		I	4.0	5.0				29850-	9211
20662.28	4838.384	3			7.0	8.0				18433-	39096
20665.28	4837.683	100		I	8.0	8.0				16733-	37398
20668.42	4836.947	100		I	8.0	8.0	1.28	1.28	4	12007-	32675
20678.74	4834.534	3		I	9.0	9.0				13495-	34174
20692.19	4831.392	0			8.0	9.0				18343-	39035
20704.60	4828.494	10			6.0	7.0				16591-	37295
20704.60	4828.494	10		I	9.0	8.0				16693-	37398
20708.79	4827.519	100		I	6.0	7.0	1.40	1.37	1	11673-	32382
20715.76	4825.894	3		I	8.0	7.0				12007-	32722
20715.76	4825.894	3		I	8.0	7.0				18021-	38737
20725.08	4823.723	300		I	9.0	9.0			3	9990-	30716
20740.72	4820.087	100		I	8.0	8.0			3	15567-	36308
20745.22	4819.041	3000	R	I	9.0	9.0	1.29	1.29	4	15972-	36717
20748.83	4818.203	300		I	9.0	8.0	1.35	1.35	4	9990-	30739
20751.88	4817.494	1			8.0	8.0				14625-	35377
20756.09	4816.517	100		I	8.0	9.0	1.29	1.30	2	12007-	32763
20766.29	4814.150	100		I	7.0	8.0			2	20766-	0
20772.12	4812.801	1000		I	7.0	8.0	1.32	1.35	2	8519-	29291
20772.65	4812.677	1000		I	7.0	7.0	1.14	*1.175	3	24906-	4134
20784.34	4809.969	3		I	7.0	6.0				27834-	7050
20793.11	4807.942	1000		I	8.0	7.0	1.36	1.36	4	7565-	28358
20793.93	4807.751	0		I	8.0	8.0				20793-	0
20793.93	4807.751	0		I	8.0	8.0				16733-	37527
20822.66	4801.117	30		I	7.0	8.0				20822-	0
20824.31	4800.739	100		I	9.0	8.0	1.25	1.25	4	17727-	38551

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA				TYPE	LEVELS ODD-EVEN
				J-C	J-E	G-C	G-E		
20824.74	4800.639	1000	I	8.0	8.0	1.32	1.34	3	15567-36392
20833.27	4798.673	100	I	9.0	8.0				16693-37527
20834.96	4798.284	30	I	9.0	8.0				15972-36807
20848.12	4795.255	1	I	8.0	8.0				18021-38870
20849.90	4794.845	300	I	9.0	9.0	1.30	1.25	3	15972-36822
20858.61	4792.843	300	I	8.0	9.0	1.27	1.27	4	16733-37591
20865.38	4791.289	3000 R	I	8.0	7.0	1.19	1.18	2	24999- 4134
20878.00	4788.393	300	I	8.0	7.0	1.34	*1.175	2	25012- 4134
20898.70	4783.650	3	I	7.0	6.0				15194-36093
20919.85	4778.813	10	I	8.0	9.0				15567-36487
20933.91	4775.604	30	I	7.0	6.0				27984- 7050
20943.71	4773.367	100	I	8.0	8.0				16733-37676
20951.52	4771.589	3	I	8.0	8.0				18021-38973
20954.19	4770.981	10	I	7.0	8.0				20954- 0
20973.97	4766.481	100	I	8.0	8.0			3	7565-28539
20982.02	4764.652	300	I	9.0	8.0	1.29	1.29	4	15972-36954
20988.58	4763.163	3	I	9.0	8.0				9990-30979
20999.37	4760.715	3	I	7.0	7.0				25133- 4134
21009.70	4758.375	100	I	7.0	8.0	1.28	1.29	2	14367-35377
21013.21	4757.580	30	I	6.0	5.0				30224- 9211
21013.97	4757.408	30	I	8.0	9.0			2	18021-39035
21033.26	4753.045	3	I	8.0	8.0				18343-39376
21035.96	4752.434	10	I	6.0	7.0				10088-31124
21049.39	4749.403	10	I	6.0	7.0				11673-32722
21063.14	4746.302	C	I	6.0	7.0				19182-40245
21065.68	4745.730	100	I	5.0	4.0				31990-10925
21079.15	4742.698	1000	I	8.0	9.0	1.28	1.29	2	12007-33086
21093.80	4739.403	0	I	7.0	7.0				16202-37295
21097.97	4738.466	300	I	7.0	8.0	1.36	1.31	1	12655-33753
21104.65	4736.967	1	I	5.0	4.0				32029-10925
21108.66	4736.067	100	I	8.0	8.0				16733-37841
21115.13	4734.617	300	I	9.0	8.0	1.29	1.32	1	15972-37087
21136.91	4729.738	10	I	8.0	9.0				14625-35762
21140.79	4728.869	3000 R	I	8.0	9.0	1.31	1.32	2	15567-36708
21142.88	4728.402	100	I	9.0	8.0				17727-38870
21147.07	4727.466	100	I	6.0	6.0			3	28197- 7050
21148.00	4727.257	300	I	9.0	8.0				16693-37841
21150.20	4726.765	1000	I	8.0	9.0	1.30	1.28	1	15567-36717
21150.99	4726.589	100	I	7.0	7.0				12655-33806
21162.96	4723.916	300	I	7.0	6.0	1.33	1.34	1	8519-29682
21182.10	4719.647	30	I	7.0	8.0				17687-38870
21182.83	4719.485	3	I	8.0	8.0				19688-40871
21193.28	4717.158	300	I	9.0	9.0			3	13495-34689
21215.03	4712.321	0	I	6.0	5.0				30426- 9211
21239.03	4706.997	100	I	8.0	8.0			3	12007-33246

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA					LEVELS ODD-EVEN
				J-C	J-E	G-C	G-E	TYPE	
21240.04	4706.773	3000	I	8.0	8.0	1.32	1.34	3	15567-36807
21245.16	4705.637	100	I	8.0	9.0				12007-33252
21246.32	4705.380	10	I	9.0	8.0				17727-38973
21254.95	4703.471	3000 B	I	8.0	9.0	1.35	1.29	1	15567-36822
21267.46	4700.703	10	I	7.0	6.0				15858-37125
21281.90	4697.513	300	I	10.0	9.0	1.29	1.30	1	12892-34174
21296.07	4694.389	100	I	9.0	9.0			3	9990-31287
21308.74	4691.596	300	I	9.0	9.0	1.26	1.24	3	17727-39035
21314.71	4690.282	100	I	8.0	9.0				14625-35940
21322.49	4688.570	3	I	7.0	8.0				8519-29841
21337.88	4685.189	10	I	5.0	4.0				32263-10925
21355.03	4681.428	10	I	8.0	8.0				18021-39376
21358.17	4680.739	300	I	7.0	7.0			3	8519-29877
21368.91	4678.386	30	I	9.0	8.0				17727-39096
21376.82	4676.654	10	I	7.0	6.0				14367-35744
21383.85	4675.119	30	II	8.0	7.0				16880-38264
21386.97	4674.435	30	I	8.0	8.0				15567-36954
21388.73	4674.051	0	I	7.0	7.0				18857-40245
21398.96	4671.817	10	I	8.0	8.0				12007-33406
21405.81	4670.320	30	I	8.0	8.0				7565-28971
21426.13	4665.893	300	I	9.0	8.0			2	15972-37398
21468.62	4656.658	30	I	8.0	7.0				12007-33475
21475.79	4655.102	10	I	8.0	8.0				16880-38356
21493.83	4651.196	10	I	8.0	7.0				14625-36119
21520.11	4645.516	10	I	8.0	8.0				15567-37087
21529.74	4643.438	3000 R	I	9.0	8.0	1.24	1.24	4	21529- 0
21545.31	4640.081	30	I	8.0	7.0	1.29	1.29	4	12007-33552
21552.23	4638.593	3	I	8.0	9.0				16733-38285
21554.82	4638.035	30	I	9.0	8.0				15972-37527
21567.41	4635.328	30	I	6.0	5.0				30778- 9211
21585.28	4631.489	3000 R	I	6.0	7.0	1.36	1.31	1	10088-31674
21602.31	4627.837	3		7.0	6.0				14367-35970
21612.48	4625.661	1000	I	7.0	8.0			2	15194-36807
21616.61	4624.776	0	I	7.0	8.0				21616- 0
21619.47	4624.164	30	I	9.0	9.0				15972-37591
21623.10	4623.388	30	I	8.0	8.0				16733-38356
21629.15	4622.095	10	I	6.0	5.0				30840- 9211
21644.71	4618.773	10	I	8.0	7.0				15567-37212
21662.43	4614.994	1	II	9.0	8.0				16693-38356
21670.60	4613.254	100	I	8.0	9.0			A	18021-39692
21671.00	4613.170	30	I	8.0	8.0				16880-38551
21675.28	4612.258	10000 R	I	7.0	8.0	1.22	1.24	2	21675- 0
21691.60	4608.788	30	I	6.0	7.0				25825- 4134
21704.56	4606.037	1000 R	I	9.0	8.0	1.29	1.31	1	15972-37676
21725.72	4601.551	100	I	7.0	6.0	1.27	1.26	2	14367-36093

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
21728.61	4600.938	3	I	8.0	7.0				15567-37295
21733.77	4599.845	1000 R	I	6.0	7.0	1.30	1.17	1	25868- 4134
21734.72	4599.644	10	I	6.0	7.0				25868- 4134
21735.17	4599.549	10	I	5.0	5.0				30946- 9211
21746.01	4597.256	100	I	8.0	8.0			3	12007-33753
21751.67	4596.060	10	I	7.0	7.0				14367-36119
21753.16	4595.746	3	II	9.0	8.0				13495-35249
21766.49	4592.931	30	I	8.0	8.0				14625-36392
21767.75	4592.665	30	II	8.0	7.0				18477-40245
21783.45	4589.355	10000 R	I	7.0	8.0	1.15	1.24	2	21783- 0
21784.71	4589.089	1000	I	9.0	9.0			3	9990-31775
21795.94	4586.725	30		6.0	5.0				31007- 9211
21796.44	4586.620	100 B	I	10.0	9.0			2	12892-34689
21798.72	4586.139	3	I	8.0	7.0				15567-37366
21799.02	4586.078	300	I	8.0	7.0			A	12007-33806
21800.80	4585.703	1000 R	I	6.0	6.0	1.39	1.38	3	11673-33474
21802.24	4585.399	100	I	6.0	7.0				11673-33475
21812.05	4583.338	100	II	7.0	7.0				18433-40245
21818.27	4582.030	100	I	8.0	8.0				16733-38551
21829.30	4579.716	100	I	9.0	8.0				9990-31820
21831.10	4579.338	300	I	8.0	8.0			3	15567-37398
21838.55	4577.775	10000 R	I	9.0	8.0	1.25	1.24	2	21838- 0
21857.60	4573.786	300	I	9.0	8.0			1	16693-38551
21861.56	4572.958	100	II	8.0	9.0				14625-36487
21863.78	4572.493	10	I	7.0	6.0				15194-37058
21869.51	4571.294	100	I	9.0	8.0				15972-37841
21881.61	4568.766	30	I	9.0	8.0				13495-35377
21889.86	4567.044	1000 R	I	9.0	10.0	1.24	1.27	2	13495-35385
21892.66	4566.460	3	I	7.0	8.0				15194-37087
21899.23	4565.091	3000 R	I	8.0	8.0	1.20	1.24	3	21899- 0
21918.09	4561.163	1	I	8.0	7.0				18477-40396
21925.69	4559.582	300	I	7.0	7.0	1.31	1.31	4	8519-30444
21930.54	4558.573	3	I	7.0	6.0				15194-37125
21936.55	4557.324	1000	I	10.0	9.0	1.29	1.27	2	12892-34829
21940.30	4556.545	300	I	7.0	8.0	1.26	1.26	4	14367-36308
21946.69	4555.219	3000 R	I	8.0	7.0	1.36	1.36	4	7565-29512
21947.71	4555.007	1000	I	6.0	7.0			1	10088-32036
21956.76	4553.130	1000	I	7.0	6.0	1.32	1.33	1	8519-30475
21958.48	4552.773	30	II	7.0	8.0				15439-37398
21963.89	4551.651	30 W	I	5.0	4.0				32889-10925
21983.83	4547.523	10	I	7.0	8.0				15858-37841
22017.25	4540.618	1	I	7.0	7.0				15194-37212
22024.46	4539.134	1000 R	I	8.0	9.0			1	15567-37591
22061.31	4531.552	3000 R	I	7.0	8.0	1.18	1.24	1	22061- 0
22080.94	4527.524	1000	I	7.0	8.0	1.32	1.31	1	8519-30600

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS	
				J-C	J-E	G-C	G-E	TYPE
22087.17	4526.245	0	II	7.0	8.0			15439-37527
22091.93	4525.271	30	I	8.0	9.0			14625-36717
22100.40	4523.536	100	I	5.0	4.0			33025-10925
22101.13	4523.388	10	I	7.0	7.0			15194-37295
22102.65	4523.075	3	I	7.0	7.0			8519-30621
22109.53	4521.669	100	I	8.0	8.0	1.315	1.315	4 15567-37676
22117.95	4519.947	0	II	8.0	9.0			19092-41210
22129.79	4517.528	10	I	6.0	5.0			31341- 9211
22132.62	4516.951	1000	I	6.0	7.0	1.392	1.198	1 11673-33806
22136.81	4516.095	100	I	8.0	8.0			16733-38870
22149.12	4513.586	1000	I	8.0	9.0	1.36	1.31	1 7565-29714
22167.58	4509.826	10	I	8.0	9.0			12007-34174
22167.96	4509.750	0	II	7.0	7.0			15439-37607
22168.61	4509.617	1	I	9.0	9.0			17727-39895
22176.15	4508.086	300	I	9.0	8.0	1.27	1.25	2 16693-38870
22177.56	4507.798	300	I	5.0	4.0			33102-10925
22181.79	4506.939	300	I	8.0	8.0			A 14625-36807
22183.99	4506.492	10	I	8.0	7.0			15567-37751
22196.61	4503.930	0	I	8.0	9.0			14625-36822
22199.35	4503.372	1000	I	5.0	5.0	1.242	0.910	3 31410- 9211
22213.98	4500.407	1	I	5.0	4.0			33139-10925
22215.31	4500.138	30	I	9.0	9.0			9990-32206
22220.58	4499.071	100	I	7.0	8.0			8519-30739
22240.27	4495.088	100	I	8.0	8.0			16733-38973
22266.64	4489.763	100	I	9.0	9.0			13495-35762
22274.48	4488.182	300	I	8.0	8.0	1.31	1.29	3 15567-37841
22276.10	4487.857	300	I	8.0	8.0	1.36	1.32	3 7565-29841
22278.69	4487.336	1	I	9.0	10.0			17727-40005
22279.59	4487.153	100	I	9.0	8.0			16693-38973
22293.49	4484.357	3000	I	6.0	7.0	1.37	1.37	4 10088-32382
22302.69	4482.507	30	I	8.0	9.0			16733-39035
22311.15	4480.807	30	I	5.0	5.0			31522- 9211
22311.78	4480.680	1000	I	8.0	7.0	1.36	1.38	1 7565-29877
22313.02	4480.432	30	I	9.0	9.0			15972-38285
22322.42	4478.544	100	I	6.0	7.0			10088-32411
22325.32	4477.963	10	I	6.0	6.0			29375- 7050
22327.10	4477.606	300	I	10.0	9.0			12892-35219
22344.38	4474.142	10	I	6.0	5.0			31555- 9211
22348.61	4473.295	0	II	7.0	7.0			12655-35003
22357.57	4471.503	100	I	9.0	10.0			15972-38329
22383.93	4466.238	300	I	9.0	8.0			15972-38356
22398.80	4463.273	300	I	4.0	4.0			33324-10925
22399.54	4463.124	10	I	7.0	8.0			18433-40833
22417.69	4459.511	3	I	5.0	4.0			33342-10925
22437.12	4455.650	1000	I	9.0	8.0			2 9990-32428

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
22439.59	4455.158	30	II	7.0	8.0				14367-36807
22442.82	4454.516	10	I	9.0	8.0				13495-35938
22444.44	4454.196	30	I	9.0	9.0				13495-35940
22460.34	4451.042	3	I	7.0	8.0				8519-30979
22461.80	4450.753	10	II	8.0	8.0				14625-37087
22472.04	4448.723	C	I	9.0	9.0				15972-38444
22482.07	4446.740	3	I	7.0	8.0				15194-37676
22493.02	4444.576	3000	I	10.0	10.0	1.29	1.27	3	12892-35385
22541.01	4435.113	10	I	5.0	4.0				33466-10925
22556.52	4432.064	10	II	7.0	7.0				15194-37751
22563.90	4430.614	100	I	9.0	8.0				9990-32554
22564.78	4430.441	10	I	8.0	8.0				22564- 0
22579.12	4427.628	30	I	9.0	8.0				15972-38551
22580.38	4427.380	100	I	8.0	8.0				18291-40871
22586.57	4426.166	300	I	7.0	8.0	1.27	1.30	2	14367-36954
22605.56	4422.449	10	I	7.0	7.0				8519-31124
22609.72	4421.635	C	I	9.0	9.0				14512-37121
22643.74	4414.992	30	I	8.0	8.0				16733-39376
22669.84	4409.909	300	I	8.0	8.0			3	12007-34676
22670.33	4409.813	1	I	8.0	7.0				14625-37295
22682.09	4407.526	1000	I	8.0	9.0	1.28	1.28	4	12007-34689
22683.07	4407.336	30	I	5.0	4.0				33608-10925
22683.07	4407.336	30	I	9.0	8.0				16693-39376
22684.56	4407.048	30	I	9.0	8.0				9990-32675
22690.72	4405.851	30	I	7.0	6.0				14367-37058
22702.57	4403.551	300	I	9.0	9.0	1.29	1.27	3	15972-38674
22711.98	4401.727	10		7.0	7.0				26846- 4134
22717.94	4400.570	30	I	8.0	9.0				15567-38285
22719.70	4400.231	10	I	7.0	8.0				14367-37087
22722.37	4399.713	3000	I	7.0	8.0	1.36	1.28	1	12655-35377
22725.95	4399.021	300	I	8.0	8.0			1	18477-41203
22733.86	4397.490	100	I	8.0	7.0			2	26868- 4134
22735.72	4397.129	10	I	8.0	7.0				12007-34742
22740.47	4396.212	3	I	8.0	7.0				14625-37366
22757.61	4392.900	30	I	7.0	6.0				14367-37125
22772.23	4390.079	100	I	9.0	9.0	1.32	1.29	3	9990-32763
22772.82	4389.965	300	I	8.0	8.0	1.26	1.26	4	14625-37398
22779.33	4388.712	3		5.0	5.0				31990- 9211
22788.91	4386.866	30	I	8.0	8.0			3	15567-38356
22811.41	4382.540	1	I	8.0	8.0				18021-40833
22818.33	4381.210	0		5.0	5.0				32029- 9211
22822.19	4380.469	1000	I	8.0	9.0	1.28	1.27	1	12007-34829
22828.09	4379.338	300 R	I	7.0	6.0	1.32	1.08	2	29878- 7050
22836.01	4377.818	0	I	8.0	7.0				12007-34843
22849.50	4375.235	30		8.0	8.0				18021-40871

WAVE NUMBER	WAVE LENGTH	INT	SA	J-G	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
22863.53	4372.550	10	I	5.0	4.0				33788-10925
22864.13	4372.434	1	I	7.0	8.0				18339-41203
22869.79	4371.353	1	I	5.0	4.0				33795-10925
22869.79	4371.353	1	I	10.0	9.0				12892-35762
22870.42	4371.232	30	I	6.0	5.0				32082- 9211
22877.00	4369.974	100	I	8.0	9.0			A	15567-38444
22879.27	4369.541	300	I	8.0	7.0	1.36	1.30	2	7565-30444
22889.48	4367.591	10		7.0	8.0				22889- 0
22894.04	4366.722	3000 R	I	8.0	9.0	1.35	1.26	1	7565-30459
22896.06	4366.336	10	I	9.0	8.0				13495-36392
22897.65	4366.033	10	I	9.0	8.0				15972-38870
22899.14	4365.750	0	I	7.0	6.0				29949- 7050
22899.86	4365.612	300	I	6.0	5.0	1.119	0.906	2	32111- 9211
22901.52	4365.296	100	I	8.0	8.0	1.24	1.23	3	14625-37527
22916.34	4362.472	30	I	7.0	8.0				15439-38356
22928.19	4360.218	10	I	7.0	7.0				14367-37295
22959.31	4354.307	100	I	8.0	9.0				16733-39692
22975.31	4351.276	3	I	7.0	7.0				18528-41503
22982.27	4349.957	10	I	8.0	7.0				14625-37607
22984.09	4349.613	100	I	8.0	8.0				15567-38551
22991.27	4348.255	10	I	9.0	9.0				13495-36487
22994.16	4347.708	3000 R	I	9.0	10.0	1.24	1.24	4	13495-36490
22996.68	4347.232	1	I	8.0	7.0				12007-35003
22998.31	4346.924	0	I	7.0	7.0				14367-37366
23007.73	4345.143	30	I	8.0	9.0			4	18021-41029
23012.47	4344.249	300		7.0	7.0				15439-38452
23021.88	4342.472	300	I	5.0	4.0	1.307	0.618	2	33947-10925
23030.68	4340.813	100	I	7.0	8.0				14367-37398
23034.55	4340.085	30	I	8.0	8.0				7565-30600
23046.48	4337.838	3	I	8.0	8.0				12007-35053
23051.26	4336.938	100	I	8.0	8.0				14625-37676
23051.60	4336.875	300	I	5.0	5.0	1.261	*0.911	3	32263- 9211
23056.27	4335.995	1000	I	8.0	7.0			2	7565-30621
23063.53	4334.630	300	I	9.0	9.0	1.29	1.25	3	15972-39035
23070.10	4333.396	1	I	7.0	7.0				18433-41503
23089.49	4329.758	300	I	7.0	6.0			A	12655-35744
23095.30	4328.668	100		9.0	9.0	1.33	1.35	3	9990-33086
23106.14	4326.637	1	I	9.0	8.0				17727-40833
23107.54	4326.375	1000	I	8.0	9.0	1.30	1.27	1	15567-38674
23123.72	4323.348	30	I	9.0	8.0				15972-39096
23125.71	4322.976	1	I	8.0	7.0				14625-37751
23147.04	4318.991	1000	I	5.0	5.0	1.223	0.918	3	32359- 9211
23150.45	4318.356	1000	I	8.0	9.0			1	7565-30716
23154.87	4317.532	100	I	7.0	7.0				8519-31674
23159.36	4316.695	300	I	7.0	8.0			1	14367-37527

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
23162.58	4316.095	10		8.0	9.0				16733-39895
23164.66	4315.707	3	I	9.0	8.0				14512-37676
23169.64	4314.780	0	I	6.0	7.0				11673-34742
23170.27	4314.662	300	I	8.0	7.0	1.31	1.29	2	15567-38737
23174.19	4313.931		I	6.0	6.0				30224- 7050
23174.19	4313.931	1000	I	8.0	8.0	1.36	1.32	3	7565-30739
23183.50	4312.199	3	I	7.0	8.0				17687-40871
23184.86	4311.946	300 R	I	8.0	7.0	1.22	1.16	2	27319- 4134
23188.40	4311.289	10	I	8.0	9.0				18021-41210
23212.21	4306.865	100	I	9.0	9.0				13495-36708
23212.75	4306.766	1000	I	8.0	9.0	1.28	1.28	4	12007-35219
23216.22	4306.122	100	I	8.0	8.0				14625-37841
23220.02	4305.417	100	I	6.0	5.0	1.121	0.902	2	32431- 9211
23221.67	4305.112	0	I	9.0	9.0				13495-36717
23242.03	4301.340	100	I	8.0	8.0	1.29	1.32	3	12007-35249
23255.17	4298.910	1000	I	9.0	8.0	1.32	1.24	2	9990-33246
23257.29	4298.518	300	I	7.0	8.0			A	23257- 0
23261.31	4297.775	1000	I	9.0	9.0	1.32	1.31	3	9990-33252
23283.60	4293.660	100	I	7.0	8.0				12655-35938
23292.85	4291.955	3000 R	I	7.0	7.0	1.08	1.17	3	27427- 4134
23297.74	4291.055	0	I	7.0	7.0				15439-38737
23301.07	4290.442	3000	I	7.0	8.0	1.337	1.204	1	8519-31820
23302.47	4290.183	100	I	9.0	9.0				17727-41029
23309.10	4288.962	1	I	7.0	8.0				14367-37676
23311.49	4288.524	0	I	9.0	8.0				13495-36807
23314.93	4287.890	0	I	7.0	6.0				12655-35970
23330.30	4285.065	1		6.0	7.0				11673-35003
23354.39	4280.645	0		8.0	7.0				14625-37980
23356.61	4280.238	0	I	7.0	8.0				15194-38551
23370.39	4277.715	100	I	8.0	8.0	1.28	1.28	4	12007-35377
23376.00	4276.688	1000 R	I	6.0	6.0	1.227	1.073	3	30426- 7050
23385.49	4274.954	1000	I	6.0	6.0	1.35	1.38	3	10088-33474
23386.93	4274.689	10	I	6.0	7.0				10088-33475
23396.31	4272.976	1000	I	6.0	5.0	1.230	0.914	2	32607- 9211
23404.60	4271.461	30	I	9.0	8.0				15972-39376
23406.09	4271.190	3	II	0.0	8.0				15567-38973
23415.11	4269.545	1000 R	I	9.0	8.0	1.32	1.31	2	9990-33406
23422.13	4268.264	1000 R	I	7.0	7.0	1.24	1.18	3	27556- 4134
23434.53	4266.007	1000	I	4.0	4.0	1.14	0.61	3	34359-10925
23463.64	4260.715	1000 B		6.0	7.0			A	10088-33552
23464.31	4260.592	3	II	7.0	7.0				12655-36119
23468.50	4259.831	1000	I	8.0	9.0	1.31	1.24	1	15567-39035
23475.41	4258.577	3000 R	I	5.0	4.0	1.123	0.620	2	34400-10925
23477.77	4258.149	3000 R	I	7.0	6.0	1.22	1.08	2	30528- 7050
23479.78	4257.785	300	I	7.0	8.0			2	23479- 0

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA				LEVELS ODD-EVEN
				J-O	J-E	G-C	G-E	
23481.95	4257.391	C		8.0	7.0			18021-41503
23515.49	4251.319	1000	I	7.0	6.0	1.39	1.08	2 30566- 7050
23517.29	4250.993	10	I	7.0	7.0			8519-32036
23528.70	4248.932	30	I	8.0	8.0			15567-39096
23545.44	4245.912	3000 R	I	5.0	4.0	0.915	0.616	2 34470-10925
23559.18	4243.435	1000 R	I	8.0	7.0	1.37	1.34	2 7565-31124
23561.65	4242.990	300	I	4.0	4.0	1.213	0.617	3 34486-10925
23579.07	4239.852	3000 R	I	6.0	5.0	1.178	0.916	2 32790- 9211
23591.57	4237.609	30	I	9.0	8.0			13495-37087
23594.44	4237.093	30	I	10.0	9.0			12892-36487
23597.31	4236.579	300	I	10.0	10.0	1.30	1.25	3 12892-36490
23612.21	4233.904	30	I	7.0	7.0			14367-37980
23622.70	4232.024	3000 R	I	6.0	5.0	1.195	0.909	2 32834- 9211
23626.06	4231.423	10		9.0	9.0			13495-37121
23638.66	4229.168	1		8.0	7.0			14625-38264
23652.96	4226.611	300		7.0	8.0			1 12655-36308
23656.08	4226.053	10	II	7.0	8.0			15439-39096
23659.73	4225.402	300	I	8.0	9.0	1.25	1.25	4 14625-38285
23661.11	4225.155	10000 R	I	7.0	6.0	1.09	1.08	2 30711- 7050
23662.89	4224.837	30	I	8.0	7.0			16733-40396
23675.21	4222.637	100	I	7.0	8.0			15194-38870
23677.61	4222.210	3000 R	I	5.0	5.0	1.138	0.911	3 32889- 9211
23683.79	4221.108	10000 R	I	8.0	7.0	1.21	1.17	2 27817- 4134
23700.73	4218.091	10000 R	I	7.0	7.0	1.22	1.18	3 27834- 4134
23717.22	4215.159	10000 R	I	9.0	8.0	1.30	1.24	2 23717- 0
23717.22	4215.159			8.0	7.0			27851- 4134
23717.97	4215.025	1000	I	5.0	4.0			34643-10925
23720.14	4214.639	100	I	9.0	9.0			15972-39692
23721.43	4214.410	1000 R	I	8.0	9.0	1.36	1.35	1 7565-31287
23728.36	4213.179	10000 R	I	6.0	6.0	1.17	1.07	3 30778- 7050
23736.61	4211.715	10000 R	I	7.0	8.0			1 23736- 0
23739.29	4211.239	1000 R	I	7.0	7.0	1.26	1.17	3 27837- 4134
23755.45	4208.375	100	I	8.0	9.0	1.28	1.32	2 12007-35762
23759.28	4207.696	1000 R	I	6.0	5.0	1.177	0.910	2 32970- 9211
23778.61	4204.275	30	I	7.0	8.0			15194-38973
23790.12	4202.241	1000 R	I	6.0	6.0	1.268	1.074	3 30840- 7050
23795.43	4201.304	3000 R	I	4.0	4.0	0.761	0.619	3 34720-10925
23814.05	4198.019	3000 R	I	5.0	5.0	1.01	0.91	3 33025- 9211
23815.94	4197.685	3	I	7.0	7.0			17687-41503
23824.80	4196.125	10	II	10.0	9.0			12892-36717
23826.81	4195.771	3		8.0	7.0			14625-38452
23832.07	4194.845	10000 R	I	8.0	8.0	1.312	1.240	3 23832- 0
23844.06	4192.736	30	I	9.0	8.0			14512-38356
23850.28	4191.642	3000 R	I	7.0	7.0	1.24	1.17	3 27984- 4134
23854.28	4190.939	3000 R	I	5.0	6.0	1.286	1.072	1 30904- 7050

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS	
				J-C	J-E	G-C	G-E	TYPE
23857.08	4190.447	3	I	5.0	4.0			34782-10925
23863.06	4189.397	300	I	7.0	7.0	1.34	1.36	3 8519-32382
23877.75	4186.818	10000 R	I	8.0	8.0	1.29	1.24	3 23877- 0
23882.06	4186.064	1	I	7.0	7.0			8519-32411
23891.20	4184.462	100	I	5.0	5.0			33102- 9211
23895.42	4183.723	10000 R	I	8.0	7.0	1.09	1.17	1 28029- 4134
23896.13	4183.599	3000 R	I	5.0	6.0	1.267	1.078	1 30946- 7050
23896.48	4183.538	100	I	7.0	7.0			14367-38264
23901.24	4182.705	10	I	7.0	8.0			15194-39096
23909.44	4181.269	3000	I	7.0	8.0			8519-32428
23923.44	4178.822	3	I	9.0	9.0			15972-39895
23925.85	4178.402	30	II	8.0	8.0			14625-38551
23927.66	4178.086	3000	I	5.0	5.0	0.89	0.91	3 33139- 9211
23929.49	4177.766	1000	I	10.0	9.0			2 12892-36822
23931.63	4177.393	300	I	8.0	8.0			12007-35938
23933.25	4177.110	1000	I	8.0	9.0			2 12007-35940
23956.91	4172.984	0		6.0	6.0			31007- 7050
23985.71	4167.974	10000 R	I	9.0	8.0	1.22	1.24	1 23985- 0
23990.88	4167.076	1	I	8.0	8.0			16880-40871
24031.24	4160.078	10	I	9.0	8.0			13495-37527
24033.47	4159.691	10	I	9.0	10.0			15972-40005
24035.66	4159.313	3000 R	I	7.0	8.0	1.33	1.27	1 8519-32554
24042.93	4158.055	1000	I	8.0	7.0			2 28177- 4134
24063.42	4154.515	300	I	6.0	7.0	1.10	1.17	2 28197- 4134
24071.16	4153.178	30	I	6.0	6.0			11673-35744
24081.71	4151.359	300	I	7.0	6.0	1.289	1.080	2 31132- 7050
24084.69	4150.845	1	I	7.0	7.0			14367-38452
24100.13	4148.185	0		8.0	8.0			16733-40833
24108.45	4146.753	100	I	8.0	7.0			7565-31674
24112.48	4146.060	10000 R	I	4.0	5.0	0.89	0.91	2 33324- 9211
24125.12	4143.889	3	I	8.0	9.0			15567-39692
24131.36	4142.817	1	I	5.0	5.0			33342- 9211
24150.36	4139.558	3000 R	I	5.0	6.0	1.310	1.073	1 31200- 7050
24152.26	4139.231	300	I	7.0	8.0			1 12655-36807
24156.31	4138.539	3000 R	I	7.0	8.0	1.32	1.26	1 8519-32675
24178.68	4134.708	300	I	7.0	6.0	1.207	1.079	2 31229- 7050
24181.97	4134.146	3000 R	I	3.0	4.0	1.033	0.619	1 35107-10925
24183.71	4133.849	3000 R	I	9.0	9.0	1.32	1.31	3 9990-34174
24203.66	4130.441	30	I	7.0	7.0			8519-32722
24204.19	4130.351	1000 R	I	8.0	8.0	1.30	1.24	3 24204- 0
24210.02	4129.357	300	I	8.0	9.0			7565-31775
24211.42	4129.117	3000 R	I	3.0	4.0	1.060	0.615	1 35136-10925
24229.21	4126.086	3000	I	10.0	9.0	1.30	1.27	2 12892-37121
24244.36	4123.508	30	I	8.0	8.0			14625-38870
24254.67	4121.755	3	I	5.0	5.0			33466- 9211

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS		
				J-C	J-E	G-C	G-E	TYPE	ODD-EVEN
24254.67	4121.755	3	I	8.0	8.0				7565-31820
24290.78	4115.628	3	I	6.0	6.0				31341- 7050
24296.42	4114.672	30	I	8.0	9.0				16733-41029
24296.60	4114.642	100	I	6.0	6.0	1.40	1.40	4	11673-35970
24299.23	4114.195	3	I	7.0	8.0				12655-36954
24300.98	4113.900	100	I	8.0	8.0	1.28	1.27	3	12007-36308
24305.98	4113.054	1000	I	3.0	4.0	0.958	0.618	1	35231-10925
24345.90	4106.308	1	I	9.0	8.0				13495-37841
24347.80	4105.988	300	I	8.0	8.0	1.25	1.24	3	14625-38973
24348.89	4105.804	300	I	6.0	6.0	DG =	0.18	3	31399- 7050
24360.34	4103.874	3000 R	I	5.0	6.0	1.255	1.075	1	31410- 7050
24369.85	4102.272	10	I	7.0	7.0				14367-38737
24372.42	4101.840	300	I	7.0	6.0			2	31423- 7050
24384.07	4099.880	300 R	I	8.0	7.0	1.25	*1.175	2	28518- 4134
24385.01	4099.723	10	I	8.0	8.0				12007-36392
24387.76	4099.260	30	II	7.0	7.0				15858-40245
24396.72	4097.755	0	I	5.0	5.0				33608- 9211
24403.46	4096.624	300	I	7.0	6.0	1.36	1.31	2	12655-37058
24410.15	4095.501	30	I	8.0	9.0				14625-39035
24420.96	4093.687	100		6.0	6.0				11673-36093
24440.65	4090.389	100	I	5.0	4.0			3	35365-10925
24445.96	4089.501	300	I	6.0	7.0	1.40	1.25	1	11673-36119
24470.34	4085.427	1	I	7.0	6.0				12655-37125
24470.88	4085.337	3000 R	I	8.0	7.0	1.36	1.32	2	7565-32036
24472.11	4085.130	1000 R	I	5.0	6.0	1.268	*1.073	1	31522- 7050
24480.07	4083.802	100	I	8.0	9.0	1.28	1.30	2	12007-36487
24505.37	4079.586	100	I	6.0	6.0	DG =	0.188	3	31555- 7050
24509.99	4078.818	C		9.0	8.0				16693-41203
24556.93	4071.021	100 R	I	7.0	7.0			3	12655-37212
24577.21	4067.661	0	I	5.0	5.0				33788- 9211
24583.42	4066.633	0	I	5.0	5.0				33795- 9211
24590.93	4065.391	100	I	6.0	6.0				10088-34679
24608.18	4062.542	C	I	7.0	8.0				14367-38973
24640.69	4057.182	0	I	8.0	9.0				7565-32206
24647.73	4056.023	0	I	7.0	6.0				31698- 7050
24654.02	4054.988	100	I	6.0	7.0				10088-34742
24661.06	4053.830	30	I	8.0	7.0				28795- 4134
24685.97	4049.740	30	I	9.0	8.0				9990-34676
24698.22	4047.731	300	I	9.0	9.0			3	9990-34689
24708.96	4045.971	10000 R	I	7.0	8.0			1	24708- 0
24710.95	4045.646	10	II	7.0	7.0				12655-37366
24726.91	4043.035	30	I	7.0	8.0				8519-33246
24751.27	4039.055	3	I	8.0	8.0				14625-39376
24754.33	4038.556	3	I	6.0	7.0				10088-34843
24789.41	4032.840	300 R	I	9.0	9.0	1.23	1.25	3	13495-38285

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS OCC-EVEN
						G-C	G-E	TYPE	
24800.27	4031.075	300 R	I	8.0	8.0				3 12007-36807
24815.13	4028.661	30	I	8.0	9.0				12007-36822
24816.66	4028.412	1000 R	I	8.0	7.0	1.36	1.36	4	7565-32382
24828.67	4026.464	3	I	8.0	7.0				15567-40396
24833.98	4025.603	100	I	9.0	10.0				13495-38329
24838.32	4024.899	300 R	I	9.0	9.0			3	9990-34829
24845.65	4023.713	1000 R	I	8.0	7.0	1.36	1.32	2	7565-32411
24860.93	4021.239	1	I	9.0	8.0				15972-40833
24863.05	4020.897	30	I	8.0	8.0				7565-32428
24871.99	4019.451	3	I	7.0	8.0				12655-37527
24886.83	4017.054	300	I	7.0	8.0			1	8519-33406
24896.10	4015.558	30	I	7.0	6.0				31946- 7050
24906.84	4013.826	1000 R	I	7.0	8.0			2	24906- 0
24914.93	4012.524	300	I	6.0	7.0				10088-35003
24940.29	4008.443	30	I	5.0	6.0				31990- 7050
24947.29	4007.319	3	II	8.0	8.0				12007-36954
24948.42	4007.136	300	I	9.0	9.0			3	13495-38444
24952.73	4006.444	300	I	7.0	7.0			3	12655-37607
24955.06	4006.071	1000 R	I	7.0	6.0	1.33	1.36	1	8519-33474
24956.51	4005.838	1000 R	I	7.0	7.0	1.33	1.33	4	8519-33475
24979.32	4002.179	10	I	5.0	6.0				32029- 7050
24989.25	4000.589	300	I	8.0	8.0				7565-32554
24999.57	3998.938	100 R	I	8.0	8.0			3	24999- 0
25009.11	3997.413	30	I	7.0	8.0				14367-39376
25012.19	3996.920	300 R	I	8.0	8.0	1.34	*1.242	3	25012- 0
25031.39	3993.854	100	I	6.0	6.0			3	32082- 7050
25033.17	3993.571	1000 R	I	7.0	7.0	1.34	1.28	3	8519-33552
25050.97	3990.734	10		7.0	7.0				15194-40245
25067.60	3988.880	300	I	9.0	8.0	1.32	1.32	4	9990-35053
25066.83	3988.207	100	I	8.0	9.0	1.25	1.25	4	14625-39692
25075.56	3986.820	100	I	6.0	6.0			3	32126- 7050
25080.34	3986.059	300	I	8.0	8.0	1.28	1.33	3	12007-37087
25096.21	3983.539	10	II	7.0	7.0				12655-37751
25109.91	3981.366	1000 R	I	8.0	8.0	1.36	1.28	3	7565-32675
25116.20	3980.369	30	I	8.0	9.0				15567-40683
25133.63	3977.600	10	I	7.0	8.0				25133- 0
25148.24	3975.297	10	I	4.0	5.0				34359- 9211
25157.22	3973.877	300 R	I	8.0	7.0	1.36	1.33	2	7565-32722
25180.24	3970.244	10	I	9.0	9.0				14512-39692
25186.69	3969.227	300	I	7.0	8.0			2	12655-37841
25189.06	3968.855	100	I	5.0	5.0			3	34400- 9211
25197.58	3967.512	1000 R	I	8.0	9.0	1.36	1.30	1	7565-32763
25204.93	3966.356	300	I	8.0	7.0	1.28	1.30	1	12007-37212
25212.56	3965.155	100	I	5.0	6.0			1	32263- 7050
25228.88	3962.591	1000 R	I	9.0	9.0	1.32	1.28	3	9990-35219

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA				LEVELS	
				J-C	J-E	G-C	G-E	TYPE	OCC-EVEN
25233.90	3961.803	300 R	I	7.C	8.0	1.33	1.31	1	8519-33753
25241.72	3960.574	3	I	6.0	7.0				29375- 4134
25258.17	3957.996	300	I	9.C	8.0			4	9990-35249
25259.14	3957.843	3	I	5.C	5.0				34470- 9211
25265.43	3956.857	100	I	8.C	8.0			4	15567-40833
25275.29	3955.314			4.C	5.0				34486- 9211
25286.89	3953.500	100 R	I	7.C	7.0			3	8519-33806
25288.86	3953.191	100	I	8.0	7.0	1.28	1.28	4	12007-37295
25304.02	3950.824	30	I	8.0	8.0				15567-40871
25324.87	3947.570	30	I	7.C	7.0				12655-37980
25358.96	3942.263	10	I	8.0	7.0				12007-37366
25380.99	3938.842	100	I	6.0	6.0				32431- 7050
25385.10	3938.203	1000 R	I	6.C	6.0	1.39	1.30	3	11673-37058
25386.52	3937.984	1000 R	I	9.C	8.0			2	9990-35377
25391.35	3937.235	100	I	8.0	8.0				12007-37398
25392.56	3937.047	300	I	10.C	9.0			A	12892-38285
25394.80	3936.700	1000 R	I	9.0	10.0	1.32	1.27	1	9990-35385
25431.63	3930.999	30	I	5.0	5.0				34643- 9211
25437.15	3930.146	1000 R	I	10.0	10.0	1.29	1.30	3	12892-38329
25451.94	3927.861	1000 R	I	6.C	6.0	1.39	1.33	3	11673-37125
25462.22	3926.276	10	I	8.0	9.0				15567-41029
25477.49	3923.922	100	I	9.C	8.0			4	13495-38973
25509.09	3919.061	100	I	4.C	5.0				34720- 9211
25514.36	3918.251	3	I	7.C	6.0				32564- 7050
25520.04	3917.379	10000 R	I	8.0	8.0	1.28	1.24	3	12007-37527
25520.61	3917.292	1000 R	I	8.C	9.0	1.36	1.29	1	7565-33086
25538.58	3914.536	30	I	6.C	7.0				11673-37212
25539.92	3914.330	100	I	9.0	9.0			3	13495-39035
25551.57	3912.545	300 R	I	10.0	9.0			2	12892-38446
25557.28	3911.672	300	I	6.0	6.0			3	32607- 7050
25558.71	3911.453	100	I	6.0	5.0				34770- 9211
25570.75	3909.610	C	I	5.0	5.0				34782- 9211
25584.67	3907.484	10	I	8.0	9.0				12007-37591
25600.76	3905.027	100	I	8.C	7.0			4	12007-37607
25609.14	3903.750	30	I	7.0	7.0				12655-38264
25620.12	3902.076	100	I	8.C	7.0				14625-40245
25636.54	3899.578	10	I	8.0	8.0				15567-41203
25638.45	3899.288	100	I	7.0	8.0				15194-40833
25655.79	3896.651	300	I	6.C	6.0	1.36	1.32	3	10088-35744
25669.76	3894.530	300 R	I	8.C	8.0			3	12007-37676
25676.56	3893.500	30	I	7.C	8.0				15194-40871
25680.51	3892.901	1000 R	I	8.C	8.0	1.35	1.25	3	7565-33246
25686.66	3891.969	1000 R	I	8.C	9.0	1.36	1.31	1	7565-33252
25692.60	3891.068	100	I	6.C	7.0			A	11673-37366
25701.12	3889.778	300	I	7.C	8.0			4	12655-38356

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
25740.05	3883.896	100	I	6.0	6.0				3 32790- 7050
25744.21	3883.268	100	I	8.0	7.0				12007-37751
25744.44	3883.234	30	I	7.0	7.0				29878- 4134
25770.41	3879.320	10	I	8.0	7.0				14625-40396
25771.59	3879.142	100		9.0	9.0				4 9990-35762
25783.67	3877.324	100	I	6.0	6.0				3 32834- 7050
25797.33	3875.271	100	I	7.0	7.0				12655-38452
25815.50	3872.544	3	I	7.0	7.0				29949- 4134
25834.72	3869.663	1000	I	8.0	8.0				3 12007-37841
25838.55	3869.089	100	I	5.0	6.0				32889- 7050
25840.43	3868.808	10000 R	I	8.0	8.0	1.36	1.30		3 7565-33406
25844.10	3868.258	1		5.0	4.0				36769-10925
25881.29	3862.701	300	I	6.0	6.0				P 10088-35970
25896.31	3860.459	10	I	7.0	8.0				12655-38551
25910.10	3858.404	1000 R	I	8.0	7.0				2 7565-33475
25920.26	3856.893	100	I	6.0	6.0				3 32970- 7050
25934.38	3854.792	100	I	6.0	7.0				11673-37607
25947.75	3852.806	300	I	9.0	8.0				1 9990-35938
25949.37	3852.565	300	I	9.0	9.0	1.32	1.32		4 9990-35940
25975.04	3848.758	100	I	5.0	6.0				2 33025- 7050
25986.76	3847.022	1000 R	I	8.0	7.0				2 7565-33552
26004.73	3844.363	1000 R	I	6.0	6.0	1.35	1.29		3 10088-36093
26009.08	3843.721	100	I	7.0	8.0				4 15194-41203
26016.75	3842.587	10	I	5.0	4.0				36942-10925
26028.22	3840.894	1000 R	I	7.0	7.0				2 14367-40396
26030.64	3840.537	300	I	6.0	7.0				1 10088-36119
26052.18	3837.361	100	I	5.0	6.0				33102- 7050
26088.61	3832.002	30	I	5.0	6.0				33139- 7050
26090.58	3831.714	3	I	6.0	7.0				30224- 4134
26143.10	3824.016	300	I	10.0	9.0	1.30	1.26		2 12892-39035
26154.30	3822.379	100	I	5.0	5.0				3 35365- 9211
26157.72	3821.879	1000 R	I	7.0	8.0	1.33	1.24		1 8519-34676
26160.54	3821.467	1000 R	I	7.0	6.0	1.336	1.488		1 8519-34679
26171.34	3819.890	300	I	9.0	9.0				1 14512-40683
26187.50	3817.532	1000 R	I	8.0	8.0	1.36	1.31		3 7565-33753
26196.55	3816.214	1000 R	I	9.0	9.0	1.24	1.25		3 13495-39692
26207.68	3814.592	300	I	8.0	8.0				14625-40833
26214.80	3813.557	10	I	7.0	8.0				12655-38870
26223.62	3812.274	1000 R	I	7.0	7.0	1.33	1.34		3 8519-34742
26240.50	3809.822	1000 R	I	8.0	7.0	1.362	1.209		2 7565-33806
26245.76	3809.058	300	I	8.0	8.0				3 14625-40871
26257.17	3807.403	300	I	8.0	7.0				A 12007-38264
26260.91	3806.860	10	I	7.0	6.0				33311- 7050
26278.22	3804.352	1000 R	I	8.0	9.0	1.27	1.25		1 12007-38285
26292.33	3802.310	30	I	6.0	7.0				30426- 4134

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA				LEVELS GCC-EVEN
				J-C	J-E	G-C	G-E	
26292.33	3802.310	30	I	5.0	6.0			33342- 7050
26306.51	3800.262	300	I	6.0	7.0	1.391	1.191	1 11673-37980
26308.99	3799.903	300	I	7.0	7.0	1.26	1.27	3 15194-41503
26317.10	3798.733	300	I	9.0	8.0			2 9990-36308
26318.24	3798.567	100	I	7.0	8.0			12655-38973
26323.90	3797.750	300 R	I	7.0	7.0	1.34	1.29	3 8519-34843
26349.14	3794.113	30	I	8.0	8.0			12007-38356
26394.11	3787.649	10	I	7.0	7.0			30528- 4134
26399.84	3786.826	1000	I	9.0	9.0	1.22	1.24	3 13495-39895
26401.11	3786.644	3	II	9.0	8.0			9990-36392
26403.96	3786.235	300	I	8.0	9.0			4 14625-41029
26415.66	3784.559	100 W	I	5.0	6.0			3 33466- 7050
26431.83	3782.243	10	I	7.0	7.0			30566- 4134
26437.25	3781.468	1000 R	I	8.0	9.0	1.28	1.28	4 12007-38444
26440.92	3780.943	300 R	I	7.0	8.0			1 12655-39096
26445.36	3780.308	300 R	I	8.0	7.0	1.28	1.25	2 12007-38452
26465.48	3777.435	1000 R	I	7.0	8.0	1.26	1.26	4 14367-40833
26484.55	3774.714	1000 R	I	7.0	7.0	1.33	1.31	3 8519-35003
26496.21	3773.053	3000 R	I	9.0	9.0			3 9990-36487
26499.09	3772.643	1000 R	I	9.0	10.0			1 9990-36490
26503.59	3772.003	100	I	7.0	8.0			14367-40871
26509.88	3771.107	300 R	I	9.0	10.0	1.23	1.23	4 13495-40005
26534.36	3767.628	1000 R	I	7.0	8.0	1.33	1.32	1 8519-35053
26544.32	3766.214	300	I	8.0	8.0	1.28	1.26	3 12007-38551
26557.70	3764.316	30	I	5.0	6.0			33608- 7050
26577.47	3761.517	100	I	7.0	7.0			3 30711- 4134
26578.24	3761.407	30 W	I	8.0	8.0			14625-41203
26584.65	3760.501	100	I	8.0	9.0			4 14625-41210
26590.78	3759.634	30 W	I	6.0	7.0			11673-38264
26609.04	3757.054	10000 R	I	8.0	9.0			1 7565-34174
26616.01	3756.070	1	I	5.0	4.0			37541-10925
26654.70	3750.618	3	I	6.0	7.0			30778- 4134
26721.79	3741.201	1000 R	I	7.0	8.0	1.36	1.33	1 12655-39376
26726.59	3740.529	100	I	9.0	9.0			3 9990-36717
26729.91	3740.064	3000 R	I	7.0	8.0	1.33	1.30	1 8519-35249
26730.50	3739.981	30	I	8.0	7.0			12007-38737
26735.06	3739.344	10000 R	I	10.0	11.0	1.29	1.27	1 12892-39627
26738.17	3738.909	3	I	5.0	6.0			33788- 7050
26744.43	3738.034	10	I	5.0	6.0			33795- 7050
26778.97	3733.212	300	I	6.0	7.0	1.392	1.238	1 11673-38452
26816.41	3727.999	1000 R	I	9.0	8.0	1.32	1.33	1 9990-36807
26831.27	3725.935	300 R	I	9.0	9.0			3 9990-36822
26846.21	3723.861	0	I	7.0	8.0			26846- 0
26858.27	3722.189	100	I	7.0	8.0			1 8519-35377
26868.06	3720.834	300 R	I	8.0	8.0	1.24	1.24	4 26868- 0

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
26873.31	3720.106	1		6.0	7.0				31007- 4134
26878.19	3719.431	300	I	8.0	7.0			4	14625-41503
26963.39	3707.678	1000 R	I	9.0	8.0			2	9990-36954
26966.27	3707.282	30	I	8.0	8.0				12007-38973
26969.78	3706.798	300	I	6.0	6.0			3	10088-37058
26998.06	3702.916	C	I	7.0	7.0				31132- 4134
27002.97	3702.242	100	I	10.0	9.0			A	12892-39895
27014.03	3700.727	300 R	I	9.0	8.0	1.23	1.24	1	27014- 0
27028.73	3698.714	100	I	8.0	9.0			1	12007-39035
27036.60	3697.637	100	I	6.0	6.0			3	10088-37125
27064.15	3693.874	300 R	I	6.0	7.0			1	11673-38737
27088.92	3690.495	30	I	8.0	8.0				12007-39096
27095.05	3689.661	100	I	7.0	7.0				31229- 4134
27096.49	3689.465	300	I	9.0	8.0			4	9990-37087
27111.37	3687.440	100 B	I	8.0	8.0			3	7565-34676
27113.04	3687.212	30	I	10.0	10.0				12892-40005
27123.25	3685.824	1000 R	I	6.0	7.0			1	10088-37212
27123.56	3685.782	1000 R	I	8.0	9.0			1	7565-34689
27136.03	3684.089	30	I	7.0	7.0				14367-41503
27162.99	3680.432	3	I	7.0	6.0				34213- 7050
27177.20	3678.507	1000 R	I	8.0	7.0	1.36	1.34	2	7565-34742
27187.63	3677.096	10	I	9.0	9.0				13495-40683
27207.19	3674.452	1000 R	I	6.0	7.0			2	31341- 4134
27207.19	3674.452	300 B	I	6.0	7.0			1	10088-37295
27225.40	3671.995	100	I	7.0	6.0				8519-35744
27250.49	3668.613	30	I	6.0	5.0				36462- 9211
27263.68	3666.839	1000 R	I	8.0	9.0	1.36	1.26	1	7565-34829
27265.25	3666.628	30 R	I	6.0	7.0			2	31399- 4134
27277.30	3665.008	300	I	6.0	7.0			2	10088-37366
27277.47	3664.985	300	I	8.0	7.0				7565-34843
27288.78	3663.466	100	I	7.0	7.0	1.18	1.18	4	31423- 4134
27319.07	3659.405	10	I	8.0	8.0				27319- 0
27337.36	3656.956	300	I	9.0	8.0			1	13495-40833
27369.82	3652.618	10	I	8.0	8.0				12007-39376
27375.46	3651.866	30	I	9.0	8.0				13495-40871
27407.47	3647.601	300	I	9.0	8.0			2	9990-37398
27412.78	3646.895	1000	I	8.0	7.0			1	31547- 4134
27421.72	3645.705	1	I	6.0	7.0				31555- 4134
27438.14	3643.524	1000 R	I	8.0	7.0			2	7565-35003
27450.90	3641.830	1000 R	I	7.0	6.0			P	8519-35970
27487.92	3636.925	1	I	8.0	8.0				7565-35053
27519.11	3632.803	100	I	6.0	7.0				10088-37607
27536.17	3630.552	300	I	9.0	8.0			2	9990-37527
27556.32	3627.897	300	I	7.0	8.0			4	27556- 0
27557.80	3627.702	100	I	5.0	5.0			3	36769- 9211

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA		TYPE	LEVELS	
						G-C	G-E		ODD-EVEN	
27564.10	3626.872	300	I	7.0	7.0			3	31698-	4134
27574.33	3625.528	300	I	7.0	6.0			2	8519-	36093
27590.63	3623.385	300	I	7.0	7.0	1.36	1.28	3	12655-	40245
27592.60	3623.127	300 R	I	5.0	6.0			1	34643-	7050
27600.25	3622.123	300 R	I	7.0	7.0			3	8519-	36119
27600.84	3622.045	30	I	9.0	9.0				9990-	37591
27654.23	3615.052	300 R	I	8.0	9.0	1.36	1.28	1	7565-	35219
27662.53	3613.967	100	I	6.0	7.0				10088-	37751
27683.51	3611.228	1000 R	I	8.0	8.0			3	7565-	35240
27685.35	3610.989	300	I	8.0	9.0			1	12007-	39692
27685.91	3610.915	300 R	I	9.0	8.0	1.32	1.32	4	9990-	37676
27707.99	3608.038	30	I	9.0	8.0				13495-	41203
27714.35	3607.210			9.0	9.0				13495-	41210
27719.69	3606.515	30	I	6.0	6.0				34770-	7050
27730.41	3605.120	100 B		5.0	5.0			3	36942-	9211
27731.73	3604.950	3		5.0	6.0				34782-	7050
27740.92	3603.755	300	I	7.0	7.0			3	12655-	40396
27744.20	3603.329	300	I	7.0	7.0			3	31878-	4134
27788.87	3597.537	300	I	7.0	8.0			1	8519-	36308
27790.82	3597.284	300 R	I	10.0	9.0	1.30	1.29	2	12892-	40683
27811.88	3594.560	1000 R	I	8.0	8.0	1.36	1.28	3	7565-	35377
27812.50	3594.480	30		7.0	7.0				31946-	4134
27817.97	3593.773	100	I	8.0	8.0			3	27817-	0
27834.89	3591.588	10	I	7.0	8.0				27834-	0
27837.57	3591.241	3		7.0	8.0				27837-	0
27850.87	3589.527	100	I	9.0	8.0			2	9990-	37841
27851.42	3589.457	300 R	I	8.0	8.0	1.24	1.24	4	27851-	0
27871.24	3586.904	30	I	7.0	6.0				34921-	7050
27872.89	3586.692	30	I	7.0	7.0				32007-	4134
27872.89	3586.692	30	I	7.0	8.0				8519-	36392
27947.78	3577.081	300 R	I	6.0	7.0			1	32082-	4134
27977.21	3573.318	100	I	6.0	7.0			2	32111-	4134
27984.48	3572.389	30	I	7.0	8.0				27984-	0
27991.93	3571.438	1000 R	I	6.0	7.0	1.23	1.16	1	32126-	4134
28029.73	3566.622	10	I	8.0	8.0				28029-	0
28136.83	3553.046	300	I	10.0	9.0			2	12892-	41029
28175.48	3548.172	10	II	6.0	7.0				10088-	38264
28177.14	3547.962	100	I	8.0	8.0			3	28177-	0
28178.19	3547.831	30 W	I	7.0	8.0				12655-	40833
28196.91	3545.475	10	I	8.0	9.0				7565-	35762
28238.67	3540.232	300	I	8.0	7.0			4	12007-	40245
28288.19	3534.033	300 R	I	7.0	8.0			4	8519-	36807
28294.37	3533.262	100	I	9.0	9.0				9990-	38285
28297.40	3532.884	30	I	6.0	7.0				32431-	4134
28315.28	3530.653	10	I	5.0	6.0				35365-	7050

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS		
				J-C	J-E	G-C	G-E	TYPE	OCC-EVEN
28317.54	3530.371	1000 R	I	10.0	9.0	1.30	1.25	2	12892-41210
28329.65	3528.861	10	I	5.0	5.0				37541- 9211
28338.92	3527.707	300	I	9.0	10.0			1	9990-38329
28363.64	3524.633	300 B	I	6.0	7.0				10088-38452
28365.30	3524.427	100	I	9.0	8.0				9990-38356
28373.12	3523.455	300 R	I	8.0	8.0	1.36	1.35	3	7565-35938
28374.74	3523.254	100	I	8.0	9.0				7565-35940
28388.94	3521.491	100	I	8.0	7.0			4	12007-40396
28430.73	3516.315	3	I	7.0	7.0				32564- 4134
28435.14	3515.769	1000 R	I	7.0	8.0			1	8519-36954
28453.38	3513.516	100	I	9.0	9.0			3	9990-38444
28473.65	3511.015	1000 R	I	6.0	7.0			1	32607- 4134
28518.30	3505.518	30	I	8.0	8.0				28518- 0
28548.76	3501.777	3	I	7.0	8.0				12655-41203
28553.84	3501.154	30	I	8.0	7.0				7565-36119
28572.27	3498.897	100	I	6.0	7.0				11673-40245
28606.23	3494.742	300	I	7.0	6.0			4	8519-37125
28648.85	3489.543	300	I	6.0	7.0			1	10088-38737
28656.43	3488.620	100	I	6.0	7.0				32790- 4134
28692.86	3484.190	300 R	I	7.0	7.0			3	8519-37212
28700.07	3483.315	100	I	6.0	7.0			1	32834- 4134
28742.47	3478.177	1000 R	I	8.0	8.0			3	7565-36308
28776.76	3474.031	300 R	I	7.0	7.0			3	8519-37295
28795.23	3471.803	300 R	I	8.0	8.0	1.22	1.24	3	28795- 0
28826.16	3468.078	0	I	8.0	8.0				12007-40833
28836.65	3466.816	3	I	6.0	7.0				32970- 4134
28846.89	3465.586	300 R	I	7.0	7.0			3	8519-37366
28879.24	3461.703	100	I	7.0	8.0				8519-37398
28921.58	3456.635	300	I	8.0	9.0				7565-36487
29007.93	3446.345	100	I	7.0	8.0				8519-37527
29022.47	3444.618	30	I	8.0	9.0				12007-41029
29031.53	3443.544	30	I	8.0	7.0				33165- 4134
29044.88	3441.961	10	I	9.0	9.0			3	9990-39035
29088.68	3436.779	10	I	7.0	7.0				8519-37607
29105.08	3434.841	100	I	9.0	8.0				9990-39096
29119.12	3433.186	300 R	I	9.0	8.0	1.20	1.24	1	29119- 0
29142.55	3430.425	10	I	8.0	9.0				7565-36708
29157.68	3428.645	100	I	7.0	8.0				8519-37676
29177.29	3426.341	10	I	7.0	7.0				33311- 4134
29196.80	3424.051	1	I	8.0	8.0				12007-41203
29203.26	3423.294	3	I	8.0	9.0				12007-41210
29224.60	3420.794	300	I	8.0	7.0			2	33358- 4134
29232.14	3419.912	30	I	7.0	7.0				8519-37751
29241.78	3418.784	1000 R	I	8.0	8.0			3	7565-36807
29256.61	3417.050	10	I	8.0	9.0				7565-36822

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
29322.69	3409.350	100	I	7.C	8.0				8519-37841
29385.96	3402.009	1000	I	9.C	8.0			4	9990-39376
29388.74	3401.687	1000 R	I	8.0	8.0			3	7565-36954
29411.49	3399.057	300	I	6.0	6.0			3	36462- 7050
29460.84	3393.363	1000 B		7.C	7.0			4	8519-37980
29521.86	3386.348	100	I	8.0	8.0				7565-37087
29556.33	3382.399	C	II	8.0	9.0				7565-37121
29587.28	3378.860	10	I	8.C	7.0				33721- 4134
29646.45	3372.116	300	I	8.C	7.0			2	7565-37212
29718.78	3363.909	3	I	5.0	6.0				36769- 7050
29730.35	3362.600	30	I	8.C	7.0				7565-37295
29745.07	3360.936	100	I	7.0	7.0				8519-38264
29800.49	3354.686	100	I	8.0	7.0				7565-37366
29832.88	3351.043	10	I	8.C	8.0				7565-37398
29837.10	3350.568	30	I	7.C	8.0				8519-38356
29891.39	3344.483	100	I	5.0	6.0				36942- 7050
29905.83	3342.868	1		9.0	9.0				9990-39895
29933.25	3339.806	10	I	7.C	7.0				8519-38452
29949.72	3337.970	C		7.C	8.0				29949- 0
29961.52	3336.655	100	I	8.C	8.0				7565-37527
29976.63	3334.973	10	I	6.0	5.0				39188- 9211
30014.83	3330.728	10	I	9.0	10.0				9990-40005
30032.25	3328.796	100		7.0	8.0				8519-38551
30042.27	3327.686	3	I	8.C	7.0				7565-37607
30079.41	3323.577	10	I	7.C	7.0				34213- 4134
30111.28	3320.060	300	I	8.C	8.0			3	7565-37676
30156.96	3315.030	3	I	6.C	7.0				10088-40245
30185.70	3311.873	3	I	8.C	7.0				7565-37751
30218.43	3308.287	300	I	7.C	7.0			3	8519-38737
30276.23	3301.970	100	I	8.0	8.0			3	7565 37841
30307.25	3298.591	30	I	6.C	7.0				10088-40396
30414.40	3286.970	30	I	8.C	7.0				7565-37980
30454.21	3282.673	30	I	7.C	8.0				8519-38973
30490.67	3278.747	3	I	5.0	6.0				37541- 7050
30544.57	3272.961	1000 R	I	8.0	8.0	1.22	1.24	3	30544- 0
30566.06	3270.659	10	I	7.C	8.0				30566- 0
30576.87	3269.504	3	I	7.C	8.0				8519-39096
30636.06	3263.186	3000 R	I	6.C	7.0			4	34770- 4134
30692.61	3257.174	300	I	9.C	9.0			3	9990-40683
30698.67	3256.531	1		8.0	7.0				7565-38264
30711.71	3255.148	10	I	7.C	8.0				30711- 0
30787.63	3247.121	3	I	7.0	7.0				34921- 4134
30790.66	3246.802	300	I	8.0	8.0	1.36	1.36	4	7565-38356
30842.32	3241.363	10	I	9.C	8.0				9990-40833
30857.71	3239.746	100	I	7.C	8.0			A	8519-39376

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
30880.42	3237.364	10	I	9.0	8.0				9990-40871
30886.82	3236.693		B	8.0	7.0				7565-38452
31038.64	3220.860	100	I	9.0	9.0			3	9990-41029
31132.32	3211.169	100	I	7.0	8.0			A	31132- 0
31172.03	3207.078	30	I	8.0	7.0				7565-38737
31200.93	3204.106	1	I	7.0	6.0				38251- 7050
31219.33	3202.218	300 W	I	9.0	9.0			3	9990-41210
31229.29	3201.197	10	I	7.0	8.0				31229- 0
31304.39	3193.517	1	I	8.0	8.0				7565-38870
31312.03	3192.738	10	I	7.0	6.0				38362- 7050
31370.69	3186.768	1	I	7.0	6.0				38421- 7050
31407.82	3183.000	30 W	I	8.0	8.0				7565-38973
31423.04	3181.458	10	I	7.0	8.0				31423- 0
31470.20	3176.690	1		8.0	9.0				7565-39035
31530.46	3170.619	3	I	8.0	8.0				7565-39096
31554.57	3168.196	100	I	5.0	4.0			A	42479-10925
31547.02	3168.954	300 R	I	8.0	8.0			3	31547- 0
31698.33	3153.827	300 R	I	7.0	8.0			1	31698- 0
31726.58	3151.018	1		7.0	7.0				8519-40245
31729.14	3150.764	10	I	7.0	6.0				38779- 7050
31760.09	3147.694	300 R	I	8.0	7.0			2	35894- 4134
31811.33	3142.624	300 R	I	8.0	8.0			3	7565-39376
31876.86	3136.163	10	I	7.0	7.0				8519-40396
31878.41	3136.011	300 R	I	7.0	8.0			2	31878- 0
31900.74	3133.815	1000 R	I	9.0	8.0	1.24	1.24	4	31900- 0
31946.74	3129.302	300 R	I	7.0	8.0			4	31946- 0
32007.13	3123.398	1 Q		7.0	8.0				32007- 0
32137.63	3110.715	30	I	6.0	6.0			3	39188- 7050
32314.06	3093.730	100	I	7.0	8.0			A	8519-40833
32327.88	3092.407	30	I	6.0	7.0			A	36462- 4134
32352.17	3090.085	10	I	7.0	8.0				8519-40871
32564.98	3069.892	3	I	7.0	8.0				32564- 0
32830.48	3045.064	1	I	8.0	7.0				7565-40396
33117.99	3018.627	30	I	8.0	9.0			A	7565-40683
33163.43	3014.492	1	I	6.0	5.0				42375- 9211
33165.76	3014.279	300 R	I	8.0	8.0			3	33165- 0
33267.68	3005.045	1	I	8.0	8.0				7565-40833
33268.24	3004.994	10	I	5.0	5.0				42479- 9211
33305.78	3001.607	1	I	8.0	8.0				7565-40871
33311.53	3001.088	100 R	I	7.0	8.0			1	33311- 0
33358.84	2996.833	300 R	I	8.0	8.0			3	33358- 0
33463.97	2987.417	1		8.0	9.0				7565-41029
33512.05	2983.131	300 R	I	8.0	7.0			1	37646- 4134
33638.27	2971.937	3 W	I	8.0	8.0				7565-41203
33644.69	2971.369	10	I	8.0	9.0				7565-41210

WAVE NUMBER	WAVE LENGTH	INT	SA	J-O	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
33721.53	2964.599	100 R	I	8.0	8.0			3	33721-	0
34117.31	2930.206	1	I	7.0	7.0				38251-	4134
34213.63	2921.956	10	I	7.0	8.0				34213-	0
34228.41	2920.695	30	I	7.0	7.0				38362-	4134
34287.06	2915.698	3	I	7.0	7.0				38421-	4134
34645.56	2885.526	10	I	7.0	7.0				38779-	4134
34921.84	2862.697	100 R	I	7.0	8.0			2	34921-	0
35054.03	2851.901	10	I	6.0	7.0				39188-	4134
35324.41	2830.071	3	I	6.0	6.0				42375-	7050
35429.25	2821.696	10	I	5.0	6.0				42479-	7050
35894.35	2785.132	1	I	8.0	8.0				35894-	0
37646.28	2655.514	3	I	8.0	8.0				37646-	0
38240.81	2614.227	10	I	6.0	7.0				42375-	4134
38251.55	2613.493	1	I	7.0	8.0				38251-	0
38362.67	2605.922	1	I	7.0	8.0				38362-	0
38421.28	2601.947	1	I	7.0	8.0				38421-	0
38779.76	2577.893	1	I	7.0	8.0				38779-	0

R REVERSED
 B BLEND(SEE TEXT)
 W WIDE
 Q QUESTIONABLE
 * ASSUMED VALUE
 A J NOT EQUAL TO J,CANNOT DETERMINE G1 RELATIVE TO G2
 P PERTURBED

TABLE V
(pp. 77-79)

Table V . Observed and calculated energy levels, g-values, and eigenvector compositions of the $4f^{10}6s$ configuration of Dy II.

J	Energy (cm^{-1})		g		Composition*
	Obs	Calc	Obs	Calc	
8.5	0.00	-16.7	1.291	1.287	0.9687(5I)6I 0.1251(3K1)4K -0.2100(3K2)4K
7.5	828.31	811.8	1.204	1.201	-0.8462(5I)4I 0.4688(5I)6I -0.1025(3K1)2K 0.1714(3K2)2K -0.1279(3K2)4K
7.5	4341.10	4332.5	1.224	1.227	-0.4735(5I)4I -0.8648(5I)6I 0.1008(3K2)4K
6.5	4755.66	4758.0	1.134	1.128	-0.7044(5I)4I 0.6893(5I)6I -0.1167(3K2)4K
5.5	7463.88	7466.2	1.015	1.017	0.5247(5I)4I -0.8248(5I)6I -0.1034(3H4)4H
6.5	7485.09	7467.4	1.135	1.136	0.6846(5I)4I 0.6977(5I)6I 0.1369(3H4)4H
4.5	9432.07	9432.2	0.825	0.827	-0.3355(5I)4I 0.9008(5I)6I -0.1060(3H3)4H 0.1732(3H4)4H

(continued)

Table V . . . (continued)

J	Energy (cm^{-1})		g		Composition
	Obs	Calc	Obs	Calc	
5.5	9870.99	9845.2	0.998	0.997	-0.8116(5I)4I -0.5093(5I)6I -0.1277(3H4)2H -0.1471(3H4)4H
3.5	10953.94	10945.6	0.470	0.465	0.9540(5I)6I -0.1207(3H1)4H -0.1391(3H3)4H 0.2236(3H4)4H
4.5	11801.01	11761.3	0.758	0.758	0.8922(5I)4I 0.3310(5I)6I -0.1077(3H1)2II -0.1236(3H3)2H 0.1989(3H4)2H 0.1103(3H4)4II
5.5	13338.27	13275.8	1.413	1.420	0.9103(5F)6F -0.2121(3G1)4G -0.2803(3G2)4G 0.1349(3G3)4G
4.5	14126.93	14054.7	-----	1.315	-0.7759(5F)4F 0.4657(5F)6F 0.1738(3G1)2G -0.1304(3G1)4G 0.2339(3G2)2G -0.1700(3G2)4G -0.1164(3G3)2G

(continued)

Table V... (continued)

$F^2(ff) = 71380.3$	
$F^4(ff) = 81590.2$	12 levels
$F^6(ff) = 35181.86$	Mean Diff. 23. cm^{-1}
$F^0(ff) = 60598.6$	RMS Dev. 45. cm^{-1}
$\zeta(f) = 1772.0$	
$G^3(fs) = 1478.0$	

$$\text{RMS Dev.} = [\sum_i \Delta^2/N - K]^{1/2}$$

Δ , difference between calculated and observed

N , number of levels

K , number of variable parameters

* Only values greater than 0.1 are listed.

TABLE VI
(pp. 80-82)

ENERGY	P	J	G	SL	CONF	ENERGY	P	J	G	SL	CONF
	EVEN LEVELS										
0.0	E	8.5	1.291	6I	4F106S	26695.72	O	8.5			
828.31	E	7.5	1.204	4I	4F106S	27090.35F	O	8.5			
4341.10	E	7.5	1.224	6I	4F106S	27193.05	O	6.5	1.295		
4755.66	E	6.5	1.134	4I	4F106S	27216.93	O	7.5	1.30		
7463.88	E	5.5	1.015	6I	4F106S	27232.69	O	8.5	1.24		
7485.09	E	6.5	1.135	6I	4F106S	27435.12	O	7.5	1.312		
9432.07	E	4.5	0.825	6I	4F106S	27462.39	O	5.5	1.18		
9870.99	E	5.5	0.998	4I	4F106S	27502.93	O	6.5	1.20		
10953.94	E	3.5	0.470	6I	4F106S	27666.77F	O	8.5			
11801.01	E	4.5	0.758	4I	4F106S	27792.48	O	6.5	1.15		
13338.27	E	5.5	1.413	6F	4F106S	27885.60	O	7.5	1.24		
14126.93	E	4.5		4F	4F106S	27990.27	O	5.5	1.291		
14952.14	E	7.5	1.29			28019.70	O	6.5	1.25		
15691.98	E	6.5	1.34			28111.30F	O	6.5			
						28252.34	O	8.5	1.23		
	ODD LEVELS					28306.83	O	9.5	1.26		
						28456.12	O	6.5	1.25		
						28550.72	O	6.5	1.22		
17036.55	O	7.5	1.29			28597.53F	O	8.5			
19251.83	O	8.5	1.28			28784.49	O	6.5			
19451.35	O	9.5	1.21								
20166.45	O	7.5	1.28			28819.13F	O	8.5			
20467.72	O	8.5	1.21			28885.37	O	7.5	1.261		
20896.38F	O	8.5				29014.43	O	8.5	1.25		
21134.77	O	6.5	1.24			29109.09	O	7.5	1.22		
22467.10	O	7.5	1.29			29279.06F	O	7.5			
22672.54	O	7.5	1.364								
22854.71	O	7.5	1.28			29336.06	O	8.5	1.27		
22908.07	O	8.5	1.24			29436.60	O	7.5	1.22		
23202.72	O	7.5	1.188			29681.74	O	9.5	1.21		
23303.06	O	6.5	1.31			29769.30	O	6.5	1.25		
23575.15	O	6.5	1.330			29877.52	O	6.5	1.406		
23765.80	O	8.5	1.27								
24316.09	O	8.5	1.23			30061.20F	O	8.5			
25192.03	O	7.5	1.30			30097.03	O	8.5			
25343.42	O	8.5	1.26			30112.92	O	7.5	1.21		
25453.06F	O	8.5				30287.36	O	6.5	1.210		
25772.86	O	6.5	1.370			30361.80	O	6.5	1.19		
25818.43	O	8.5	1.27								
25833.38	O	7.5	1.22			30399.10	O	7.5	1.20		
26336.28	O	8.5				30718.22	O	5.5	1.300		
26407.42	O	5.5	1.11			30747.02	O	7.5	1.32		
26634.20	O	7.5	1.29			30854.30F	O	6.5			
						30894.44	O	9.5	1.32		
						30973.57	O	6.5	1.14		
						31183.10	O	6.5	1.16		
						31306.47	O	7.5	1.21		
						31409.52F	O	5.5			
						31529.11	O	5.5	1.04		

ENERGY	P	J	G	SL	CONF	ENERGY	P	J	G	SL	CONF
31536.67	0	9.5	1.26			34667.64F	0	8.5			
31599.06F	0	5.5				34691.55	0	5.5	1.154		
31682.34	0	6.5				34712.23	0	4.5			
31701.66	0	5.5	1.08			34884.43	0	5.5			
31715.10	0	6.5				35075.91	0	5.5			
31826.35	0	7.5	1.33			35207.83	0	7.5			
31879.66	0	8.5	1.17			35266.61	0	8.5			
31978.85	0	6.5				35268.41	0	5.5			
32079.37F	0	8.5				35294.74	0	4.5	0.976		
32200.57F	0	8.5				35365.10	0	7.5			
32218.48	0	6.5				35387.84	0	3.5	0.794		
32281.84	0	8.5				35434.55	0	6.5			
32386.50	0	5.5	1.22			35495.93	0	8.5			
32496.67F	0	8.5				35685.84	0	5.5	1.229		
32578.38	0	7.5				35728.42	0	5.5			
32591.49	0	6.5	1.09			35764.64F	0	3.5			
32613.40	0	8.5				35841.78	0	4.5			
32679.28	0	4.5	1.13			36001.25	0	4.5	0.98		
32705.16F	0	6.5				36003.95	0	6.5			
32709.97	0	7.5	1.20			36057.03	0	5.5	1.21		
32834.31F	0	7.5				36260.74	0	4.5	0.95		
32903.81	0	5.5	1.10			36264.62	0	5.5			
32914.90	0	6.5	1.22			36279.11F	0	6.5			
33001.21	0	5.5	1.370			36282.61	0	6.5			
33073.54F	0	3.5				36340.06	0	4.5	1.155		
33097.32	0	4.5				36350.70	0	5.5			
33278.71	0	5.5				36387.03	0	6.5			
33306.71	0	5.5	1.29			36466.34	0	4.5			
33319.21	0	6.5				36699.50	0	3.5	1.11		
33438.52F	0	6.5				36751.91	0	4.5			
33466.72F	0	5.5				36805.43	0	4.5	1.225		
33507.29	0	5.5				36884.70	0	6.5	1.26		
33602.58F	0	6.5				36887.74F	0	6.5			
33616.81	0	6.5	1.260			36902.94F	0	8.5			
33677.88	0	5.5	1.14			36970.68	0	5.5			
33701.13	0	4.5	1.076			37036.56	0	3.5	0.97		
33817.65	0	6.5				37066.56	0	4.5			
34095.97F	0	3.5				37076.28	0	5.5	1.209		
34110.17	0	6.5	1.309			37187.31	0	5.5			
34216.48	0	5.5	1.137			37188.01	0	7.5			
34255.72	0	6.5	1.272			37199.97	0	3.5	1.088		
34396.87	0	8.5				37229.03	0	4.5			
34417.58F	0	3.5				37363.99	0	5.5	1.250		
34519.09	0	8.5				37517.38	0	5.5			
34524.06	0	5.5				37527.89	0	4.5	1.164		

ENERGY	P	J	G	SL	CONF	ENERGY	P	J	G	SL	CONF
37614.42F	0	5.5				40264.90	0	2.5	1.151		
37637.95	0	5.5	1.124			40427.58F	0	5.5			
37671.30	0	6.5	1.320			40541.00	0	4.5			
37764.84	0	3.5	1.054			40945.42	0	5.5			
37795.70	0	5.5	1.208			41232.44F	0	3.5			
37839.46	0	3.5	0.76			41356.05F	0	3.5			
37895.05	0	4.5	0.78			41367.54F	0	3.5			
37942.19	0	8.5				41808.88	0	3.5			
37958.42	0	4.5	1.165			42087.70F	0	3.5			
38130.17	0	6.5	1.228								
38251.80F	0	6.5									
38255.39	0	3.5									
38297.44	0	6.5									
38322.19	0	3.5									
38351.34	0	4.5									
38457.65	0	4.5									
38495.04	0	5.5	1.131								
38583.10	0	3.5	1.197								
38635.84	0	3.5	1.094								
38668.32F	0	3.5									
38758.89	0	6.5									
38802.85	0	3.5									
38804.02	0	7.5									
38972.58	0	4.5	1.227								
39081.24	0	3.5									
39175.06	0	5.5									
39301.45	0	4.5	1.153								
39308.62	0	3.5	1.021								
39377.02	0	2.5	0.701								
39416.22	0	5.5	1.049								
39499.72	0	3.5	1.214								
39549.11	0	5.5	0.953								
39677.30	0	3.5									
39640.38F	0	3.5									
39676.78F	0	8.5									
39691.58	0	4.5	1.017								
39708.28F	0	8.5									
39838.11	0	4.5	1.233								
39854.90	0	4.5									
39910.52F	0	7.5									
40036.03	0	3.5	1.101								
40091.48	0	4.5									
40176.09F	0	3.5									
40209.88	0	2.5	0.832								
40223.84	0	5.5	1.075								

ENERGY IN WAVENUMBERS
P PARITY, O FOR ODD, E FOR EVEN
J J VALUE
G LANDE G VALUE
S MULTIPLICITY
L TERM
CONF CONFIGURATION
F NOT WELL SUBSTANTIATED

TABLE VII
(pp. 83-105)

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS	
				J-C	J-E	G-C	G-E	TYPE
9363.94	10676.337	10		8.5	7.5			24316-14952
9500.04	10523.389	1000C		7.5	6.5			25192-15691
9551.51	10466.683	100		7.5	6.5			17036- 7485
10239.88	9763.062	100	II	7.5	7.5			25192-14952
10391.28	9620.814	1000	II	8.5	7.5			25343-14952
10500.84	9520.434	C	II	8.5	7.5			25453-14952
10866.26	9200.275	1000	II	8.5	7.5			25818-14952
10881.23	9187.618	3	II	7.5	7.5			25833-14952
10942.19	9136.428	C	II	7.5	6.5			26634-15691
11263.76	8875.596	1		6.5	5.5			21134- 9870
11524.92	8674.463	3	II	7.5	6.5			27216-15691
11682.06	8557.786	300	II	7.5	7.5	1.28	1.29	3 26634-14952
11743.14	8513.273	100	II	7.5	6.5			27435-15691
11743.55	8512.975	C	I	8.5	7.5			26695-14952
11810.99	8464.362	10	II	6.5	6.5			27502-15691
12100.48	8261.862	1	II	6.5	6.5			27792-15691
12193.60	8198.770	1000	II	7.5	6.5	1.24	1.32	1 27885-15691
12240.92	8167.078	0		6.5	7.5			27193-14952
12264.76	8151.199	3	I	7.5	7.5			27216-14952
12280.54	8140.724	30	II	8.5	7.5			27232-14952
12280.84	8140.529	3	II	7.5	6.5			17036- 4755
12298.30	8128.971	100	II	5.5	6.5			27990-15691
12482.98	8008.706	300	II	7.5	7.5	1.31	1.29	3 27435-14952
12550.83	7965.413	10	II	6.5	7.5			27502-14952
12695.46	7874.668	1	I	7.5	7.5			17036- 4341
12764.15	7832.288	3		6.5	6.5			28456-15691
12840.34	7785.811	3	II	6.5	7.5			27792-14952
12933.45	7729.764	1000	II	7.5	7.5	1.24	1.29	3 27885-14952
13067.55	7650.435	C	II	6.5	7.5			28019-14952
13092.46	7635.880	1	II	6.5	6.5			28784-15691
13159.13	7597.196	1	II	6.5	7.5			28111-14952
13193.40	7577.462	300	II	7.5	6.5	1.27	1.35	1 28885-15691
13300.20	7516.613	300	II	8.5	7.5			A 28252-14952
13417.12	7451.115	100	II	7.5	6.5			29109-15691
13503.96	7403.194	30	II	6.5	7.5			28456-14952
13670.87	7312.807		B	6.5	6.5			21134- 7463
13744.61	7273.573	100	II	7.5	6.5			A 29436-15691
13863.34	7211.284	1	II	5.5	4.5			27990-14126
13866.95	7209.404	3	II	8.5	7.5			28819-14952
13933.23	7175.107	300	II	7.5	7.5	1.26	*1.29	3 28885-14952
14062.29	7109.258	300	II	8.5	7.5			1 29014-14952
14077.33	7101.663	30	II	6.5	6.5			29769-15691
14185.55	7047.485	10	II	6.5	6.5			29877-15691
14326.94	6977.932	3	II	7.5	7.5			29279-14952
14383.94	6950.280	300	II	8.5	7.5	1.27	1.28	1 29336-14952

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
14420.93	6932.452	100	II	7.5	6.5				30112-15691
14484.46	6902.046	10	II	7.5	7.5				29436-14952
14595.38	6849.593	1		6.5	6.5				30287-15691
14606.38	6844.436	0		5.5	4.5				26407-11801
14669.81	6814.839	10		6.5	6.5				30361-15691
14681.47	6809.425	0	I	6.5	5.5				28019-13338
14707.12	6797.552	3	I	7.5	6.5				30399-15691
14817.16	6747.067	3	II	6.5	7.5				29769-14952
14910.74	6704.725	3		8.5	7.5				19251- 4341
14925.44	6698.122	3	I	6.5	7.5				29877-14952
15117.81	6612.887	1		6.5	5.5				28456-13338
15160.78	6594.145	100	II	7.5	7.5				30112-14952
15281.59	6542.015	0		6.5	6.5				30973-15691
15335.23	6519.130	30	II	6.5	7.5				30287-14952
15410.80	6487.165	10	I	7.5	6.5				20166- 4755
15446.96	6471.976	30	II	7.5	7.5				30399-14952
15591.25	6412.083	1	I	5.5	4.5				30718-14126
15614.50	6402.535	10	II	7.5	6.5				31306-15691
15817.96	6320.179	3	II	6.5	6.5				23303- 7485
15825.35	6317.228	30	II	7.5	7.5				20166- 4341
15837.11	6312.536	3	II	5.5	5.5				31529-15691
15839.17	6311.716	0		6.5	5.5				23303- 7463
16023.14	6239.248	10	II	6.5	6.5				31715-15691
16090.04	6213.307	10	II	6.5	6.5				23575- 7485
16111.27	6205.120	1	I	6.5	5.5				23575- 7463
16126.62	6199.212	30	II	8.5	7.5				20467- 4341
16134.38	6196.231	100	II	7.5	6.5	1.33	1.34	1	31826-15691
16208.28	6167.981	10	I	7.5	7.5				17036- 828
16286.86	6138.218	10	II	6.5	6.5				31978-15691
16379.11	6103.648	30	II	6.5	6.5				21134- 4755
16431.00	6084.372	0	I	6.5	5.5				29769-13338
16555.27	6038.700	30	II	8.5	7.5				20896- 4341
16874.21	5924.562	30	II	7.5	7.5	1.33	1.29	3	31826-14952
17017.99	5874.507	1		7.5	6.5				32709-15691
17036.55	5868.106	300	II	7.5	8.5	1.29	1.29	4	17036- 0
17402.11	5744.837	1		5.5	4.5				31529-14126
17591.36	5683.032	30	II	5.5	5.5				27462- 9870
17962.76	5565.526	10	II	6.5	7.5				32914-14952
18030.30	5544.679	1	II	5.5	4.5				27462- 9432
18125.99	5515.407	100	II	7.5	7.5			3	22467- 4341
18287.76	5466.620	3	II	6.5	6.5				25772- 7485
18331.43	5453.597	10	II	7.5	7.5				22672- 4341
18363.39	5444.106	3		5.5	5.5				31701-13338
18367.11	5443.003	10	II	6.5	7.5				33319-14952
18376.82	5440.126	3		6.5	5.5				31715-13338

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPF	OCC-EVEN	
18423.52	5426.336	10	II	8.5	7.5				19251-	828
18447.04	5419.417	10		7.5	6.5				23202-	4755
18513.60	5399.934	100	II	7.5	7.5	1.28	1.24	3	22854-	4341
18547.40	5390.092	30	II	6.5	6.5				23303-	4755
18640.60	5363.143	0		6.5	5.5				31978-	13338
18819.49	5312.162	10	II	6.5	6.5				23575-	4755
18861.61	5300.298	100	II	7.5	7.5			3	23202-	4341
18880.21	5295.079	1	I	6.5	5.5				32218-	13338
18922.31	5283.296	10	II	5.5	6.5				26407-	7485
18943.54	5277.377	30	II	5.5	5.5				26407-	7463
18961.96	5272.248	100	II	6.5	7.5	1.31	1.23	1	23303-	4341
19149.17	5220.704	3	II	7.5	6.5				26634-	7485
19234.05	5197.664	1000	II	6.5	7.5			1	23575-	4341
19251.83	5192.865	3000	II	8.5	8.5	1.28	1.29	3	19251-	0
19253.20	5192.495	30	I	6.5	5.5				32591-	13338
19338.14	5169.688	1000	II	7.5	7.5	1.29	1.19	3	20166-	828
19451.35	5139.598	1000	II	9.5	8.5	1.21	1.29	1	19451-	0
19550.95	5113.415	10	II	5.5	4.5				33677-	14126
19639.40	5090.386	300	II	8.5	7.5	1.21	1.21	4	20467-	828
19707.92	5072.687	0		6.5	6.5				27193-	7485
19742.65	5063.765	1	II	6.5	6.5				35434-	15691
19898.28	5024.158	3	I	6.5	5.5				29769-	9870
19950.00	5011.133	10	II	7.5	6.5				27435-	7485
19977.30	5004.285	300	II	5.5	6.5			2	27462-	7485
19998.52	4998.976	10	II	5.5	5.5				27462-	7463
20017.81	4994.158	3		6.5	6.5				27502-	7485
20039.07	4988.859	3		6.5	5.5				27502-	7463
20068.06	4981.652	3		8.5	7.5				20896-	828
20166.49	4957.338	3000	II	7.5	8.5	1.27	1.28	1	20166-	0
20169.02	4956.715	3	I	5.5	5.5				33507-	13338
20278.55	4929.944	3	I	6.5	5.5				33616-	13338
20306.49	4923.160	3000	II	6.5	7.5	1.24	1.20	1	21134-	828
20307.41	4922.937	10	II	6.5	6.5				27792-	7485
20328.59	4917.806	10	II	6.5	5.5				27792-	7463
20339.64	4915.135	1	II	5.5	5.5				33677-	13338
20365.05	4909.003	0	II	5.5	6.5				36057-	15691
20416.35	4896.666	3		6.5	5.5				30287-	9870
20436.40	4891.865	3		7.5	6.5				25192-	4755
20467.72	4884.377	100	II	8.5	8.5				20467-	0
20482.43	4880.871	0		6.5	7.5				35434-	14952
20505.16	4875.460	100	II	5.5	6.5				27990-	7485
20526.42	4870.410	0	II	5.5	5.5				27990-	7463
20543.77	4866.298	1		8.5	7.5				35495-	14952
20564.62	4861.363	10	II	5.5	4.5				34691-	14126
20585.30	4856.479	3		4.5	4.5				34712-	14126

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
20590.61	4855.225	100	I	6.5	6.5				3 36282-15691
20626.22	4846.844	1	II	6.5	6.5				28111- 7485
20647.36	4841.881	10	II	6.5	5.5				28111- 7463
20695.07	4830.720	C	I	6.5	6.5				36387-15691
20847.14	4795.480	3	II	5.5	5.5				30718- 9870
20850.94	4794.606	100	II	7.5	7.5				25192- 4341
20896.41	4784.173	1	II	8.5	8.5				20896- 0
20971.02	4767.151	100		6.5	6.5				28456- 7485
20983.29	4764.365	100	II	6.5	5.5				30854- 9870
21002.33	4760.046	1000	II	8.5	7.5	1.26	1.23	2	25343- 4341
21017.23	4756.672	300	II	6.5	6.5	1.368	*1.132	3	25772- 4755
21065.68	4745.730		B	6.5	6.5				28550- 7485
21077.73	4743.018	1000	II	7.5	6.5			2	25833- 4755
21111.96	4735.326	3	II	8.5	7.5				25453- 4341
21141.50	4728.711	100	I	5.5	4.5				35268-14126
21167.83	4722.829	1	II	4.5	4.5				35294-14126
21185.82	4718.818	300		5.5	5.5			3	34524-13338
21272.53	4699.583	10	II	3.5	4.5				33073-11801
21286.16	4696.574	3	I	5.5	4.5				30718- 9432
21296.31	4694.336	300	II	4.5	4.5			3	33097-11801
21299.28	4693.659	300	II	6.5	6.5			3	28784- 7485
21312.02	4690.876	1	II	6.5	5.5				31183- 9870
21320.61	4688.984	30	II	6.5	5.5				28784- 7463
21330.48	4686.816	1	II	6.5	7.5				36282-14952
21373.98	4677.277	10	II	4.5	5.5				34712-13338
21384.32	4675.016	30	I	5.5	6.5				37076-15691
21400.28	4671.528	300	II	7.5	6.5				28885- 7485
21431.79	4664.659	3000	II	6.5	7.5	1.370	1.224	1	25772- 4341
21477.37	4654.761	300	II	8.5	7.5	1.27	1.22	2	25818- 4341
21492.32	4651.523	300	II	7.5	7.5	1.22	1.22	4	25833- 4341
21495.32	4650.872	1	I	5.5	6.5				37187-15691
21496.06	4650.714	10	I	7.5	6.5				37188-15691
21505.71	4648.626	3	I	5.5	4.5				33306-11801
21538.58	4641.532	10	II	5.5	5.5				31409- 9870
21546.18	4639.895	10	II	5.5	5.5				34884-13338
21624.02	4623.193	30	II	7.5	6.5				29109- 7485
21638.80	4620.034	3000	II	7.5	7.5	1.29	1.20	3	22467- 828
21651.78	4617.264	3000	II	5.5	6.5	1.11	1.13	2	26407- 4755
21665.72	4614.293	10	II	5.5	4.5				33466-11801
21728.08	4601.051	3	II	5.5	5.5				31599- 9870
21793.97	4587.139	0	II	7.5	6.5				29279- 7485
21811.35	4583.485	0	II	6.5	5.5				31682- 9870
21830.67	4579.428	300	II	5.5	5.5				31701- 9870
21844.24	4576.584	1000	II	7.5	7.5	1.364	1.206	3	22672- 828
21874.35	4570.284	10	II	4.5	4.5				36001-14126

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS CCC-EVEN
						G-C	G-E	TYPE	
21878.56	4569.403	100	II	7.5	6.5				26634- 4755
21900.11	4564.906	30		4.5	4.5				33701-11801
21930.12	4558.660	30	II	5.5	5.5				35268-13338
21930.12	4558.660	30	II	5.5	4.5				36057-14126
21932.61	4558.143	300	II	6.5	7.5	1.26	1.30	2	36884-14952
21950.85	4554.356	100	II	8.5	7.5				36902-14952
21951.52	4554.216	300	II	7.5	6.5			2	29436- 7485
21956.50	4553.183	100	I	4.5	5.5				35294-13338
21977.45	4548.844	1	II	5.5	4.5				31409- 9432
21995.19	4545.174	100	II	8.5	7.5			A	26336- 4341
22026.42	4538.730	1000	II	7.5	7.5	1.28	1.21	3	22854- 828
22079.78	4527.761	3000	II	8.5	7.5	1.24	1.20	2	22908- 828
22107.85	4522.011	1	II	6.5	5.5				31978- 9870
22119.60	4519.610	10	II	3.5	3.5				33073-10953
22137.69	4515.916	30	II	5.5	4.5				36264-14126
22143.40	4514.753	10	II	4.5	3.5				33097-10953
22166.98	4509.950	30	II	5.5	4.5				31599- 9432
22213.13	4500.579	30	II	4.5	4.5				36340-14126
22223.78	4498.422	300	II	5.5	4.5				36350-14126
22269.60	4489.168	30	II	5.5	4.5				31701- 9432
22284.22	4486.222	300	II	6.5	6.5	1.25	*1.135	3	29769- 7485
22293.13	4484.428	100	II	7.5	7.5				26634- 4341
22294.93	4484.066	30	II	3.5	4.5				34095-11801
22305.43	4481.956	1000	II	6.5	5.5			2	29769- 7463
22339.43	4475.135	10	II	4.5	4.5				36466-14126
22347.49	4473.520	300	II	6.5	5.5				32218- 9870
22347.49	4473.520	300	II	5.5	5.5				35685-13338
22354.64	4472.090	30	II	8.5	7.5				26695- 4341
22374.41	4468.137	3000	II	7.5	7.5	1.18	1.20	3	23202- 828
22413.66	4460.314	10	I	6.5	5.5				29877- 7463
22415.45	4459.957	3	II	5.5	4.5				34216-11801
22437.38	4455.598	1000	II	6.5	6.5	1.295	*1.130	3	27193- 4755
22467.11	4449.702	3000	II	7.5	8.5	1.30	1.29	1	22467- 0
22474.77	4448.185	1000	II	6.5	7.5			1	23303- 828
22515.52	4440.134	100	II	5.5	5.5				32386- 9870
22572.58	4428.910	100	II	3.5	4.5				36699-14126
22616.58	4420.293	100	II	3.5	4.5				34417-11801
22624.99	4418.650	10	II	4.5	4.5				36751-14126
22627.84	4418.095	1000	II	7.5	6.5	1.21	1.14	2	30112- 7485
22662.98	4411.244	30	II	4.5	5.5				36001-13338
22665.65	4410.724	30	II	6.5	5.5				36003-13338
22672.57	4409.378	3000	II	7.5	8.5	1.35	1.28	1	22672- 0
22679.48	4408.034	1000	II	7.5	6.5	1.315	1.138	2	27435- 4755
22706.75	4402.741	100		5.5	6.5				27462- 4755
22718.77	4400.410	100	II	5.5	5.5				36057-13338

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
22720.49	4400.077	1000	II	6.5	5.5				2 32591- 9870
22723.05	4399.581	300	II	5.5	4.5				34524-11801
22746.85	4394.978	3000	II	6.5	7.5	1.330	*1.206	1	23575- 828
22747.27	4394.897	1000	II	6.5	6.5	1.20	1.14	3	27502- 4755
22749.23	4394.519	1	II	8.5	7.5				27090- 4341
22802.28	4384.295	1000	II	6.5	6.5	1.21	1.13	3	30287- 7485
22808.29	4383.139	300	II	4.5	5.5				32679- 9870
22823.48	4380.221	1000	II	6.5	5.5	1.210	1.005	2	30287- 7463
22834.13	4378.178	0	I	6.5	5.5				32705- 9870
22843.81	4376.324	1	II	5.5	4.5				36970-14126
22851.95	4374.764	3000	II	6.5	7.5	1.29	1.23	1	27193- 4341
22854.72	4374.235	3000	II	7.5	8.5	1.28	1.30	1	22854- 0
22875.83	4370.197	30	II	7.5	7.5				27216- 4341
22876.70	4370.032	30	II	6.5	6.5				30361- 7485
22890.54	4367.389	30	II	5.5	4.5				34691-11801
22891.61	4367.185	100	II	8.5	7.5	1.25	1.25	4	27232- 4341
22897.97	4365.973	10	II	6.5	5.5				30361- 7463
22908.08	4364.046	3000	II	8.5	8.5	1.24	1.29	3	22908- 0
22911.23	4363.446	30	II	4.5	4.5				34712-11801
22914.03	4362.913	300	II	7.5	6.5			2	30399- 7485
22926.37	4360.563	30	II	5.5	5.5				36264-13338
22937.53	4358.443	3000	II	8.5	7.5	1.27	1.21	2	23765- 828
22939.63	4358.043	3	I	4.5	4.5				37066-14126
22944.36	4357.145	30	II	6.5	5.5				36282-13338
22949.34	4356.198	10	II	5.5	4.5				37076-14126
22954.45	4355.229	300	II	5.5	4.5	1.22	*0.825	2	32386- 9432
22990.02	4348.490	10	II	8.5	7.5				37942-14952
23001.81	4346.261	300	II	4.5	5.5	1.155	1.418	2	36340-13338
23012.47	4344.249	300	II	5.5	5.5			3	36350-13338
23032.84	4340.407	300	II	5.5	5.5	1.10	*0.998	3	32903- 9870
23036.83	4339.654	3000	II	6.5	6.5	1.15	1.13	3	27792- 4755
23043.92	4338.320	10		6.5	5.5				32914- 9870
23073.04	4332.845	1	II	3.5	4.5				37199-14126
23094.05	4328.902	3000	II	7.5	7.5	1.31	*1.224	3	27435- 4341
23128.08	4322.533	3000	II	4.5	5.5			1	36466-13338
23129.95	4322.184	1000	II	7.5	6.5			2	27885- 4755
23130.23	4322.132	300	II	5.5	5.5			3	33001- 9870
23142.02	4319.930	0	II	3.5	3.5				34095-10953
23161.89	4316.223	300 W	II	6.5	7.5			2	27502- 4341
23178.00	4313.223	10	I	6.5	7.5				38130-14952
23202.73	4308.626	3000	II	7.5	8.5	1.188	1.291	2	23202- 0
23233.15	4302.985	3000	II	5.5	6.5	1.304	*1.135	1	30718- 7485
23234.61	4302.714	3000	II	5.5	6.5	1.291	1.130	1	27990- 4755
23247.22	4300.380	300	II	4.5	4.5	1.13	*0.825	3	32679- 9432
23254.35	4299.061	300	II	5.5	5.5	1.301	1.014	3	30718- 7463

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
23264.05	4297.268	100C	II	6.5	6.5				3 28019- 4755
23274.92	4295.262	0		5.5	4.5				35075-11801
23325.70	4285.910	0	II	8.5	7.5				27666- 4341
23355.65	4280.416	0	II	6.5	6.5				28111- 4755
23369.17	4277.938	3	II	6.5	6.5				30854- 7485
23390.46	4274.045	1	II	6.5	5.5				30854- 7463
23390.46	4274.045	1	II	5.5	4.5				37517-14126
23400.96	4272.126	30	II	4.5	4.5				37527-14126
23407.73	4270.891	1000	II	5.5	5.5				3 33278- 9870
23435.72	4265.789	1000	II	5.5	5.5	1.29	*0.998	3	33306- 9870
23448.23	4263.514	100	II	6.5	5.5				33319- 9870
23451.39	4262.939	100	II	6.5	7.5			2	27792- 4341
23463.64	4260.715	100C B		3.5	3.5			3	34417-10953
23467.15	4260.078	1	II	4.5	5.5				36805-13338
23467.40	4260.031	1	II	5.5	4.5				35268-11801
23471.75	4259.242	30	II	5.5	4.5				32903- 9432
23487.81	4256.330	300C	II	8.5	7.5	1.23	1.21	2	24316- 828
23488.50	4256.205	1000	II	6.5	6.5	1.138	1.138	4	30973- 7485
23493.73	4255.257	10	II	4.5	4.5				35294-11801
23509.70	4252.366	100C	II	6.5	5.5			2	30973- 7463
23511.05	4252.122	300		5.5	4.5			1	37637-14126
23544.52	4246.077	100	II	7.5	7.5				27885- 4341
23546.38	4245.742	1	II	6.5	5.5				36884-13338
23567.55	4241.928	10	II	6.5	5.5				33438- 9870
23569.14	4241.642	30	II	5.5	4.5				33001- 9432
23586.86	4238.455	300	II	3.5	4.5	0.78	0.75	1	35387-11801
23595.71	4236.866	0	II	5.5	5.5				33466- 9870
23632.42	4230.283	100	II	5.5	5.5			3	36970-13338
23641.49	4228.661	3	II	3.5	4.5				33073- 9432
23665.26	4224.414	10	II	4.5	4.5				33097- 9432
23668.80	4223.781	3	II	5.5	4.5				37795-14126
23678.61	4222.031	100	II	6.5	7.5				28019- 4341
23698.02	4218.574	1000	II	6.5	6.5	1.16	1.14	3	31183- 7485
23719.22	4214.802	100	II	6.5	5.5				31183- 7463
23731.54	4212.614	1	II	6.5	5.5				33602- 9870
23738.02	4211.465	10	II	5.5	5.5				37076-13338
23745.86	4210.075	10	II	6.5	5.5				33616- 9870
23758.29	4207.872	100	II	4.5	3.5				34712-10953
23765.80	4206.542	10000 R	II	8.5	8.5	1.27	1.29	3	23765- C
23770.22	4205.760	10	II	6.5	7.5				28111- 4341
23795.04	4201.372	300	II	6.5	6.5	1.21	*1.130	3	28550- 4755
23806.88	4199.283	100	II	5.5	5.5				33677- 9870
23830.13	4195.186	1000	II	4.5	5.5				33701- 9870
23846.66	4192.278	10	II	5.5	4.5				33278- 9432
23849.00	4191.867	100	II	5.5	5.5				37187-13338

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
23857.21	4190.423	10	II	5.5	6.5				39549-15691
23874.64	4187.364	300	II	5.5	4.5	1.29	*0.825	2	33306- 9432
23884.81	4185.581	3	II	5.5	4.5				35685-11801
23911.26	4180.951	100	II	8.5	7.5			2	28252- 4341
23924.41	4178.655	3	II	5.5	6.5				31409- 7485
23945.68	4174.941	C	II	5.5	5.5				31409- 7463
23946.62	4174.778	10	I	6.5	5.5				33817- 9870
23963.66	4171.809	100	II	3.5	4.5				35764-11801
24028.86	4160.489	100	II	6.5	6.5				28784- 4755
24040.78	4158.427	100	II	4.5	4.5				35841-11801
24044.05	4157.862	100	II	5.5	6.5				31529- 7485
24065.22	4154.203	1000	II	5.5	5.5	1.04	1.02	3	31529- 7463
24075.23	4152.475	1000	II	5.5	4.5				33507- 9432
24115.04	4145.621	1000	II	6.5	7.5	1.25	1.22	1	28456- 4341
24128.41	4143.323	10	I	3.5	4.5				38255-14126
24129.72	4143.099	10000	II	7.5	6.5	1.261	1.143	2	28885- 4755
24135.18	4142.162	1	II	5.5	5.5				31599- 7463
24179.11	4134.634	3	I	5.5	5.5				37517-13338
24189.64	4132.835	300	II	4.5	5.5	1.157	1.409	2	37527-13338
24197.21	4131.543	10	II	6.5	6.5				31682- 7485
24200.26	4131.021	300	II	4.5	4.5	0.98	0.75	3	36001-11801
24209.64	4129.422	3000	II	6.5	7.5	1.23	1.19	1	28550- 4341
24216.57	4128.239	3000	II	5.5	6.5	1.09	1.14	2	31701- 7485
24218.46	4127.916	10	I	6.5	5.5				31682- 7463
24230.01	4125.950	30	II	6.5	6.5				31715- 7485
24237.78	4124.626	3000	II	5.5	5.5	1.07	1.01	3	31701- 7463
24251.24	4122.338	100	II	6.5	5.5			2	31715- 7463
24255.97	4121.534	1	II	5.5	4.5				36057-11801
24256.44	4121.454	10	II	8.5	7.5				28597- 4341
24269.06	4119.310	3000	II	4.5	4.5	1.076	0.825	3	33701- 9432
24299.69	4114.117	100	II	5.5	5.5				37637-13338
24316.09	4111.343	3000	II	8.5	8.5	1.23	1.29	3	24316- 0
24330.70	4108.874	30	II	4.5	4.5				38457-14126
24333.02	4108.483	30	II	6.5	5.5				37671-13338
24340.80	4107.170	300	II	4.5	3.5	0.976	0.472	2	35294-10953
24341.26	4107.092	100	II	7.5	6.5				31826- 7485
24345.49	4106.378	1000	II	5.5	5.5	1.14	*0.998	3	34216- 9870
24353.46	4105.035	300	II	7.5	6.5			2	29109- 4755
24363.73	4103.304	10000	II	7.5	7.5	1.30	1.20	3	25192- 828
24368.06	4102.575	3	II	5.5	4.5				38495-14126
24433.90	4091.520	1000	II	3.5	3.5	0.754	0.464	3	35387-10953
24443.38	4089.932	100	II	6.5	7.5				28784- 4341
24459.73	4087.199	1000	II	4.5	4.5	0.95	*0.758	3	36260-11801
24463.61	4086.549	C		5.5	4.5				36264-11801
24478.02	4084.145	C	II	8.5	7.5				28819- 4341

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
24493.76	4081.520	30		6.5	6.5				31978- 7485
24515.12	4077.964	10000	II	8.5	7.5	1.26	1.21	2	25343- 828
24523.39	4076.588	C	II	7.5	6.5				29279- 4755
24539.06	4073.985	100	II	4.5	4.5				36340-11801
24544.30	4073.116	3000	II	7.5	7.5	1.25	1.23	3	28885- 4341
24620.15	4060.566	300	II	4.5	5.5				37958-13338
24624.79	4059.801	1	II	8.5	7.5				25453- 828
24653.08	4055.144	1000	II	5.5	5.5			3	34524- 9870
24663.92	4053.361	30	II	3.5	4.5				34095- 9432
24665.34	4053.127	10	II	4.5	4.5				36466-11801
24673.34	4051.813	30	II	8.5	7.5				29014- 4341
24680.95	4050.564	1000	II	7.5	6.5			2	29436- 4755
24733.39	4041.975	300	II	6.5	6.5			3	32218- 7485
24754.60	4038.512	1000	II	6.5	5.5			2	32218- 7463
24768.01	4036.325	1000	II	7.5	7.5	1.22	1.22	4	29109- 4341
24784.41	4033.655	300	II	5.5	4.5	1.137	0.825	2	34216- 9432
24810.68	4029.384	30	II	3.5	3.5				35764-10953
24820.56	4027.779	1000	II	5.5	5.5	1.154	1.006	3	34691- 9870
24841.23	4024.428	300	II	4.5	5.5			1	34712- 9870
24845.65	4023.713	B		4.5	4.5				38972-14126
24887.82	4016.895	100	II	4.5	3.5				35841-10953
24898.49	4015.172	300	II	3.5	4.5	1.11	0.75	1	36699-11801
24901.40	4014.704	1000	II	5.5	6.5			1	32386- 7485
24922.60	4011.288	1000	II	5.5	5.5			3	32386- 7463
24944.55	4007.759	300	II	6.5	7.5			1	25772- 828
24950.90	4006.738	10	II	4.5	4.5				36751-11801
24985.51	4001.189	30	I	3.5	4.5				34417- 9432
24990.12	4000.450	10000 R	II	8.5	7.5	1.28	1.21	2	25818- 828
24994.96	3999.675	3	I	8.5	7.5				29336- 4341
25005.06	3998.060	300	II	7.5	7.5			3	25833- 828
25013.65	3996.688	3000	II	6.5	6.5			3	29769- 4755
25047.31	3991.315	1000	II	4.5	3.5			2	36001-10953
25091.98	3984.210	1000	II	5.5	4.5			2	34524- 9432
25095.50	3983.652	3000	II	7.5	7.5	1.22	1.22	4	29436- 4341
25106.39	3981.924	3000	II	6.5	6.5			3	32591- 7485
25121.86	3979.471	1000	II	6.5	6.5			3	29877- 4755
25127.58	3978.566	3000	II	6.5	5.5	1.09	1.00	2	32591- 7463
25174.48	3971.152	100	II	4.5	4.5			3	34301-14126
25192.01	3968.391	10000 R	II	7.5	8.5			4	25192- 0
25204.93	3966.356	B		5.5	5.5				35075- 9870
25215.38	3964.712	300	II	4.5	5.5	1.14	1.01	1	32679- 7463
25220.14	3963.964	1	II	6.5	6.5				32705- 7485
25224.87	3963.220	100	I	7.5	6.5				32709- 7485
25235.56	3961.541	300	II	3.5	4.5	0.97	0.76	1	37036-11801
25241.25	3960.648	1	I	6.5	5.5				32705- 7463

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
25253.44	3958.737	10	I	5.5	6.5				40945-15691
25259.48	3957.790	1000	II	5.5	4.5			2	34691- 9432
25275.29	3955.314	100	II	5.5	4.5				37076-11801
25280.16	3954.552	1000	II	4.5	4.5			3	34712- 9432
25289.27	3953.128	100	II	5.5	4.5			A	39416-14126
25306.80	3950.389	1000	II	4.5	3.5			2	36260-10953
25343.40	3944.683	10000 R	II	8.5	8.5	1.26	1.29	3	25343- 0
25349.22	3943.778	3	II	7.5	6.5				32834- 7485
25357.27	3942.527	1000	II	7.5	6.5			2	30112- 4755
25386.12	3938.046	300	II	4.5	3.5			2	36340-10953
25397.41	3936.295	300	II	5.5	5.5			3	35268- 9870
25398.96	3936.054	300	II	3.5	4.5			A	37199-11801
25418.72	3932.995	300	II	5.5	6.5			2	32903- 7485
25422.12	3932.469	3	II	5.5	4.5				39549-14126
25423.76	3932.216	1000	II	4.5	5.5			2	35294- 9870
25428.23	3931.524	3000	II	6.5	7.5	1.26	1.23	1	29769- 4341
25429.80	3931.281	1000	II	6.5	6.5			3	32914- 7485
25439.93	3929.716	300	II	5.5	5.5			3	32903- 7463
25451.01	3928.005	300	II	6.5	5.5			2	32914- 7463
25452.35	3927.798	3	II	5.5	4.5				34884- 9432
25453.06	3927.609	3	II	8.5	8.5				25453- 0
25480.37	3923.479	10		3.5	4.5				39607-14126
25508.00	3919.228	300	II	8.5	7.5				26336- 828
25512.39	3918.555	300	II	4.5	3.5			2	36466-10953
25516.10	3917.985	300	I	5.5	6.5			1	33001- 7485
25531.68	3915.594	1000	II	6.5	6.5			3	30287- 4755
25536.42	3914.866	1000	II	6.5	7.5			1	29877- 4341
25537.28	3914.735	30	II	5.5	5.5				33001- 7463
25564.63	3910.547	100	II	4.5	4.5			3	39691-14126
25606.12	3904.209	1000	II	6.5	6.5	1.19	1.13	3	30361- 4755
25633.45	3900.048	1	II	4.5	5.5				33097- 7463
25634.29	3899.920	100	II	4.5	5.5			2	38972-13338
25643.44	3898.529	10000 R	II	7.5	6.5			2	30399- 4755
25643.81	3898.472	100	II	5.5	4.5			2	35075- 9432
25720.14	3886.903	10	II	8.5	7.5				30061- 4341
25727.94	3885.723	100	II	4.5	4.5				39854-14126
25745.55	3883.066	1000	II	3.5	3.5			3	36699-10953
25755.94	3881.500	300	II	8.5	7.5			2	30097- 4341
25771.83	3879.106	1000	II	7.5	7.5	1.20	1.21	3	30112- 4341
25797.95	3875.179	300	II	4.5	3.5			A	36751-10953
25805.89	3873.986	3000	II	7.5	7.5	1.30	1.20	3	26634- 828
25814.82	3872.645	300 B	II	5.5	5.5			3	33278- 7463
25814.82	3872.645	300 B	II	5.5	5.5			3	35685- 9870
25818.41	3872.107	10000 R	II	8.5	8.5			3	25818- 0
25821.61	3871.628	1000	II	5.5	6.5			1	33306- 7485

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS OCC-EVEN
						G-C	G-E	TYPE	
25833.38	3869.864	1000	II	7.5	8.5				2 25833- 0
25834.10	3869.756	300	II	6.5	6.5				3 33319- 7485
25836.32	3869.424	1000	II	5.5	4.5				2 35268- 9432
25836.78	3869.354	30 W	II	5.5	5.5				39175-13338
25842.82	3868.450	1000	II	5.5	5.5				3 33306- 7463
25851.49	3867.153	30	II	4.5	3.5				36805-10953
25855.32	3866.580	1000	II	6.5	5.5				2 33319- 7463
25857.41	3866.266	100	II	5.5	5.5				3 35728- 9870
25862.66	3865.482	300	II	4.5	4.5				3 35294- 9432
25867.42	3864.771	300	II	8.5	7.5				1 26695- 828
25946.26	3853.027	3000	II	6.5	7.5				4 30287- 4341
25955.77	3851.616	30	II	3.5	4.5				35387- 9432
25962.54	3850.611	100	II	5.5	6.5				30718- 4755
25963.19	3850.515	300	II	4.5	5.5				2 39301-13338
25963.83	3850.420	300	II	3.5	4.5				37764-11801
25964.55	3850.312	30	II	4.5	4.5				40091-14126
25970.79	3849.388	1000	II	4.5	5.5				1 35841- 9870
25974.65	3848.817	10	II	6.5	5.5				33438- 7463
25981.57	3847.790	30	II	5.5	6.5				33466- 7485
25991.35	3846.342	1000	II	7.5	6.5	1.32	1.13		2 30747- 4755
26002.89	3844.636	30	I	5.5	5.5				33466- 7463
26020.70	3842.004	1000		6.5	7.5	1.19	1.22		2 30361- 4341
26022.18	3841.786	300		5.5	6.5				4 33507- 7485
26038.45	3839.385	100	II	3.5	4.5	0.76	0.76		4 37839-11801
26043.39	3838.658	1000	II	5.5	5.5				3 33507- 7463
26058.00	3836.504	3000	II	7.5	7.5	1.20	1.22		3 30399- 4341
26077.93	3833.573	100	II	5.5	5.5				39416-13338
26082.61	3832.885	300	II	3.5	3.5				3 37036-10953
26094.08	3831.199	10	I	4.5	4.5				37895-11801
26112.60	3828.482	300	II	4.5	3.5				37066-10953
26117.51	3827.764	30	II	6.5	6.5				33602- 7485
26130.28	3825.892	10	II	4.5	5.5				36001- 9870
26131.72	3825.680	300	II	6.5	6.5				3 33616- 7485
26152.92	3822.580	300	II	6.5	5.5	1.260	1.017		2 33616- 7463
26157.42	3821.923	30	I	4.5	4.5				37958-11801
26186.05	3817.744	100	II	5.5	5.5				3 36057- 9870
26192.70	3816.762	3000	II	5.5	6.5	1.133	1.133		4 33677- 7485
26210.83	3814.134	30		5.5	5.5				39549-13338
26214.00	3813.672	1000	II	5.5	5.5	1.14	1.02		3 33677- 7463
26217.91	3813.105	1000	II	6.5	6.5	1.14	1.13		3 30973- 4755
26237.25	3810.293	300	II	4.5	5.5	1.05	0.99		1 33701- 7463
26246.02	3809.020	1000	II	3.5	3.5	1.088	0.472		3 37199-10953
26253.76	3807.897	300	II	5.5	4.5	1.230	0.829		2 35685- 9432
26262.04	3806.697	10	II	8.5	7.5				27090- 828
26275.13	3804.800	100	II	4.5	3.5				37229-10953

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	OCC-EVEN	
26332.57	3796.500	1C	II	6.5	6.5				33817-	7485
26332.57	3796.500	1C	II	3.5	4.5				35764-	9432
26336.26	3795.968	100	II	8.5	8.5				26336-	0
26353.31	3793.513	300	II	4.5	5.5			A	39691-	13338
26353.74	3793.450	3C	II	6.5	5.5				33817-	7463
26364.72	3791.871	3000	II	6.5	7.5			1	27193-	828
26388.62	3788.436	3000 R	II	7.5	7.5	1.30	1.20	3	27216-	828
26389.74	3788.276	300	II	4.5	5.5				36260-	9870
26393.63	3787.718	300	II	5.5	5.5				36264-	9870
26404.37	3786.176	10000 R	II	8.5	7.5	1.23	1.21	2	27232	020
26405.91	3785.956	100	I	7.5	7.5				30747-	4341
26408.11	3785.641	1C	II	6.5	5.5				36279-	9870
26409.71	3785.411	1000	II	4.5	4.5			3	35841-	9432
26411.61	3785.139	300	II	6.5	5.5			2	36282-	9870
26427.44	3782.871	1000	II	6.5	6.5			3	31183-	4755
26454.29	3779.032	300	II	3.5	4.5			1	38255-	11801
26469.07	3776.921	300	II	4.5	5.5			1	36340-	9870
26499.83	3772.537	30	II	4.5	5.5				39838-	13338
26513.22	3770.632	100	II	6.5	7.5				30854-	4341
26516.03	3770.233	100	II	6.5	5.5				36387-	9870
26516.58	3770.154	30	II	4.5	5.5				39854-	13338
26521.17	3769.501	100	II	3.5	4.5				38322-	11801
26550.32	3765.363	100	II	4.5	4.5				38351-	11801
26550.70	3765.298	30	I	7.5	6.5				31306-	4755
26564.17	3762.691	100	II	4.5	4.5				36001-	9432
26595.34	3758.988	300	II	4.5	5.5			1	36466-	9870
26606.78	3757.372	10000 R	II	7.5	7.5			3	27435-	828
26624.94	3754.809	1000	II	5.5	4.5			2	36057-	9432
26625.05	3754.795	100	II	6.5	6.5			3	34110-	7485
26632.46	3753.749	3000	II	6.5	7.5	1.14	1.23	2	30973-	4341
26634.19	3753.506	3000	II	7.5	8.5			4	26634-	0
26646.29	3751.802	1000	II	6.5	5.5	1.308	1.015	2	34110-	7463
26653.86	3750.736	1C	II	5.5	6.5				31409-	4755
26656.63	3750.346	100	II	4.5	4.5			3	38457-	11801
26674.62	3747.817	3000	II	6.5	7.5			2	27502-	828
26694.01	3745.094	300	II	5.5	4.5	1.131	0.761	2	38495-	11801
26695.72	3744.854	1C	II	8.5	8.5				26695-	0
26731.38	3739.858	300	II	5.5	6.5			4	34216-	7485
26770.61	3734.378	300	II	6.5	6.5			3	34255-	7485
26773.44	3733.983	300	II	5.5	6.5			1	31529-	4755
26791.82	3731.421	300	II	6.5	5.5	1.269	1.010	2	34255-	7463
26810.89	3728.767	300	II	3.5	3.5	1.054	*0.470	3	37764-	10953
26818.46	3727.715	30	II	5.5	4.5				40945-	14126
26828.66	3726.297	100	II	4.5	4.5			3	36260-	9432
26832.52	3725.761	1C	II	5.5	4.5				36264-	9432

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
26834.83	3725.441	100	II	3.5	4.5	1.094	0.777	1	38635-11801
26838.47	3724.936	30	II	8.5	7.5				27666- 828
26842.00	3724.446	3000 R	II	6.5	7.5	1.16	1.23	2	31183- 4341
26843.43	3724.246	100	II	5.5	6.5			2	31599- 4755
26867.33	3720.933	10	II	3.5	4.5				38668-11801
26880.94	3719.051	1 W		4.5	5.5				36751- 9870
26885.53	3718.416	10	II	3.5	3.5				37839-10953
26907.98	3715.313	1000	II	4.5	4.5			3	36340- 9432
26918.63	3713.843	300	II	5.5	4.5			2	36350- 9432
26926.69	3712.731	30	II	6.5	6.5				31682- 4755
26934.45	3711.662	1000	II	4.5	5.5	1.23	1.01	1	36805- 9870
26941.11	3710.744	300	II	4.5	3.5	0.78	0.46	2	37895-10953
26946.00	3710.071	1000	II	5.5	6.5	1.08	1.13	2	31701- 4755
26959.45	3708.220	1000	II	6.5	6.5			3	31715- 4755
26964.15	3707.573	1000	II	6.5	7.5			2	27792- 828
26965.38	3707.404	1000	II	7.5	7.5	1.21	1.22	3	31306- 4341
27001.85	3702.396	3	II	3.5	4.5				38802-11801
27004.45	3702.039	100	II	4.5	3.5				37958-10953
27013.68	3700.775	30	II	6.5	5.5				36884- 9870
27016.73	3700.357	10	II	6.5	5.5				36887- 9870
27034.26	3697.958	300	II	4.5	4.5			3	36466- 9432
27038.97	3697.314	1000	II	5.5	6.5			2	34524- 7485
27057.29	3694.810	10000 R	II	7.5	7.5			3	27885- 828
27060.18	3694.415	300	II	5.5	5.5			3	34524- 7463
27070.66	3692.986	30	I	7.5	6.5				31826- 4755
27090.37	3690.297	10	II	8.5	8.5				27090- 0
27099.67	3689.031	100	II	5.5	5.5			3	36970- 9870
27171.55	3679.273	100	II	4.5	4.5			3	38972-11801
27191.37	3676.590	3000	II	6.5	7.5	1.25	1.20	1	28019- 828
27195.57	3676.023	300	II	4.5	5.5			1	37066- 9870
27202.72	3675.057	1		4.5	5.5				40541-13338
27206.46	3674.551	30	II	5.5	6.5				34691- 7485
27216.91	3673.140	1000	II	7.5	8.5	1.29	1.29	4	27216- 0
27223.14	3672.300	3000	II	6.5	6.5			3	31978- 4755
27227.67	3671.689	300	II	5.5	5.5			3	34691- 7463
27248.34	3668.903	1000	II	4.5	5.5			1	34712- 7463
27267.45	3666.333	300	II	3.5	4.5			1	36699- 9432
27280.22	3664.615	300	II	3.5	4.5			A	39081-11801
27282.96	3664.248	30	II	6.5	7.5				28111- 828
27301.35	3661.780	300	II	3.5	3.5			3	38255-10953
27316.30	3659.776	30	II	5.5	5.5				37187- 9870
27319.85	3659.299	10	II	4.5	4.5				36751- 9432
27341.27	3656.433	300	II	6.5	7.5			2	31682- 4341
27358.09	3654.184	300	II	4.5	5.5			1	37229- 9870
27368.26	3652.827	100	II	3.5	3.5				38322-10953

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
27373.35	3652.147	30	II	4.5	4.5				36805-	9432
27374.00	3652.061	3	II	6.5	7.5				31715-	4341
27397.42	3648.940	300	II	4.5	3.5			2	38351-	10953
27399.33	3648.684	300	II	5.5	6.5				34884-	7485
27420.56	3645.860	1000	II	5.5	5.5			3	34884-	7463
27424.03	3645.398	10000 R	II	8.5	7.5			2	28252-	828
27435.13	3643.923	1000	II	7.5	8.5			1	27435-	0
27462.83	3640.248	3000	II	6.5	6.5			3	32218-	4755
27485.27	3637.275	1000	II	7.5	7.5	1.33	*1.224	3	31826-	4341
27492.99	3636.254	1000	II	5.5	5.5	1.250	0.990	3	37363-	9870
27500.45	3635.267	1000	II	4.5	4.5	1.153	0.754	3	39301-	11801
27503.70	3634.838	100	II	4.5	3.5				38457-	10953
27507.61	3634.322	300	II	3.5	4.5			1	39308-	11801
27538.56	3630.237	3000 R	II	8.5	7.5	1.17	1.22	1	31879-	4341
27604.49	3621.566	300	II	3.5	4.5			1	37036-	9432
27607.13	3621.220	100	II	5.5	5.5			3	40945-	13338
27612.05	3620.575	300	II	5.5	5.5			3	35075-	7463
27615.20	3620.161	1000	II	5.5	4.5	1.049	0.756	2	39416-	11801
27627.81	3618.509	1000	II	6.5	7.5			1	28456-	828
27629.17	3618.331	30	II	3.5	3.5				38583-	10953
27630.84	3618.114	100 B	II	5.5	6.5			1	32386-	4755
27634.50	3617.633	300	II	4.5	4.5			3	37066-	9432
27637.79	3617.203	300	II	6.5	7.5			1	31978-	4341
27644.18	3616.367	300	II	5.5	4.5	1.209	*0.825	2	37076-	9432
27646.38	3616.078	300	II	5.5	5.5			3	37517-	9870
27656.91	3614.702	300	II	4.5	5.5			1	37527-	9870
27666.75	3613.417	10	II	8.5	8.5				27666-	0
27681.90	3611.439	30	II	3.5	3.5				38635-	10953
27698.71	3609.247	1000	II	3.5	4.5	1.214	0.758	1	39499-	11801
27714.35	3607.210	30	II	3.5	3.5				38668-	10953
27722.74	3606.118	3000	II	7.5	6.5			4	35207-	7485
27738.29	3604.097	3	II	8.5	7.5				32079-	4341
27743.39	3603.434	3	II	5.5	5.5				37614-	9870
27748.10	3602.823	1000	II	5.5	4.5	0.953	0.760	2	39549-	11801
27755.21	3601.899	1	II	5.5	4.5				37187-	9432
27766.96	3600.376	1000	II	5.5	5.5			3	37637-	9870
27767.91	3600.253	300	II	3.5	4.5			1	37199-	9432
27769.23	3600.081	30	II	8.5	7.5				28597-	828
27783.31	3598.256	300	II	5.5	6.5			1	35268-	7485
27797.02	3596.481	300	II	4.5	4.5	1.00	0.75	3	37229-	9432
27800.30	3596.058	1000	II	6.5	5.5	1.320	0.992	2	37671-	9870
27804.51	3595.512	30	II	5.5	5.5				35268-	7463
27806.29	3595.283	1000	II	3.5	4.5			1	39607-	11801
27822.72	3593.160	300	II	7.5	6.5			2	32578-	4755
27830.87	3592.107	1000	II	4.5	5.5			2	35294-	7463

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
27839.36	3591.011	30	II	3.5	4.5				39640-11801
27848.89	3589.783	100	II	3.5	3.5			3	38802-10953
27859.43	3588.425	30	II	8.5	7.5				32200- 4341
27877.39	3586.112	1000	II	6.5	7.5			2	32218- 4341
27879.99	3585.778	1000	II	7.5	6.5			2	35365- 7485
27885.59	3585.058	3000	R II	7.5	8.5			2	27885- 0
27890.58	3584.417	1000	II	4.5	4.5	1.017	0.758	3	39691-11801
27924.71	3580.035	1000	II	5.5	5.5	1.208	0.997	3	37795- 9870
27931.91	3579.113	300	II	5.5	4.5			2	37363- 9432
27940.74	3577.982	1000	II	8.5	7.5			1	32281- 4341
27949.46	3576.866	3000	II	6.5	6.5			3	35434- 7485
27954.31	3576.244	3000	R II	7.5	6.5	1.20	1.13	2	32709- 4755
27956.19	3576.004	300	I	6.5	7.5				28784- 828
27970.67	3574.153	1000	II	6.5	5.5			2	35434- 7463
27990.83	3571.579	30	II	8.5	7.5				28819- 828
28018.63	3568.035	300	II	4.5	3.5	1.227	0.476	2	38972-10953
28037.08	3565.686	300		4.5	4.5	1.233	0.763	3	39838-11801
28053.86	3563.554	300	II	4.5	4.5			3	39854-11801
28057.06	3563.148	1000	R II	7.5	7.5			3	28885- 828
28078.64	3560.409	100	II	7.5	6.5			1	32834- 4755
28085.30	3559.564	100		5.5	4.5			A	37517- 9432
28087.43	3559.295	1000	II	4.5	5.5	1.158	0.993	1	37958- 9870
28095.82	3558.232	1000		4.5	4.5	1.172	0.828	3	37527- 9432
28127.31	3554.248	300	II	3.5	3.5			3	39081-10953
28148.16	3551.616	3000	R II	5.5	6.5	1.09	1.13	2	32903- 4755
28155.60	3550.677	30	II	8.5	7.5				32496- 4341
28159.24	3550.218	10000	R II	6.5	6.5	1.22	1.13	3	32914- 4755
28182.36	3547.306	3	II	5.5	4.5				37614- 9432
28186.12	3546.831	3000	II	8.5	7.5			2	29014- 828
28200.75	3544.992	1000	II	5.5	6.5			1	35685- 7485
28205.88	3544.347	1000	II	5.5	4.5	1.124	0.828	2	37637- 9432
28221.97	3542.327	3000	B II	5.5	5.5	1.228	1.021	3	35685- 7463
28235.04	3540.687	300	II	3.5	4.5	1.101	0.752	1	40036-11801
28237.28	3540.406	30	II	7.5	7.5				32578- 4341
28243.36	3539.643	300	II	5.5	6.5			1	35728- 7485
28245.56	3539.368	1000	II	5.5	6.5	1.370	1.133	1	33001- 4755
28250.39	3538.763	30	I	6.5	7.5				32591- 4341
28252.35	3538.517	10000	R II	8.5	8.5	1.23	1.29	3	28252- 0
28259.16	3537.665	1000	II	6.5	5.5	1.228	1.005	2	38130- 9870
28264.58	3536.986	30	II	5.5	5.5				35728- 7463
28272.31	3536.019	10000	R II	8.5	7.5			1	32613- 4341
28280.79	3534.959	10000	R II	7.5	7.5			3	29109- 828
28290.47	3533.749	300	II	4.5	4.5			3	40091-11801
28306.84	3531.706	10000	R II	9.5	8.5	1.26	1.29	2	28306- 0
28322.22	3529.787	3	II	3.5	4.5			1	37764- 9432

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA		TYPE	LEVELS
						G-C	G-E		OCC-EVEN
28347.52	3526.637	300	II	4.5	3.5				2 39301-10953
28354.68	3525.746	1000	II	3.5	3.5	1.021	0.474	3	39308-10953
28363.64	3524.633	300 B		5.5	4.5	1.210	*0.825	2	37795- 9432
28364.11	3524.574	30	II	6.5	7.5			4	32705- 4341
28368.88	3523.982	10000 R	II	7.5	7.5			3	32709- 4341
28375.11	3523.208	300	II	3.5	4.5			A	40176-11801
28377.91	3522.861	1000		4.5	5.5			1	35841- 7463
28380.83	3522.498	1	II	6.5	5.5				38251- 9810
28407.41	3519.202	3	II	3.5	4.5				37839- 9432
28422.83	3517.293	300	II	5.5	4.5	1.075	0.757	2	40223-11801
28423.08	3517.261	1000	II	2.5	3.5	0.701	0.466	1	39377-10953
28426.48	3516.841	3	I	6.5	5.5				38297- 9870
28450.71	3513.846	30	II	7.5	7.5				29275- 828
28480.36	3510.188	10	II	4.5	5.5				38351- 9870
28493.17	3508.610	3	II	7.5	7.5				32834- 4341
28507.76	3506.813	3000 R	II	8.5	7.5			2	29336- 828
28518.82	3505.453	1000	II	6.5	6.5			3	36003- 7485
28523.03	3504.936	300	II	5.5	6.5			A	33278- 4755
28526.34	3504.529	1000	II	4.5	4.5	1.173	0.835	3	37958- 9432
28537.38	3503.174	1000	I	4.5	5.5			P	36001- 7463
28540.04	3502.847	300	I	6.5	5.5			2	36003- 7463
28545.78	3502.143	300	II	3.5	3.5			3	39499-10953
28551.06	3501.495	100	I	5.5	6.5				33306- 4755
28563.55	3499.964	1000		6.5	6.5			3	33319- 4755
28571.56	3498.934	1000	II	5.5	6.5			1	36057- 7485
28573.81	3498.707	3000	II	6.5	7.5			2	32914- 4341
28586.66	3497.134	300	II	4.5	5.5			1	38457- 9870
28593.16	3496.339	1000	II	5.5	5.5			3	36057- 7463
28597.57	3495.800	1	II	8.5	8.5				28597- 0
28608.28	3494.491	10000 R	II	7.5	7.5			3	29426- 828
28624.10	3492.560	C	II	5.5	5.5				38495- 9870
28626.59	3492.257	3	II	5.5	4.5				40427-11801
28653.35	3488.994	300	II	3.5	3.5			3	39607-10953
28682.84	3485.408	30	II	6.5	6.5				33438- 4755
28686.43	3484.971	3	II	3.5	3.5				39640-10953
28711.08	3481.978	10	II	5.5	6.5				33466- 4755
28737.64	3478.761	300	II	4.5	3.5			2	39691-10953
28739.98	3478.477	300	II	4.5	4.5			3	40541-11801
28751.64	3477.067	3000	II	5.5	6.5			4	33507- 4755
28779.54	3473.696	1000	II	5.5	6.5			4	36264- 7485
28794.01	3471.951	300	II	6.5	6.5			3	36279- 7485
28796.87	3471.606	1000	II	4.5	5.5			2	36260- 7463
28797.52	3471.527	1000	II	6.5	6.5			3	36282- 7485
28800.75	3471.138	1000	II	5.5	5.5			3	36264- 7463
28815.19	3469.398	0	II	6.5	5.5				36279- 7463

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS		
						G-C	G-E	TYPE	OCC-EVEN		
28818.73	3468.971	100	II	6.5	5.5				36282-	7463	
28819.17	3468.920	3	II	8.5	8.5				28819-	0	
28823.23	3468.430	1000	II	3.5	4.5			1	38255-	9432	
28846.89	3465.586		B	6.5	6.5				33602-	4755	
28861.15	3463.873	1000	II	6.5	6.5			3	33616-	4755	
28865.58	3463.341	100		5.5	6.5				36350-	7485	
28876.21	3462.067	100	II	4.5	5.5				36340-	7463	
28885.37	3460.968	10000	R	7.5	8.5			2	28885-	0	
28886.83	3460.793	30	I	5.5	5.5				36350-	7463	
28887.90	3460.666	30		6.5	5.5				38758-	9870	
28890.12	3460.399	1000	II	3.5	4.5			A	38322-	9432	
28901.94	3458.985	300	II	6.5	6.5			3	36387-	7485	
28919.28	3456.911	10	II	4.5	4.5				38351-	9432	
28922.22	3456.559	3000	II	5.5	6.5			4	33677-	4755	
28923.13	3456.450	300	II	6.5	5.5				36387-	7463	
28940.98	3454.318	10000	R	II	6.5	7.5		1	29769-	828	
28978.11	3449.892	1000	II	6.5	7.5			2	33319-	4341	
29002.48	3446.993	3000	II	4.5	5.5			1	36466-	7463	
29014.43	3445.574	10000	R	II	8.5	8.5	1.25	1.29	3	29014-	0
29025.58	3444.250	300	II	4.5	4.5	1.203	0.830	3	38457-	9432	
29049.22	3441.447	3000	R	II	6.5	7.5	1.406	1.201	1	29877-	828
29061.58	3439.936	100	II	6.5	6.5			3	33817-	4755	
29062.95	3439.821	10	II	5.5	4.5				38495-	9432	
29082.09	3437.557	300	II	3.5	3.5			3	40036-	10953	
29101.58	3435.255	100	II	4.5	5.5			A	38972-	9870	
29109.10	3434.367	3000	R	II	7.5	8.5			2	29109-	0
29137.56	3431.012	300	II	4.5	3.5			2	40091-	10953	
29144.41	3430.207	30	II	5.5	4.5				40945-	11801	
29151.03	3429.427	300	II	3.5	4.5	1.157	0.811	1	38583-	9432	
29203.79	3423.231	300	II	3.5	4.5				38635-	9432	
29222.15	3421.080	30	II	3.5	3.5				40176-	10953	
29232.90	3419.823	30	II	8.5	7.5				30061-	828	
29236.25	3419.431	30	II	3.5	4.5				38668-	9432	
29255.94	3417.129	300	II	2.5	3.5	0.832	0.470	1	40209-	10953	
29261.47	3416.484	30	II	6.5	7.5				33602-	4341	
29268.69	3415.641	100	II	8.5	7.5			A	30097-	828	
29275.71	3414.821	3000	II	6.5	7.5			1	33616-	4341	
29279.07	3414.430	10	II	7.5	8.5				29279-	0	
29284.60	3413.785	3000	R	II	7.5	7.5	1.20	1.19	3	30112-	828
29304.03	3411.521	300	II	5.5	5.5			3	39175-	9870	
29310.96	3410.714	300	II	2.5	3.5	1.151	0.469	1	40264-	10953	
29336.07	3407.795	10000	R	II	8.5	8.5	1.26	1.29	3	29336-	0
29341.55	3407.159	1000	II	4.5	5.5	1.225	1.020	1	36805-	7463	
29354.52	3405.653	1000	II	6.5	6.5	1.310	1.130	3	34110-	4755	
29370.79	3403.767	1	II	3.5	4.5				38802-	9432	

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
29399.59	3400.432	100	II	6.5	6.5				36884- 7485
29402.66	3400.077	1	II	6.5	6.5				36887- 7485
29420.82	3397.979	300	II	6.5	5.5			2	36884- 7463
29423.86	3397.627	10	II	6.5	5.5				36887- 7463
29430.48	3396.863	100		4.5	5.5				39301- 9870
29431.43	3396.753	30	II	3.5	4.5				41232-11801
29436.60	3396.157	10000 R	II	7.5	8.5			2	29436- 0
29459.05	3393.568	10000 R	II	6.5	7.5	1.23	1.21	1	30287- 828
29460.84	3393.363	1000		5.5	6.5			4	34210- 4755
29476.58	3391.550	3	II	6.5	7.5				33817- 4341
29485.60	3390.513	100	II	5.5	6.5				36970- 7485
29500.06	3388.850	3000	II	6.5	6.5	1.276	1.133	3	34255- 4755
29506.81	3388.076	300	II	5.5	5.5			3	36970- 7463
29533.49	3385.015	10000 R	II	6.5	7.5			4	30361- 828
29540.52	3384.209	30	II	4.5	4.5			A	38972- 9432
29545.22	3383.670	30	II	5.5	5.5				39416- 9870
29555.03	3382.548	1	II	3.5	4.5				41356-11801
29566.56	3381.228	0	II	3.5	4.5				41367-11801
29570.79	3380.744	30	II	7.5	7.5				30399- 828
29587.12	3378.879	300	II	4.5	3.5			A	40541-10953
29591.17	3378.416	300	II	5.5	6.5			1	37076- 7485
29602.69	3377.101	300	II	4.5	5.5			1	37066- 7463
29612.36	3375.998	300	II	5.5	5.5			3	37076- 7463
29649.18	3371.007	300	II	3.5	4.5			1	39081- 9432
29678.07	3368.524	30	II	5.5	5.5				39549- 9870
29681.75	3368.106	3000 R	II	9.5	8.5	1.21	1.29	1	29681- 0
29702.18	3365.790	30	II	5.5	6.5				37187- 7485
29702.87	3365.711	30	II	7.5	6.5				37188- 7485
29723.44	3363.382	300		5.5	5.5			3	37187- 7463
29768.42	3358.300	300		5.5	6.5			A	34524- 4755
29769.09	3358.224	300		6.5	7.5			1	34110- 4341
29869.38	3346.947	3	II	4.5	4.5				39301- 9432
29876.55	3346.144	100	II	3.5	4.5				39308- 9432
29900.09	3343.510	30	II	5.5	5.5				37363- 7463
29914.63	3341.885	1000	II	6.5	7.5			1	34255- 4341
29918.71	3341.429	300	II	7.5	7.5			3	30747- 828
29935.92	3339.509	300	II	5.5	6.5			4	34691- 4755
29967.14	3336.029	10	II	4.5	5.5				39838- 9870
29983.91	3334.163	30	II	4.5	5.5				39854- 9870
29984.15	3334.137	300	II	5.5	4.5			A	39416- 9432
30007.86	3331.502	30	II	3.5	4.5				41808-11801
30026.05	3329.484	1	II	6.5	7.5				30854- 828
30032.25	3328.796	100	II	5.5	6.5			2	37517- 7485
30055.76	3326.192	1000	II	8.5	7.5			2	34396- 4341
30061.20	3325.590	10	II	8.5	8.5				30061- 0

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
30064.04	3325.277	30	II	4.5	5.5				37527-	7463
30067.69	3324.872	C	II	3.5	4.5				39499-	9432
30097.03	3321.631	1	II	8.5	8.5				30097-	0
30112.92	3319.878	10000 R	II	7.5	8.5			2	30112-	0
30117.05	3319.424	100	II	5.5	4.5				39549-	9432
30128.80	3318.129	300	I	5.5	6.5			1	34884-	4755
30129.33	3318.070	C	II	5.5	6.5				37614-	7485
30145.27	3316.315	1000	II	6.5	7.5			2	30973-	828
30150.49	3315.742	10	II	5.5	5.5				37614-	7463
30152.87	3315.480	30	II	5.5	6.5				37637-	7485
30174.07	3313.151	100	II	5.5	5.5			3	37637-	7463
30175.23	3313.023	30	II	3.5	4.5				39607-	9432
30177.99	3312.719	3000	II	8.5	7.5			4	34519-	4341
30186.18	3311.821	1		6.5	6.5				37671-	7485
30208.33	3309.392	1	II	3.5	4.5				39640-	9432
30220.52	3308.057	30	II	4.5	5.5				40091-	9870
30259.51	3303.795	3	II	4.5	4.5				39691-	9432
30278.50	3301.723	10	II	3.5	3.5				41232-	10953
30286.69	3300.830	1	II	3.5	4.5				42087-	11801
30310.58	3298.228	30	I	5.5	6.5				37795-	7485
30320.26	3297.175	30		5.5	6.5				35075-	4755
30326.55	3296.492	C	II	8.5	7.5				34667-	4341
30331.85	3295.916	1		5.5	5.5				37795-	7463
30352.83	3293.637	10	II	5.5	5.5				40223-	9870
30354.78	3293.426	100	II	6.5	7.5			2	31183-	828
30399.10	3288.624	1000	II	7.5	8.5			2	30399-	0
30402.10	3288.299	3	II	3.5	3.5				41356-	10953
30413.60	3287.056	3	II	3.5	3.5				41367-	10953
30422.81	3286.060	30	II	4.5	4.5				39854-	9432
30431.18	3285.157	3	II	4.5	5.5				37895-	7463
30452.16	3282.894	300	II	7.5	6.5			4	35207-	4755
30478.17	3280.092	10000	II	7.5	7.5			3	31306-	828
30494.55	3278.330	100	II	4.5	5.5				37958-	7463
30512.76	3276.374	1	II	5.5	6.5				35268-	4755
30603.97	3266.609	10	II	3.5	4.5				40036-	9432
30609.44	3266.024	100	II	7.5	6.5			2	35365-	4755
30645.12	3262.222	10	II	6.5	6.5				38130-	7485
30659.41	3260.701	1000	II	4.5	4.5			3	40091-	9432
30744.00	3251.730	3	II	3.5	4.5				40176-	9432
30747.04	3251.407	100	II	7.5	8.5			1	30747-	0
30766.69	3249.331	10	II	6.5	6.5				38251-	7485
30791.76	3246.685	100	II	5.5	4.5			2	40223-	9432
30812.31	3244.520	10	II	6.5	6.5				38297-	7485
30833.48	3242.292	10	II	6.5	5.5				38297-	7463
30854.03	3240.133	1	II	6.5	7.5				31682-	828

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
30854.94	3240.037	100	II	3.5	3.5				3 41808-10953
30866.73	3238.800	100	II	7.5	7.5				3 35207- 4341
30886.82	3236.693	1000	II	6.5	7.5				1 31715- 828
30887.41	3236.631	100	II	4.5	5.5				1 38351- 7463
30894.45	3235.894	3000 R	II	9.5	8.5	1.32	1.29	2	30894- 0
30925.49	3232.645	1000	II	8.5	7.5			2	35266- 4341
30930.19	3232.154	10	II	5.5	6.5				35685- 4755
30972.76	3227.712	100	II	5.5	6.5			2	35728- 4755
30993.80	3225.521	3	II	4.5	5.5				38457- 7463
30995.52	3225.342	3	II	5.5	4.5				40427- 9432
30998.04	3225.079	1000	II	7.5	7.5			3	31826- 828
31009.96	3223.840	30	II	5.5	6.5				38495- 7485
31031.16	3221.637	300	II	5.5	5.5			3	38495- 7463
31051.35	3219.542	300	II	8.5	7.5			1	31879- 828
31074.43	3217.151	30	II	5.5	5.5			3	40945- 9870
31108.89	3213.587	10	II	4.5	4.5				40541- 9432
31133.76	3211.020	3	II	3.5	3.5				42087-10953
31150.59	3209.284	100	II	6.5	7.5			1	31978- 828
31154.84	3208.847	300	II	8.5	7.5			4	35495- 4341
31248.30	3199.250	30	II	6.5	6.5				36003- 4755
31251.05	3198.968	1	II	8.5	7.5				32079- 828
31273.79	3196.642	1		6.5	6.5				38758- 7485
31295.02	3194.473	1		6.5	5.5				38758- 7463
31306.48	3193.304	1000	II	7.5	8.5			2	31306- 0
31318.93	3192.035	100	II	7.5	6.5				38804- 7485
31372.18	3186.616	10	II	0.5	7.5				32200- 828
31390.19	3184.787	1000	II	6.5	7.5			2	32218- 828
31453.53	3178.374	1000	II	8.5	7.5			4	32281- 828
31508.72	3172.806	3	II	4.5	5.5				38972- 7463
31508.97	3172.781	10	I	5.5	6.5				36264- 4755
31513.34	3172.342	10	II	5.5	4.5				40945- 9432
31526.96	3170.971	300	II	6.5	6.5			3	36282- 4755
31536.67	3169.994	3000 R	II	9.5	8.5	1.26	1.29	1	31536- C
31595.08	3164.134	300	II	5.5	6.5			1	36350- 4755
31631.37	3160.503	300	II	6.5	6.5			3	36387- 4755
31668.33	3156.815	0	II	8.5	7.5				32496- 828
31689.97	3154.659	10	II	5.5	6.5				39175- 7485
31711.18	3152.549	3	II	5.5	5.5				39175- 7463
31750.07	3148.688	1	II	7.5	7.5				32578- 828
31763.19	3147.387	10	II	6.5	7.5				32591- 828
31785.09	3145.218	300	II	8.5	7.5			4	32613- 828
31800.35	3143.709	0	II	3.5	4.5				41232- 9432
31826.36	3141.140	3000	II	7.5	8.5				31826- 0
31837.54	3140.036	10	II	4.5	5.5				39301- 7463
31876.86	3136.163	10	I	6.5	7.5				32705- 828

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA		TYPE	LEVELS	
				J-C	J-E		G-C	G-E
31881.68	3135.689	100	II	7.5	7.5	4	32709-	828
31923.98	3131.534	10	II	3.5	4.5		41356-	9432
31931.16	3130.830	3	II	5.5	6.5		39416-	7485
31935.46	3130.408	1	II	3.5	4.5		41367-	9432
31938.06	3130.154	100	II	6.5	7.5	4	36279-	4341
31941.54	3129.813	1	II	6.5	7.5		36282-	4341
31952.31	3128.757	30	II	5.5	5.5	2	39416-	7463
32006.02	3123.507	1	II	7.5	7.5		32834-	828
32045.97	3119.613	10	II	6.5	7.5		36387-	4341
32079.39	3116.363	1	II	8.5	8.5		32079-	0
32085.26	3115.792	30	II	5.5	5.5		39549-	7463
32086.62	3115.660	10	II	6.5	7.5		32914-	828
32129.06	3111.544	30	II	6.5	6.5	3	36884-	4755
32200.52	3104.639	1	II	8.5	8.5		32200-	0
32215.04	3103.240	1000	II	5.5	6.5	1	36970-	4755
32281.86	3096.816	30		8.5	8.5	3	32281-	0
32320.63	3093.101	300	II	5.5	6.5	1	37076-	4755
32376.81	3087.734	0		3.5	4.5		41808-	9432
32391.04	3086.378	10	II	4.5	5.5		39854-	7463
32431.68	3082.510	300	II	5.5	6.5	1	37187-	4755
32432.32	3082.448	3		7.5	6.5		37188-	4755
32490.93	3076.888	100	II	6.5	7.5	4	33319-	828
32496.68	3076.344	3	II	8.5	8.5		32496-	0
32543.60	3071.908	1000	II	6.5	7.5	1	36884-	4341
32546.68	3071.618	1	II	6.5	7.5		36887-	4341
32561.85	3070.187	3	II	8.5	7.5		36902-	4341
32578.39	3068.628	1	II	7.5	8.5		32578-	0
32608.36	3065.807	3	II	5.5	6.5		37363-	4755
32610.21	3065.633	10	II	6.5	7.5		33438-	828
32613.39	3065.334	1	II	8.5	8.5		32613-	0
32627.61	3063.998	1		4.5	5.5		40041-	7463
32655.67	3061.365	100	II	3.5	4.5	1	42087-	9432
32759.97	3051.618	1		5.5	5.5		40223-	7463
32761.73	3051.454	300	II	5.5	6.5	1	37517-	4755
32774.31	3050.283	0	II	6.5	7.5		33602-	828
32788.53	3048.960	30		6.5	7.5	1	33616-	828
32846.92	3043.540	100	II	7.5	7.5	3	37188-	4341
32858.75	3042.444	0		5.5	6.5		37614-	4755
32882.33	3040.262	100	II	5.5	6.5	4	37637-	4755
32915.67	3037.182	3	II	6.5	6.5		37671-	4755
32942.47	3034.712	1	II	5.5	6.5		40427-	7485
32963.70	3032.757	1	II	5.5	5.5		40427-	7463
32989.37	3030.397	30	II	6.5	7.5	4	33817-	828
33040.08	3025.746	100	II	5.5	6.5	1	37795-	4755
33281.95	3003.756	300	II	6.5	7.5	4	34110-	828

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	OCC	EVEN
33330.24	2999.404	3	II	6.5	7.5				37671-	4341
33374.49	2995.427	10	II	6.5	6.5				38130-	4755
33427.42	2990.684	1		6.5	7.5				34255-	828
33460.35	2987.740	1	II	5.5	6.5				40945-	7485
33481.55	2985.848	30	II	5.5	5.5				40945-	7463
33496.15	2984.547	30	II	6.5	6.5				38251-	4755
33541.78	2980.485	1	II	6.5	6.5				38297-	4755
33568.56	2978.109	30	II	8.5	7.5				34396-	828
33601.09	2975.225	30	II	8.5	7.5				37942-	4341
33690.82	2967.301	30	II	8.5	7.5				34519-	828
33839.36	2954.275	1	II	8.5	7.5				34667-	828
33910.70	2948.060	3	II	6.5	7.5				38251-	4341
33956.34	2944.097	30	II	6.5	7.5				38297-	4341
34003.23	2940.038	30	II	6.5	6.5				38758-	4755
34040.34	2936.142	3	II	7.5	6.5				38804-	4755
34379.57	2907.852	10	II	7.5	7.5				35207-	828
34396.88	2906.389	1000	II	8.5	8.5			4	34396-	0
34417.81	2904.622	1	II	6.5	7.5				38758-	4341
34438.30	2902.893	10	II	8.5	7.5				35266-	828
34462.92	2900.819	300	II	7.5	7.5			3	38804-	4341
34519.08	2896.100	3	II	8.5	8.5				34519-	0
34536.80	2894.614	10	II	7.5	7.5				35365-	828
34606.28	2888.801	1	I	6.5	7.5				35434-	828
34660.52	2884.281	30	II	5.5	6.5				39416-	4755
34667.62	2883.690	3	II	8.5	8.5				34667-	0
34667.62	2883.690	3	II	8.5	7.5				35495-	828
34793.48	2873.259	3	II	5.5	6.5				39549-	4755
35154.86	2843.720	1	II	7.5	6.5				39910-	4755
35175.65	2842.040	30	II	6.5	7.5				36003-	828
35266.63	2834.708	1	II	8.5	8.5				35266-	0
35335.71	2829.166	1	II	8.5	7.5				39676-	4341
35365.10	2826.814	10	II	7.5	8.5				35365-	0
35367.19	2826.648	1	II	8.5	7.5				39708-	4341
35454.33	2819.700	10	II	6.5	7.5				36282-	828
35468.22	2818.596	3	II	5.5	6.5				40223-	4755
35495.94	2816.394	300	II	8.5	8.5				35495-	0
35558.75	2811.419	100	II	6.5	7.5				36387-	828
35569.43	2810.575	3	II	7.5	7.5				39910-	4341
36056.41	2772.613	100	II	6.5	7.5				36884-	828
36074.62	2771.214	10	II	8.5	7.5				36902-	828
36359.70	2749.485	10	II	7.5	7.5				37188-	828
36902.97	2709.006	3	II	8.5	8.5				36902-	0
37113.86	2693.611	3	II	8.5	7.5				37942-	828
37188.04	2688.238	3	II	7.5	8.5				37188-	0
37301.88	2680.034	3	II	6.5	7.5				38130-	828

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	GCC-EVEN	
37469.14	2668.070	3	II	6.5	7.5				38297-	828
37930.59	2635.609	0	II	6.5	7.5				38758-	828
37942.21	2634.802	10	II	8.5	8.5				37942-	0
37975.73	2632.476	1	II	7.5	7.5				38804-	828
38848.48	2573.334	1	II	8.5	7.5				39676-	828
38879.97	2571.248	3	II	8.5	7.5				39708-	828
39082.20	2557.942	3	II	7.5	7.5				39910-	828
39676.79	2519.607	0 Q	II	8.5	8.5				39676-	0
39708.25	2517.610	3	II	8.5	8.5				39708-	0
39910.55	2504.848	C	II	7.5	8.5				39910-	0

R REVERSED

B BLEND(SEE TEXT)

W WIDE

Q QUESTIONABLE

* ASSUMED VALUE

A J NOT EQUAL TO J,CANNOT DETERMINE G1 RELATIVE TO G2

P PERTURBED

TABLE VIII
(pp. 106-613)

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS OCC-EVEN
				J-C	J-E	G-C G-E TYPE	
8771.55	11397.376	1					
8782.73	11382.863	1		8.C	8.0		12007-20789
8794.48	11367.651	C					
8797.73	11363.454	1		8.C	8.0		23877-32675
8818.19	11337.093	1C					
8828.72	11323.566	1					
8843.45	11304.711	1		8.C	8.0		23832-32675
8844.27	11303.666	C					
8845.98	11301.481	1					
8873.08	11266.954	1					
8875.55	11263.817	1					
8908.83	11221.742	1C		8.C	8.0		14625-23534
8912.23	11217.460	1					
8918.94	11209.026	1					
0933.83	11190.340	1CC					
8938.88	11184.020	3C		7.C	8.0		23736-32675
8940.82	11181.600	100C					
8944.93	11176.458	1					
8965.60	11150.687	3		8.C	7.0		14625-23591
8981.2C	11131.328	3					
8981.91	11130.443	1					
8985.90	11125.495	1					
8989.67	11120.830	3					
8991.18	11118.966	1					
8992.84	11116.916	1					
8994.92	11114.340	1C					
9001.61	11106.081	3					
9004.52	11102.489	3C					
9005.33	11101.498	1C		7.0	7.0		21616-30621
9007.80	11098.455	1					
9021.34	11081.795	1					
9023.03	11079.723	3					
9028.15	11073.438	1					
9029.69	11071.546	1					
9031.04	11069.892	1					
9036.40	11063.321	30					
9040.40	11058.353	1					
9044.64	11053.247	1					
9052.42	11043.747	1					
9066.15	11027.020	1		8.C	9.0		19092-28158
9067.07	11025.905	30					
9071.31	11020.751	1		7.C	8.0		38362-29291
9075.56	11015.592	1					
9092.16	10995.472	1					
9094.82	10992.261	1					

TABLE

CY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-F	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
9097.51	10989.014	30							
9102.97	10982.424	0		7.0	7.0				18857-27959
9107.14	10977.388	1							
9108.88	10975.291	1							
9109.46	10974.596	1							
9111.53	10972.104	10							
9118.88	10963.260	0		8.0	7.0				28177-37295
9119.49	10962.527	0		7.0	8.0				27837-36954
9126.51	10954.093	1							
9130.88	10948.852	1		7.0	6.0				18857-27987
9132.96	10946.356	1							
9152.25	10923.289	1							
9153.15	10922.207	10							
9154.59	10920.489	1		8.0	9.0				14625-23780
9160.54	10913.401	1		7.0	7.0				17687-26848
9166.68	10906.090	3		7.0	8.0				14367-23534
9173.03	10898.538	3							
9173.74	10897.696	30							
9175.34	10895.796	30							
9180.46	10889.719	1							
9183.90	10885.634	1							
9185.44	10883.817	1							
9190.16	10878.228	1							
9198.78	10868.026	1							
9199.08	10867.682	1							
9200.13	10866.438	30							
9209.12	10855.828	3							
9211.23	10853.336	10							
9211.98	10852.452	1							
9214.04	10850.027	3							
9215.38	10848.458	30							
9216.04	10847.679	3							
9223.45	10838.967	10		7.0	7.0				14367-23591
9226.00	10835.962	10000							
9226.48	10835.395	1							
9235.39	10824.953	300							
9244.64	10814.115	1							
9245.23	10813.423	1							
9248.50	10809.607	1							
9249.83	10808.048	1							
9258.23	10798.239	100							
9259.13	10797.194	1							
9263.95	10791.573	1							
9264.70	10790.697	30							
9266.38	10788.746	3		8.0	7.0				19092-28358

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
9267.96	10786.905	1		9.0	9.0				14512-23780
9269.57	10785.032	1							
9270.36	10784.111	1							
9275.26	10778.420	1							
9281.64	10771.010	1							
9283.17	10769.233	3							
9284.35	10767.867	1							
9285.68	10766.323	3							
9287.53	10764.178	3		8.0	7.0				37646-28358
9290.47	10760.764	1							
9291.71	10759.330	1							
9293.49	10757.279	1							
9294.02	10756.662	10000							
9298.94	10750.973	3							
9301.73	10747.744	1		6.0	6.0				18172-27474
9303.36	10745.858	1							
9304.20	10744.891	1							
9309.23	10739.086	1							
9310.45	10737.674	3							
9312.91	10734.840	1							
9316.01	10731.265	30							
9322.96	10723.275	100							
9331.29	10713.694	1							
9331.50	10713.451	1							
9343.66	10699.514	1							
9344.37	10698.697	1							
9344.99	10697.987	1							
9345.88	10696.968	3							
9346.36	10696.425	1							
9346.71	10696.025	10							
9349.62	10692.698	1		6.0	5.0				18561- 9211
9358.92	10682.067	10							
9363.94	10676.337	10		8.5	7.5				24316-14952
9364.62	10675.561	1							
9368.24	10671.444	3		7.0	8.0				18528-27896
9381.05	10656.864	30							
9400.74	10634.543	100							
9403.84	10631.047	1							
9408.62	10625.637	1							
9409.84	10624.269	1							
9412.03	10621.788	10							
9412.35	10621.426	1							
9413.61	10620.009	1							
9421.12	10611.545	1							
9424.13	10608.154	30							

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA		LEVELS ODD-EVEN
				J-C	J-E	
9426.73	10605.228	1		6.0	6.0	18561-27987
9431.44	10599.928	10		7.0	7.0	18528-27959
9431.57	10599.790	10		7.0	7.0	14367-23799
9436.42	10594.331	1				
9437.12	10593.548	1				
9438.40	10592.109	1				
9438.86	10591.597	1				
9443.91	10585.934	30				
9452.61	10576.187	1				
9470.19	10556.560	30				
9478.95	10546.805	1				
9487.29	10537.590	10				
9491.56	10532.785	1				
9498.12	10525.514	10				
9500.04	10523.389	10000		7.5	6.5	25192-15691
9507.28	10515.380	3				
9521.80	10499.337	1				
9526.26	10494.426	1		7.0	7.0	18433-27959
9530.38	10489.888	100				
9533.10	10486.896	3				
9535.53	10484.221	3000				
9536.81	10482.815	1				
9538.93	10480.487	10				
9544.83	10474.004	1		8.0	8.0	35894-26349
9551.51	10466.683	100		7.5	6.5	17036- 7485
9580.77	10434.712	3				
9590.40	10424.235	1				
9595.93	10418.232	3				
9604.56	10408.869	1				
9605.08	10408.308	1				
9613.36	10399.335	10				
9620.34	10391.794	1				
9627.39	10384.191	10				
9634.17	10376.882	1				
9634.46	10376.568	1				
9643.18	10367.180	10				
9650.67	10359.140	30				
9651.38	10358.373	3				
9664.07	10344.771	3				
9665.90	10342.819	1				
9668.80	10339.711	1				
9669.79	10338.649	10				
9670.42	10337.983	1				
9672.35	10335.911	3		7.0	6.0	15194-24867
9682.38	10325.208	1				

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
9684.19	10323.278	1							
9698.52	10308.026	300							
9700.69	10305.720	1000							
9701.03	10305.361	1000							
9701.87	10304.465	1							
9704.22	10301.973	100		7.0	6.0				15194-24899
9704.60	10301.567	3							
9722.57	10282.533	1		9.0	9.0				13495-23218
9724.33	10280.663	1							
9728.89	10275.850	3							
9733.48	10271.006	10							
9737.32	10266.954	1							
9746.34	10257.447	3							
9747.99	10255.717	1							
9750.53	10253.040	1							
9761.32	10241.708	10							
9763.90	10239.005	10							
9773.97	10228.456	1							
9776.51	10225.793	3		8.0	9.0				19688-29465
9784.53	10217.417	30							
9797.90	10203.471	0		7.0	6.0				18528-28326
9800.03	10201.256	1							
9803.30	10197.854	10							
9804.61	10196.486	3000							
9818.60	10181.960	1							
9823.60	10176.776	1							
9830.14	10170.012	3		7.0	7.0				18528-28358
9832.05	10168.036	1							
9833.76	10166.269	1							
9835.71	10164.248	10							
9836.38	10163.559	10							
9837.01	10162.902	10							
9838.68	10161.178	1							
9843.80	10155.892	300							
9845.56	10154.076	30							
9850.37	10149.121	1							
9869.44	10129.508	1							
9871.86	10127.029	3							
9886.00	10112.542	1							
9888.48	10110.003	1							
9892.99	10105.396	3		8.0	7.0				27319-37212
9896.46	10101.050	10							
9897.50	10100.796	1							
9907.15	10090.950	1							
9908.73	10089.343	10							

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
9909.33	10088.737	1							
9911.28	10086.748	1							
9916.77	10081.164	1							
9928.37	10069.385	3		8.0	7.0				23877-33806
9943.06	10054.506	C							
9944.51	10053.047	1							
9946.74	10050.787	C							
9948.94	10048.563	1							
9956.10	10041.341	1							
9961.64	10035.752	0							
9968.13	10029.221	1							
9979.17	10018.123	C							
9988.44	10008.831	0							
9990.55	10006.720	1							
9992.01	10005.252	10							
9995.15	10002.112	1							
9996.87	10000.392	1		8.0	7.0				23877-33475
10006.43	9990.837	1							
10011.03	9986.244	1		7.0	8.0				18528-28539
10016.52	9980.767	1		7.0	8.0				23736-33753
10017.35	9979.940	30							
10020.76	9976.552	C							
10038.55	9958.866	300		9.0	8.0				13495-23534
10046.52	9950.972	0							
10047.69	9949.808	C	II						
10049.29	9948.220	C							
10052.34	9945.202	C							
10062.45	9935.209	3							
10072.69	9925.113	10		7.0	7.0				23479-33552
10080.75	9917.181	C							
10089.39	9908.687	C							
10102.12	9896.194	1							
10104.95	9893.430	C							
10122.14	9876.627	C							
10130.93	9868.056	C							
10136.37	9862.764	C	I						
10141.35	9857.915	1							
10146.95	9852.473	C							
10148.53	9850.940	1							
10148.85	9850.632	1		7.0	8.0				23257-33406
10151.60	9847.964	C							
10153.58	9846.045	C		6.0	6.0				18172-28326
10156.33	9843.376	3							
10163.84	9836.103	0							
10177.22	9823.174	1							

TABLE

CY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
10183.65	9816.968	C							
10187.51	9813.255	I							
10187.79	9812.976	I							
10188.76	9812.044	C		8.C	7.0				19688-29877
10194.12	9806.889	0	I						
10198.99	9802.204	C		8.C	8.0				19092-29291
10200.35	9800.899	C		8.C	8.0				37646-27445
10202.65	9796.684	1C	I						
10208.46	9793.109	C							
10214.13	9787.678	C							
10214.70	9787.132	0							
10218.43	9783.559	0		7.0	7.0				23257-33475
10225.16	9777.113	C	II						
10230.39	9772.119	0							
10233.50	9769.069	0		7.0	7.0				14367- 4134
10236.39	9766.394	C							
10239.88	9763.062	100	II	7.5	7.5				25192-14952
10252.09	9751.430	I							
10259.67	9744.232	C	II						
10261.89	9742.122	C							
10273.99	9730.649	I	I						
10283.65	9721.513	I	I						
10284.33	9720.867	C							
10287.84	9717.553	I	II						
10291.80	9713.807	I	I						
10296.05	9709.798	3	II	7.0	7.0				29949-40245
10298.54	9707.452	0							
10300.45	9705.657	C	II						
10302.51	9703.709	C	II						
10302.89	9703.354	1C	I						
10307.95	9698.589	I	I						
10311.53	9695.220	C	II						
10313.61	9693.264	I	II						
10313.96	9692.941	I	I						
10325.82	9681.803	10000	I	10.C	9.0				12892-23218
10330.97	9676.983	0							
10332.40	9675.563	I	II						
10342.11	9666.556	10000	I	6.C	7.0				23464-33806
10343.02	9665.710	I							
10345.54	9663.351	30							
10346.12	9662.807	100	II						
10368.04	9642.383	I	II						
10370.85	9639.763	C							
10372.42	9638.310	I	II						
10375.26	9635.675	C	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS	
				J-C	J-E	G-C	G-E	TYPE
10376.33	9634.673	100	I					
10377.15	9633.920	0		9.0	8.0			15972-26349
10377.90	9633.220	10	I	8.0	8.0			24999-35377
10378.48	9632.680	30	I					
10384.04	9627.526	10	I					
10384.21	9627.362	1	I	9.0	9.0			13495-23780
10391.28	9620.814	1000	II	8.5	7.5			25343-14952
10398.48	9614.149	0		8.0	8.0			20341-30739
10408.46	9604.935	0	II					
10412.28	9601.410	3						
10412.43	9601.269	0	II					
10414.25	9599.599	0						
10414.67	9599.208	0		8.0	9.0			28029-38444
10415.29	9598.631	3	I					
10417.34	9596.744	0	II					
10418.59	9595.593	30	I					
10419.43	9594.823	0						
10419.96	9594.335	10	I	8.0	7.0			19092-29512
10420.76	9593.601	0	II					
10420.98	9593.398	0	II					
10422.05	9592.413	1	I					
10432.77	9582.556	1	I					
10434.72	9580.765	0	II					
10435.46	9580.085	0						
10439.59	9576.296	10	I					
10440.11	9575.818	1000	I					
10452.32	9564.635	3	I					
10458.93	9558.585	1	II					
10460.88	9556.800	0	II					
10461.52	9556.220	0						
10463.54	9554.373	3000	II					
10471.76	9546.876	3	I					
10474.76	9544.142	1	I					
10474.92	9543.995	3	II					
10475.18	9543.754	1	II					
10477.59	9541.564	30	I					
10477.77	9541.399	3	I					
10491.43	9528.979	100	I	7.0	8.0			15858-26349
10491.43	9528.979	100	I	8.0	7.0			14625-4134
10493.44	9527.152	3	I	8.0	8.0			18411-28971
10494.16	9526.499	0	II	7.0	8.0			20485-30979
10497.51	9523.458	3000	II					
10499.37	9521.769	30	I	7.0	6.0			14367-24867
10499.93	9521.262	1	I					
10500.84	9520.434	0	II	8.5	7.5			25453-14952

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS	
				J-C	J-E	G-C	G-E	TYPE
10502.87	9518.598	1	I	8.0	9.0			33721-23218
10504.96	9516.702	0						
10507.83	9514.107	0						
10509.26	9512.807	10	I					
10513.61	9508.871	0						
10514.38	9508.177	0	II					
10514.63	9507.947	1	II					
10514.88	9507.722	0	II					
10518.03	9504.880	3	II					
10520.37	9502.761	1	I					
10522.19	9501.116	0	II					
10523.82	9499.647	0	II					
10524.76	9498.797	1	I					
10525.53	9498.106	3000	I	6.0	7.0			10088-20614
10528.91	9495.054	30	I					
10531.26	9492.935	3	I	7.0	6.0			14367-24899
10532.14	9492.140	0						
10538.17	9486.713	0						
10541.29	9483.901	1						
10544.95	9480.611	1						
10546.83	9478.926	0						
10552.68	9473.664	3	I					
10553.39	9473.027	0						
10556.31	9470.409	1	II					
10557.40	9469.429	1	I					
10558.08	9468.821	1						
10558.64	9468.318	0	II					
10559.74	9467.336	1000	I					
10572.90	9455.554	1	I					
10573.12	9455.352	3	I					
10573.35	9455.146	3	II					
10580.48	9448.775	0						
10590.24	9440.063	1	I					
10593.66	9437.016	10	II					
10598.72	9432.514	3	I					
10602.38	9429.256	30	I	5.0	5.0			19813- 9211
10604.50	9427.375	3	I					
10605.90	9426.131	0	II					
10607.04	9425.114	0	II					
10610.49	9422.050	0	II					
10619.13	9414.386	0	II					
10619.61	9413.960	3	I					
10631.37	9403.541	3	I					
10637.32	9398.289	1	I	7.0	6.0			17687- 7050
10637.71	9397.944	1	I					

TABLE

CY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
10643.88	9392.496	1C	I						
10644.05	9392.346	C	II						
10644.10	9392.295	C	II						
10645.22	9391.310	I	I	7.0	8.0				21783-32428
10650.42	9386.728	30C	II						
10654.38	9383.239	I	I						
10655.59	9382.172	1C	II						
10662.82	9375.806	30C	II						
10665.53	9373.427	1C	I						
10665.65	9373.326	10C	II						
10671.26	9368.394	3	I						
10675.35	9364.808	I	I						
10676.20	9364.064	1C	I						
10676.45	9363.841	I	I						
10678.82	9361.764	I	I						
10679.46	9361.202	I	II						
10681.45	9359.456	C							
10686.02	9355.458	I	II						
10686.06	9355.422	C	II						
10691.47	9350.688	C							
10694.61	9347.942	I	I						
10697.24	9345.642	I	I						
10698.66	9344.400	C							
10699.39	9343.763	10C	I						
10705.53	9338.409	3	I						
10707.86	9336.374	0							
10708.77	9335.582	I	II						
10712.68	9332.171	0		8.0	8.0				16733-27445
10713.68	9331.298	I	I						
10716.29	9329.028	3	I						
10717.30	9328.146	C	II						
10725.84	9320.725	C	II						
10726.16	9320.441	3C	I						
10728.11	9318.745	10C	I						
10733.83	9313.787	I	I						
10735.40	9312.418	3	II						
10736.24	9311.693	I	II						
10745.57	9303.609	I	I						
10748.93	9300.695	3C	II						
10753.62	9296.641	1C	I						
10754.47	9295.910	1C	I						
10754.79	9295.628	C	II						
10762.78	9288.735	1C	I	7.0	8.0				18528-29291
10762.90	9288.624	1C	I	8.0	9.0				24999-35762
10771.43	9281.268	1C	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA		LEVELS CCC-EVEN
				J-C	J-E	
				G-C	G-E	TYPE
10773.67	9279.343	3	I			
10779.46	9274.359	3	II			
10782.10	9272.089	1	I	8.C	8.0	15567-26349
10783.14	9271.197	1	II			
10785.12	9269.488	3	I	6.C	7.0	31399-20614
10786.83	9268.023	3	II			
10790.84	9264.575	1	I			
10798.61	9257.908	10	II			
10798.90	9257.662	10000	I	9.C	8.0	9990-20789
10803.57	9253.662	1	I			
10806.49	9251.157	1000	II			
10812.03	9246.420	1	I	7.C	8.0	21616-32428
10812.47	9246.046	10	I	9.C	8.0	17727-28539
10818.62	9240.791	30	I			
10820.14	9239.490	30	I			
10822.74	9237.272	1	I			
10831.34	9229.938	3	I			
10835.29	9226.572	1	II			
10836.09	9225.889	1	I			
10836.48	9225.558	1000	I			
10836.94	9225.162	1	I	9.C	8.0	21838-32675
10862.07	9203.022	1	I			
10866.26	9200.275	1000	II	8.5	7.5	25818-14952
10868.90	9198.038	10	I			
10874.14	9193.604	30	II			
10875.54	9192.425	10	I			
10876.94	9191.236	10	I			
10879.37	9189.190	300	I	7.C	8.0	12655-23534
10879.59	9188.999	1	II			
10880.22	9188.471	0	II			
10881.23	9187.610	3	II	7.5	7.5	25833-14952
10882.00	9186.969	3	I			
10883.28	9185.882	3	I	8.C	7.0	26868-37751
10883.28	9185.882	3	I	6.C	6.0	16591-27474
10887.51	9182.318	10000	I	10.C	9.0	12892-23780
10889.38	9180.740	30	II			
10892.11	9178.439	3	I	7.C	8.0	21783-32675
10893.29	9177.447	30	I			
10900.25	9171.585	10000	II			
10902.80	9169.441	300	II			
10911.59	9162.056	0	I	8.C	8.0	19688-30600
10922.82	9152.634	100	I			
10929.98	9146.638	3	I			
10932.61	9144.441	1	I			
10933.26	9143.890	1	I	8.C	7.0	19688-30621

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
10935.13	9142.332	3	I						
10936.14	9141.482	30C	I	7.0	7.0				12655-23591
10941.72	9136.821	1	I						
10942.19	9136.428	0	II	7.5	6.5				26634-15691
10946.72	9132.651	10	I						
10949.16	9130.616	10C	I						
10949.57	9130.272	1	I	8.C	8.0				18021-28971
10951.56	9128.615	1	I	8.C	9.0				23877-34829
10951.56	9128.615	1	I	7.C	8.0				18339-29291
10954.41	9126.238	1	I						
10957.55	9123.625	1	I						
10968.24	9114.729	1	II						
10972.54	9111.159	30C	II						
10982.63	9102.792	1	I						
10985.43	9100.471	30C	I						
10985.84	9100.132	3	II	7.C	7.0				25133-36119
10986.41	9099.658	1	I						
10987.C7	9099.110	3	I	8.C	9.0				18477-29465
10987.50	9098.754	0	II						
10990.04	9096.652	1	I						
10992.41	9094.689	1	I						
10995.40	9092.221	3	I						
11000.28	9088.187	30	I	8.C	8.0				18291-29291
11011.C3	9079.313	3	II	8.C	7.0				23822-34843
11021.46	9070.716	1	II						
11021.96	9070.310	1	I						
11022.89	9069.544	3	I						
11023.61	9068.948	0	II						
11024.34	9068.352	10C	I						
11026.93	9066.215	3	I						
11027.32	9065.896	0	II						
11028.74	9064.731	30C	I						
11030.31	9063.441	1							
11034.47	9060.023	1							
11035.C1	9059.578	1							
11035.38	9059.276	1	I						
11040.62	9054.977	3	II						
11044.82	9051.532	1	I						
11059.69	9039.363	1	I						
11060.65	9038.580	100C	I	7.C	7.0			3	15194- 4134
11064.43	9035.489	1	I						
11066.72	9033.621	3	I						
11070.67	9030.402	1	I						
11070.98	9030.149	1	I						
11072.02	9029.295	1	I	7.C	8.0				19907-30979

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS OCC-EVEN
				J-C	J-E	G-C G-E TYPE	
11074.46	9027.306	1	II				
11076.59	9025.572	1	II				
11078.93	9023.666	1	I				
11079.18	9023.462	1	I				
11079.88	9022.891	1	II				
11080.47	9022.414	1	II				
11080.66	9022.253	1	II				
11081.58	9021.506	C					
11082.46	9020.709	100	II				
11087.10	9017.014	0					
11088.05	9016.242	1					
11088.27	9016.064	C					
11088.51	9015.871	0					
11088.76	9015.663	1	I				
11089.48	9015.084	0					
11089.69	9014.912	0					
11090.68	9014.103	3	II				
11091.53	9013.416	0					
11094.49	9011.007	1	I				
11101.13	9005.619	1					
11105.41	9002.148	C					
11113.34	8995.723	0					
11113.49	8995.602	0					
11113.64	8995.483	0					
11115.29	8994.150	1					
11115.59	8993.909	0					
11121.77	8988.906	C					
11122.27	8988.507	30	I	6.C	6.0		18172- 7050
11122.72	8988.138	0					
11125.60	8985.809	0					
11125.78	8985.667	1					
11129.03	8983.047	0					
11129.28	8982.845	1					
11133.73	8979.254	3	I				
11142.42	8972.248	3	II				
11144.27	8970.763	30	I	7.C	7.0		12655-23799
11147.22	8968.381	C					
11152.70	8963.978	1					
11153.65	8963.216	0					
11154.63	8962.425	3	I	7.C	8.C		15194-26349
11155.51	8961.721	0					
11156.58	8960.862	0	I	7.C	6.0		18528-29682
11173.81	8947.043	3	I	4.0	4.0		22099-10925
11179.04	8942.854	3	II	6.C	7.0		34770-23591
11182.77	8939.877	1	I				

TABLE

DY LINE LIST

PAGE 119

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	GCC-EVEN
11185.33	8937.828	0	I						
11185.45	8937.733	C							
11188.10	8935.613	C							
11189.00	8934.894	1							
11192.10	8932.424	1							
11192.46	8932.132	C							
11199.02	8926.899	C	I						
11200.81	8925.472	C							
11201.64	8924.814	3							
11202.89	8923.817	3		9.C	8.0				16693-27896
11206.73	8920.757	0							
11208.67	8919.219	1							
11209.19	8918.805	C	I						
11211.48	8916.980	1		8.C	9.0				12007-23218
11211.63	8916.861	0							
11214.23	8914.796	1							
11216.89	8912.683	1							
11217.03	8912.567	1							
11218.35	8911.521	C							
11218.53	8911.379	1	I						
11222.65	8908.104	3	I						
11225.62	8905.748	10C	II						
11227.14	8904.542	C							
11228.62	8903.372	0							
11230.26	8902.073	1	I						
11231.30	8901.246	C	I						
11236.39	8897.212	3C	I						
11244.27	8890.976	1	I	9.0	8.0				17727-28971
11249.14	8887.133	1	I						
11249.47	8886.865	C							
11253.49	8883.697	1	I	8.C	7.0				14625-25879
11263.10	8876.110	C							
11263.41	8875.868	3	I	9.0	8.0				23985-35249
11263.76	8875.596	1		6.5	5.5				21134- 9870
11265.20	8874.461	C							
11266.28	8873.610	1							
11267.33	8872.704	1	I						
11269.47	8871.099	0		8.C	8.0				18021-29291
11273.34	8868.050	3	I						
11275.06	8866.698	10	II						
11279.26	8863.400	C							
11282.18	8861.101	C							
11287.49	8856.933	0							
11287.84	8856.655	C							
11289.18	8855.609	10	I	7.C	6.0				18339- 7050

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA		LEVELS GCC-EVEN
				J-C	J-E	
11294.03	8851.804	1C	I			
11295.86	8850.374	30C	II			
11305.74	8842.633	1	I	7.0	7.0	15439- 4134
11310.80	8838.682	1	I			
11313.13	8836.863	C	I	7.0	8.0	18528-29841
11313.97	8836.202	3C	I			
11316.16	8834.494	C		6.0	7.0	18561-29877
11316.48	8834.242	C				
11316.88	8833.935	3	I			
11317.68	8833.304	C				
11317.97	8833.083	1C	II			
11318.32	8832.811	3	II			
11319.62	8831.794	C				
11323.47	8828.790	1	I			
11323.93	8828.430	C				
11324.73	8827.807	1	I			
11326.35	8826.543	1				
11331.88	8822.240	1	I			
11337.60	8817.786	10C	I			
11341.54	8814.724	C				
11341.84	8814.492	1	I			
11342.20	8814.212	C		8.0	9.0	23077-35219
11343.12	8813.492	30	I	6.0	5.0	20554- 9211
11343.69	8813.051	0				
11344.66	8812.302	0				
11344.83	8812.165	0	I			
11346.15	8811.140	1C	I			
11347.79	8809.869	0	I			
11349.04	8808.898	1				
11349.89	8808.238	1	I			
11350.72	8807.592	1	I			
11353.54	8805.409	10C	I			
11355.70	8803.734	1	I			
11356.92	8802.786	1	I			
11357.19	8802.576	1	I			
11357.51	8802.327	C				
11359.34	8800.910	C				
11359.55	8800.747	3	I			
11359.77	8800.577	1				
11362.61	8798.378	1	I			
11365.79	8795.913	10	I			
11367.37	8794.696	0	I	8.0	9.0	19092-30459
11367.54	8794.560	C				
11368.62	8793.729	3	I	6.0	7.0	16591-27959
11369.62	8792.950	1	I	5.0	4.0	22294-10925

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	CCC-EVEN	
11370.58	8792.210	0	I							
11370.67	8792.140	C	I							
11371.64	8791.389	300	II						3	
11372.17	8790.978	30	I							
11376.16	8787.896	0								
11376.83	8787.379	C	II							
11377.07	8787.198	0	II							
11377.52	8786.848	C	I							
11378.91	8785.793	1	I							
11379.81	8785.081	0	I							
11380.62	8784.452	1	I							
11381.72	8783.604	1								
11381.83	8783.524	3	I							
11383.16	8782.496	10	I	7.0	6.0					18433- 7050
11385.32	8780.831	1000	I						2	
11386.91	8779.605	0	I							
11387.37	8779.249	0	I	7.0	8.0					34921-23534
11389.10	8777.917	C								
11389.23	8777.815	C								
11389.79	8777.385	10	I							
11390.09	8777.149	3	I							
11390.34	8776.960	C								
11390.98	8776.463	1	II							
11393.90	8774.220	C								
11394.38	8773.844	C	I							
11394.90	8773.444	1	I							
11395.75	8772.790	C	I							
11397.04	8771.796	C	I							
11397.73	8771.266	10	I							
11399.78	8769.688	10	I							
11402.40	8767.679	0								
11404.53	8766.041	3	II							
11405.25	8765.484	3	I							
11405.75	8765.097	10	I							
11406.52	8764.509	C	I							
11406.85	8764.253	C	II							
11407.04	8764.105	C	I							
11407.74	8763.571	3	I							
11408.34	8763.109	0	II							
11409.63	8762.121	10	I							
11410.34	8761.578	1	II							
11412.22	8760.132	C	I							
11413.64	8759.043	10	II							
11416.81	8756.606	C	II							
11417.11	8756.377	10	I	8.0	8.0					23832-35249

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
11418.64	8755.207	1	I	9.0	9.0				15972-27390
11419.23	8754.750	0	I						
11420.85	8753.513	1C	II						
11424.91	8750.400	30C	II					3	
11427.62	8748.325	C	II						
11428.09	8747.963	1	I						
11433.15	8744.098	30	I	8.0	7.0				15567- 4134
11433.52	8743.813	1	I						
11433.83	8743.579	0							
11435.05	8742.639	1							
11438.25	8740.197	C	I						
11439.22	8739.450	C	I	6.0	7.0				19182-30621
11441.49	8737.717	C							
11443.18	8736.430	1	I	8.0	9.0				18021-29465
11443.61	8736.100	3	I	7.0	7.0				18433-29877
11445.44	8734.705	0	I						
11447.46	8733.163	1	I						
11449.15	8731.878	1	I						
11450.04	8731.196	0							
11451.43	8730.139	1	I						
11453.11	8728.853	C	II						
11453.53	8728.539	30C	I						
11454.02	8728.160	1	I						
11454.40	8727.871	1	I						
11455.09	8727.344	0	I						
11455.38	8727.124	1	I						
11457.90	8725.209	0	II						
11458.72	8724.579	3	I						
11459.07	8724.313	C	II						
11459.35	8724.103	C	I						
11462.78	8721.493	0	I						
11463.18	8721.184	0							
11463.34	8721.062	1C	I						
11463.68	8720.807	1C	I						
11465.00	8719.803	1							
11466.47	8718.688	1	I						
11467.35	8718.019	0	I						
11468.25	8717.332	0	I	8.0	9.0				19092-30560
11468.57	8717.089	1	I						
11469.07	8716.707	1	I						
11470.07	8715.949	10C	II						
11470.86	8715.351	C							
11471.03	8715.221	0	I						
11471.85	8714.596	C							
11472.02	8714.465	30	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS OCC-EVEN
						G-C	G-E	TYPE	
11473.58	8713.280	C	I	9.C	8.0				15972-27445
11474.58	8712.524	C	I						
11477.55	8710.268	0	I						
11477.95	8709.963	3	I	7.C	6.0				18528- 7050
11478.16	8709.801	1	I						
11478.87	8709.264	0	I						
11479.28	8708.959	C	I						
11481.12	8707.558	C	II						
11485.14	8704.511	0	I						
11485.92	8703.921	0	I						
11486.46	8703.515	C	I						
11488.37	8702.068	1	I						
11489.08	8701.525	3	I						
11489.49	8701.218	C	I						
11490.14	8700.729	0	I						
11490.37	8700.546	3	I	8.0	7.0				18021-29512
11491.70	8699.545	10	II						
11493.58	8698.124	10	II						
11495.29	8696.829	300	II					3	
11495.71	8696.507	1	I						
11496.67	8695.780	C	I						
11497.00	8695.533	1	I						
11497.12	8695.442	1	I	6.C	7.0				32111-20614
11497.42	8695.217	3	I						
11497.85	8694.890	C	I						
11500.49	8692.893	30	II						
11502.23	8691.582	10	II						
11503.31	8690.761	3	I						
11504.29	8690.022	3	I						
11507.84	8607.343	3	I	8.0	8.0				19092-30600
11508.03	8687.195	C	I						
11509.05	8686.425	3	I						
11510.60	8685.256	1000	I	6.C	6.0	1.27	*1.073	3	18561- 7050
11511.34	8684.703	10	I	7.C	7.0				14367-25879
11512.96	8683.479	C	II						
11513.59	8683.003	C	II						
11514.70	8682.169	C	I						
11515.42	8681.621	1	I						
11515.58	8681.507	0	I						
11516.62	8680.719	1	I						
11516.82	8680.568	3	I						
11519.58	8678.491	300	II					1	
11520.77	8677.594	1	II						
11521.80	8676.818	C	I						
11522.58	8676.228	C	I						

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS OCC-EVEN
						G-C	G-E	TYPE	
11522.95	8675.953	C	I						
11523.60	8675.459	C	I						
11524.86	8674.515	10	II						
11524.92	8674.463	3	II	7.5	6.5				27216-15691
11525.10	8674.330	1							
11525.52	8674.020	C		8.0	8.0				27851-39376
11526.05	8673.615	10	I						
11527.38	8672.617	1000	I	8.0	8.0	1.28	1.31	3	12007-23534
11529.28	8671.185	C	I						
11530.21	8670.485	1	II						
11530.54	8670.235	1	II						
11534.35	8667.375	100	II					A	
11534.83	8667.015	1	I						
11535.16	8666.765	C							
11535.49	8666.522	3	I						
11535.79	8666.292	10	I						
11535.99	8666.140	0	II						
11536.55	8665.723	0	I						
11537.32	8665.145	3	II						
11537.60	8664.937	C	I	7.0	7.0				18339-29877
11539.73	8663.332	C	I	6.0	7.0				23464-35003
11539.73	8663.332	C	I	7.0	8.0				27556-39096
11540.59	8662.688	1	I						
11541.14	8662.274	C	I						
11541.66	8661.884	1	I						
11541.94	8661.676	1	I						
11543.06	8660.832	C	I						
11543.31	8660.644	3	I						
11543.79	8660.287	1	I						
11545.59	8658.939	1	I						
11546.77	8658.049	C	I						
11547.11	8657.796	C							
11547.27	8657.678	300	II					1	
11549.59	8655.935	1000	II			0.036	1.242	A	
11550.15	8655.519	30	I						
11551.02	8654.868	100	I						
11551.55	8654.470	C	I						
11552.07	8654.081	3	I						
11557.78	8649.807	C	I						
11557.92	8649.698	C	I						
11558.88	8648.983	C	I						
11559.07	8648.841	C							
11560.59	8647.698	1	I						
11561.19	8647.252	0	I						
11562.09	8646.580	C							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
11562.37	8646.370	C							
11562.70	8646.122	3	I						
11563.17	8645.771	3	I						
11563.59	8645.459	C							
11563.96	8645.180	1	I						
11564.19	8645.008	1	I	9.0	8.0				17727-29291
11564.42	8644.841	C							
11566.24	8643.481	10	I						
11566.45	8643.321	1	I						
11566.54	8643.250	0	I						
11567.62	8642.444	C							
11568.86	8641.522	1	I						
11568.93	8641.467	C	I						
11569.33	8641.167	C	II						
11569.99	8640.673	1	I						
11570.83	8640.051	C	I	7.0	8.0				21675-33246
11571.26	8639.731	0							
11571.96	8639.208	C	I						
11574.63	8637.215	10	II						
11576.55	8635.778	100	II					A	
11577.01	8635.435	C	I						
11577.17	8635.320	C	I						
11579.49	8633.584	3	I						
11580.59	8632.766	3	II						
11580.99	8632.466	1							
11581.00	8632.465	1	I						
11581.04	8632.429	10	II						
11581.24	8632.285	1							
11581.67	8631.960	0							
11584.15	8630.118	1000	I	8.0	7.0	1.27	1.26	2	12007-23591
11585.94	8628.778	1	I						
11586.05	8628.697	0							
11587.24	8627.809	C	I						
11587.88	8627.334	0	II	7.0	8.0				15858-27445
11590.41	8625.454	1							
11590.59	8625.315	100	I						
11590.84	8625.134	3	I						
11593.18	8623.390	C	I						
11594.30	8622.556	10	II						
11594.86	8622.146	30	I						
11596.04	8621.264	1	II						
11596.50	8620.921	C	I						
11597.01	8620.547	1	II						
11597.13	8620.455	C	I						
11598.64	8619.336	3	I	7.0	7.0				20766-32382

TABLE

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
11598.95	8619.104	10	I	5.0	4.0				22524-10925
11599.73	8618.521	300	I	9.0	8.0				13495-25095
11600.65	8617.840	0	I						
11601.65	8617.094	0							
11603.41	8615.787	0	I	7.0	8.0				17687-29291
11604.38	8615.071	0	I						
11605.16	8614.494	0							
11606.02	8613.850	3	I	6.0	5.0				20817- 9211
11606.02	8613.050	3	I	7.0	8.0				20822-32428
11608.70	8611.860	3	I						
11610.14	8610.794	300	I	4.0	4.0				22535-10925
11611.64	8609.684	3	I						
11611.97	8609.435	10	I						
11614.62	8607.476	10	I						
11616.96	8605.741	0							
11617.40	8605.413	1	II						
11617.69	8605.201	0	II						
11618.92	8604.289	0	II	7.0	6.0				18857-30475
11619.39	8603.942	0	II						
11620.73	8602.948	0	I						
11621.36	8602.484	0	I						
11621.72	8602.214	3	I						
11622.05	8601.973	0							
11622.27	8601.806	0							
11623.91	8600.598	0							
11624.43	8600.210	10	I						
11624.77	8599.956	0	II						
11625.24	8599.611	1	II						
11626.29	8598.831	0							
11627.07	8598.259	0							
11628.31	8597.338	1	I						
11629.13	8596.736	0							
11629.49	8596.465	0	I	7.0	8.0				21616-33246
11630.93	8595.403	1	I						
11631.90	8594.685	0	II						
11632.62	8594.156	0	I						
11633.72	8593.339	0							
11633.91	8593.202	30	II						
11634.13	8593.042	3	I						
11634.59	8592.698	0	I						
11635.87	8591.755	0	II						
11637.24	8590.739	1	I						
11637.45	8590.590	0	I						
11637.70	8590.402	0							
11638.12	8590.091	1	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	OCC	EVEN
11640.52	8588.319	0	I							
11641.08	8587.908	C	I							
11641.52	8587.583	1	I							
11642.58	8586.803	30	II							
11643.54	8586.095	C	I							
11643.96	8585.782	0	I							
11646.86	8583.649	3	I							
11648.23	8582.638	300	I							
11649.00	8582.071	C								
11651.34	8580.350	C								
11652.29	8579.646	0	I							
11653.24	8578.946	C	I							
11653.62	8578.664	300	I	7.0	7.0	1.26	1.28	3	15194-26848	
11655.46	8577.318	1	I							
11655.54	8577.252	C	I							
11655.72	8577.123	10	I							
11657.05	8576.142	0	I							
11657.82	8575.577	300	II					3		
11660.42	8573.666	1	I							
11661.31	8573.013	3	I							
11662.39	8572.216	C	I	7.0	8.0				20766-32428	
11664.03	8571.012	C	I							
11664.84	8570.417	1	I							
11665.31	8570.068	C	I							
11666.30	8569.346	3	I							
11668.17	8567.968	100	II							
11668.84	8567.482	3	I							
11669.67	8566.868	10	I							
11670.44	8566.302	1	II							
11670.65	8566.153	C								
11671.59	8565.462	C								
11672.03	8565.134	C								
11674.36	8563.431	100	I	4.0	4.0			3	22599-10925	
11675.16	8562.841	1	I							
11675.27	8562.759	1	I							
11675.75	8562.409	1	I							
11678.06	8560.715	C	I							
11679.02	8560.008	1	I							
11680.04	8559.262	300	I	4.0	4.0	DC =	0.440	3		
11681.13	8558.465	C								
11681.27	8558.359	C	I							
11682.06	8557.786	300	II	7.5	-7.5	1.28	1.29	3	26634-14952	
11682.86	8557.193	1	I							
11683.15	8556.987	1	I	7.0	8.0				24708-36392	
11683.98	8556.375	3	I							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
11685.13	8555.537	C							
11685.47	8555.282	0	I						
11686.75	8554.345	C	I						
11687.15	8554.052	100	I						
11688.73	8552.898	C							
11689.12	8552.611	1	I						
11689.63	8552.243	10	I						
11690.78	8551.396	C	II						
11690.86	8551.344	1	II						
11691.85	8550.615	C	I	7.C	8.0				22061-33753
11692.09	8550.438	3	I						
11692.86	8549.877	0	I	8.C	9.0				18021-29714
11693.98	8549.060	1							
11694.16	8548.931	100	II			0.12	1.16	1	
11694.53	8548.655	0	I						
11695.09	8548.249	1	I						
11696.54	8547.189	1	I						
11699.76	8544.836	1	I						
11700.07	8544.610	0	II						
11701.43	8543.615	1	II						
11702.04	8543.175	C	I						
11702.94	8542.512	C	I						
11703.98	8541.758	3	I						
11704.55	8541.343	C	I						
11704.89	8541.094	C	II						
11705.07	8540.958	C							
11705.24	8540.832	3	II						
11705.44	8540.692	C							
11706.38	8540.004	3	I						
11707.18	8539.421	C	I						
11709.95	8537.398	30	I	5.C	5.0				3 20921- 9211
11710.91	8536.697	C	I						
11711.18	8536.506	C							
11711.59	8536.203	10	II						
11711.82	8536.035	10	I						
11712.56	8535.497	C	II						
11712.90	8535.252	C	I						
11713.27	8534.984	10	I						
11713.78	8534.610	C	I						
11714.12	8534.358	C	I						
11716.24	8532.819	1	II						
11717.77	8531.706	C	I						
11718.33	8531.293	1	I						
11722.41	8528.326	100	II						
11723.83	8527.295	30	I	7.C	7.0				15858- 4134

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS OCC-EVEN
						G-C	G-E	TYPE	
11723.83	8527.295	30	I	8.0	8.0				14625-26349
11724.34	8526.922	0	I						
11725.44	8526.121	0	I						
11725.61	8525.999	0							
11725.98	8525.732	100	II			0.325		3	
11726.99	8524.995	1	II						
11727.16	8524.869	10	I						
11728.41	8523.961	300	I			CC =	0.184	A	
11729.21	8523.385	30	I						
11729.38	8523.259	0							
11729.57	8523.123	1	I						
11730.78	8522.244	1	I	7.0	8.0				21675-33406
11731.33	8521.843	0	I						
11732.34	8521.105	0	I						
11732.96	8520.659	1	I						
11734.43	8519.590	3	I						
11734.73	8519.372	0							
11734.84	8519.296	0							
11735.08	8519.116	10	I	6.0	6.0				16591-28326
11735.74	8518.638	0	II						
11736.14	8518.350	0	II	8.0	9.0				24204-35940
11736.30	8518.234	1	I						
11737.06	8517.683	100	II						
11737.47	8517.383	0	I						
11737.91	8517.066	1	I	9.0	9.0				17727-29465
11738.91	8516.339	0	I						
11739.89	8515.625	0	I						
11742.48	8513.748	0	II						
11743.14	8513.273	100	II	7.5	6.5				27435-15691
11743.14	8513.273	100	II	7.0	8.0				18857-30600
11743.55	8512.975	0	I	8.5	7.5				26695-14952
11744.07	8512.596	3	II						
11745.99	8511.204	3	I						
11746.56	8510.792	300	II			0.672		3	
11748.33	8509.509	1	I						
11749.06	8508.980	0	I						
11750.67	8507.817	1	II						
11751.21	8507.427	1	I						
11752.34	8506.607	0	II						
11753.13	8506.037	0	I	6.0	7.0				42375-30621
11755.82	8504.091	3	I						
11757.39	8502.957	0	II						
11759.01	8501.778	1	I						
11759.14	8501.687	0							
11760.92	8500.400	1	I	8.0	8.0				20753-32554

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
11762.26	8499.433	3	I						
11763.76	8498.352	1	I						
11764.01	8498.164	0	I						
11764.33	8497.935	1	I						
11764.78	8497.612	0		7.0	7.0				18857-30621
11765.08	8497.395	0	I						
11765.40	8497.167	0	I						
11766.09	8496.664	1	II						
11766.72	8496.213	0	I						
11767.32	8495.779	1	I	6.0	7.0				16591-28358
11769.60	8494.128	0	I						
11770.25	8493.660	0	I						
11771.71	8492.610	0	I						
11772.04	8492.371	10	II						
11773.23	8491.510	0	I	8.0	9.0				12007-23780
11775.12	8490.149	1000	I	6.0	6.0			3	21699-33474
11776.93	8488.844	0	II						
11778.25	8487.891	1	II						
11779.75	8486.814	0	I						
11781.06	8485.867	0	I						
11782.09	8485.127	0	II						
11782.59	8484.769	1	I						
11783.46	8484.138	0	I						
11784.19	8483.617	1	I						
11787.41	8481.296	0	I						
11788.29	8480.662	30	II					A	
11788.57	8480.460	0	I	7.0	8.0				20766-32554
11789.36	8479.893	0	I						
11789.74	8479.621	1	I						
11792.29	8477.784	300	I	8.0	7.0			A	12007-23799
11794.70	8476.053	0	II						
11796.67	8474.643	0	II						
11796.79	8474.552	1	II						
11797.17	8474.278	0							
11797.66	8473.928	0							
11798.16	8473.566	1	II						
11799.46	8472.633	3	II						
11799.54	8472.580	10	II						
11801.28	8471.332	0							
11802.28	8470.612	0	I						
11803.05	8470.062	0	I						
11804.65	8468.915	0	I						
11805.16	8468.541	3	I						
11805.46	8468.333	0	I						
11805.64	8468.200	0	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
11806.44	8467.626	3	I	7.0	6.0			18857- 7050	
11808.54	8466.119	10	I						
11810.08	8465.020	10	I	8.0	9.0			25012-36822	
11810.99	8464.362	10	II	6.5	6.5			27502-15691	
11811.19	8464.219	30	I						
11812.82	8463.057	0	I						
11813.20	8462.780	0							
11813.98	8462.225	1	II						
11814.57	8461.801	0							
11814.75	8461.670	100	I				3		
11817.50	8459.704	3	I						
11818.05	8459.311	1	II						
11818.45	8459.024	3	I						
11820.11	8457.837	0	I						
11820.60	8457.481	0	I	7.0	8.0			27556-39376	
11821.67	8456.718	0							
11822.16	8456.365	0	II						
11822.37	8456.220	0	I						
11822.95	8455.800	3	I						
11823.37	8455.503	10	II						
11823.60	8455.336	3	I	8.0	9.0			15567-27390	
11823.81	8455.185	0							
11824.15	8454.946	0							
11824.35	8454.801	3	I	7.0	7.0			17687-29512	
11825.48	8453.996	0	I						
11826.17	8453.502	1	II						
11826.82	8453.038	1	I						
11827.56	8452.508	1	I	6.0	7.0			20554-32382	
11827.67	8452.430	1	I						
11827.98	8452.205	1	II						
11828.38	8451.920	1	I						
11828.99	8451.484	0	I						
11830.16	8450.647	0							
11830.44	8450.451	0	II						
11830.96	8450.080	0	I						
11832.33	8449.102	1	I						
11832.66	8448.860	300	I				A		
11832.82	8448.749	3							
11833.90	8447.981	0							
11834.32	8447.676	0	II						
11836.24	8446.306	3	I						
11837.14	8445.668	1	I						
11837.86	8445.150	0	II						
11838.83	8444.461	100	II				1		
11839.06	8444.298	0							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS OCC-EVEN
						G-C	G-E	TYPE	
11840.08	8443.572	30	I						
11842.58	8441.789	3	I						
11843.06	8441.444	30	II						
11844.50	8440.417	30	I						
11845.74	8439.531	3	I						
11845.91	8439.416	0							
11846.38	8439.079	10	I						
11847.07	8438.583	1000	II			0.248	0.972	1	
11848.68	8437.438	1	I						
11848.93	8437.262	1	I						
11850.89	8435.865	0	I						
11851.20	8435.645	3	II						
11851.44	8435.476	3	II						
11852.17	8434.957	10	II						
11852.99	8434.368	30	I						
11853.92	8433.711	0	II	8.0	8.0				21899-33753
11854.91	8433.007	0							
11855.17	8432.818	1	II						
11855.38	8432.674	10	I						
11858.51	8430.444	0	I						
11860.04	8429.355	0	II						
11860.49	8429.037	1	II						
11860.99	8428.686	0							
11862.21	8427.820	0	I						
11863.73	8426.737	0	I						
11864.06	8426.503	1	II						
11864.39	8426.268	1	I						
11864.74	8426.020	1	II						
11865.04	8425.803	10	I	7.0	8.0				15194-27059
11865.38	8425.564	0	I						
11865.85	8425.234	0	I						
11866.42	8424.825	1	I						
11866.80	8424.557	10	II						
11868.50	8423.348	30	I						
11869.60	8422.570	1	I	8.0	7.0				26868-38737
11869.78	8422.442	1	I						
11870.43	8421.982	0	I						
11871.14	8421.479	0							
11872.62	8420.425	1	II						
11873.01	8420.147	0							
11873.67	8419.681	0	I						
11873.87	8419.542	0							
11874.09	8419.383	10	I						
11875.93	8418.077	3	I						
11876.12	8417.944	0							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
11877.77	8416.774	1		8.C	7.0				28518-40396
11877.96	8416.641	300	II			0.204	1.206	3	
11878.55	8416.221	1	I	8.C	8.0				15567-27445
11879.10	8415.833	1	I						
11880.32	8414.967	1	I						
11882.37	8413.517	1	II						
11883.69	8412.580	0	II	6.C	7.0				18561-30444
11884.C0	8412.362	1	II						
11884.80	8411.796	10	I	8.C	9.0				23877-35762
11885.26	8411.468	C	I						
11885.45	8411.336	C	II						
11887.21	8410.094	C	II	8.C	8.0				19092-30979
11887.48	8409.902	0							
11888.47	8409.204	1	II						
11890.87	8407.505	3	I						
11891.25	8407.233	C	II						
11891.36	8407.153	3	II						
11891.79	8406.853	1	II						
11892.19	8406.569	0							
11892.95	8406.035	1	II						
11893.20	8405.854	300	II					1	
11893.39	8405.723	0							
11894.40	8405.008	0							
11895.13	8404.490	C	II						
11896.36	8403.626	3	I						
11896.67	8403.403	C							
11896.87	8403.259	3	I	7.C	7.0				20485-32382
11899.33	8401.528	1	I						
11900.12	8400.971	1	I						
11900.16	8400.936	C	I						
11901.53	8399.972	C							
11901.79	8399.786	1	II						
11902.C6	8399.596	0		7.C	8.0				38251-26349
11902.98	8398.948	C							
11903.87	8398.323	1	I						
11904.90	8397.597	0	I						
11905.90	8396.890	C	II						
11907.12	8396.030	C	I						
11907.48	8395.776	10	II						
11909.23	8394.542	1		7.C	8.0				20766-32675
11909.95	8394.037	10	I						
11910.20	8393.856	0							
11910.99	8393.304	C	II						
11911.17	8393.173	0	I						
11912.83	8392.008	1000	II			0.291	1.24	3	

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
11914.55	8390.796	3	II	9.C	8.0				21838-33753
11916.31	8389.552	1	I	7.0	7.0				18528-30444
11917.77	8388.526	1000	I	6.C	7.0	1.39	1.26	1	11673-23591
11919.29	8387.457	0							
11921.36	8385.997	1	I						
11922.02	8385.538	1	I						
11922.53	8385.174	0	II						
11924.49	8383.801	0	I	9.C	8.0				15972-27896
11924.72	8383.635	0							
11926.68	8382.259	0	II						
11926.80	8382.175	0	I						
11927.58	8381.629	0	II						
11929.73	8380.119	0	I						
11930.50	8379.575	0	I	8.0	9.0				23832-35762
11931.58	8378.819	0	I						
11932.75	8377.997	0							
11934.69	8376.635	0							
11935.31	8376.198	0	I						
11935.95	8375.747	1	II						
11936.66	8375.253	0	I						
11936.90	8375.084	0	I						
11937.31	8374.796	0	I						
11937.75	8374.488	1	I						
11939.36	8373.357	0							
11940.80	8372.347	1	I						
11941.64	8371.761	0	I						
11942.49	8371.163	3	I						
11942.87	8370.893	0							
11943.15	8370.702	0							
11944.91	8369.466	0							
11945.43	8369.105	0	I						
11946.86	8368.099	1	II						
11947.38	8367.735	0	I	7.C	6.0				18528-30475
11947.62	8367.571	0	II						
11949.90	8365.969	1	I						
11950.70	8365.416	1	I						
11951.54	8364.824	1	I						
11951.71	8364.704	3	I						
11952.37	8364.241	0	II						
11953.68	8363.325	0	I						
11954.65	8362.650	10	II	9.C	9.0				23985-35940
11955.37	8362.144	0							
11955.97	8361.726	0							
11956.11	8361.625	1	I						
11957.86	8360.401	0							

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
11958.62	8359.874	C	I						
11959.47	8359.273	C	I						
11959.81	8359.039	C	II						
11960.15	8358.804	C							
11960.62	8358.473	3	II						
11961.12	8358.123	3	I						
11961.51	8357.851	C							
11964.18	8355.984	C	I						
11964.48	8355.776	3	I						
11966.63	8354.275	1	I						
11967.03	8353.998	10	I						
11967.48	8353.684	C	I						
11968.88	8352.707	C	I						
11969.57	8352.225	C	I						
11970.33	8351.696	3	II						
11972.19	8350.393	C	I						
11973.11	8349.754	1	I						
11973.34	8349.593	1	I						
11973.79	8349.282	3	I						
11974.50	8348.784	C	II						
11974.83	8348.554	C	I						
11975.35	8348.193	1	I						
11977.68	8346.571	10	I						
11978.36	8346.091	C	I						
11979.61	8345.223	30	I	9.C	10.0				17727-29706
11980.70	8344.466	3	I						
11980.86	8344.351	10	II						
11981.84	8343.669	300	I						
11982.92	8342.918	1	I						
11984.93	8341.519	10	II						
11985.54	8341.096	C	I						
11986.29	8340.571	3	I						
11986.91	8340.144	C	I						
11987.86	8339.480	C	I						
11988.56	8338.993	1	I						
11988.91	8338.752	C	I						
11990.11	8337.912	1	I						
11990.46	8337.674	3	I						
11991.02	8337.282	C	I						
11992.11	8336.522	1	I						
11992.97	8335.927	1	I						
11993.42	8335.615	10	I						
11993.85	8335.313	10	II						
11994.96	8334.547	1	II						
11998.87	8331.826	C	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	CCC-EVEN	
11999.19	8331.606	3	I							
11999.44	8331.431	1	I							
12002.13	8329.562	3								
12002.68	8329.182	C	I							
12003.45	8328.646	30	I							
12003.76	8328.436	1								
12005.96	8326.909	0	I	7.C	8.0					15439-27445
12006.48	8326.545	1								
12007.12	8326.103	10000	I	8.C	8.0	1.28	1.24	3	12007-	0
12008.56	8325.103	1	I							
12009.40	8324.522	30	II							
12010.19	8323.973	3								
12010.37	8323.849	1000	I					3		
12011.09	8323.354	1	I	7.C	7.0					18433-30444
12011.46	8323.098	C								
12012.13	8322.630	3								
12012.49	8322.378	10	I							
12012.77	8322.186	300	I	4.C	4.0			3	22938-	10925
12014.69	8320.855	C								
12015.34	8320.405	0								
12016.47	8319.622	C	I							
12017.15	8319.151	C								
12017.77	8318.725	1	I	6.C	6.0					21456-33474
12018.53	8318.196	1	I							
12020.00	8317.184	30	I							
12020.99	8316.496	1	I							
12021.42	8316.201	C	I							
12021.71	8316.001	C								
12022.18	8315.671	1	I							
12023.84	8314.524	C								
12024.30	8314.153	1	II							
12026.03	8313.008	C	I							
12027.15	8312.240	C	I							
12027.85	8311.751	3	I							
12028.38	8311.389	10	I							
12031.24	8309.414	100	I							
12031.42	8309.288	C	I							
12031.70	8309.097	1	I							
12033.08	8308.141	C								
12033.54	8307.823	30	I							
12034.05	8307.472	10	II							
12034.95	8306.853	C	I							
12036.08	8306.067	1	I							
12037.33	8305.206	1	II							
12039.98	8303.380	C	I							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-G	G-E	TYPE	OCC-EVEN
12040.18	8303.241	0	I						
12040.89	8302.754	0	I						
12041.57	8302.283	100	I						
12042.25	8301.812	0							
12042.34	8301.750	1	I						
12042.71	8301.498	1	I						
12044.16	8300.500	0	II						
12045.09	8299.854	0	I						
12046.57	8298.839	1	I						
12048.39	8297.584	1	I						
12049.14	8297.067	0	II						
12049.46	8296.844	30	I						
12050.03	8296.457	0	I						
12050.47	8296.153	0	II						
12051.67	8295.323	30	I						
12052.43	8294.799	1	I						
12054.45	8293.413	0							
12054.76	8293.196	1	I						
12055.59	8292.624	3	I						
12055.90	8292.417	0		6.C	6.0				21418-33474
12057.35	8291.418	0	I						
12057.81	8291.104	0	I						
12058.37	8290.719	1	I						
12059.14	8290.188	3	II						
12059.47	8289.963	0							
12060.67	8289.131	1		6.C	7.0				18561-30621
12061.21	8288.762	1	II						
12061.47	8288.585	0							
12064.49	8286.511	0	I						
12064.96	8286.187	0							
12065.12	8286.078	1	I						
12067.64	8284.351	10	II						
12067.93	8284.145	100	I	7.C	7.0			3	16202- 4134
12069.41	8283.130	0							
12069.66	8282.960	3	I						
12069.95	8282.765	3	I						
12071.02	8282.026	0	I						
12071.59	8281.639	10	I	7.C	8.0				18528-30600
12073.65	8280.226	0	II						
12074.03	8279.960	0	I						
12074.93	8279.346	3	I						
12075.30	8279.093	0		8.C	8.0				25012-37087
12075.49	8278.964	0	I						
12077.74	8277.421	1	I	8.C	9.0				27817-39895
12079.57	8276.165	0							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
12079.98	8275.887	C	II						
12080.27	8275.688	1	I						
12080.94	8275.225	C	I						
12082.59	8274.098	C	I	8.0	9.0				18477-30560
12083.14	8273.719	3C	I						
12083.34	8273.583	1C	I						
12083.50	8273.472	3	I						
12085.06	8272.407	1	I						
12086.20	8271.628	3	I						
12086.41	8271.482	C	I						
12087.35	8270.835	1	I	8.0	8.0				20341-32428
12090.08	8268.974	1							
12091.57	8267.955	1	I						
12092.24	8267.490	1	II						
12093.05	8266.939	C							
12093.96	8266.315	C							
12094.47	8265.967	C							
12095.12	8265.528	1000C	I	7.0	7.0	1.34	1.32	3	8519-20614
12097.34	8264.004	30	I						
12098.49	8263.223	3	I						
12099.94	8262.234	C							
12100.16	8262.080	1							
12100.48	8261.862	1	II	6.5	6.5				27792-15691
12102.69	8260.355	1	I						
12103.91	8259.526	C	I	8.0	8.0				24204-36308
12104.29	8259.266	C							
12105.07	8258.730	1C	I	7.0	7.0				18339-30444
12105.39	8258.514	3	I						
12106.32	8257.880	C	II						
12106.52	8257.742	30	I						
12107.05	8257.377	10	II						
12108.33	8256.506	C	I						
12108.82	8256.171	C	II						
12109.41	8255.772	1C	I						
12109.97	8255.392	3C	I						
12110.43	8255.076	C	I						
12111.11	8254.613	1	II						
12112.62	8253.581	C	II						
12113.17	8253.210	C	I						
12114.02	8252.631	3	I	8.0	9.0				35894-23780
12114.56	8252.263	1	I	9.0	8.0				17727-29841
12118.51	8249.575	1	I						
12118.82	8249.360	1C	I						
12121.30	8247.671	C	I						
12121.76	8247.359	C	II						

TABLE

DY LINE LIST

PAGE 139

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-G	G-E	TYPE	OCC-EVEN
12122.48	8246.867	10	I	7.C	8.0				18857-30979
12122.68	8246.733	3	II						
12123.23	8246.358	C							
12124.74	8245.334	3	II						
12125.25	8244.986	30	I						
12125.91	8244.535	1000	I	6.C	7.0	1.40	1.39	1	11673-23799
12126.84	8243.906	30	II						
12127.03	8243.779	10	II						
12127.43	8243.500	C	I						
12127.66	8243.346	C	I						
12128.86	8242.531	3	I						
12129.29	8242.239	C							
12131.19	8240.948	300	I					3	
12132.03	8240.376	30	I	6.C	6.0			3	19182- 7050
12134.15	8238.936	1	I						
12134.45	8238.739	0							
12134.95	8238.398	10	II						
12135.14	8238.264	1	II						
12136.93	8237.050	C							
12137.24	8236.840	C	I						
12137.46	8236.695	C	I						
12137.93	8236.374	1	II						
12138.25	8236.153	1	I						
12139.21	8235.508	0	I						
12139.40	8235.379	10	II						
12141.37	8234.039	3	II						
12142.08	8233.557	100	II			0.314		3	
12149.15	8228.764	C							
12150.02	8228.178	C							
12150.62	8227.772	C	I						
12151.14	8227.416	1	II						
12151.83	8226.951	C	I						
12152.20	8226.703	C	II						
12152.52	8226.483	0							
12153.17	8226.047	3	II						
12153.43	8225.865	0	I						
12153.49	8225.825	C							
12153.80	8225.621	C		7.C	8.0				17687-29841
12154.52	8225.129	300	I			0.04	1.28	2	
12155.41	8224.531	30	II						
12155.97	8224.151	C							
12156.44	8223.829	3	I						
12157.39	8223.188	3	I						
12159.19	8221.970	C	I						
12159.84	8221.533	C							

TABLE

DY LINE LIST

PAGE 140

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
12160.00	8221.427	3	I						
12160.65	8220.985	3	I						
12162.41	8219.796	C	II						
12162.64	8219.641	1	I						
12164.15	8218.623	30C	II			0.238	1.214	3	
12164.32	8218.504	1							
12164.54	8218.356	C							
12164.81	8218.171	3	I						
12165.77	8217.528	C	I						
12166.03	8217.348	C							
12166.48	8217.042	10C	II			0.22		3	
12167.89	8216.092	1	I						
12168.66	8215.573	0	II						
12169.94	8214.706	C	I						
12170.79	8214.134	C	I						
12174.20	8211.836	1	I						
12176.22	8210.470	3C	II						
12176.64	8210.189	3	II						
12178.26	8209.094	1	II						
12178.49	8208.944	1C	I						
12179.38	8208.339	10C	II						A
12179.98	8207.937	1	I						
12181.19	8207.122	C	I						
12181.42	8206.965	C	I						
12183.90	8205.295	1	I						
12184.45	8204.928	3	II						
12185.81	8204.011	C	II						
12186.09	8203.819	1	I	9.0	9.0				15972-28158
12186.53	8203.523	0	I						
12187.59	8202.809	1	I						
12188.11	8202.461	C	I	7.0	7.0				18433-30621
12188.80	8201.995	1							
12189.43	8201.573		B	7.0	7.0				17687-29877
12189.43	8201.573	10C00	II			0.165	1.251	3	
12190.12	8201.111	1	II	7.0	8.0				20485-32675
12190.60	8200.785	3	II						
12191.02	8200.505	1	I						
12191.93	8199.894	C	II						
12192.91	8199.234	3	I						
12193.60	8198.770	100C	II	7.5	-6.5	1.24	1.32	1	27885-15691
12194.54	8198.137	1	I						
12194.70	8198.029	1	I	8.0	9.0				19092-31287
12194.96	8197.853	C	II						
12195.51	8197.487	C	II						
12195.67	8197.375	C							

TABLE

DY LINE LIST

PAGE 141

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
12195.80	8197.290	30	I						
12197.31	8196.278	1	II						
12201.28	8193.608	1	I						
12201.83	8193.243	C	II						
12202.08	8193.071	C	I						
12202.89	8192.531	C	I						
12203.01	8192.448	C							
12203.27	8192.271	3	I						
12205.39	8190.849	C	I						
12205.63	8190.686	1	I	5.0	4.0				23130-10925
12205.94	8190.482	10	II						
12206.11	8190.364	C							
12206.86	8189.862	C		6.0	5.0				21418- 9211
12207.86	8189.189	C							
12208.25	8188.929	C	I						
12209.26	8188.251	0							
12209.88	8187.840	3	I	6.0	7.0				22633-34843
12210.49	8187.479	C							
12210.71	8187.280	C							
12211.32	8186.871	1	I						
12212.03	8186.400	30	I	7.0	6.0				12655-24867
12212.19	8186.288	C							
12213.54	8185.384	10	I	8.0	8.0				20341-32554
12213.82	8185.195	0							
12215.07	8184.360	C							
12215.57	8184.022	10	I						
12216.68	8183.281	1	I						
12217.32	8182.849	C							
12217.42	8182.787	C	I						
12217.82	8182.519	10	I						
12218.00	8182.396	C							
12219.04	8181.699	C							
12219.23	8181.573	3	I						
12220.80	8180.520	1	I						
12222.82	8179.172	100	I	8.0	7.0				14625-26848
12225.33	8177.492	1							
12226.23	8176.889	1	I						
12226.95	8176.408	1	I						
12228.82	8175.156	30	I						
12231.21	8173.556	C	I						
12231.56	8173.328	C							
12231.88	8173.109	0	I						
12232.62	8172.615	1	I						
12234.31	8171.486	30	I	8.0	9.0				28795-41029
12234.64	8171.267	C	I						

TABLE

CY LINE LIST

PAGE 142

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA		LEVELS	
				J-C	J-E	G-C	G-E
12235.42	8170.748	1	II				
12235.69	8170.568	1	I				
12235.93	8170.408	1	I				
12237.53	8169.341	1	I				
12237.95	8169.055	3C	II				
12238.23	8168.870	1	I	8.0	8.0		16733-28971
12239.01	8168.347	C	II				
12240.40	8167.423	1C	I				
12240.92	8167.070	C		6.5	7.5		37193-14952
12241.76	8166.512	C	I				
12243.29	8165.491	C	II				
12243.92	8165.076	1	I	7.0	6.0		12655-24899
12246.40	8163.418	C	II				
12246.49	8163.357	C	II				
12249.14	8161.593	1	I				
12249.74	8161.196	3	I				
12250.84	8160.462	1C	I				
12251.06	8160.317	10C	I	7.0	8.0		15194-27445
12251.33	8160.133	3	II				
12251.44	8160.063	3C	I				
12252.78	8159.169	1	II				
12253.51	8158.684	10C	I				
12254.22	8158.208	1	II				
12254.52	8158.009	3	I				
12255.92	8157.079	1	I				
12256.32	8156.015	1	II				
12256.92	8156.413	C	II				
12257.68	8155.907	1C	I				
12257.98	8155.709	1	I				
12258.32	8155.482	C					
12258.83	8155.146	C	I				
12260.00	8154.362	C	II				
12260.35	8154.128	1C	I	7.0	8.0		18339-30600
12260.53	8154.011	3					
12260.65	8153.930	1					
12260.85	8153.797	1C	I				
12261.42	8153.423	1C	I				
12262.43	8152.746	C	I				
12264.47	8151.396	C	II				
12264.76	8151.199	3	I	7.5	7.5		27216-14952
12265.35	8150.809	1C	I				
12265.73	8150.557	1	II				
12265.94	8150.416	3	I				
12266.17	8150.263	C	II				
12267.08	8149.658	3	I				

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
12267.56	8149.341	1C	I						
12268.24	8148.886	C	II						
12269.53	8148.034	1	I	8.C	9.0				18291-30560
12270.65	8147.288	1000C	I	7.0	8.0	1.32	1.30	1	8519-20789
12271.99	8146.396	C	II	6.C	7.C				18172-30444
12274.42	8144.786	1	I						
12275.16	8144.295	100	II						A
12275.98	8143.749	C	I						
12277.03	8143.052	C	I						
12277.14	8142.979	1							
12277.57	8142.694	C	I	9.C	8.C				16693-28971
12278.47	8142.100	1C	II						
12280.C3	8141.064	1	I						
12280.40	8140.817	1							
12280.54	8140.724	3C	II	8.5	7.5				27232-14952
12280.84	8140.529	3	II	7.5	6.5				17036- 4755
12282.C8	8139.706	100	I	7.C	7.C				18339-30621
12282.41	8139.489	C							
12282.55	8139.392	1							
12282.89	8139.168	C	II						
12283.C4	8139.071	1	I	8.C	9.0				242C4-36487
12283.63	8138.676	1	I						
12283.97	8138.451	3	II						
12285.99	8137.113	1	II						
12286.20	8136.978	C	I						
12287.41	8136.171	C	I	8.C	7.0				23832-36119
12289.12	8135.039	3	I						
12289.24	8134.960	1	I						
12291.95	8133.168	3	I	7.C	8.0				20954-33246
12293.52	8132.130	C	I						
12295.23	8130.999	1	I						
12297.36	8129.590	1	I						
12297.89	8129.243	C							
12298.30	8128.971	100	II	5.5	6.5				27990-15691
12299.39	8128.250	3	I						
12299.63	8128.091	0							
12301.91	8126.588	C	I						
12302.28	8126.342	3C	I						
12302.53	8126.179	0	II						
12303.C9	8125.807	1	II	8.C	7.0				35894-23591
12303.C9	8125.807	1	II	6.C	6.0				18172-30475
12304.62	8124.795	C	I						
12306.03	8123.864	3		7.C	8.0				18433-30739
12306.27	8123.707	300	I			1.29	1.29	4	
12307.58	8122.843	C	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA					LEVELS ODD-EVEN
				J-C	J-E	G-C	G-E	TYPE	
12308.24	8122.406	1	I						
12308.72	8122.087	C	I						
12309.02	8121.890	1	II						
12309.52	8121.561	1	I						
12309.83	8121.354	100	I						
12310.43	8120.960	10	II						
12311.33	8120.368	10	I						
12313.50	8118.937	10	II						
12316.59	8116.901	100	II						
12318.03	8115.952	1	I						
12321.62	8113.584	1	II						
12323.08	8112.624	10	I						
12324.63	8111.605	C	II						
12326.49	8110.378	100	I						
12328.20	8109.202	0	I						
12328.87	8108.813	C	II						
12329.22	8108.586	1	I						
12329.45	8108.430		B	8.0	8.0				15567-27896
12329.45	8108.430	100	II			0.01	1.14	3	
12329.67	8108.288	3	I						
12330.02	8108.057	1							
12331.44	8107.127	C	II						
12332.09	8106.697	30	I						
12332.68	8106.308	300	I						
12333.92	8105.495	3	I						
12334.21	8105.303	1	I	8.0	8.0				20341-32675
12339.03	8102.134	1	II						
12339.60	8101.760	C	II						
12339.85	8101.597	C							
12340.12	8101.418	1	I						
12340.57	8101.125	C	I						
12343.05	8099.494	1	I						
12343.30	8099.331	C	I						
12343.89	8098.946	1	I						
12344.08	8098.825	C							
12344.82	8098.335	30	II						
12345.45	8097.921	0	I						
12345.83	8097.672	C	I						
12346.70	8097.101	3	II						
12347.03	8096.888	3	I						
12347.75	8096.413	1	I						
12348.06	8096.213	C	II						
12349.27	8095.420	10	I						
12349.66	8095.165	0	I						
12351.33	8094.067	1	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA		LEVELS ODD-EVEN
				J-C	J-E	
12352.68	8093.185	1	I			
12353.03	8092.955	0	I			
12353.91	8092.377	0	I	8.0	7.0	25012-37366
12355.03	8091.643	0	II			
12355.13	8091.578	1	II			
12358.32	8089.490	0				
12359.10	8088.976	0	II			
12359.85	8088.490	0	II	8.0	8.0	35894-23534
12360.73	8087.911	0	I			
12361.28	8087.555	3	II			
12362.11	8087.010	3	I			
12362.16	8086.975	1	I			
12362.93	8086.472	1	I	9.0	8.0	27014-39376
12363.78	8085.918	30	I			
12364.00	8085.772	3	II			
12365.43	8084.838	1	I			
12366.52	8084.124	1	I	8.0	7.0	24999-37366
12367.50	8083.484	1	I			
12368.47	8082.848	0	II			
12370.47	8081.544	1	I			
12370.56	8081.486	1	I			
12370.99	8081.204	0				
12375.26	8078.416	0	I			
12376.02	8077.919	30	II			
12376.54	8077.582	1	I			
12377.12	8077.201	0				
12377.29	8077.092	0	I			
12377.89	8076.699	3	I			
12378.52	8076.287	0	II	7.0	8.0	24708-37087
12379.22	8075.833	10	I			
12379.51	8075.642	0	II			
12381.21	8074.534	0	II			
12381.55	8074.314	0		8.0	8.0	20341-32722
12382.08	8073.965	0				
12382.27	8073.843	1	II			
12384.13	8072.630	0	I			
12386.78	8070.903	1000	II			
12388.51	8069.774	1	II			
12389.35	8069.227	3	I			
12389.66	8069.024	1	I			
12392.61	8067.103	10	I	8.0	7.0	15567-27959
12393.57	8066.484	0		7.0	8.0	25133-37527
12393.91	8066.264	1	I			
12394.31	8066.001	10	I			
12395.00	8065.549	0	I			

0.315

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TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
12395.65	8065.130	100	I						
12396.26	8064.731	0	I						
12398.08	8063.546	1	I						
12398.79	8063.087	0	I						
12399.99	8062.306	10	I	7.0	8.0				18339-30739
12400.19	8062.175	0							
12402.26	8060.828	0	II						
12402.57	8060.627	0							
12403.13	8060.267	0	I						
12403.60	8059.959	30	II						
12404.51	8059.368	3	I						
12405.67	8058.612	1	I	6.0	6.0				23687-36093
12406.63	8057.988	100	I						
12407.74	8057.266	3	II						
12408.30	8056.905	0	I	7.0	7.0				27837-40245
12409.38	8056.203	0	II						
12409.82	8055.920	1	I						
12412.22	8054.361	0							
12412.59	8054.119	0	I						
12412.82	8053.974	1	I						
12413.17	8053.748	0							
12413.47	8053.553	0	II						
12413.79	8053.339	3	I						
12414.12	8053.130	0	I						
12414.49	8052.887	0							
12414.68	8052.767	10	I						
12415.66	8052.129	0							
12416.20	8051.779	0							
12416.47	8051.604	0							
12416.79	8051.398	1	I						
12417.13	8051.174	1							
12417.63	8050.853	1000	I			1.24	1.24	4	
12418.84	8050.070	30	II						
12419.69	8049.516	1	I						
12420.32	8049.108	0							
12422.98	8047.386	1		8.0	7.0				18021-30444
12423.15	8047.277	1000	I			1.32	1.32	4	
12423.55	8047.014	3	I						
12425.46	8045.777	1	I						
12425.82	8045.546	0							
12426.84	8044.883	0							
12427.04	8044.752	1	I						
12427.67	8044.348	30	I						
12430.27	8042.664	30	I	7.0	8.0				38779-26349
12431.01	8042.186	0	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA					LEVELS ODD-EVEN
				J-C	J-E	G-C	G-E	TYPE	
12431.86	8041.634	3	I						
12433.26	8040.729	0	I						
12433.49	8040.585	0	I						
12433.89	8040.324	1	I						
12434.25	8040.090	1000	I	8.0	8.0	1.25	1.29	3	14625-27059
12434.52	8039.915	10							
12435.23	8039.458	1	I						
12435.55	8039.252	1	I						
12435.96	8038.986	1	I						
12436.50	8038.635	1							
12436.79	8038.449	1	I						
12437.27	8038.143	0							
12437.68	8037.876	10	I						
12439.66	8036.597	3	I						
12439.75	8036.537	0							
12440.02	8036.363	0							
12440.25	8036.214	0							
12440.51	8036.043	10	I	7.0	8.0				12655-25095
12440.58	8035.998	3	I						
12440.94	8035.767	10	II						
12441.09	8035.669	1	I						
12442.38	8034.837	1	II						
12442.58	8034.708	0							
12442.87	8034.523	0							
12443.29	8034.252	1	I						
12444.05	8033.759	0	II						
12444.41	8033.527	0	I						
12445.55	8032.792	0	I						
12445.86	8032.590	0	I						
12447.16	8031.749	0	I						
12449.00	8030.566	1	I	6.0	7.0				18172-30621
12450.46	8029.623	0							
12451.89	8028.701	10	I	7.0	8.0				20954-33406
12452.00	8028.629	1							
12452.21	8028.495	0		8.0	8.0				20793-33246
12452.29	8028.443	3	I						
12454.19	8027.216	300	I			0.22	1.07	1	
12455.04	8026.668	0	I						
12455.48	8026.389	3	I						
12455.83	8026.160	3	I						
12457.15	8025.312	3000	I	6.0	7.0	1.348	1.175	1	16591- 4134
12458.40	8024.503	0	I						
12458.94	8024.157	0	I	7.0	8.0				23479-35938
12460.88	8022.909	0	II						
12461.06	8022.793	1	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
12461.72	8022.366	1	I						
12462.36	8021.956	0							
12462.73	8021.715	0	II						
12463.19	8021.424	0							
12463.33	8021.331	1	I						
12463.64	8021.134	0							
12463.82	8021.018	1	I						
12465.11	8020.186	1	II						
12466.19	8019.493	0	I						
12466.97	8018.986	10	I						
12468.37	8018.086	1	I						
12468.84	8017.790	1							
12469.66	8017.258	0	I						
12470.04	8017.015	1	I						
12470.30	8016.845	1							
12470.61	8016.648	1	I						
12471.56	8016.039	1	I						
12472.37	8015.514	0	II						
12473.20	8014.982	3	I						
12473.87	8014.556	1	II						
12475.19	8013.706	1	I						
12476.09	8013.128	1	I	8.0	8.0				23832-36308
12477.10	8012.482	0	II						
12477.63	8012.139	1	II						
12480.66	8010.194	300	I	7.0	7.0	1.27	1.28	3	14367-26848
12480.91	8010.034	100	I					3	
12481.66	8009.555	3	II						
12482.24	8009.181	0	I						
12482.98	8008.706	300	II	7.5	-7.5	1.31	1.29	3	27435-14952
12483.92	8008.105	10	I						
12484.74	8007.576	0							
12485.78	8006.910	0	I						
12486.11	8006.699	0							
12486.19	8006.644	0	I						
12486.99	8006.134	0							
12487.39	8005.880	0							
12487.61	8005.735	1		6.0	5.0				21699- 9211
12488.01	8005.481	0	I	7.0	8.0				22889-35377
12488.39	8005.239	0	I						
12489.33	8004.631	1							
12489.58	8004.475	30	II						
12489.98	8004.214	1	II						
12490.81	8003.684	1	II						
12493.71	8001.828	1	I						
12494.80	8001.129	3	I						

TABLE

CY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
12496.06	8000.322	10	I						
12496.22	8000.216	0							
12500.06	7997.764	1	II						
12500.37	7997.561	1	II						
12500.69	7997.361	1	II	7.0	7.0				15858-28358
12502.37	7996.281	0	II						
12502.74	7996.049	0							
12503.10	7995.818	3	I	7.0	7.0				24708-37212
12503.34	7995.663	0							
12503.91	7995.296	10	I						
12504.27	7995.068	1	I						
12504.76	7994.755	1	I						
12505.20	7994.478	0	I						
12505.42	7994.336	1	I						
12506.05	7993.932	0	II						
12506.39	7993.712	0							
12506.82	7993.438	0							
12507.78	7992.824	0	I						
12508.11	7992.611	1	I						
12508.50	7992.366	0	II						
12510.99	7990.771	3	I						
12512.07	7990.087	30	II						
12514.13	7988.769	0	I						
12514.40	7988.597	0	II	8.0	8.0				23877-36392
12515.23	7988.065	1		5.0	4.0				23440-10925
12515.38	7987.970	1	I						
12517.18	7986.823	10	I						
12517.62	7986.539	0	II						
12518.29	7986.113	10	I						
12518.61	7985.913	0	II						
12520.04	7984.999	0	II	7.0	7.0				15439-27959
12520.12	7984.947	0		7.0	6.0				20954-33474
12521.15	7984.292	3	I	7.0	8.0				19907-32428
12522.52	7983.415	30	I						
12523.40	7982.854	300	II			0.150	1.053	3	
12524.58	7982.106	0	II						
12525.14	7981.750	0							
12525.41	7981.578	1							
12525.81	7981.320	0							
12527.13	7980.401	0							
12527.31	7980.364	10	II						
12528.16	7979.824	0	I						
12530.18	7978.536	0							
12530.30	7978.458	0							
12530.40	7978.395	0							

TABLE

DY LINE LIST

PAGE 150

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
12531.56	7977.656	0							
12531.89	7977.447	0	I						
12531.98	7977.390	1							
12533.70	7976.299	1	I						
12534.34	7975.888	1	I						
12534.78	7975.608	0	II						
12535.71	7975.020	1	I						
12535.79	7974.965	0							
12536.50	7974.512	3	I						
12537.46	7973.901	3	I						
12538.67	7973.134	1000	I	8.0	9.0			2	18021-30560
12539.27	7972.756	0							
12539.51	7972.602	0							
12540.67	7971.865	0	II						
12543.53	7970.047	0	II						
12543.74	7969.910	0							
12544.16	7969.642	0							
12545.76	7968.627	1000	I	7.0	8.0			2	18433-30979
12548.57	7966.847	0	I						
12549.63	7966.174	0	I						
12550.83	7965.413	10	II	6.5	7.5				27502-14952
12551.02	7965.289	1	II						
12551.20	7965.174	0							
12554.51	7963.077	1	I						
12554.99	7962.772	1000	I					3	
12555.48	7962.459	0							
12555.65	7962.354	0							
12556.46	7961.841	0							
12558.13	7960.780	3	I	8.0	8.0				16733-29291
12560.00	7959.592	0	II	8.0	8.0				23832-36392
12561.77	7958.505	0							
12561.84	7958.426	1	II						
12562.26	7958.160	1	I						
12564.53	7956.726	1	II						
12565.81	7955.914	10	I						
12565.97	7955.811	1	I						
12567.18	7955.048	0							
12567.24	7955.011	3	I	9.0	8.0				15972-28539
12567.68	7954.728	0	I						
12568.55	7954.178	100	I						
12569.21	7953.759	1	I						
12569.35	7953.672	1	I						
12570.96	7952.655	0							
12571.61	7952.244	30	II						
12572.99	7951.367	0							

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
12574.22	7950.591	3C	I						
12574.90	7950.163	0							
12575.24	7949.947	0							
12576.04	7949.442	1	I						
12576.69	7949.029	0		8.0	9.0				27319-39895
12577.15	7948.742	10	II						
12578.16	7948.105	0							
12578.27	7948.036	0	I	8.0	8.0				18021-30600
12578.54	7947.860	0							
12578.63	7947.805	0							
12579.33	7947.361	0	I						
12579.60	7947.192	0		0.0	9.0				25012-37591
12580.28	7946.762	0							
12580.91	7946.361	1	I						
12581.15	7946.216	1	I						
12581.74	7945.843	3	I	8.0	7.0				19092-31674
12582.57	7945.314	0	II						
12585.21	7943.648	1	I						
12585.73	7943.322	0							
12587.01	7942.517	10	I	7.0	7.0				24708-37295
12587.91	7941.944	0	I						
12588.81	7941.379	0							
12589.22	7941.120	10	II						
12589.93	7940.672	100	II						
12592.45	7939.083	1	II						
12592.80	7938.861	1	II						
12593.05	7938.702	1							
12593.29	7938.550	1							
12597.05	7936.185	0	I						
12598.21	7935.451	0		7.0	7.0				20954-33552
12598.97	7934.976	1000	I	8.0	7.0	1.19	1.17	2	16733- 4134
12599.98	7934.335	30	I	8.0	7.0				18021-30621
12600.50	7934.009	30	I						
12603.23	7932.288	1	I	8.0	8.0				24204-36807
12603.79	7931.940	1	I						
12604.22	7931.667	0							
12606.16	7930.445	1	I						
12606.77	7930.062	0	I						
12608.93	7928.707	0	II						
12611.96	7926.802	0	I						
12613.90	7925.579	1	I						
12615.65	7924.482	10	I	7.0	8.0				22061-34676
12618.20	7922.884	3	I						
12619.48	7922.080	0							
12620.17	7921.642	3	I						

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	GDC-EVEN
12623.14	7919.779	0	I						
12625.24	7918.464	0	II						
12625.89	7918.058	3	I						
12627.40	7917.111	1	I	5.C	4.0				23552-10925
12627.99	7916.739	300	I	7.C	7.0	CG =	0.215		
12628.51	7916.415	3	I						
12629.99	7915.485	1							
12630.10	7915.417	1	I						
12630.91	7914.907	10	I						
12631.95	7914.256	1000	I						1
12632.49	7913.920	0	II						
12633.31	7913.404	C							
12633.97	7912.989	C	I						
12634.53	7912.642	0							
12635.32	7912.147	1	I						
12636.28	7911.548	1	I						
12639.73	7909.386	3000	I	7.C	8.0	1.20	1.25	2	18339-30979
12639.73	7909.386	B	I	7.C	8.0				20766-33406
12640.57	7908.860	3C	I						
12642.49	7907.658	C							
12642.77	7907.484	C	II						
12643.42	7907.076	C	I						
12643.62	7906.953	1	I						
12644.84	7906.190	1	I						
12645.60	7905.712	0							
12646.15	7905.367	0	I						
12647.34	7904.629	3	I						
12647.51	7904.520	0	II						
12647.81	7904.334	0	I						
12648.45	7903.930	0	I						
12649.16	7903.491	0							
12649.46	7903.305	1	II						
12650.70	7902.526	30C	I						A
12653.10	7901.028	C		5.C	6.0				23440-36093
12653.49	7900.783	1	II						
12654.53	7900.133	C							
12655.15	7899.750	10	I	7.C	8.0				12655- 0
12655.15	7899.750	10	I	8.C	9.0				23832-36487
12655.28	7899.670	C							
12655.84	7899.318	1	II						
12656.45	7898.940	C	II						
12657.15	7898.502	1		7.0	7.0				24708-37366
12657.51	7898.278	C							
12658.20	7897.844	C							
12659.95	7896.753	1	I						

WAVE NUMBRER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
12660.44	7896.450	C	I						
12663.42	7894.588	1	I						
12664.38	7893.992	1	I						
12665.50	7893.293	3	I						
12665.95	7893.011	1	II						
12666.05	7892.951	C							
12667.70	7891.921	1	I						
12668.78	7891.248	1	I						
12669.86	7890.576	C	I						
12670.01	7890.485	0							
12670.72	7890.042	1	I						
12671.10	7889.803	C	II						
12671.72	7889.419	1C	I						
12676.78	7886.270	C							
12678.00	7885.509	3	I						
12681.65	7883.241	3	II						
12682.00	7883.024	0							
12682.72	7882.574	C	I						
12683.73	7881.946	1	II						
12684.12	7881.703	1	I						
12689.41	7878.419	1	I	7.C	7.0				27556-40245
12689.62	7878.291	0							
12690.44	7877.777	1	II						
12690.73	7877.602	0							
12691.05	7877.400	1	I	7.C	7.0				18433-31124
12691.47	7877.142	1	II						
12692.10	7876.749	1	I	7.C	8.0				14367-27059
12692.71	7876.369	C							
12693.66	7875.784	0	II						
12694.17	7875.465	3	I	8.0	9.0				18021-30716
12695.03	7874.934	1C	I						
12695.46	7874.668	1	I	7.5	7.5				17036- 4341
12696.74	7873.873	0							
12697.25	7873.553	C							
12697.92	7873.136	0	II						
12698.23	7872.946	C	II						
12699.01	7872.462	C							
12699.37	7872.239	1	II						
12701.14	7871.146	10C	I						
12701.78	7870.744	3C	I						
12701.96	7870.638	10C	I	7.C	8.0				15194-27896
12703.70	7869.560	3	I						
12704.74	7868.913	C							
12705.92	7868.184	1	I						
12706.83	7867.617	3	II						

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
12707.07	7867.470	0							
12708.51	7866.577	10	I						
12709.28	7866.099	30	I						
12709.42	7866.014	10	II	7.0	7.0				20766-33475
12710.36	7865.431	1	I						
12711.12	7864.965	1000	I					A	
12711.69	7864.612	10	I						
12711.94	7864.456	C							
12712.18	7864.309	100	II					L	
12713.13	7863.722	0							
12713.36	7863.580	U							
12713.50	7863.492	1	I						
12714.22	7863.049	1	I						
12715.20	7862.438	3	II						
12716.57	7861.595	0							
12716.97	7861.349	1	II						
12717.91	7860.767	100	I	8.0	8.0				18021-30739
12718.43	7860.443	C	I						
12719.35	7859.874	0	I						
12719.73	7859.639	C	I						
12720.02	7859.459	0							
12720.27	7859.306	0	II						
12720.82	7858.967	1	I						
12721.00	7858.853	1							
12721.37	7858.624	10	I						
12721.71	7858.418	3	I						
12722.25	7858.086	0							
12722.76	7857.766	1	II						
12722.89	7857.690	0							
12723.72	7857.176	0							
12723.91	7857.056	10	I						
12724.18	7856.890	1							
12724.53	7856.677	0	II						
12725.66	7855.974	1	I						
12726.49	7855.463	0							
12727.05	7855.120	C							
12727.53	7854.826	C	II						
12728.02	7854.523	C							
12728.28	7854.358	C	II						
12729.57	7853.563	C							
12731.64	7852.288	C							
12731.84	7852.162	3	I	8.0	9.0				16733-29465
12731.84	7852.162	3	I	9.0	9.0				23985-36717
12732.49	7851.765	100	I	9.0	9.0				17727-30459
12733.41	7851.198	0	I						

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
12733.73	7850.997	0							
12734.14	7850.748	10	I						
12734.77	7850.358	1	I	6.0	7.0				20817-33552
12735.22	7850.081	0	I						
12736.63	7849.214	C	II						
12737.08	7848.936	C							
12738.13	7848.285	1	I						
12738.41	7848.117	C							
12738.61	7847.992	1	II						
12738.72	7847.926	1	II						
12739.17	7847.644	C	II						
12740.03	7847.113	1	II						
12740.48	7846.837	1	II						
12742.72	7845.460	C							
12743.23	7845.142	C	I						
12744.02	7844.658	3	II						
12744.50	7844.367	C	I	8.0	7.0				33358-20614
12744.97	7844.076	1	I						
12745.54	7843.726	1	I						
12746.24	7843.291	3	I	8.0	7.0				16880- 4134
12747.24	7842.679	30	II						
12750.19	7840.864	C	I	8.0	8.0				24204-36954
12751.08	7840.318	C							
12751.66	7839.956	0	I						
12752.11	7839.681	1	I						
12753.44	7838.866	10	I						
12753.86	7838.607	10	II						
12754.36	7838.299	1	I						
12754.58	7838.163	1	I						
12754.76	7838.053	0							
12755.52	7837.589	C	I						
12756.77	7836.817	300	I					1	
12758.08	7836.012	10	I						
12758.33	7835.864	C							
12758.59	7835.704	1	II						
12758.88	7835.522	30	II					2	
12759.29	7835.268	1							
12760.19	7834.717	C							
12760.57	7834.487	1							
12760.88	7834.294	0		7.0	6.0				19811- 7050
12761.56	7833.877	300	I	4.0	4.0	0.77	*0.618	3	23686-10925
12763.37	7832.767	1000	I	5.0	6.0	1.270	1.080	1	19813- 7050
12764.15	7832.288	3		6.5	6.5				28456-15691
12764.81	7831.884	3	II						
12765.14	7831.679	3	I	7.0	7.0				15194-27959

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
12765.32	7831.570	0		8.0	9.0				14625-27390
12765.54	7831.434	1	II						
12766.42	7830.893	0	I						
12767.11	7830.469	0	I						
12768.16	7829.826	0	I						
12768.86	7829.399	1	I						
12769.33	7829.111	1	II						
12769.41	7829.060	1	II						
12770.27	7828.535	0	II						
12770.48	7828.402	1	II						
12770.65	7828.300	0							
12771.06	7828.052	30	I						
12771.84	7827.569	10	II						
12772.53	7827.150	0							
12775.87	7825.104	0	II						
12776.92	7824.461	0							
12777.09	7824.357	0	I						
12777.77	7823.939	0	I	8.0	8.0				21899-34676
12777.96	7823.822	0							
12778.40	7823.557	0	I						
12779.05	7823.154	1	I	8.0	7.0				16733-29512
12780.91	7822.017	0	II						
12781.89	7821.420	0							
12782.40	7821.103	100	I					3	
12783.44	7820.468	1	I						
12784.74	7819.675	3	II						
12784.96	7819.539	0		7.0	7.0				18339-31124
12786.66	7818.502	0	I	5.0	4.0				23711-10925
12787.38	7818.059	0		6.0	5.0				21958- 9211
12787.86	7817.765	1	II						
12789.49	7816.760	0	II						
12790.07	7816.416	0							
12791.34	7815.641	30	I	8.0	7.0				15567-28358
12791.94	7815.272	0							
12792.02	7815.221	1							
12792.20	7815.115	30	I						
12792.36	7815.013	1							
12792.61	7814.862	1							
12793.04	7814.598	1000	I	7.0	6.0	1.29	1.33	1	15194-27987
12794.72	7813.571	0							
12795.15	7813.313	1	I						
12796.61	7812.421	1							
12797.21	7812.055	10000	I			1.22	1.22	4	
12797.91	7811.629	3							
12798.94	7810.999	0		7.0	8.0				20954-33753

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
12799.50	7810.658	C							
12799.81	7810.468	3	I						
12801.32	7809.545	1	II						
12802.56	7808.790	C							
12802.93	7808.561	C	II						
12803.19	7808.406	C							
12803.67	7808.114	3C	I						
12805.08	7807.256	3C	I						
12805.55	7806.967	C							
12806.03	7806.677	C							
12806.27	7806.525	1C	I						
12806.53	7806.370	C							
12809.46	7804.583	C							
12809.58	7804.511	1	II						
12810.11	7804.184	1	I						
12811.08	7803.598	C							
12811.37	7803.421	1							
12811.59	7803.282	1	I						
12812.66	7802.631	1	I						
12814.33	7801.618	3C	I					A	
12814.58	7801.466	C							
12815.75	7800.750	1	II						
12817.02	7799.981	3	I	7.0	7.0				18857-31674
12818.22	7799.247	C	I						
12819.05	7798.744	C	II						
12819.71	7798.342	3	I						
12820.25	7798.012	30C	I	8.0	8.0			3	14625-27445
12821.94	7796.986	C	II						
12822.86	7796.426	C	I						
12823.55	7796.005	C							
12824.48	7795.440	1	I						
12826.97	7793.929	1	II						
12827.53	7793.590	3C	I						
12827.68	7793.499	C							
12827.90	7793.365	C	II						
12828.74	7792.853	3	II						
12830.41	7791.837	C		8.0	9.0				23877-36708
12832.83	7790.372	3							
12833.41	7790.020	300C	I	9.0	9.0	1.25	1.33	3	17727-30560
12835.15	7788.963	C							
12836.80	7787.960	1	I						
12837.35	7787.626	1							
12838.41	7786.981	3	I	9.0	8.0				21838-34676
12838.57	7786.889	1							
12839.34	7786.422	1	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
12839.61	7786.257	0							
12840.24	7785.871	1							
12840.34	7785.811	3	II	6.5	7.5				27792-14952
12842.22	7784.671	0		8.0	8.0				24999-37841
12843.34	7783.992	C							
12843.74	7783.754	0							
12844.88	7783.062	1	II						
12847.35	7781.568	0							
12847.78	7781.304	1	I						
12848.01	7781.164	0	II						
12848.46	7780.890	300	I			0.33	1.54	2	
12850.09	7779.903	1	I						
12850.23	7779.819	0							
12852.89	7778.214	0							
12853.10	7778.086	1							
12853.55	7777.809	100	I	9.0	8.0			A	13495-26349
12856.69	7775.913	C							
12856.90	7775.783	100		7.0	6.0			A	19907- 7050
12857.97	7775.139	C							
12858.28	7774.953	0							
12859.21	7774.390	C							
12859.92	7773.960	1							
12860.80	7773.424	100						A	
12861.83	7772.805	10							
12862.59	7772.346	3							
12863.13	7772.017	0							
12868.25	7768.925	0	II						
12868.41	7768.828	1							
12869.02	7768.463	C							
12870.43	7767.613	3	I						
12070.85	7767.358	1		6.0	7.0				36462-23591
12871.24	7767.119	1	II						
12871.47	7766.984	3	II						
12872.26	7766.506	C	II						
12873.03	7766.044	1	I	9.0	8.0				17727-30600
12873.22	7765.930	1							
12874.12	7765.384	1	II						
12874.76	7765.000	C							
12875.73	7764.413	1	II						
12876.08	7764.204	C	I	8.0	9.0				23832-36708
12877.94	7763.083	C							
12878.17	7762.942	0							
12879.37	7762.218	1	II						
12881.81	7760.751	1	I	9.0	9.0				27014-39895
12882.91	7760.083	100	I					3	

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	OCC-EVEN	
12883.13	7759.952	1	I							
12883.34	7759.829	1	I							
12885.57	7758.486	0	II							
12887.50	7757.324	1000	I	4.C	5.0	1.059	0.912	1	22099-	9211
12888.23	7756.881	0								
12889.22	7756.284	1	II							
12889.63	7756.038	0								
12889.89	7755.887	0								
12890.04	7755.794	0								
12891.62	7754.844	30	II							
12892.32	7754.425	0								
12892.94	7754.046	0								
12893.77	7753.548	30	I							
12894.49	7753.115	1	I							
12896.99	7751.616	1000	B II			0.102	1.122	1		
12896.99	7751.616	300	B II			0.215	1.143	1		
12897.96	7751.030	1	I							
12898.52	7750.696	1	I							
12898.79	7750.533	0								
12898.93	7750.446	1	I	7.C	7.0				24708-	37607
12899.14	7750.320	1	II							
12899.43	7750.148	1000	I			0.149	0.472	1		
12900.31	7749.619	0	I							
12900.53	7749.488	3	II							
12901.53	7748.889	3	I							
12903.34	7747.796	0	I							
12904.80	7746.919	1		8.C	8.0				20341-	33246
12904.94	7746.836	3	I							
12905.22	7746.671	1	I							
12906.17	7746.101	0								
12906.64	7745.818	30	I							
12909.02	7744.391	1	I							
12911.43	7742.944	0		7.C	7.0				19811-	32722
12911.73	7742.761	0	I							
12912.24	7742.456	3	I	7.C	8.0				17687-	30600
12912.84	7742.102	1	I							
12913.15	7741.916	10	I							
12913.82	7741.512	0	II							
12914.74	7740.959	1	I							
12915.04	7740.777	1	I							
12915.46	7740.531	100	I							
12917.03	7739.586	10	I							
12917.37	7739.381	30	II							
12919.76	7737.952	1	I							
12920.45	7737.538	3	I							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
12920.97	7737.227	C		6.0	7.0				20554-33475
12921.25	7737.058	I	I						
12921.80	7736.732	C							
12922.34	7736.408	C	I						
12926.32	7734.028	C	I						
12927.05	7733.589	I	I						
12927.46	7733.343	I	I						
12927.60	7733.260	C							
12927.85	7733.110	C							
12928.58	7732.674	3C	I						
12928.84	7732.516	3C	I						
12930.11	7731.760	I	I	8.0	9.0				21899-34829
12932.42	7730.375	I							
12933.14	7729.947	10C	II						
12933.45	7729.764	100C	II	7.5	7.5	1.24	1.29	3	27885-14952
12934.66	7729.040	C							
12935.13	7728.758	10C	I						
12936.05	7728.210	C							
12936.37	7728.019	10	I						
12937.48	7727.354	I	II						
12940.45	7725.582	10	I						
12941.39	7725.017	I	I						
12942.02	7724.641	3	I						
12942.46	7724.378	9	I	7.0	7.0				22061-35003
12943.92	7723.506	C		8.0	7.0				21899-34843
12944.21	7723.335	I		8.0	7.0				19092-32036
12945.16	7722.770	C							
12946.31	7722.085	10C	I					A	
12947.92	7721.122	10C	I					A	
12948.11	7721.009	3C	II						
12949.47	7720.200	C	I						
12949.61	7720.118	C	I						
12950.32	7719.692	I	I						
12950.93	7719.329	I	II						
12951.91	7718.742	I	I	6.0	7.0				18172-31124
12952.61	7718.329	I	I						
12954.12	7717.430	I	II						
12954.82	7717.009	3	II						
12955.67	7716.506	I	I						
12956.15	7716.219	I	I						
12957.65	7715.327	300C	I	8.0	8.0	1.23	1.25	3	18021-30979
12960.41	7713.681	C	I						
12962.16	7712.644	3	I						
12963.39	7711.912	10C	II					3	
12964.82	7711.057	3C	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEFMAN DATA			LEVELS OCC-EVEN
				J-C	J-E	G-C G-E TYPE	
12966.37	7710.137	C	I				
12967.05	7709.735	C	II				
12967.82	7709.273	3	I				
12969.89	7708.044	C	II				
12970.55	7707.654	10	I				
12971.17	7707.286	10	II				
12972.21	7706.666	10	I	8.C	8.0		15567-28539
12972.45	7706.522	1	I				
12973.38	7705.969	1	I				
12975.70	7704.591	1	I				
12976.62	7704.045	3	I				
12977.58	7703.477	C	I				
12978.10	7703.170	1	I				
12979.91	7702.091	3	I				
12980.44	7701.779	100	I			4	
12980.81	7701.562	3	I				
12981.38	7701.220	C	I				
12982.24	7700.711	1	I				
12983.02	7700.252	1	I				
12983.14	7700.177	3	I				
12983.71	7699.838	100	I			A	
12984.79	7699.201	3	I				
12986.92	7697.937	C		8.C	8.0		19688-32675
12987.12	7697.815	0					
12987.70	7697.475	C	II				
12988.54	7696.978	C	II	6.C	7.0		20817-33806
12988.87	7696.778	1		9.C	9.0		17727-30716
12989.28	7696.540	30C	I			3	
12990.21	7695.988	C	I	8.C	9.0		23832-36822
12991.05	7695.489	C	II				
12992.32	7694.738	1	I				
12993.79	7693.865	30C	I			2	
12994.93	7693.191	C	II				
12996.92	7692.015	30	I	8.C	7.0		16880-29877
12997.58	7691.625	1	I				
12998.33	7691.179	0	II				
12999.08	7690.737	10	I	9.C	8.0		15972-28971
12999.59	7690.430	0					
13000.35	7689.984	1	I	9.C	9.0		23717-36717
13000.90	7689.660	0	II				
13002.58	7688.665	3	I				
13003.23	7688.283	C	II				
13004.51	7687.524	0	I				
13005.34	7687.037	1	II				
13005.82	7686.749	1	I				

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	OCD-EVEN	
13007.13	7685.973	1	I							
13008.21	7685.340	1	I							
13008.53	7685.151	0	II							
13008.97	7684.888	3	I							
13010.63	7683.909	0	II							
13011.65	7683.306	0	I							
13012.65	7682.715	100	I	9.C	8.0				A	17727-30739
13014.02	7681.904	30	I							
13015.10	7681.270	1	I							
13017.18	7680.039	10	I							
13018.72	7679.132	1	I							
13019.06	7678.933	3	I							
13019.54	7678.649	0	I							
13020.62	7678.011	0	II							
13021.52	7677.481	30	I							
13022.47	7676.921	30	I							
13022.87	7676.687	300	I			0.462			3	
13024.04	7675.994	10	I							
13024.77	7675.563	30	I							
13025.44	7675.169	1	I							
13025.91	7674.893	1	I							
13026.27	7674.683	1	I							
13029.07	7673.035	0	C							
13029.55	7672.748	100	I						3	
13032.71	7670.892	0	C							
13033.36	7670.509	1	I							
13033.62	7670.351	0	C							
13034.10	7670.073	0	II							
13037.22	7668.236	1	I							
13039.69	7666.784	300	II			0.058	1.382		3	
13040.50	7666.310	3	I							
13040.91	7666.068	1	II							
13041.19	7665.900	3	I							
13041.81	7665.540	10	I							
13042.39	7665.200	3	I	7.C	7.0					24708-37751
13043.42	7664.590	30	I							
13044.49	7663.963	1	II							
13045.57	7663.326	3	I							
13047.22	7662.358	1000	I			0.27	1.05		1	
13048.40	7661.668	3	I							
13048.72	7661.478	1000	I	8.C	7.0				2	7565-20614
13051.21	7660.019	0	II							
13051.88	7659.625	1	II	7.C	8.0					17687-30739
13052.66	7659.165	1	II							
13053.04	7658.945	0	I							

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
13054.30	7658.202	1	I						
13055.05	7657.761	1	I						
13055.40	7657.556	C	I						
13056.04	7657.183	0	II						
13056.42	7656.958	3	I						
13057.30	7656.444	1	II						
13057.92	7656.077	3	I						
13058.97	7655.467	1	II						
13059.79	7654.985	0	II						
13061.09	7654.224	1	I						
13061.91	7653.741	C	I						
13063.21	7652.977	1	II						
13064.46	7652.249	1C	I						
13067.17	7650.662	C	II						
13067.55	7650.435	0	II	6.5	7.5				28019-14952
13068.69	7649.772	C	I						
13070.78	7648.547	3	I	7.0	8.0				23736-36807
13071.52	7648.113	3C	II						
13073.16	7647.153	3C	I						
13074.05	7646.637	1000	I			0.18	1.18	3	
13075.36	7645.866	1000	I			0.156	1.196	3	
13076.57	7645.162	10C	I						
13076.79	7645.031	3	I						
13077.85	7644.414	0	II						
13078.09	7644.273	3C	I	7.0	8.0				14367-27445
13078.57	7643.991	1	II						
13079.07	7643.701	3	I						
13081.96	7642.011	1	I						
13083.30	7641.226	30C	I	5.0	5.0			3	22294- 9211
13083.53	7641.093	1000	I			0.169	1.085	1	
13085.40	7640.004	1C	I						
13086.60	7639.298	10C	I						
13087.68	7638.670	3	I						
13088.53	7638.171	3C	I	8.0	8.0				12007-25095
13091.15	7636.648	C	II						
13091.68	7636.334	C							
13092.46	7635.880	1	II	6.5	6.5				28784-15691
13093.42	7635.320	10C	I						
13093.72	7635.145	3C	I						
13094.83	7634.499	0	II						
13095.88	7633.890	1	I						
13096.34	7633.618	3	II						
13098.75	7632.214	1							
13100.37	7631.270	300	I					3	
13100.70	7631.079	0							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
13102.05	7630.291	0	II						
13102.87	7629.818	3	I						
13103.28	7629.575	100	I						
13104.56	7628.831	3	I	8.C	7.0				21899-35003
13104.88	7628.643	0	II						
13106.83	7627.513	1	I	7.C	6.0				14367-27474
13107.15	7627.322	0	I	8.C	7.0				33721-20614
13107.84	7626.925	1	II						
13108.42	7626.587	30	I						
13108.82	7626.351	1	I						
13111.09	7625.030	10	I						
13112.36	7624.290	10	II						
13113.64	7623.550	3	I						
13114.20	7623.223	1	II						
13115.05	7622.732	1	I						
13116.10	7622.120	0	I						
13117.71	7621.182	0	I						
13118.25	7620.869	10	I						
13118.85	7620.519	3	I						
13118.95	7620.461	1	I						
13119.87	7619.928	0	I						
13120.46	7619.587	0	II						
13122.32	7618.509	1	II						
13123.71	7617.702	1000	I			0.12	1.07	1	
13124.38	7617.309	3	I						
13124.96	7616.975	0	II						
13125.32	7616.764	1	I						
13126.27	7616.215	300	I					2	
13127.18	7615.683	0	II						
13128.54	7614.895	0	I						
13129.53	7614.322	10	I						
13129.81	7614.162	1	II						
13131.06	7613.433	3	II						
13131.65	7613.094	1	I	7.C	6.0				15194-28326
13132.29	7612.725	100	I					3	
13134.30	7611.555	1000	I			0.32	1.18	3	
13134.79	7611.273	1	I	7.C	8.0				23257-36392
13137.50	7609.702	100	I						
13138.41	7609.175	300	I						
13143.02	7606.506	30	I						
13143.47	7606.250	0	II						
13144.21	7605.819	3	II	8.C	7.0				16733-29877
13147.47	7603.934	1	II						
13147.83	7603.724	3	I	9.C	8.0				16693-29841
13148.24	7603.488	0	II						

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
13150.38	7602.251	1	II						
13151.42	7601.647	1	II						
13152.81	7600.846	1	I						
13153.66	7600.354	1	I						
13154.39	7599.936	1	I	8.0	8.0				21899-35053
13154.77	7599.712	1	I						
13156.55	7598.686	3	II						
13157.13	7598.350	C	II						
13157.52	7598.126	3	II						
13158.11	7597.782	0	I						
13159.13	7597.196	1	II	6.5	7.5				28111-14952
13159.76	7596.834	0							
13159.96	7596.714	3	II						
13160.72	7596.280	30	I					3	
13161.30	7595.941	C	I						
13162.22	7595.408	30	I						
13163.18	7594.859	300	I			1.15	1.15	4	
13163.87	7594.461	C		7.0	7.0				15194-28358
13164.93	7593.849	10	I						
13168.86	7591.584	100	I						
13169.34	7591.305	1000	I			0.193	1.186	3	
13170.27	7590.769	3	I						
13170.91	7590.400	1	I						
13171.38	7590.130	3	I						
13172.50	7589.483	1	I						
13173.37	7588.981	1	I						
13175.25	7587.902	3	II						
13175.36	7587.835	10	I						
13175.49	7587.764	100	I					3	
13176.28	7587.306	1	I						
13176.92	7586.937	C	I						
13177.46	7586.625	1	I						
13177.58	7586.559	0							
13179.65	7585.364	3	II						
13180.21	7585.046	1	I						
13180.73	7584.747	1	II						
13180.84	7584.684	C 1							
13180.93	7584.631	1	II						
13183.18	7583.334	10	I						
13184.02	7582.851	1	I						
13185.36	7582.082	1	I						
13186.51	7581.423	1	I						
13187.08	7581.091	C	I						
13188.03	7580.548	1	I						
13188.14	7580.483	1	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA					LEVELS OCC-EVEN
				J-C	J-E	G-C	G-E	TYPE	
13190.06	7579.378	0	II						
13191.67	7578.454	10	I						
13193.40	7577.462	300	II	7.5	6.5	1.27	1.35	1	28885-15691
13193.68	7577.301	3	I	6.0	6.0				11673-24867
13195.48	7576.265	0	I						
13195.97	7575.983	1	I						
13196.51	7575.674	0	I						
13197.35	7575.191	1	I						
13198.30	7574.647	0	I						
13200.08	7573.624	3	I						
13201.73	7572.678	1	I						
13202.58	7572.193	3	II						
13204.01	7571.370	1	I	7.0	6.0				22889-36093
13204.53	7571.076	0	I						
13205.37	7570.593	3	I						
13209.75	7568.080	1	I	8.0	8.0				23877-37087
13209.93	7567.981	1	I						
13210.06	7567.906	0	I						
13210.76	7567.504	0	I						
13211.03	7567.349	1	I						
13211.68	7566.979	100	I					3	
13214.01	7565.641	1	II						
13214.92	7565.118	30	II						
13215.04	7565.055	30	I	9.0	8.0				21838-35053
13215.70	7564.677	3	I						
13216.43	7564.258	100	I					3	
13216.89	7563.997	3	I						
13218.02	7563.346	1	I						
13218.69	7562.965	1000	II			0.17	1.05	1	
13219.44	7562.533	1	II						
13220.08	7562.171	1	II						
13220.65	7561.845	0	II						
13221.34	7561.446	1	I						
13222.80	7560.613	1	I						
13223.22	7560.373	3	II						
13223.52	7560.202	3	I						
13224.25	7559.782	3000	I	8.0	8.0	1.36	1.32	3	7565-20789
13225.56	7559.036	30	I	6.0	6.0				11673-24899
13227.63	7557.852	300	I	9.0	9.0	1.34	1.38	3	9990-23218
13227.74	7557.786	30	I			1.22	1.22	4	
13229.77	7556.631	1							
13229.89	7556.563	0							
13236.13	7553.000	1000	I			0.03	1.19	1	
13243.29	7548.916	1							
13243.68	7548.693	30	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA				LEVELS	
				J-C	J-E	G-C	G-E	TYPE	OCC-EVEN
13244.34	7548.319	1							
13244.54	7548.204	1							
13245.12	7547.873	3	II						
13246.84	7546.891	1							
13248.55	7545.916	1C	I						
13249.63	7545.303	1	II						
13250.18	7544.992	1C	I						
13251.07	7544.483	3C	I						
13252.40	7543.729	10000	I	9.C	8.0	1.25	1.26	1	17727-30979
13252.79	7543.504	10C							
13254.46	7542.556	C							
13255.14	7542.165	30	I						
13255.46	7541.987	10	I						
13256.13	7541.604	1							
13256.35	7541.476	1	I	9.C	10.0				13495-26752
13257.87	7540.612	C							
13258.14	7540.458	1	I						
13258.35	7540.340	1	I						
13259.22	7539.847	1C	I						
13259.53	7539.671	1	II						
13260.85	7538.921	3C	I						
13261.13	7538.760	0							
13261.81	7538.371	1	I						
13263.77	7537.262	1							
13264.73	7536.715	3	I	8.C	7.0				24999-38264
13268.90	7534.343	3	II						
13270.04	7533.698	30	I						
13270.99	7533.160	1000	I					A	
13271.14	7533.073	100	I	8.C	8.0				14625-27896
13271.86	7532.666	100	I						
13274.17	7531.352	3C	I						
13274.51	7531.162	C							
13275.27	7530.728	C	II						
13275.45	7530.627	C	II						
13277.27	7529.595	1	I						
13279.19	7528.506	C	II						
13280.70	7527.651	1	I						
13282.09	7526.862	0	II						
13283.20	7526.234	0							
13283.58	7526.017	C							
13284.30	7525.609	1	I						
13286.00	7524.650	1	II	6.C	7.0				16591-29877
13287.39	7523.863	3	II						
13288.04	7523.495	1							
13288.29	7523.351	10	I						

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA		TYPE	LEVELS
						G-C	G-E		CCC-EVEN
13289.47	7522.684	30	I						
13289.80	7522.498	1							
13290.74	7521.965	1	II						
13291.63	7521.459	300	I	7.0	8.0				17687-30979
13292.32	7521.068	1	I						
13295.15	7519.469	10	I						
13298.79	7517.413	0	I						
13299.39	7517.072	0							
13300.20	7516.613	300	II	8.5	7.5			A	28252-14952
13300.79	7516.282	1	I						
13302.95	7515.059	3	I						
13303.35	7514.832	0							
13303.62	7514.679	0							
13304.52	7514.175	0		6.0	7.0				21699-35003
13305.00	7513.903	1	II						
13306.71	7512.939	3							
13307.34	7512.580	10	I						
13307.96	7512.229	0							
13308.12	7512.138	1	I						
13308.92	7511.688	3	I						
13309.41	7511.414	0	II						
13310.50	7510.795	1	II						
13311.64	7510.155	10	I						
13312.63	7509.596	100	I	5.0	5.0			3	22524- 9211
13313.50	7509.107	1	II						
13314.58	7508.496	1	I						
13315.32	7508.079	0							
13315.64	7507.900	0							
13316.64	7507.337	0	I						
13318.16	7506.475	10	I						
13320.84	7504.967	0	I						
13321.29	7504.716	10	I						
13321.93	7504.356	1	II						
13322.78	7503.872	100	I						
13323.21	7503.631	1							
									CG = 0.234 A
13323.81	7503.296	3	I	4.0	5.0				22535- 9211
13324.57	7502.865	3	II						
13326.41	7501.830	0	I						
13328.83	7500.469	0	I						
13329.74	7499.956	3	I						
13330.02	7499.799	0							
13330.33	7499.624	3	I						
13332.68	7498.301	1							
13334.04	7497.540	10	I						
13334.33	7497.378	30	I	8.0	7.0				23877-37212

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA		LEVELS ODD-EVEN
				J-C	J-E	
13334.33	7497.378	30	I	8.C	7.0	14625-27959
13334.64	7497.202	0				
13336.27	7496.285	0				
13336.45	7496.184	3	I			
13336.85	7495.957	0				
13338.47	7495.045	10	I			
13338.86	7494.828	1	II			
13339.46	7494.492	1	I			
13340.74	7493.771	30	I			
13342.76	7492.638	0	II			
13343.68	7492.120	3	I			
13345.65	7491.013	3	I			
13346.05	7490.790	30	I			
13346.23	7490.687	0	II			
13346.61	7490.478	3	I			
13346.73	7490.411	0				
13348.36	7489.492	0	I			
13349.95	7488.605	0		8.C	8.0	21899-35249
13350.28	7488.416	0	I			
13351.82	7487.551	10	I			
13351.95	7487.479	3	II			
13355.14	7485.690	3	I			
13355.75	7485.348	3	I			
13356.27	7485.059	1	I			
13357.11	7484.585	1	I			
13357.47	7484.386	1	II			
13358.67	7483.713	0	I			
13358.86	7483.608	0	I	8.C	9.0	27851-41210
13359.90	7483.027	1000	I			2
13361.06	7482.375	1	I			
13362.00	7481.851	0	I			
13364.42	7480.495	1	II			
13365.39	7479.949	0	I			
13367.01	7479.043	0	I			
13368.75	7478.071	1	II			
13369.17	7477.835	1	I			
13370.71	7476.976	0				
13371.98	7476.264	1	I			
13372.07	7476.213	0	I			
13372.85	7475.778	0	I			
13375.77	7474.145	10	I			
13377.42	7473.226	0				
13379.76	7471.917	1				
13380.02	7471.771	0		8.C	7.0	23832-37212
13381.43	7470.986	1	I			

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
13381.59	7470.893	1							
13382.65	7470.306	0							
13383.91	7469.598	0							
13384.52	7469.261	3		9.0	8.0				14512-27896
13388.00	7467.320	10	I	4.C	5.0				22599- 9211
13392.33	7464.904	10	I	8.C	9.0				27817-41210
13392.94	7464.564	0	II						
13393.66	7464.161	0	II						
13393.90	7464.028	1	I						
13394.69	7463.591	0	I						
13395.89	7462.919	0	II						
13396.93	7462.341	0	I						
13397.26	7462.158	0							
13397.97	7461.759	30	I						
13398.86	7461.267	1	I						
13400.25	7460.493	1	I						
13401.16	7459.988	1000	I						
13404.38	7458.194	1	I						
13404.97	7457.864	30	I						
13406.44	7457.047	1000	II			0.305	1.265	3	
13407.39	7456.519	0	I						
13408.62	7455.837	0							
13408.91	7455.674	0							
13409.12	7455.558	10	I						
13410.56	7454.759	3	I	9.C	8.0				21838-35249
13410.86	7454.588	0							
13411.82	7454.058	3	I	8.C	8.0				20341-33753
13412.56	7453.646	0							
13414.86	7452.369	0	I						
13415.37	7452.084	0							
13415.88	7451.802	10	I						
13416.43	7451.498	0							
13417.12	7451.115	100	II	7.5	6.5				29109-15691
13417.97	7450.641	10	I						
13418.24	7450.489	1	I	8.C	7.0				23877-37295
13420.02	7449.502	1	I						
13420.78	7449.081	0	II						
13421.58	7448.636	1	II						
13421.85	7448.485	0							
13423.94	7447.327	1	I						
13425.11	7446.679	1	II						
13425.55	7446.432	0							
13426.04	7446.160	0							
13426.59	7445.854	1	I						
13427.83	7445.169	0							

TABLE

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	GCC-EVEN
13430.03	7443.951	0							
13430.46	7443.712	1							
13434.79	7441.315	1	I	7.C	6.0				20485- 7050
13435.27	7441.045	1	I						
13435.99	7440.647	1							
13436.14	7440.565	3	I						
13436.85	7440.169	0	I	7.C	7.0				17687-31124
13441.69	7437.493	10	I						
13443.36	7436.568	1	II						
13445.80	7435.219	1	I						
13446.26	7434.963	3	I						
13449.10	7433.994	1							
13449.56	7433.139	3	I						
13449.94	7432.932	1	I						
13452.20	7431.680	1	I						
13453.00	7431.238	0	I						
13453.42	7431.005	0							
13453.92	7430.731	1	I						
13454.30	7430.522	C							
13454.99	7430.139	C							
13456.39	7429.370	10	I						
13457.35	7428.839	C	II						
13457.89	7428.538	10C	I						
13458.70	7428.092	1							
13459.07	7427.889	30C	I					3	
13459.68	7427.553	10	II						
13460.02	7427.361	1	I						
13460.93	7426.863	1000	II			0.095	1.555	1	
13461.49	7426.555	10	I						
13462.14	7426.193	30	I						
13463.91	7425.219	10	I	8.C	7.0				23832-37295
13464.41	7424.943	C							
13465.21	7424.503	C	II						
13467.30	7423.346	C	I						
13468.73	7422.561	10	I						
13469.53	7422.121	3	I						
13470.41	7421.633	3	I						
13471.49	7421.039	3	I						
13472.47	7420.503	1	I						
13473.68	7419.834	C							
13475.29	7418.945	3	I	6.C	7.0				18561-32036
13475.47	7418.847	C	II	7.C	7.0				23736-37212
13476.41	7418.328	0	I						
13477.19	7417.903	1	I						
13480.16	7416.264	1	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
13480.44	7416.114	1	II						
13481.64	7415.453	3	II						
13482.25	7415.116	0							
13483.73	7414.303	1	II						
13484.68	7413.778	C	II	8.C	9.0				18291-31775
13485.36	7413.405	0	I						
13487.25	7412.369	300C	I			0.37	1.57	2	
13488.40	7411.739	1	II						
13491.85	7409.842	3	I						
13492.C9	7409.708	3	I						
13492.69	7409.381	10	I	9.C	9.0				15972-29465
13495.41	7407.886	1	II						
13495.94	7407.595	3000	I	9.0	8.0	1.23	1.24	1	13495- 0
13501.49	7404.550	C							
13502.46	7404.016	30C	I	6.C	7.0			A	10080-23501
13503.96	7403.194	30	II	6.5	7.5				28456-14952
13504.13	7403.103	300	I	6.C	6.0	1.11	*1.073	3	20554- 7050
13504.23	7403.047	30							
13506.41	7401.853	30	I						
13506.85	7401.610	0	I						
13507.32	7401.356	1	II						
13507.84	7401.069	3	I						
13507.91	7401.030	1							
13508.59	7400.660	30	I						
13509.28	7400.283	1	II						
13512.94	7390.276	0	I						
13518.99	7394.964	1	I						
13519.34	7394.773	1	I						
13520.49	7394.146	1	I						
13520.73	7394.014	0		8.C	8.0				23877-37398
13525.24	7391.547	10	I	7.C	7.0				18857-32382
13525.93	7391.172	3	I						
13528.41	7389.815	0	II						
13528.69	7389.664	1	I						
13528.98	7389.507	1	I						
13529.59	7389.171	1	I						
13531.43	7388.166	3	I	7.C	8.0				15439-28971
13531.89	7387.918	0							
13532.03	7387.837	1	II						
13533.04	7387.287	0	II						
13533.72	7386.914	0	I						
13534.22	7386.646	0							
13535.06	7386.184	3	II						
13536.43	7385.439	0							
13540.43	7383.258	1	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
13541.49	7382.678	1	I						
13542.81	7381.959	3	I						
13543.53	7381.566	100C	I	9.C	8.0	1.33	1.32	2	9990-23534
13544.82	7380.865	1	II						
13545.62	7380.429	1	I	7.0	7.0				24906-38452
13546.10	7380.167	0							
13548.00	7379.130	1							
13548.55	7378.831	3	I						
13548.78	7378.707	1	I						
13549.91	7378.088	1	II						
13550.60	7377.715	1	I						
13550.94	7377.530	C	II						
13551.64	7377.146	C	I						
13552.95	7376.435	3	I						
13553.68	7376.038	3000	I	7.0	7.0	1.16	1.173	3	17687- 4134
13559.33	7372.966	C		7.0	7.0				23736-37295
13559.72	7372.754	30	I						
13560.97	7372.075	1	II						
13562.14	7371.435	C							
13563.96	7370.447	30	I	9.0	8.0				13495-27059
13564.35	7370.234	100	II					3	
13564.99	7369.889	1							
13565.68	7369.514	1							
13566.14	7369.263	0	II						
13566.54	7369.045	100	I	5.0	4.0	0.86	*0.618	2	24491-10925
13567.42	7368.566	3	I						
13568.91	7367.761	0	II						
13569.27	7367.563	10	I						
13570.91	7366.675	1	I						
13571.59	7366.303	0		7.0	8.0				10057 32420
13571.96	7366.103	1	I						
13572.39	7365.868	C	II						
13576.59	7363.590	1	I						
13577.40	7363.152	1	I						
13578.09	7362.779	3	II						
13578.90	7362.341	1	I						
13579.44	7362.047	C							
13580.30	7361.578	10	II					4	
13580.94	7361.231	C	II						
13581.52	7360.920	0	I						
13582.81	7360.221	3	I						
13585.59	7358.711	C							
13587.80	7357.515	0							
13588.12	7357.345	C							
13588.34	7357.225	0	II						

TABLE

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-F	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
13588.63	7357.065	30	I						
13590.79	7355.895	1	I						
13591.39	7355.574	1	II						
13592.18	7355.143	1	I	7.C	7.0				14367-27959
13593.03	7354.688	0							
13593.46	7354.454	1	I						
13593.57	7354.394	30	II					3	
13593.71	7354.317	1							
13595.07	7353.582	300				0.31		3	
13595.69	7353.248	C	II						
13598.14	7351.924	1	I						
13599.79	7351.031	1							
13600.82	7350.475	1	I						
13602.36	7349.643	3	II						
13602.53	7349.547	3	II						
13602.69	7349.462	1	I						
13603.27	7349.147	10	I						
13603.84	7348.841	1	I						
13606.64	7347.327	1	II						
13606.97	7347.153	3	I						
13608.09	7346.547	C	II						
13610.56	7345.213	30							
13610.71	7345.132	1000	II			0.236	1.019	1	
13611.68	7344.606	1	II						
13612.49	7344.173	0	I						
13613.55	7343.601	C							
13613.75	7343.489	C	I						
13614.26	7343.217	1	II						
13615.27	7342.672	0							
13615.71	7342.434	0							
13615.96	7342.301	30	I						
13617.40	7341.525	1	I						
13618.23	7341.077	100	I						
13620.08	7340.081	10	I	7.C	6.0				14367-27987
13620.69	7339.750	3	II						
13623.79	7338.080	3	I						
13624.30	7337.805	C							
13624.95	7337.454	3	I						
13626.01	7336.886	10	I						
13627.20	7336.242	3	I						
13628.93	7335.314	0							
13630.33	7334.559	0	I						
13632.14	7333.583	0							
13632.46	7333.414	1	I						
13633.24	7332.991	1							

TABLE

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WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA		G-C	G-E	TYPE	LEVELS CCC-EVEN
				J-C	J-E				
13633.68	7332.758	10	I						
13634.50	7332.315	1	I						
13637.42	7330.745	0	II						
13643.95	7327.236	1	I						
13644.68	7326.843	3	II						
13645.10	7326.618	0	II						
13647.75	7325.197	0	II						
13648.34	7324.877	10	II						
13649.41	7324.304	1		8.0	8.0				23877-37527
13649.62	7324.195	3	I						
13651.44	7323.215	0	I						
13652.17	7322.823	3	I	8.0	7.0				18021-31674
13653.21	7322.269	1	I						
13654.20	7321.735	10	I	7.0	7.0				15858-29512
13654.40	7321.630	0	II						
13655.06	7321.277	0							
13655.43	7321.077	0	I						
13655.81	7320.873	1	I						
13659.86	7318.704	0	II						
13660.09	7318.582	0	I						
13660.30	7318.467	1	I	5.0	6.0				19813-33474
13660.85	7318.170	1	II						
13661.55	7317.797	1	I						
13662.52	7317.280	0	II						
13664.70	7316.109	1	II						
13667.32	7314.707	3	II						
13667.76	7314.473	0							
13668.19	7314.240	0	II						
13668.92	7313.852	3	I						
13669.76	7313.405	3	I						
13670.36	7313.079	1	I						
13670.87	7312.807	1	I	8.0	9.0				19092-32763
13670.87	7312.807	B		6.5	6.5				21134- 7463
13671.75	7312.340	0	I						
13673.03	7311.655	1	II						
13673.46	7311.425	1	I						
13674.69	7310.767	1	I						
13676.53	7309.780	0							
13678.04	7308.976	1	II						
13680.80	7307.501	0							
13681.02	7307.381	1	I						
13681.44	7307.159	0	II						
13683.07	7306.291	1							
13684.40	7305.580	0							
13684.73	7305.402	1	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
13684.92	7305.302	1								
13685.54	7304.970	0	II							
13686.40	7304.509	C	I							
13686.95	7304.218	1	I							
13687.38	7303.987	0	II							
13688.58	7303.348	1	I							
13689.02	7303.114	1	II							
13690.69	7302.224	3	I							
13691.56	7301.760	C	II							
13692.09	7301.475	1	I							
13694.34	7300.276	300	I	7.0	8.0				A	12655-26349
13695.02	7299.911	3	I							
13695.53	7299.638	C	II							
13696.76	7299.253	3	II							
13696.71	7299.012	1	II	7.0	7.0					18339-32036
13697.37	7298.662	1	I							
13697.72	7298.474	0								
13703.31	7295.496	1	II							
13705.20	7294.491	0	I							
13706.59	7293.750	1	II							
13707.39	7293.323	1	I							
13710.61	7291.613	300	I	6.0	7.0				A	10088-23799
13711.50	7291.140	1								
13711.67	7291.048	3	I	8.0	7.0					16733-30444
13713.20	7290.237	1	I							
13714.07	7289.774	10	I	8.0	9.0					23877-37591
13714.55	7289.518	30	I							
13715.67	7288.921	300	I	7.0	6.0				A	20766- 7050
13716.96	7288.239	100	II						A	
13719.45	7286.915	C	I	9.0	8.0					21529-35249
13720.03	7286.606	1	I							
13722.63	7285.224	10	I							
13723.95	7284.525	1	I	8.0	8.0					15567-29291
13724.54	7284.211	0	II							
13726.45	7283.196	30	I	4.0	5.0					22938- 9211
13730.92	7280.824	1	I							
13731.50	7280.520	0	I							
13732.00	7280.255	10	I							
13732.66	7279.905	300	I							
13733.03	7279.710	10	I	8.0	7.0					14625-28358
13733.56	7279.428	1								
13734.36	7279.003	3	I	9.0	10.0					15972-29706
13734.52	7278.918	3	II							
13735.13	7278.597	3	I							
13737.56	7277.309	1	II							

TABLE

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
13738.05	7277.047	0							
13738.64	7276.737	0							
13738.94	7276.579	3	II						
13739.84	7276.098	0	II						
13740.96	7275.508	3	I						
13741.83	7275.049	1	II						
13742.37	7274.761	1	I	9.0	9.0				15972-29714
13743.34	7274.249	30	I	8.0	8.0				22564-36308
13743.52	7274.151	3		7.0	7.0				24708-38452
13743.91	7273.948	10	II						
13744.61	7273.573	100	II	7.5	6.5			A	29436-15691
13745.24	7273.240	100	I						
13747.87	7271.848	10	II						
13748.72	7271.402	10	I						
13749.42	7271.032	0	I						
13751.34	7270.014	0	I						
13752.23	7269.543	0	II						
13752.56	7269.371	0	II						
13753.02	7269.126	1	I						
13754.21	7268.498	1	I						
13755.07	7268.046	0							
13758.26	7266.361	0	II						
13759.15	7265.889	3	II						
13759.74	7265.576	3	I	8.0	9.0				23832-37591
13760.78	7265.030	0	I						
13761.71	7264.538	0	II						
13762.48	7264.130	1	I						
13763.49	7263.599	1	I						
13764.97	7262.814	0	II						
13765.31	7262.639	0	II						
13767.01	7261.738	1000	I	6.0	6.0	1.13	1.07	3	20817- 7050
13767.83	7261.307	0							
13768.20	7261.111	0							
13769.97	7260.180	10	I						
13770.96	7259.658	0							
13772.08	7259.068	0		7.0	6.0				20822- 7050
13773.04	7258.562	30	I						
13773.71	7258.210	3	I						
13775.66	7257.183	1	II						
13776.57	7256.703	1	I	7.0	8.0				15194-28971
13777.68	7256.115	1	I						
13778.06	7255.915	0							
13779.21	7255.313	0							
13780.56	7254.601	1	I						
13782.84	7253.399	1	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
13833.80	7226.678	0	I						
13834.40	7226.366	3	I						
13835.54	7225.772	0	I						
13836.99	7225.014	1							
13838.59	7224.178	0							
13840.18	7223.350	0							
13841.04	7222.901	300	I				0G = 0.260	A	
13841.77	7222.520	100	I						
13842.75	7222.010	10	I						
13843.43	7221.650	3	I						
13844.83	7220.921	10	I	8.0	8.0				23832-37676
13845.09	7220.788	10	I						
13847.14	7219.716	1	I						
13848.62	7218.946	0	II						
13849.39	7218.543	1	I						
13850.36	7218.038	1	II						
13850.93	7217.744	30	I						
13851.04	7217.685	1							
13851.80	7217.287	0	I						
13852.26	7217.048	1	I						
13852.87	7216.730	0							
13854.15	7216.064	30	I						
13854.39	7215.940	30	I						
13855.21	7215.513	100	I					4	
13856.09	7215.056	0	I	9.0	10.0				21529-35385
13857.18	7214.486	0							
13857.77	7214.181	0	II						
13858.31	7213.899	1							
13858.63	7213.734	30	I						
13859.51	7213.274	1000	I	10.0	10.0	1.29	1.36	3	12892-26752
13861.05	7212.474	0							
13862.22	7211.862	1	I						
13862.96	7211.481	0	I						
13863.34	7211.284	1	II	5.5	4.5				27990-14126
13863.73	7211.076	0	II						
13865.29	7210.265	1	II						
13866.95	7209.404	3	II	8.5	7.5				28819-14952
13866.95	7209.404			8.0	8.0				16733-30600
13869.37	7208.147	3	I	9.0	8.0				15972-29841
13870.95	7207.328	1000	I	5.0	6.0	1.30	*1.073	1	20921- 7050
13872.02	7206.767	300	I	8.0	7.0			1	12007-25879
13872.96	7206.279	0							
13873.59	7205.952	0		8.0	7.0				23877-37751
13876.29	7204.551	0							
13876.87	7204.248	3	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	ZFEMAN DATA		LEVELS	
				J-C	J-E	G-C	G-E
13878.45	7203.431	0	II				
13879.98	7202.634	1	I				
13880.42	7202.410	0	I				
13883.53	7200.793	1	I				
13884.00	7200.552	1	I				
13884.55	7200.266	0		6.0	6.0		16591-30475
13886.60	7199.201	1	I				
13887.66	7198.653	100	I	8.0	7.0		18021- 4134
13890.16	7197.355	1	I				
13891.41	7196.709	1	II				
13892.75	7196.017	0	I				
13895.04	7194.830	300	I	9.0	9.0	3	13495-27390
13895.28	7194.705	1		8.0	9.0		20792-34689
13896.47	7194.090	1	I				
13897.66	7193.475	0		8.0	9.0		15567-29465
13899.24	7192.657	100	I				
13901.23	7191.626	0					
13902.48	7190.979	3	I				
13903.55	7190.423	3	I	7.0	6.0		20954- 7050
13904.22	7190.080	10	I				
13905.85	7189.235	1	I				
13906.25	7189.031	1	I	9.0	8.0		16693-30600
13908.63	7187.798	3	I				
13909.57	7187.312	10	I				
13910.05	7187.063	3	I				
13910.66	7186.744	3	I	7.0	8.0		20766-34676
13911.22	7186.461	0					
13911.96	7186.079	1					
13912.35	7185.876	0	I				
13912.94	7185.574	1	I				
13913.92	7185.064	3	I	8.0	8.0		14625-28539
13914.97	7184.523	1	II				
13915.25	7184.380	0	I	8.0	9.0		18291-32206
13915.79	7184.102	3	I				
13916.79	7183.586	0	II				
13918.13	7182.895	0	II				
13918.61	7182.648	1	II				
13919.30	7182.291	1	I	5.0	5.0		23130- 9211
13919.92	7181.970	1	I				
13920.47	7181.685	0					
13921.08	7181.372	10	I				
13922.38	7180.699	0					
13922.75	7180.509	0					
13927.14	7178.245	3	I				
13928.02	7177.791	3	I				

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	OCC-EVEN	
13929.00	7177.288	1								
13930.10	7176.723	C	I							
13933.23	7175.107	300	II	7.5	7.5	1.26	*1.29	3	28885-14952	
13937.93	7172.690	1	II							
13938.69	7172.299	3	I							
13938.95	7172.166	3	I							
13940.31	7171.465	C		7.0	8.0				23736-37676	
13940.75	7171.238	C	II							
13942.23	7170.478	1	I							
13943.14	7170.008	1	II							
13943.82	7169.659	3	I							
13944.42	7169.353	1								
13945.66	7168.712	1	I							
13947.20	7167.923	C	I							
13948.50	7167.253	1	I	7.0	7.0				18433-32382	
13949.61	7166.681	1								
13949.96	7166.502	100	I	9.0	8.0			A	13495-27445	
13950.87	7166.038	1	II							
13953.05	7164.915	1	I							
13954.77	7164.036	C	I	7.0	7.0				23257-37212	
13955.29	7163.767	C								
13956.59	7163.100	3	I							
13958.64	7162.046	30	I	7.0	6.0				14367-28326	
13964.11	7159.241	3	I	8.0	8.0				23877-37841	
13964.76	7158.910	1	II							
13965.09	7158.742	10	I							
13966.28	7158.130	C	I							
13967.90	7157.300	3	I							
13969.50	7156.478	300	I					A		
13970.75	7155.839	1	I							
13971.06	7155.682	C								
13972.72	7154.832	C	II							
13973.62	7154.368	1								
13974.07	7154.141	3	I							
13977.98	7152.136	1	I							
13978.84	7151.699	C								
13981.61	7150.282	C	II							
13983.53	7149.302	10	II							
13986.13	7147.969	3	I	7.0	7.0				17687-31674	
13987.54	7147.251	1	I							
13988.82	7146.598	C	II							
13991.81	7145.066	3	II							
13992.83	7144.546	C	II							
13993.86	7144.023	C	I							
13994.87	7143.504	3	I	7.0	8.0				18433-32428	

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS OCC-EVEN
						G-C	G-E	TYPE	
13995.31	7143.280	C							
13995.91	7142.974	C							
13996.30	7142.776	C	II						
13997.86	7141.978	C							
13998.77	7141.515	1C	II						
13999.36	7141.216	1C	I						
14002.12	7139.809	1	II						
14003.42	7139.146	C							
14006.00	7137.788	3C	I						
14006.61	7137.521	3C	I						
14007.49	7137.072	1	I						
14008.75	7136.427	C							
14009.45	7136.073	C							
14009.79	7135.896	3	I	8.C	8.0				23832-37841
14010.71	7135.430	C							
14010.98	7135.291	C							
14011.31	7135.125	1							
14012.23	7134.658	1							
14012.99	7134.267	C	II						
14013.95	7133.780	1	I						
14014.63	7133.436	1		8.C	7.0				18021-32036
14014.73	7133.381	10	I	7.0	7.0				23736-37751
14015.56	7132.959	3	I	9.C	9.0				27014-41029
14016.31	7132.577	10	I	6.C	7.0				42375-28358
14017.87	7131.787	C							
14018.69	7131.367	1							
14019.79	7130.807	C							
14021.98	7129.694	30	I						
14024.55	7128.388	10	I						
14025.74	7127.784	C							
14026.28	7127.509	1	II						
14028.76	7126.251	1	I						
14029.42	7125.913	C	I						
14030.50	7125.363	3	I	6.C	7.0				16591-30621
14031.86	7124.677	C							
14032.65	7124.276	C	II						
14033.09	7124.049	C							
14034.61	7123.281	C							
14037.34	7121.895	3	II						
14037.48	7121.823	C	I						
14038.64	7121.232	3000	I	6.C	7.0	1.340	1.171	1	18172- 4134
14039.47	7120.810	300	II						
14042.95	7119.047	C							
14043.45	7118.796	1							
14044.46	7118.282	C							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA		TYPE	LEVELS
						G-C	G-E		CCC-EVEN
14045.94	7117.531	1	I	9.0	8.0				16693-30739
14046.94	7117.028	C							
14048.39	7116.289	1C	II						
14049.58	7115.687	1	I	7.0	7.0				20954-35003
14051.51	7114.710	0	II						
14053.14	7113.884	1	I						
14054.78	7113.054	1	I						
14056.16	7112.357	1	I						
14058.87	7110.987	1	I						
14060.66	7110.079	1							
14061.91	7109.451	1							
14062.29	7109.258	30C	II	8.5	7.5			1	29014-14952
14065.47	7107.650	1	II						
14066.05	7107.357	3	I						
14066.75	7107.005	3	II						
14069.47	7105.628	C	I	7.0	6.0				21675-35744
14070.19	7105.267	C							
14073.27	7103.712	C							
14073.66	7103.516	1	I						
14076.77	7101.946	C	I						
14077.33	7101.663	30	II	6.5	6.5				29769-15691
14079.55	7100.542	1C	II						
14081.17	7099.725	1	I						
14082.25	7099.180	1	I						
14083.01	7098.800	0	II						
14083.16	7098.721	C	II						
14083.79	7098.406	C							
14084.47	7098.060	C	II						
14085.01	7097.791	3	I	8.0	8.0				18343-32428
14085.23	7097.679	1							
14085.60	7097.491	C							
14087.06	7096.757	C	II						
14088.75	7095.906	1							
14088.84	7095.858	3	I	7.0	8.0				18339-32428
14089.26	7095.649	1C	I						
14090.60	7094.971	C	II						
14090.87	7094.840	0							
14093.14	7093.695	1	I	9.0	8.0				17727 31020
14097.04	7091.733	1C	I						
14099.40	7090.544	1							
14099.99	7090.250	C							
14100.21	7090.138	3	I	9.0	8.0				21838-35938
14100.72	7089.881	0							
14101.81	7089.332	0		9.0	9.0				21838-35940
14105.28	7087.590	C		7.0	8.0				23736-37841

TABLE

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
14106.28	7087.085	C							
14107.96	7086.245	1	I						
14109.21	7085.617	0	I						
14110.44	7084.998	1C	I						
14110.9C	7084.768	1							
14111.10	7084.666	3	I						
14111.68	7084.373	C							
14111.97	7084.228	C							
14112.34	7084.043	C	I						
14114.82	7082.800	C							
14115.06	7082.680	0							
14115.92	7082.247	1	I						
14116.23	7082.090	1	II						
14117.58	7081.414	C	II						
14120.31	7080.043	1	I						
14121.08	7079.661	3	I	7.0	8.0				18433-32554
14121.36	7079.520	C	II						
14122.49	7078.951	3	I						
14122.99	7078.699	C	II						
14123.37	7078.511	1							
14124.72	7077.825	1							
14125.10	7077.644	C	II						
14127.59	7076.399	3	I						
14128.16	7076.109	1		7.0	7.0				23479-37607
14128.86	7075.761	3	II						
14129.78	7075.297	3							
14130.10	7075.139	100C	II			0.195	1.057	1	
14130.29	7075.045	1							
14131.01	7074.683	1							
14133.01	7073.683	1	II						
14134.30	7073.036	1C	I						
14137.13	7071.620	C							
14138.15	7071.111	C	II						
14139.33	7070.520	C							
14141.75	7069.313	C							
14142.78	7068.794	1	II						
14143.64	7068.366	1	I						
14144.70	7067.840	0	II						
14145.10	7067.636	0							
14145.46	7067.455	C							
14146.65	7066.863	1	I						
14147.08	7066.646	C	II						
14147.34	7066.520	1	I	8.0	9.0				15567-29714
14149.39	7065.494	1	II						
14151.91	7064.234	1	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS CCC-EVEN
						G-C	G-E	TYPE	
14152.61	7063.887	1	I						
14152.73	7063.827	1	I						
14153.77	7063.307	10	I						
14155.68	7062.354	10							
14155.80	7062.297	300	I					3	
14156.76	7061.814	10	I	8.0	7.0				18291- 4134
14156.76	7061.814	10	I						
14157.52	7061.437	C							
14158.08	7061.160	1	II						
14160.16	7060.123	1	I						
14161.04	7059.680	1	I						
14161.69	7059.356	C		6.0	7.0				18561-32722
14163.24	7058.584	1							
14166.30	7057.061	1	II						
14168.53	7055.952	1000	II			0.121	1.252	3	
14169.64	7055.398	0							
14170.02	7055.208	3	I						
14170.48	7054.978	C							
14171.15	7054.644	10	I						
14171.77	7054.338	30	I	7.0	8.0				14367-28539
14172.97	7053.738	30	I						
14173.30	7053.577	10	I						
14173.56	7053.447	10	I						
14176.39	7052.037	3	I						
14176.88	7051.792	3	I						
14178.18	7051.145	C	I						
14179.59	7050.448	C	I						
14180.13	7050.179	C	I						
14181.17	7049.660	1							
14181.60	7049.446	10	I						
14182.32	7049.089	C							
14182.62	7048.940	1							
14184.39	7048.061	10	I	8.0	9.0				18021-32206
14185.55	7047.485	10	II	6.5	6.5				29877-15691
14186.13	7047.195	C		6.0	7.0				20817-35003
14187.49	7046.522	C							
14187.64	7046.444	C	II						
14191.33	7044.614	1	I						
14191.84	7044.359	1	I						
14193.33	7043.622	100	I	7.0	7.0				12655-26848
14194.16	7043.211	C							
14194.36	7043.111	0							
14194.58	7043.002	C							
14195.06	7042.761	1	I						
14195.29	7042.647	1							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
14195.75	7042.418	0								
14197.86	7041.371	0								
14198.65	7040.980	1	I							
14199.27	7040.673	100	I							
14199.70	7040.459	10	I							
14200.39	7040.118	3	I							
14202.26	7039.194	10	I							
14204.33	7038.164	0	II							
14205.60	7037.535	1000	I	7.0	7.0	1.20	*1.175	3	18339-	4134
14207.41	7036.642	1	II							
14207.95	7036.375	100	I							
14208.86	7035.921	0	II							
14209.41	7035.649	1	I	8.0	7.0				18343-	4134
14209.41	7035.649	1	I	6.0	7.0				18172-	32382
14209.94	7035.388	0								
14211.08	7034.825	0								
14211.38	7034.675	10	I							
14212.04	7034.345	1	I							
14212.82	7033.962	10	I							
14214.39	7033.186	30	I							
14215.07	7032.849	0		7.0	8.0				18339-	32554
14215.66	7032.556	0								
14216.56	7032.111	1	I							
14218.40	7031.201	0	II							
14210.63	7031.000	0								
14218.95	7030.930	1								
14219.38	7030.716	0								
14222.56	7029.145	1	I							
14226.33	7027.283	30	I							
14227.33	7026.786	1	II							
14228.51	7026.203	0								
14228.86	7026.032	1		5.0	5.0				23440-	9211
14233.51	7023.737	0	I							
14234.43	7023.284	1	II							
14235.32	7022.842	1	I							
14236.83	7022.098	1	II							
14237.47	7021.783	30	I	7.0	7.0				20766-	35003
14239.25	7020.907	3	I							
14240.76	7020.164	1	I							
14241.73	7019.682	1		7.0	8.0				18433-	32675
14242.72	7019.196	10	I	7.0	7.0				16202-	30444
14244.59	7018.275	0	I							
14245.07	7018.035	1								
14246.33	7017.416	3000	I	8.0	8.0	1.20	1.26	3	16733-	30979
14246.99	7017.090	3	I							

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
14248.16	7016.514	C	I						
14248.86	7016.168	1							
14250.00	7015.608	3	I						
14251.97	7014.639	3	II						
14252.14	7014.554	1							
14252.43	7014.411	1		6.C	5.0				23464- 9211
14253.10	7014.082	3	I						
14256.72	7012.303	3	II						
14261.30	7010.049	1							
14261.71	7009.851	1	I						
14262.55	7009.437	10	I						
14264.48	7008.485	1		7.C	8.0				24708-38973
14265.09	7008.188	0							
14265.90	7007.789	0							
14266.40	7007.545	1	I						
14267.76	7006.878	1	I						
14269.40	7006.069	C	II						
14270.07	7005.740	C	II						
14270.55	7005.507	0							
14271.80	7004.894	10	I						
14272.80	7004.403	1	I						
14274.34	7003.645	0	I	8.C	8.0				15567-29841
14275.77	7002.947	0							
14276.20	7002.732	1	II						
14277.38	7002.153	C							
14278.56	7001.578	0	II						
14279.25	7001.240	C	I						
14279.74	7001.000	C							
14280.01	7000.868	1							
14281.70	7000.036	0	II						
14282.37	6999.710	C							
14283.32	6999.243	0	II						
14283.74	6999.035	30	I						
14284.41	6998.711	1	I						
14285.66	6998.095	10000	I	9.C	8.0	1.26	1.24	2	16693-30979
14286.89	6997.492	0							
14287.32	6997.286	1	I	7.C	8.0				20766-35053
14287.32	6997.286	1	I	6.C	7.0				23464-37751
14288.12	6996.890	1	I	6.C	6.0				21456-35744
14289.02	6996.450	1	II						
14289.16	6996.380	C							
14290.13	6995.906	0	II						
14290.50	6995.728	C	II						
14291.33	6995.322	3	I						
14292.16	6994.914	10	I						

TABLE

CY LINE LIST

PAGE 188

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS OCC-EVEN
						G-C	G-E	TYPE	
14292.88	6994.562	0							
14293.25	6994.380	C							
14293.73	6994.146	C	II						
14294.40	6993.820	I	I						
14295.05	6993.502	0							
14295.74	6993.160	30	I						
14296.91	6992.589	1	I						
14297.77	6992.168	1	II						
14297.93	6992.089	1							
14299.54	6991.304	3000	I	7.0	7.0	1.20	1.17	3	18433- 4134
14300.58	6990.796	1							
14301.98	6990.108	0	II						
14302.05	6990.077	0							
14304.83	6988.718	C							
14307.15	6987.583	1							
14307.85	6987.242	C	I						
14308.72	6986.821	0	II						
14309.49	6986.442	C	II						
14310.00	6986.191	30	I	8.0	7.0				15567-29877
14311.41	6985.506	30	I						
14313.75	6984.364	10	I	8.0	8.0				19092-33406
14315.81	6983.360	C							
14317.70	6982.435	300	I			0.37	1.64	2	
14319.28	6981.668	0	I						
14321.45	6980.610	C							
14322.07	6980.307	C							
14323.56	6979.580	C							
14323.79	6979.466	C							
14325.28	6978.740	1	I						
14325.99	6978.396	0							
14326.14	6978.323	C							
14326.57	6978.115	1	I						
14326.94	6977.932	3	II	7.5	7.5				29279-14952
14328.16	6977.340	1	II						
14332.07	6975.436	10							
14332.76	6975.100	C							
14333.13	6974.918	10							
14333.63	6974.677	1							
14334.99	6974.015	C							
14335.68	6973.680	1							
14335.85	6973.594	10	I	8.0	8.0				26868-41203
14336.03	6973.509	1		7.0	7.0				21783-36119
14337.34	6972.871	1							
14337.57	6972.760	C							
14338.91	6972.107	C							

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	OCC	EVEN
14339.14	6971.996	C								
14339.68	6971.733	C								
14341.06	6971.062	1C	I	5.0	5.0				23552-	9211
14341.49	6970.854	3								
14342.37	6970.427	100C	I	8.0	8.0			3	12007-	26349
14343.42	6969.915	C								
14344.81	6969.241	C								
14345.76	6968.778	1C	I	8.0	8.0				14625-	28971
14349.46	6966.984	3C	I							
14349.86	6966.787	C								
14351.20	6966.138	0	II							
14352.81	6965.354	0								
14353.09	6965.218	0								
14353.61	6964.968	C	II							
14355.71	6963.947	1	II							
14357.17	6963.241	3	I							
14357.73	6962.970	3	I	7.0	7.0				20485-	34843
14357.73	6962.970	3	I	7.0	8.0				26846-	41203
14358.52	6962.586	1	I							
14360.40	6961.674	1C	I	8.0	7.0				18021-	32382
14361.87	6960.959	C								
14362.27	6960.767	1								
14363.64	6960.104	0								
14364.50	6959.687	C	I							
14366.82	6958.563	1								
14367.36	6958.302	1								
14367.81	6958.084	1000C	I	7.0	8.0	1.27	1.24	1	14367-	0
14367.81	6958.084		I	6.0	6.0				21418-	7050
14368.75	6957.629	1								
14369.05	6957.483	100								
14369.86	6957.091	1	II							
14371.26	6956.414	3	I							
14371.78	6956.160	3	I							
14372.19	6955.962	C	I							
14372.77	6955.685	0								
14373.79	6955.188	C	II							
14374.05	6955.062	1	II							
14376.63	6953.815	1	I							
14377.23	6953.524	1								
14378.45	6952.933	3C	II							
14379.96	6952.203	1C	I							
14381.59	6951.417	300	I			0.13	1.21	3		
14382.70	6950.880	1								
14383.09	6950.691	1		7.0	7.0				18339-	32722
14383.94	6950.280	30C	II	8.5	7.5	1.27	1.28	1	29336-	14952

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
14435.42	6925.494	100	I						
14435.91	6925.261	30	I						
14437.72	6924.389	0							
14440.20	6923.204	0	II						
14440.95	6922.845	3	I						
14441.74	6922.465	0							
14442.75	6921.980	1	I						
14443.14	6921.791	1							
14444.20	6921.284	1	I	7.0	7.0				21675-36119
14447.57	6919.669	3	II						
14450.59	6918.222	0	II						
14451.03	6918.014	10	I						
14451.47	6917.801	3	II						
14451.75	6917.670	1							
14452.70	6917.213	0	II						
14453.27	6916.941	0	I						
14454.03	6916.578	0	I						
14455.69	6915.784	1	II						
14456.62	6915.340	3	I						
14459.41	6914.002	1	II						
14459.80	6913.818	0							
14462.19	6912.677	10	II						
14463.19	6912.198	100	II						
14463.91	6911.854	0							
14464.63	6911.507	0							
14465.13	6911.271	1	I						
14465.57	6911.060	0							
14466.98	6910.386	10	I						
14467.77	6910.009	0							
14469.56	6909.152	0		9.0	8.0				21838-36308
14470.12	6908.886	1							
14470.49	6908.712	3	I						
14471.10	6908.419	1							
14475.05	6906.534	300	II					3	
14475.24	6906.443	1000	I	4.0	5.0	0.767	0.916	2	23686- 9211
14476.28	6905.949	100	I	6.0	5.0				23687- 9211
14476.99	6905.606	10							
14480.20	6904.076	1							
14481.27	6903.566	1							
14481.60	6903.410	1							
14484.46	6902.046	10	II	7.5	7.5				29436-14952
14486.89	6900.891	3	I						
14487.29	6900.700	30	I	9.0	9.0				15972-30459
14487.29	6900.700	30	I	7.0	6.0				15194-29682
14488.26	6900.235	10	I						

TABLE

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	CCC-EVEN	
14488.67	6900.040	30	I							
14490.18	6899.321	1000	II			1.27	1.27	4		
14491.02	6898.923	100	I							
14493.02	6897.968	100	II			0.211	0.942	1		
14495.26	6896.905	3								
14496.13	6896.490	1	II							
14497.26	6895.953	10	I							
14498.19	6895.509	300	I	10.C	9.0				12892-27390	
14498.78	6895.228	10	I							
14500.28	6894.516	10	I							
14500.35	6894.483	C	I	5.C	5.0				23711- 9211	
14507.25	6891.205	1								
14508.35	6890.679	10	I							
14510.08	6889.859	3	I							
14510.51	6889.637	C	I							
14511.53	6889.170	C	II							
14512.24	6888.833	1000	I	9.C	8.0	1.28	1.25	2	14512-	0
14512.81	6888.565	30	I							
14513.47	6888.251	C	I							
14516.34	6886.891	0	I							
14516.51	6886.800	C	I							
14517.37	6886.399	100	I							
14518.34	6885.939	3	I	7.C	7.0				20485-35003	
14518.65	6885.795	1								
14519.25	6885.506	1	I							
14521.77	6884.315	1								
14522.82	6883.818	C								
14523.45	6883.518	0								
14523.72	6883.391	C	I							
14524.21	6883.155	1	I	8.C	8.0				23832-38356	
14525.10	6882.737	0								
14525.62	6882.490	1								
14525.99	6882.313	10	I							
14531.13	6879.877	C	I							
14531.97	6879.482	0								
14532.65	6879.157	3	I							
14532.96	6879.015	10	I	8.C	8.0				18021-32554	
14533.39	6878.811	C		6.C	7.0				16591-31124	
14537.23	6876.990	C								
14537.64	6876.798	0		7.C	8.0				16202-30739	
14537.99	6876.634	1	I							
14538.21	6876.529	0								
14538.74	6876.279	1								
14539.70	6875.823	3	I							
14541.18	6875.122	30	I							

TABLE

DY LINE LIST

PAGE 193

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
14541.56	6874.944	10	I						
14542.05	6874.714	0	I						
14542.28	6874.603	1	I						
14543.09	6874.220	0							
14544.33	6873.636	3	I						
14545.24	6873.205	1							
14545.63	6873.020	0							
14548.17	6871.819	0							
14548.96	6871.446	3	I	7.0	8.0				18857-33406
14549.23	6871.321	10	I						
14550.13	6870.893	30	I						
14552.15	6869.944	1	I						
14555.52	6868.352	0							
14556.03	6868.109	1	I						
14561.44	6865.558	0	I						
14566.03	6863.394	1	I	7.0	6.0				21616- 7050
14566.64	6863.107	1	I	8.0	9.0				23877-38444
14568.44	6862.261	0	II						
14569.26	6861.872	1	I						
14570.12	6861.470	3	I						
14571.66	6860.744	0	II						
14572.42	6860.386	0							
14574.77	6859.280	1	I						
14575.46	6858.954	1	I						
14576.07	6858.668	0	II						
14576.45	6858.489	1	I	6.0	7.0				23687-38264
14577.70	6857.902	10	I						
14577.77	6857.866	1	I						
14578.86	6857.356	3	I	6.0	7.0				22633-37212
14580.61	6856.533	10	I						
14580.77	6856.458	1000	I			0.28	1.29	3	
14582.23	6855.768	30	I						
14582.49	6855.647	0	I						
14582.85	6855.480	0	II						
14584.35	6854.771	1	I						
14586.47	6853.777	0	I						
14588.20	6852.965	10000 R	I	9.0	9.0	1.29	1.33	3	15972-30560
14589.28	6852.455	1							
14590.27	6851.992	300	I						
14590.76	6851.763	0	I						
14591.08	6851.613	0	II						
14592.80	6850.803	3	I						
14593.31	6850.565	10	I						
14594.30	6850.101	1	I						
14595.38	6849.593	1		6.5	6.5				30287-15691

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	GCC-EVEN
14598.09	6848.321	1							
14599.54	6847.643	0							
14603.55	6845.761	300	I					3	
14605.24	6844.970	C							
14605.38	6844.903	C	I						
14606.38	6844.436	0		5.5	4.5				26407-11801
14606.76	6844.256	1	I						
14607.85	6843.747	30	I						
14609.79	6842.024	0							
14609.97	6842.751	C							
14611.19	6842.182	0	I	7.0	8.0				20766-35377
14612.00	6841.802	1	I						
14612.20	6841.710	3	I						
14613.30	6841.191	3	I						
14616.78	6839.563	0	I						
14618.20	6838.902	0	I						
14619.56	6838.263	1							
14623.44	6836.450	0							
14624.70	6835.862	10	I	7.0	6.0				21675- 7050
14625.65	6835.418	1000C R	I	8.0	8.0	1.25	1.24	3	14625- 0
14627.06	6834.758	1							
14629.43	6833.652	30	I						
14629.76	6833.498	3	I						
14631.01	6832.914	1							
14631.39	6832.734	1							
14631.77	6832.559	1							
14633.83	6831.595	1							
14636.25	6830.468	0							
14637.85	6829.717	1							
14639.11	6829.130	3	I						
14640.79	6828.347	3	I						
14641.02	6828.242	1	I						
14643.53	6827.072	300	I					3	
14644.89	6826.437	C							
14646.85	6825.521	3	I	7.0	8.0				15194-29841
14648.61	6824.703	1	I	6.0	6.0				21699- 7050
14650.10	6824.007	1	I						
14651.93	6823.154	0	I						
14652.94	6822.687	C							
14653.24	6822.546	1							
14653.65	6822.354	1	I	8.0	8.0				18021-32675
14654.09	6821.780	1000	I					2	
14656.95	6820.820	1	I						
14657.13	6820.735	10	I						
14658.61	6820.047	0	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS CCC-EVEN
						G-C	G-E	TYPE	
14659.22	6819.761	0	I						
14659.34	6819.706	0	I						
14660.82	6819.017	3	I	8.0	8.0				19092-33753
14661.55	6818.680	1	II						
14662.57	6818.205	1000	I	9.0	9.0	1.23	1.33	3	13495-28158
14664.52	6817.299	C	II						
14665.66	6816.769	1	I	8.0	8.0				14625-29291
14667.26	6816.025	3	I						
14667.88	6815.738	1	I						
14668.75	6815.331	100	I						
14669.81	6814.839	10		6.5	6.5				30361-15691
14674.61	6812.609	C							
14676.40	6811.783	3	I						
14681.47	6809.425	C	I	6.5	5.5				28019-13338
14682.52	6808.939	1	I	7.0	7.0				15194-29877
14683.67	6808.409	1	I						
14684.79	6807.887	1	I						
14686.15	6807.259	3	I						
14689.85	6805.545	300	I						
14694.64	6803.323	10	I						
14695.20	6803.066	3	II						
14695.56	6802.899	3	I						
14695.85	6802.764	1	I						
14696.16	6802.623	0							
14699.20	6801.215	0	I						
14700.92	6800.419	1	I	8.0	7.0				18021-32722
14701.16	6800.306	0	I						
14701.80	6800.010	10	II						
14702.73	6799.579	1							
14703.60	6799.180	0							
14704.12	6798.937	1							
14705.68	6798.218	C	I						
14707.12	6797.552	3	I	7.5	6.5				30399-15691
14707.68	6797.294	1	I						
14711.48	6795.538	3	I						
14712.28	6795.167	3	I	8.0	8.0				20341-35053
14714.31	6794.229	300	I					3	
14715.47	6793.696	1							
14716.88	6793.044	C							
14719.95	6791.627	1	I						
14722.83	6790.298	300	I	7.0	7.0	1.335	*1.175	3	18857- 4134
14724.78	6789.398	C							
14725.10	6789.250	0							
14726.56	6788.577	C	I						
14726.98	6788.386	1	I						

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS ODD-EVEN
				J-O	J-E	G-C G-E TYPE	
14729.18	6787.370	300	I			0.91 0.91 4	
14732.80	6785.701	30	I	7.0	6.0		21783- 7050
14734.33	6785.000	C	I				
14734.40	6784.967	1	I				
14735.02	6784.679	0	I				
14735.27	6784.568	C					
14736.62	6783.942	3	I				
14736.97	6783.781	C	I				
14738.49	6783.082	10	I				
14739.02	6782.841	3	I				
14739.82	6782.471	10	I				
14739.90	6782.433	1	I				
14743.03	6780.997	3	I				
14743.53	6780.764	C	I				
14744.25	6780.433	C	I				
14744.92	6780.127	C					
14747.29	6779.034	C					
14747.91	6778.750	C	I				
14748.60	6778.435	1	I				
14750.31	6777.646	3					
14750.75	6777.446	0	I				
14751.21	6777.233	1	I				
14751.62	6777.044	100	I				
14751.91	6776.912	0	II				
14753.01	6776.407	3	I				
14754.46	6775.744	C					
14754.81	6775.579	3	I				
14755.60	6775.216	3	I				
14755.90	6775.078	10	I				
14756.97	6774.590	10	I				
14758.06	6774.088	10	I				
14761.24	6772.630	3	I				
14761.68	6772.428	1					
14762.20	6772.188	100	I				
14762.98	6771.831	1	I				
14763.50	6771.590	1	I				
14763.74	6771.484	0		7.0	8.0		20485-35249
14764.27	6771.239	C					
14765.06	6770.877	1	I				
14765.28	6770.774	1					
14767.43	6769.790	3	I	9.0	8.0		15972-30739
14768.34	6769.371	1	I				
14769.44	6768.868	1	I	7.0	8.0		19907-34676
14769.84	6768.687	1					
14770.39	6768.436	10	I				

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS GCC-EVEN
						G-C	G-E	TYPE	
14771.26	6768.037	10	I						
14772.18	6767.613	1	I						
14772.43	6767.499	3	I						
14773.42	6767.044	1	I						
14775.93	6765.894	3000						2	
14778.37	6764.778	100	I	6.C	6.0	1.36	1.34	3	10088-24867
14780.32	6763.887	C	I						
14780.84	6763.648	1							
14781.36	6763.411	1	I						
14783.74	6762.322	C							
14784.55	6761.952	1	I	7.C	7.C				23479-38264
14786.43	6761.091	1	I						
14787.12	6760.777	1	I						
14787.47	6760.616	0							
14788.59	6760.106	C							
14789.09	6759.877	1	I						
14789.68	6759.604	C	I						
14790.76	6759.113	30	I	7.C	8.0				12655-27445
14791.66	6758.700	C							
14792.12	6758.489	3	I						
14792.94	6758.118	0							
14794.02	6757.623	300	I			0.17	1.38	2	
14797.20	6756.173	1	I						
14799.12	6755.296	1							
14804.03	6753.052	3	I						
14804.63	6752.778	3	I						
14805.99	6752.161	0							
14807.26	6751.581	10	I						
14807.99	6751.246	C	I						
14809.25	6750.672	1							
14810.26	6750.212	300	I	6.C	6.0	1.36	1.36	4	10088-24899
14812.05	6749.396	0	I						
14812.99	6748.966	1	I						
14813.61	6748.686	3	I						
14815.27	6747.930	1000	I			0.29	1.205	3	
14817.16	6747.067	3	II	6.5	7.5				29769-14952
14818.81	6746.318	0	I						
14819.48	6746.013	1	I	7.C	6.0				12655-27474
14820.57	6745.517	1	I						
14822.22	6744.768	3	I						
14822.94	6744.439	100	I						
14823.86	6744.018	1	I						
14823.97	6743.971	C							
14824.61	6743.680	3	I						
14824.82	6743.556	1	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
14825.70	6743.184	1	I						
14826.10	6743.000	1							
14826.58	6742.783	10	I						
14827.70	6742.274	30	I	9.0	8.0				17727-32544
14828.70	6741.817	3	I						
14830.02	6741.219	10	I	7.0	7.0				38421-23591
14830.91	6740.814	0	I						
14831.66	6740.470	10	I						
14833.01	6739.860	10	I						
14835.85	6738.569	3	I						
14838.01	6737.587	1	I						
14838.60	6737.322	0	I						
14838.98	6737.148	1	I						
14839.39	6736.963	10	I	8.0	9.0				14625-29465
14840.09	6736.646	0	I						
14840.61	6736.409	0	I						
14841.36	6736.069	30	I	8.0	7.0				12007-26848
14842.84	6735.398	0	I						
14845.13	6734.359	1	I						
14846.31	6733.823	10	I						
14849.77	6732.252	1	I						
14853.01	6730.783	0	I						
14854.00	6730.337	0							
14854.57	6730.076	0							
14855.62	6729.603	0	I						
14860.00	6727.619	1	I						
14860.31	6727.476	1	I						
14861.62	6726.884	1							
14864.02	6725.798	0	I						
14866.26	6724.783	1							
14866.43	6724.706	100	I						
14866.93	6724.403	0	I	7.0	8.0				17687-32544
14867.68	6724.142	0	I						
14869.02	6723.536	0	I						
14869.23	6723.442	10	I						
14869.74	6723.210	3	I						
14870.34	6722.938	0	I						
14871.89	6722.238	3	I						
14873.07	6721.704	10	I						
14873.24	6721.628	0							
14874.00	6721.284	0	I						
14874.18	6721.204	0	I						
14875.51	6720.605	0							
14875.72	6720.507	0							
14875.93	6720.414	0							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
14876.37	6720.216	3	I						
14876.96	6719.949	1							
14877.14	6719.865	0							
14877.52	6719.697	1	I	7.C	8.0				18528-33406
14877.52	6719.697	1	I	8.C	7.0				15567-30444
14878.15	6719.411	1	I						
14878.61	6719.203	C	I	8.C	9.0				20341-35219
14879.25	6718.913	0	I						
14880.68	6718.266	10	I						
14881.06	6718.097	0							
14883.41	6717.035	C							
14885.26	6716.200	1	I						
14886.59	6715.599	1	I						
14889.71	6714.193	0	I						
14891.28	6713.488	1	I						
14892.01	6713.157	30	I						
14892.26	6713.046	100	I	8.C	9.0				15567-30459
14892.67	6712.857	0	I						
14895.06	6711.783	1	I						
14895.54	6711.567	10	I						
14895.78	6711.458	1	I						
14896.38	6711.187	C							
14900.08	6709.519	0	I						
14900.93	6709.140	C	I						
14901.22	6709.008	0	I						
14902.38	6708.484	3	I						
14904.49	6707.536	1							
14905.08	6707.272	0							
14906.75	6706.520	3	I						
14910.74	6704.725	3		8.5	7.5				19251- 4341
14911.61	6704.333	3	I						
14912.31	6704.017	1	I						
14916.49	6702.138	1	I						
14917.40	6701.729	0							
14917.73	6701.582	1	I						
14919.84	6700.636	30	II			0.19	1.27	3	
14920.11	6700.512	0	I						
14921.16	6700.044	1	I						
14923.51	6698.987	1	I	7.C	8.0				14367-29291
14924.10	6698.721	1	I						
14924.81	6698.401	10	I						
14925.44	6698.122	3	I	6.5	7.5				29877-14952
14927.88	6697.028	1	II						
14930.66	6695.779	C	I						
14931.08	6695.591	1	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
14931.84	6695.252	C							
14933.03	6694.716	1	I						
14933.36	6694.568	1C	I						
14934.47	6694.072	C	I						
14935.77	6693.490	1	I						
14937.46	6692.729	3	I						
14938.31	6692.351	3	I						
14938.86	6692.103	1	I						
14940.90	6691.191	1		8.C	7.0				16733-31674
14941.03	6691.133	3	I						
14943.42	6690.063	1	I						
14944.26	6689.683	C							
14944.84	6689.424	0	II						
14945.03	6689.340	C	I						
14945.33	6689.206	C	I						
14946.54	6688.664	1	I						
14947.17	6688.384	1	I	7.C	7.0				18528-33475
14947.87	6688.068	10C	I						
14948.39	6687.837	1C	I	9.C	8.0				17727-32675
14948.39	6687.837	10	I	6.C	6.0				21958- 7050
14948.97	6687.576	1							
14949.40	6687.385	1	I						
14951.65	6686.381	3C	I						
14953.46	6685.570	0	I						
14954.49	6685.107	3	I						
14955.23	6684.776	1	II						
14958.09	6683.498	30	I	8.C	7.0				19092- 4134
14958.66	6683.247	C	I						
14959.16	6683.022	1	I						
14960.49	6682.428	C	I						
14961.24	6682.094	1C	I						
14961.73	6681.876	1	I						
14964.38	6680.690	0	I						
14968.45	6678.875	0	I						
14972.31	6677.153	1	I	7.0	8.0				18433-33406
14972.71	6676.976	0							
14972.99	6676.849	0							
14973.31	6676.707	0	I						
14975.72	6675.630	1	I						
14977.29	6674.932	0	I						
14978.07	6674.585	3	I						
14980.21	6673.630	C	I						
14981.90	6672.877	0							
14983.73	6672.061	3	I	9.C	9.0				21838-36822
14985.46	6671.292	1	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
14987.38	6670.438	1	I	5.0	4.0				25912-10925
14988.00	6670.161	1000	I			0.56	1.87	2	
14988.34	6670.009	100	I	8.0	8.0				19688-34676
14990.55	6669.029	1	I						
14991.95	6668.403	0							
14993.18	6667.858	10000	I	8.0	9.0	1.30	1.31	2	15567-30560
14995.25	6666.937	100	I						
15003.05	6663.472	0							
15004.55	6662.805	0	II						
15006.47	6661.955	1							
15007.18	6661.639	1000	I	9.0	8.0	1.30	1.26	2	15972-30979
15007.65	6661.427	1	I						
15009.53	6660.594	1	I						
15010.28	6660.260	0	I						
15010.67	6660.090	10	I	7.0	6.0				22061- 7050
15011.66	6659.649	C	I						
15012.21	6659.404	C	I						
15014.57	6658.360	1000	I			0.28	1.52	2	
15015.29	6658.039	300	I	7.0	8.0	1.33	1.31	1	8519-23534
15016.10	6657.679	C	I						
15023.18	6654.542	3	I						
15023.88	6654.232	10	II						
15025.05	6653.715	1	I						
15032.79	6650.290	3	I	8.0	8.0				15567-30600
15034.52	6649.522	0							
15034.99	6649.317	3	I	7.0	7.0				17687-32722
15036.09	6648.827	C	I	9.0	9.0				17727-32763
15037.24	6648.319	0							
15037.97	6647.998	C	I	8.0	8.0				23832-38870
15040.51	6646.875	C	I	7.0	6.0				18433-33474
15041.96	6646.233	1	I	7.0	7.0				18433-33475
15043.68	6645.475	10	I						
15044.72	6645.013	1	I						
15045.28	6644.766	1	I						
15047.87	6643.625	3	I						
15048.44	6643.373	3000	I	6.0	7.0	1.036	1.177	2	19182- 4134
15052.79	6641.451	30	I	8.0	8.0				12007-27059
15053.95	6640.940	0	I						
15056.84	6639.665	1	II						
15057.87	6639.213	100	I					3	
15062.35	6637.236	10	I						
15063.14	6636.888	1	I						
15064.30	6636.377	C	I	8.0	9.0				18021-33086
15065.07	6636.039	0	I						
15066.59	6635.367	C	I						

TABLE

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WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA		LEVELS CCC-EVEN
				J-C	J-E	
15067.51	6634.967	C	I			
15068.38	6634.583	1	I			
15068.67	6634.454	1	I			
15070.04	6633.850	C	I			
15071.27	6633.308	C	I			
15072.06	6632.961	1C	I	7.0	7.0	8519-23591
15076.24	6631.120	0	I			
15077.35	6630.635	1	I			
15078.48	6630.139	1	I			
15081.12	6628.976	1	I			
15082.69	6628.288	1C	I	6.0	7.0	16591-31674
15085.68	6626.972	3	I			
15085.81	6626.916	1	I			
15086.80	6626.482	0	II			
15088.84	6625.584	3	I			
15089.05	6625.490	1C0	I	8.0	9.0	14625-29714
15089.55	6625.274	0				
15093.04	6623.742	3	I			
15094.20	6623.231	1	I			
15095.72	6622.567	1	I	8.0	8.0	23877-38973
15097.84	6621.636	0	I			
15100.34	6620.539	1	I			
15100.82	6620.330	0	I			
15102.61	6619.541	0	I			
15104.75	6618.607	0	I	9.0	8.0	9990-25095
15110.24	6616.200	3	II			
15113.19	6614.911	100	I			
15113.65	6614.707	1C	I			
15117.03	6613.229	1	I			
15117.81	6612.887	1		6.5	5.5	28456-13338
15118.64	6612.526	0		7.0	7.0	18433-33552
15119.64	6612.086	1	I			
15120.46	6611.729	1C	II			
15129.35	6607.844	1	II			
15131.17	6607.051	3	I			
15131.82	6606.764	1				
15133.21	6606.161	1	I			
15133.40	6606.075	1	I	7.0	8.0	23736-38870
15136.11	6604.891	10	I			
15137.01	6604.502	30	I			
15138.00	6604.067	1C	I			
15139.37	6603.469	1	I	7.0	6.0	20954-36093
15139.81	6603.278	0				
15140.87	6602.818	1				
15141.06	6602.733	1	I			

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
15206.55	6574.299	30	II						
15208.05	6573.649	1	I						
15210.05	6572.784	0	I						
15210.34	6572.658	1	I						
15212.30	6571.814	1	I						
15215.29	6570.522	C	I						
15216.04	6570.196	100	I	8.0	8.0			3	14625-29841
15216.90	6569.827	1	I						
15219.78	6568.583	1	I						
15223.20	6567.109	0	I						
15223.94	6566.786	0							
15225.79	6565.989	1	I						
15226.75	6565.575	1	II						
15227.82	6565.114	300	I			0.135	1.23	3	
15230.42	6563.994	3	II						
15231.83	6563.385	1	I						
15232.33	6563.166	1	I						
15232.58	6563.061	1	I						
15233.49	6562.669	0	I						
15235.23	6561.920	0	I						
15236.26	6561.477	1	I						
15236.82	6561.236	1	I	7.0	8.0				23736-38973
15237.82	6560.805	0	I						
15240.03	6559.852	0							
15240.68	6559.576	0	I						
15241.17	6559.364	1	I						
15241.65	6559.159	3	I	7.0	8.0				12655-27896
15242.19	6558.924	1	I						
15243.19	6558.495	3	I						
15243.57	6558.332	0							
15244.29	6558.023	3000	I	5.0	6.0	1.02	1.09	2	22294- 7050
15245.79	6557.375	0							
15246.74	6556.969	1	I						
15248.92	6556.030	0	II	9.0	8.0				21838-37087
15250.03	6555.555	3	I	7.0	7.0				15194-30444
15251.73	6554.824	10	I	8.0	7.0				14625-29877
15252.26	6554.594	1							
15253.15	6554.211	1	II						
15253.55	6554.041	0	II						
15255.52	6553.195	10	II						
15256.36	6552.834	1	I						
15257.44	6552.369	1	I						
15260.19	6551.188	1	I						
15261.21	6550.750	30	I						
15262.52	6550.189	0	I						

TABLE

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
15264.32	6549.414	0	I						
15265.73	6548.812	3	I	10.0	9.0				12892-28158
15267.02	6548.258	100	II						
15268.66	6547.554	0	I						
15269.32	6547.269	0	I						
15270.90	6546.593	0	I	7.0	6.0				20822-36093
15271.42	6546.370	1	I						
15272.50	6545.907	1	I						
15274.07	6545.237	0	I						
15274.28	6545.144	1	I						
15275.89	6544.454	1	I	6.0	6.0				20817-36093
15276.93	6544.008	0	I						
15280.20	6542.608	100	I	7.0	7.0			3	8519-23799
15280.20	6542.608	100	I	5.0	5.0			3	24491- 9211
15281.11	6542.221	3	I	7.0	6.0				15194-30475
15281.59	6542.015	0		6.5	6.5				30973-15691
15286.35	6539.978	0							
15286.48	6539.921	1	I						
15287.58	6539.452	3	II						
15287.73	6539.384	0	I						
15288.06	6539.248	1							
15288.57	6539.028	1	I						
15289.06	6538.819	3	I						
15291.20	6537.905	0	I						
15294.14	6536.646	1	I						
15295.44	6536.090	1	I						
15297.23	6535.326	1							
15297.89	6535.042	0	II						
15299.27	6534.454	10	I						
15300.85	6533.779	0	I						
15301.81	6533.369	1	I	6.0	7.0				20817-36119
15303.29	6532.737	0	I	8.0	7.0				16733-32036
15304.22	6532.339	1	II						
15304.83	6532.081	1	I	7.0	7.0				22061-37366
15304.83	6532.081	1	I	7.0	7.0				12655-27959
15306.86	6531.215	1	I						
15307.46	6530.958	1	I						
15309.29	6530.176	1	I						
15310.43	6529.692	3	I						
15310.99	6529.453	3	II						
15311.39	6529.281	0							
15312.22	6528.929	0							
15312.65	6528.745	0							
15314.48	6527.963	10	I	7.0	6.0				14367-29682
15315.78	6527.408	1	I						

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
15317.35	6526.740	0	I						
15319.03	6526.026	3	I						
15321.57	6524.943	1	I						
15327.78	6522.301	1	II						
15328.16	6522.140	1	I	8.0	7.0				18477-33806
15329.35	6521.630	1	I						
15330.43	6521.171	0	I						
15331.18	6520.852	0	I						
15333.42	6519.902	1	I						
15334.34	6519.512	1	I						
15335.23	6519.130	30	II	6.5	7.5				30287-14952
15338.10	6517.909	0	I						
15339.92	6517.139	0	I						
15341.36	6516.527	1	II						
15342.84	6515.898	1	I						
15343.60	6515.574	1	I						
15347.44	6513.944	0	I						
15348.25	6513.599	3	I						
15349.37	6513.126	30	I						
15350.63	6512.590	0	I						
15351.71	6512.135	1	I						
15353.26	6511.475	1	I						
15354.46	6510.966	1	I						
15354.89	6510.786	0	I						
15357.05	6509.867	1							
15358.31	6509.334	1	II						
15359.78	6508.712	0	I						
15363.95	6506.944	0	I						
15364.97	6506.513	0	I	8.0	8.0				19688-35053
15365.73	6506.190	0							
15367.20	6505.570	0							
15367.74	6505.318	1	I						
15370.26	6504.274	3	I						
15372.16	6503.472	1	I						
15372.33	6503.398	0	I	7.0	7.0				18433-33806
15375.68	6501.983	1	I						
15379.76	6500.258	1	I						
15381.80	6499.393	0							
15382.45	6499.119	3	I						
15383.85	6498.528	1	I	8.0	9.0				12007-27390
15383.85	6498.528	1	I	8.0	7.0				25012-40396
15383.98	6498.475	1							
15388.51	6496.562	0	I						
15389.21	6496.265	1	I						
15392.93	6494.694	0	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS CCC-EVEN
						G-C	G-E	TYPE	
15395.35	6493.673	1	I						
15404.81	6489.687	1							
15405.31	6489.477	10	I	7.0	8.0				15194-30600
15405.90	6489.227	1	I						
15407.90	6488.385	1	I						
15408.93	6487.948	1	I						
15410.80	6487.165	10	I	7.5	6.5				20166- 4755
15411.13	6487.025	1	I						
15411.57	6486.838	1							
15412.15	6486.595	3000	I	8.0	8.0	1.32	1.27	3	15567-30979
15412.15	6486.595		I	7.0	8.0				21675-37087
15413.28	6486.120	3	I	7.0	8.0				18339-33753
15414.04	6485.799	1							
15415.31	6485.266	0							
15416.91	6484.594	1	I						
15419.30	6483.586	300	II			0.104	1.246	3	
15419.92	6483.325	1	I						
15421.25	6482.765	1		8.0	9.0				20341-35762
15421.78	6482.546	30	I						
15422.47	6482.252	10	I	5.0	5.0				24634- 9211
15425.55	6480.961	3	II						
15427.08	6480.318	0	I						
15429.79	6479.180	1	I						
15432.08	6478.218	30	II						
15435.37	6476.839	1	I						
15436.21	6476.486	1							
15436.92	6476.185	0	II						
15438.40	6475.564	0	I						
15438.79	6475.404	1	I	8.0	8.0				12007-27445
15439.95	6474.915	300	I	7.0	8.0	1.18	*1.242	2	15439- 0
15442.12	6474.005	3	I						
15445.16	6472.731	1	I	6.0	7.0				16591-32036
15446.96	6471.976	30	II	7.5	7.5				30399-14952
15447.92	6471.574	1	I						
15451.76	6469.967	0							
15453.11	6469.400	0	I						
15453.62	6469.186	0	I						
15455.08	6468.576	30	II			1.12	1.12	4	
15455.27	6468.497	30	I						
15456.59	6467.943	3	I						
15456.69	6467.903	1	I						
15459.49	6466.733	0	I						
15460.55	6466.287	0	I						
15464.60	6464.594	0	I						
15465.83	6464.079	1	I	7.0	8.0				22061-37527

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS CCC-EVEN
						G-C	G-E	TYPE	
15466.59	6463.762	0	I						
15469.99	6462.343	0	I	7.0	8.0				19907-35377
15473.61	6460.829	300	I	5.0	6.0	1.04	1.07	2	22524- 7050
15473.88	6460.719	30	I	7.0	8.0				14367-29841
15474.97	6460.262	1	I						
15475.48	6460.049	10	I	9.0	8.0				13495-28971
15477.26	6459.306	1	I						
15477.37	6459.259	1	I						
15483.60	6456.662	0	II						
15485.14	6456.019	30	I						
15486.91	6455.283	1	I						
15487.86	6454.886	1	II						
15488.58	6454.587	1	I						
15489.16	6454.343	0	I	7.0	7.0				24906-40396
15491.24	6453.476	1	II						
15494.66	6452.052	1	I						
15495.75	6451.601	1	I						
15496.67	6451.217	1	I						
15497.41	6450.908	0	I						
15498.39	6450.501	30	I						
15499.20	6450.162	0		R.C	R.O				21899-37398
15499.20	6450.162	0		B.C	B.O				23877-39376
15499.66	6449.973	10	I						
15500.77	6449.509	1	I						
15503.53	6448.362	0	II						
15510.19	6445.593	0	I						
15510.44	6445.489	3	I						
15513.67	6444.149	30	I						
15513.92	6444.045	3	I						
15514.26	6443.902	1							
15514.76	6443.696	100	II			1.23	1.23	4	
15515.16	6443.530	3	I						
15515.75	6443.283	0							
15516.23	6443.085	0							
15517.30	6442.639	1	I						
15517.53	6442.544	1	I						
15518.92	6441.966	3	II						
15519.29	6441.815	10	II						
15522.21	6440.602	1	I						
15525.91	6439.068	0	I						
15526.64	6438.764	10	I						
15529.09	6437.746	0							
15529.26	6437.679	0	I						
15531.05	6436.934	0							
15531.53	6436.736	10	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
15531.99	6436.547	100	II			0.43	1.20	3	
15533.74	6435.819	0							
15534.21	6435.627	10	II						
15535.69	6435.013	30	I						
15536.81	6434.549	1	I	7.C	7.0				21675-37212
15536.81	6434.549	1	I	7.C	7.0				24708-40245
15537.28	6434.354	3	II						
15537.78	6434.145	0							
15540.64	6432.965	100	I			0.38		3	
15541.C9	6432.776	1	I						
15542.00	6432.399	3	I						
15542.45	6432.213	3	I						
15543.50	6431.779	1	I						
15544.33	6431.438	1	I						
15544.95	6431.180	10	I	7.C	8.0				15194-30739
15545.80	6430.826	1	I						
15546.31	6430.618	0							
15546.71	6430.451	1	I						
15549.C2	6429.495	1	II						
15549.71	6429.213	3	I						
15550.21	6429.003	1	I						
15550.87	6428.731	0	I						
15551.67	6428.402	1	I						
15552.43	6428.085	3	I						
15553.20	6427.767	10	II						
15554.38	6427.282	300	I	8.C	7.0	1.22	1.18	2	19688- 4134
15554.97	6427.035	1	I						
15555.55	6426.799	0	I						
15557.38	6426.041	10	I						
15558.23	6425.689	1	I	7.C	8.0				17687-33246
15559.22	6425.281	1	I						
15560.39	6424.799	1	I						
15560.57	6424.724	1	I	8.C	8.0				19688-35249
15561.54	6424.323	1	I						
15563.07	6423.692	3	I						
15564.10	6423.266	1	I						
15564.58	6423.070	1	I						
15566.28	6422.365	1	I						
15567.37	6421.917	10000	R	I	8.C	8.0	1.31	1.24	3 15567- 0
15569.63	6420.986	0							
15569.91	6420.868	0	I						
15570.87	6420.472	1	I						
15570.95	6420.443	0							
15571.35	6420.275	1	I						
15572.84	6419.660	1	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
15574.14	6419.128	0	I						
15575.84	6418.426	30	I					2	
15576.29	6418.239	10	I						
15576.92	6417.980	1	I						
15577.67	6417.670	0	I						
15579.13	6417.071	1	I						
15582.62	6415.630	10	I	6.0	6.0				22633- 7050
15583.74	6415.170	0	I						
15584.63	6414.805	3	I	8.0	8.0				19092-34676
15586.91	6413.866	1	I						
15587.16	6413.766	0	II						
15587.80	6413.500	10	I						
15588.33	6413.285	1	I						
15590.17	6412.525	0	I						
15591.25	6412.083	1	I	5.5	4.5				30718-14126
15591.70	6411.897	1	I						
15593.94	6410.974	1	I						
15594.18	6410.877	0	I						
15595.35	6410.397	1	I						
15596.21	6410.043	3	I						
15598.52	6409.091	3	I						
15599.59	6408.655	0	I						
15600.51	6408.274	1	I						
15602.32	6407.531	3	II						
15603.23	6407.158	1	I						
15605.28	6406.316	1	I						
15608.81	6404.868	1	I						
15610.37	6404.229	0	I						
15614.50	6402.535	10	II	7.5	6.5				31306-15691
15615.07	6402.300	100	I	7.0	8.0			1	21783-37398
15615.78	6402.007	30	I			1.19	1.19	4	
15616.32	6401.788	3	I	7.0	8.0				23479-39096
15624.80	6398.311	1	I						
15626.41	6397.654	1	I						
15627.03	6397.398	1	I						
15628.97	6396.604	300	II			1.26	1.26	4	
15629.45	6396.411	30	I					4	
15629.98	6396.191	1	I						
15630.90	6395.818	1	I						
15632.16	6395.300	3	I						
15632.66	6395.098	1	I						
15632.77	6395.050	1	I						
15634.93	6394.166	0	I						
15636.41	6393.562	0	I						
15636.85	6393.382	0	I						

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-O	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
15641.62	6391.433	0	I						
15643.56	6390.641	10	II						
15644.84	6390.117	0	I						
15649.08	6388.388	10	I	8.0	7.0				16733-32382
15651.17	6387.532	100	I						
15652.98	6386.796	3000	I	8.0	9.0	1.36	1.37	2	7565-23218
15655.55	6385.745	1	I						
15656.03	6385.551	1	I						
15662.03	6383.102	3	I						
15664.03	6382.288	3	I						
15664.34	6382.163	C							
15665.55	6381.669	0							
15666.29	6381.368	30	I						
15667.46	6380.893	1	II						
15668.07	6380.644	1	I						
15670.27	6379.750	10	I						
15671.31	6379.323	30	I	7.0	6.0	1.36	1.35	2	12655-28326
15672.65	6378.777	3	I						
15674.20	6378.149	10	I						
15675.27	6377.712	300	II			0.064	1.251	2	
15677.26	6376.905	3		7.0	7.0				19811- 4134
15677.84	6376.666	0							
15681.50	6375.180	C							
15681.91	6375.010	30	I					A	
15683.32	6374.439	3	I						
15685.17	6373.688	1	I						
15686.47	6373.157	3	I						
15687.92	6372.570	1	I						
15688.66	6372.270	0	II						
15689.33	6371.997	10	I						
15690.40	6371.560	C	I						
15690.93	6371.345	0							
15691.83	6370.983	1	I						
15692.62	6370.660	C	I	8.0	9.0				21899-37591
15692.99	6370.510	3	I						
15694.74	6369.801	C	I						
15695.26	6369.590	100	II						
15696.36	6369.142	C							
15697.36	6368.735	1	I						
15698.21	6368.394	C	I						
15699.16	6368.009	0							
15701.20	6367.181	0	I						
15701.93	6366.885	1	I						
15703.16	6366.383	C	I						
15703.58	6366.215	1	I	7.0	7.0				12655-28358

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS CCC-EVEN
						G-C	G-E	TYPE	
15705.08	6365.608	1	I						
15707.19	6364.752	1	I						
15707.92	6364.454	C	II						
15708.32	6364.295	C							
15710.86	6363.266	1	I						
15714.84	6361.653	1C	I						
15715.23	6361.496	3	II						
15715.57	6361.357	1	I						
15716.67	6360.913	1	I						
15718.12	6360.324	0	I	7.0	8.0				17687-33406
15719.18	6359.897	30	I			1.28	1.28	4	
15719.66	6359.702	100	I	8.0	9.0			2	15567-31287
15720.34	6359.429	1	I						
15722.64	6358.495	30	I						
15724.45	6357.764	C							
15728.24	6356.234	0	II						
15730.47	6355.331	0							
15733.99	6353.911	0							
15734.68	6353.631	3	II						
15734.78	6353.592	1	I	9.0	8.0				16693-32428
15736.02	6353.090	30	I						
15737.16	6352.630	30	I			0.10	0.60	3	
15740.06	6351.458	0	I						
15744.13	6349.817	1	I						
15745.51	6349.260	1	I						
15746.15	6349.002	3	I						
15747.76	6348.356	3	I						
15748.73	6347.962	3	I						
15749.45	6347.673	1	I	7.0	7.0				21616-37366
15753.14	6346.185	0							
15756.86	6344.689	1C	I						
15758.29	6344.111	0	I						
15758.81	6343.904	C	I						
15760.24	6343.325	30C	I			0.21	1.20	3	
15761.78	6342.709	C	I						
15762.25	6342.518	3	II						
15762.84	6342.281	C							
15763.48	6342.022	C							
15763.84	6341.877	1	I						
15765.12	6341.362	30	I						
15766.03	6340.997	1							
15767.17	6340.539	0	I						
15770.28	6339.290	1	II						
15773.28	6338.083	30C	I	7.0	7.0	1.23	*1.175	3	19907- 4134
15775.14	6337.336	1							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	OCC-EVEN	
15776.99	6336.592	0	I							
15777.90	6336.229	0								
15778.16	6336.121	0	I	8.0	7.0				20341-36119	
15779.26	6335.679	0								
15781.57	6334.755	0	I							
15782.79	6334.263	1								
15782.87	6334.233	3	I							
15783.91	6333.814	30	I							
15784.72	6333.491	3	I	7.0	8.0				15194-30979	
15785.06	6333.354	1	I							
15786.36	6332.831	0	I	7.0	6.0				17687-33474	
15788.46	6331.988	30	I							
15790.34	6331.234	10	I	6.0	7.0				10088-25879	
15790.71	6331.086	30	II			0.24	1.18	3		
15791.32	6330.841	0								
15792.23	6330.479	0	I							
15793.40	6330.008	3	I							
15794.44	6329.591	3	I							
15795.02	6329.360	1	I	8.0	8.0				16880-32675	
15795.38	6329.216	10	I	9.0	8.0				13495-29291	
15795.51	6329.162	30	I							
15796.09	6328.931	1	I							
15801.13	6326.912	30	I	6.0	6.0			3	11673-27474	
15803.41	6325.998	0	I							
15805.25	6325.262	0								
15806.95	6324.582	1	I							
15807.56	6324.340	1	I							
15808.24	6324.064	1	I							
15810.38	6323.210	100	I			0.44		3		
15811.15	6322.903	1								
15811.42	6322.793	10	I							
15813.72	6321.873	0								
15814.75	6321.464	10	I							
15816.29	6320.849	1	I							
15817.27	6320.456	10	I							
15817.96	6320.179	3	II	6.5	6.5				23303- 7485	
15819.00	6319.763	1	I							
15819.88	6319.414	0	I	7.0	8.0				18857-34676	
15819.88	6319.414	0	I	6.0	7.0				16591-32411	
15821.65	6318.705	3	I							
15822.28	6318.454	0	II							
15823.32	6318.038	3	I							
15824.90	6317.408	0								
15825.35	6317.228	30	II	7.5	7.5				20166- 4341	
15825.69	6317.093	1	I							

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WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA		LEVELS			
				J-C	J-E	G-C	G-E	TYPE	OCC-EVEN
15826.84	6316.632	3	II						
15827.95	6316.192	1	I						
15835.54	6313.165	1	I						
15836.41	6312.815	0	I						
15837.11	6312.536	3		7.0	6.0				19907-35744
15837.11	6312.536	3	II	5.5	5.5				31529-15691
15838.89	6311.829	1	I	7.0	6.0				22889- 7050
15839.17	6311.716	0		6.5	5.5				23303- 7463
15839.82	6311.459	1	I						
15841.69	6310.714	1	I						
15842.16	6310.524	1	I						
15848.15	6308.142	1	II						
15849.75	6307.505	0							
15851.85	6306.670	3	I	7.0	8.0				21675-37527
15852.55	6306.391	0	I						
15853.04	6306.195	0	I						
15854.06	6305.788	1	I						
15854.47	6305.627	3	I						
15855.67	6305.150	1	I						
15858.05	6304.202	1		7.0	8.0				15858- 0
15860.43	6303.255	1	I						
15860.98	6303.038	3	II						
15861.95	6302.652	10	I						
15865.60	6301.203	0							
15065.00	6301.090	1							
15866.08	6301.013	3	I						
15867.58	6300.414	1	I						
15867.81	6300.323	0	I						
15868.05	6300.230	0	II						
15870.44	6299.281	30	I						
15871.39	6298.902	3	I						
15874.74	6297.575	0	I						
15878.34	6296.144	1	I						
15879.56	6295.663	1	I	8.0	9.0				22564-38444
15880.26	6295.385	0	I						
15881.31	6294.970	1	I						
15883.83	6293.970	1	I						
15884.40	6293.743	0	I	7.0	8.0				12655-28539
15885.85	6293.170	1	I						
15888.61	6292.078	3	I						
15889.68	6291.651	300	I	8.0	8.0	1.30	1.34	3	12007-27896
15890.89	6291.175	1	I						
15892.63	6290.485	3	II						
15897.06	6288.730	1	I						
15899.91	6287.605	1	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	GCC-EVEN	
15900.28	6287.458	1								
15900.66	6287.309	C	I							
15900.87	6287.223	C								
15901.52	6286.967	C	I							
15901.65	6286.916	C	I							
15904.75	6285.690	1	I							
15909.70	6283.737	0	I							
15911.44	6283.049	C	I	8.0	7.0					19092-35003
15915.94	6281.273	10	I							
15917.53	6280.644	1	I							
15920.55	6279.451	C								
15921.07	6279.247	1	I							
15924.31	6277.970	1	I							
15925.37	6277.554	1	I							
15931.96	6274.955	C								
15932.82	6274.618	1	I							
15933.37	6274.399	C								
15934.24	6274.058	C	I							
15934.60	6273.916	1	I							
15934.90	6273.800	10	I	8.0	9.0					14625-30560
15936.82	6273.043	1	I							
15937.19	6272.897	10	I							
15941.75	6271.102	30	I							
15942.33	6270.875	3	I	8.0	8.0					16733-32675
15942.62	6270.759	100	I	8.0	8.0					21899-37841
15944.24	6270.122	1	I							
15944.52	6270.012	1	I							
15945.53	6269.616	C	I							
15946.47	6269.247	C	I							
15947.74	6268.746	1	I							
15952.86	6266.734	3	I	8.0	7.0					12007-27959
15953.31	6266.557	0	I							
15955.67	6265.552	3	I							
15958.29	6264.603	0	I							
15960.76	6263.632	3	I							
15961.25	6263.440	1	I	8.0	8.0					19092-35053
15964.63	6262.114	1	I							
15965.23	6261.880	0	I							
15966.81	6261.258	1	I	8.0	8.0					20341-36308
15967.24	6261.091	10	II							
15967.98	6260.801	1								
15968.89	6260.444	300	I	8.0	8.0				3	7565-23534
15969.09	6260.364	300	I	9.0	9.0				3	13495-29465
15971.38	6259.466	1								
15972.35	6259.088	10000 R	I	9.0	8.0	1.29	1.24	2		15972- 0

TABLE

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WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA				LEVELS	
				J-C	J-E	G-C	G-E	TYPE	ODD-EVEN
15973.32	6258.706	100	II						
15974.92	6258.079	3	II						
15975.27	6257.944	1	I						
15977.17	6257.200	0	I						
15980.24	6255.998	0							
15980.43	6255.921	10	I						
15981.14	6255.644	10	I						
15984.55	6254.309	10	I						
15985.85	6253.801	0	I						
15988.81	6252.646	0	I						
15989.44	6252.397	1	I						
15991.41	6251.628	0	I						
15992.34	6251.265	30	I						
15993.90	6250.654	30	I						
15994.20	6250.536	1	II						
15995.57	6250.003	3	II						
15996.22	6249.749	10	I	8.0	7.0				14625-30621
15996.79	6249.526	3	II						
16000.57	6248.048	0							
16003.65	6246.847	300	I			0.05	1.18		
16009.89	6244.413	0	I						
16010.62	6244.126	3	I						
16013.47	6243.018	3	I	8.0	8.0				20793-36807
16017.21	6241.558	1							
16018.05	6241.232	1	I	8.0	9.0				23877-39895
16020.77	6240.171	3	II						
16023.14	6239.248	10	II	6.5	6.5				31715-15691
16025.66	6238.268	10	I	8.0	7.0				7565-23591
16025.95	6238.153	0	I	9.0	8.0				17727-33753
16027.65	6237.493	3	I						
16027.91	6237.391	1	II						
16029.01	6236.963	0	I						
16030.02	6236.572	3	I	8.0	9.0				16733-32763
16030.02	6236.572	3	I	8.0	9.0				24999-41029
16031.25	6236.091	1	I	7.0	8.0				19907-35938
16032.86	6235.464	0							
16034.80	6234.710	0	II						
16037.21	6233.774	1	I						
16037.78	6233.552	0	II						
16038.29	6233.354	1	I						
16039.01	6233.075	1	I						
16040.93	6232.328	1	I						
16044.92	6230.779	1	II						
16045.41	6230.590	100	I					3	
16047.59	6229.740	100	II			0.932		3	

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
16048.62	6229.342	0	I						
16050.01	6228.803	1	I						
16051.18	6228.348	1	II						
16057.11	6226.048	C	I						
16057.68	6225.827	1	I						
16058.86	6225.371	1	I						
16063.73	6223.481	0		8.C	9.0				23832-39895
16064.08	6223.347	1	I						
16065.22	6222.906	C	I	7.C	8.0				17687-33753
16066.10	6222.564	1	I						
16068.49	6221.639	1	II						
16070.05	6221.035	0	I						
16071.77	6220.371	3	I						
16072.99	6219.895	1	II						
16076.17	6218.668	C							
16076.45	6218.559	1	I						
16077.C5	6218.324	C	I	7.0	7.0				14367-30444
16079.47	6217.390	C	I						
16080.28	6217.077	C	I	5.C	6.0				23130- 7050
16081.C5	6216.778	1	I						
16081.26	6216.697	1	I						
16081.61	6216.562	10	II						
16085.11	6215.209	1	I						
16089.73	6213.426	10	I						
16090.04	6213.307	10	II	6.5	6.5				23575- 7485
16091.70	6212.665	100	I			1.33	1.33	4	
16092.C6	6212.527	1	I						
16093.24	6212.069	1							
16094.57	6211.557	0							
16103.85	6207.977	30	I					1	
16104.42	6207.756	C	I						
16108.15	6206.322	10	I	7.C	6.0				14367-30475
16108.76	6206.087	3	I						
16110.45	6205.434	C	I						
16111.27	6205.120	1	I	6.5	5.5				23575- 7463
16112.79	6204.533	0	I						
16114.13	6204.016	30	I	8.C	8.0			3	14625-30739
16115.78	6203.382	30	I						
16126.04	6199.435	0							
16126.25	6199.356	1	I						
16126.62	6199.212	30	II	8.5	7.5				20467- 4341
16127.87	6198.732	1	I						
16134.38	6196.231	100	II	7.5	6.5	1.33	1.34	1	31826-15691
16134.57	6196.159	1	I						
16135.33	6195.865	1	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	OCC-EVEN	
16139.09	6194.422	0								
16140.46	6193.896	1	I							
16140.87	6193.740	0								
16143.36	6192.785	3	I							
16145.19	6192.081	3	I							
16146.14	6191.718	10	I							
16147.04	6191.372	3	I							
16147.91	6191.038	1	I							
16151.39	6189.707	100	I	8.0	9.0	1.28	1.33	2	12007-28158	
16151.79	6189.551	30	I			1.34	1.34	4		
16152.77	6189.178	1	I	8.0	9.0				18021-34174	
16157.09	6187.522	1	I							
16159.18	6186.722	1	I							
16163.81	6184.948	0	I							
16164.45	6184.704	10	II							
16169.48	6182.778	1	I							
16171.28	6182.090	1	I							
16172.70	6181.548	0								
16176.84	6179.968	1								
16182.54	6177.791	1	I							
16184.51	6177.039	3	I							
16187.72	6175.814	0								
16189.40	6175.173	3	I							
16193.91	6173.454	10	I							
16195.88	6172.701	10	I							
16196.53	6172.454	1	I	7.0	8.0				18857-35053	
16200.86	6170.804	3	I							
16201.59	6170.525	30	I					4		
16202.14	6170.317	10	I	7.0	8.0				16202-	0
16203.92	6169.639	3	I							
16207.09	6168.431	3000 K	I	8.0	7.0	1.23	1.18	2	20341-	4134
16207.88	6168.133	C	I							
16208.28	6167.981	10	I	7.5	7.5				17036-	828
16208.28	6167.981	10	I	8.0	9.0				15567-	31775
16214.65	6165.555	1000	I	8.0	9.0	1.35	1.34	1	7565-	23780
16218.79	6163.984	10	I	9.0	9.0				13495-	29714
16223.71	6162.114	1	I							
16230.17	6159.661	1	I							
16232.34	6158.837	10	I	7.0	8.0				14367-	30600
16233.46	6158.412	30	I							
16233.80	6158.282	300	I	8.0	7.0	1.36	1.38	1	7565-	23799
16234.49	6158.021	0	I							
16242.73	6154.898	1	I							
16245.92	6153.690	1	I							
16248.15	6152.845	1	I							

TABLE

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	CCC-EVEN	
16248.34	6152.770	0	I							
16251.73	6151.488	10	I	8.C	9.0					19688-35940
16253.62	6150.772	100	I						3	
16254.07	6150.604	30	I	7.0	7.0				3	14367-30621
16254.24	6150.540	10	I							
16261.87	6147.654	0	I							
16263.72	6146.954	0	I							
16265.08	6146.441	1								
16265.08	6146.441	1	I							
16267.47	6145.537	3								
16269.21	6144.879	10	I							
16270.07	6144.556	0	I							
16274.15	6143.016	3	I							
16276.28	6142.211	1	I							
16284.02	6139.289	0	I							
16285.17	6138.857	3	I	8.C	8.0					19092-35377
16286.48	6138.362	30	I	6.C	7.0					11673-27959
16286.86	6138.218	10	II	6.5	6.5					31978-15691
16294.91	6135.189	1	I							
16299.01	6133.645	300	I						3	
16302.75	6132.238	0	I							
16304.70	6131.503	1	I							
16316.27	6127.155	300	I	7.0	8.0	1.35	1.35	4		12655-28971
16318.05	6126.487	100	I			0.16	1.39	2		
16319.53	6125.931	10	I							
16322.47	6124.830	30	I							
16331.05	6121.611	10	I							
16333.10	6120.844	0	I							
16334.50	6120.318	0	I							
16336.34	6119.630	100	I							
16343.29	6117.025	1	I							
16345.77	6116.100	1	II							
16346.90	6115.676	30	I						A	
16347.97	6115.276	100	I	7.C	6.0	1.32	1.32	4		8519-24867
16351.18	6114.074	100	I	7.C	7.0	1.378	*1.175	3		20485- 4134
16351.58	6113.927	100	I	8.C	7.0			1		12007-28358
16353.51	6113.202	0	I							
16354.17	6112.956	0	I							
16358.50	6111.337	1	I	9.C	8.0					9990-26349
16367.74	6107.886	10	I							
16368.46	6107.621	30	I						3	
16372.26	6106.201	10	I							
16379.11	6103.648	30	II	6.5	6.5					21134- 4755
16379.84	6103.375	100	I	7.C	6.0	1.33	1.34	1		8519-24899
16384.18	6101.761	1	I							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
16389.86	6099.646	30	I	5.0	6.0	1.36	*1.073	1	23440- 7050
16406.49	6093.464	0	I						
16412.39	6091.270	1	I						
16413.42	6090.889	100	I	6.0	6.0	1.18	*1.073	3	23464- 7050
16414.65	6090.432	10	I						
16417.70	6089.300	100	I			0.27	1.59	2	
16420.51	6088.261	3000 R	I	6.0	7.0	1.11	1.18	2	20554- 4134
16429.15	6085.056	1000 R	I	7.0	6.0	1.13	1.07	2	23479- 7050
16431.00	6004.072	0	I	6.5	5.5				29769-13338
16431.89	6084.043	30	I						
16432.59	6083.784	1	I						
16433.28	6083.530	3	I						
16433.73	6083.362	1	I						
16443.24	6079.843	0	I						
16451.09	6076.942	0	I						
16456.29	6075.020	30	I	9.0	8.0			1	15972-32428
16457.42	6074.605	10	II						
16459.67	6073.775	30	II			1.30	1.30	4	
16460.58	6073.438	3	II						
16463.38	6072.407	1	I						
16475.62	6067.895	100	I			0.095	0.807	1	
16487.39	6063.561	30	II						
16502.05	6058.176	300	I	5.0	6.0	1.07	1.07	4	23552- 7050
16502.05	6058.176		I	8.0	7.0				20793-37295
16515.61	6053.201	10	I						
16516.40	6052.914	10	II						
16518.78	6052.040	3	I						
16524.18	6050.061	10	II						
16532.41	6047.051	0	I						
16534.11	6046.428	1	I						
16534.48	6046.794	1	I						
16536.99	6045.376	1	I						
16539.44	6044.480	10	II						
16543.58	6042.966	3	I						
16550.19	6040.556	10	I						
16550.49	6040.443	10	I						
16555.27	6038.700	30	II	8.5	7.5				20896- 4341
16560.74	6036.704	10	I						
16562.18	6063.180	3	I						
16564.19	6035.450	1	I						
16574.04	6031.863	3	I						
16576.46	6030.980	300	I	7.0	8.0	1.32	1.39	2	8519-25095
16577.30	6030.677	10	I						
16592.71	6025.074	10	I						
16593.39	6024.827	3	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
16593.68	6024.724	0	II						
16596.79	6023.593	10	I						
16600.92	6022.096	10	I						
16602.38	6021.564	10	I						
16608.85	6019.220	1	I						
16610.72	6018.542	100	I					A	
16611.71	6018.184	1	I	7.0	8.0				14367-30979
16614.25	6017.263	1000 R	I	6.0	5.0	1.00	0.91	2	25825- 9211
16620.44	6015.023	3	I						
16624.27	6013.638	3	II						
16632.07	6010.815	3000 R	I	7.0	7.0	1.16	1.17	3	20766- 4134
16636.18	6009.331	100	I	7.0	8.0	1.36	1.37	2	12655-29291
16637.27	6008.938	1000	I	6.0	6.0	1.076	1.076	4	23687- 7050
16638.89	6008.351	10	I	8.0	9.0				15567-32206
16640.55	6007.753	3	I						
16643.07	6006.842	3	I						
16649.30	6004.597	0	I						
16651.25	6003.893	1	I						
16653.00	6003.262	100 B	I			1.22	1.22	4	
16653.00	6003.262	100 B	I	6.0	6.0			3	11673-28326
16654.46	6002.734	3	I						
16658.68	6001.214	1	II						
16659.72	6000.838	100	I	8.0	7.0	1.22	1.17	2	20793- 4134
16661.33	6000.259	1	I	5.0	6.0				23711- 7050
16662.06	5999.998	1	I						
16671.55	5996.581	10	I						
16672.86	5996.111	1	I	8.0	8.0				16733-33406
16676.08	5994.952	10	I						
16678.12	5994.220	1	I						
16681.00	5993.184	3	I	7.0	8.0				21675-38356
16682.52	5992.638	3	II						
16682.72	5992.566	1	I						
16683.83	5992.169	3	I						
16685.20	5991.674	100	I	6.0	7.0	1.39	1.35	1	11673-28358
16688.46	5990.505	3	I	7.0	7.0				20822- 4134
16688.67	5990.431	1							
16690.78	5989.671	3	II						
16693.87	5988.562	3000 R	I	9.0	8.0	1.26	1.24	2	16693- 0
16695.25	5988.068	10	I						
16698.48	5986.912	1	I						
16698.99	5986.728	1	I						
16701.05	5985.990	300	I	5.0	5.0	1.03	0.91	3	25912- 9211
16702.45	5985.488	3	I						
16704.20	5984.861	300	I			1.25	1.25	4	
16706.32	5984.102	3	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
16838.70	5937.054	1	I						
16840.00	5936.597	10	I						
16841.14	5936.196	1	II						
16841.65	5936.017	1	I	7.0	7.0				15194-32036
16842.92	5935.567	10	I						
16843.77	5935.269	1	I						
16845.84	5934.540	1	I	6.0	7.0				21418-38264
16846.43	5934.333	3	I	8.0	8.0				19092-35938
16847.85	5933.831	3	I						
16849.71	5933.177	100	I					2	
16859.90	5929.591	3	I						
16860.10	5929.521	3	I						
16861.26	5929.111	3	I	8.0	8.0				15567-32428
16864.48	5927.979	3	I						
16864.96	5927.812	10	I					3	
16874.21	5924.562	30	II	7.5	7.5	1.33	1.29	3	31826-14952
16874.48	5924.468	30	I			0.32	1.30	3	
16874.71	5924.387	1							
16875.90	5923.970	30	I					A	
16880.48	5922.360	30	I	8.0	8.0			3	16880- 0
16887.50	5919.899	0		8.0	8.0				15567-32554
16896.86	5916.619	100	I					2	
16901.02	5915.163	300	II			1.22	1.22	4	
16906.77	5913.152	1							
16909.35	5912.248	0		7.0	8.0				18339-35249
16915.92	5909.953	1	I						
16918.17	5909.167	100	II			0.118	1.225	3	
16923.63	5907.262	1	I						
16929.58	5905.185	10	II						
16935.00	5903.295	100	I						
16937.43	5902.448	30	II			1.27	1.27	4	
16939.79	5901.627	1							
16951.15	5897.670	10	II						
16954.26	5896.588	3	I	7.0	7.0				21783-38737
16954.91	5896.364	3	I						
16956.56	5895.790	1							
16957.40	5895.498	1		8.0	7.0				20793-37751
16958.93	5894.965	3	I						
16960.34	5894.475	3							
16960.74	5894.334	1							
16962.10	5893.863	3	I						
16963.70	5893.307	30	I	9.0	9.0			3	13455-30459
16964.02	5893.196	3	I						
16964.30	5893.098	30	I	8.0	8.0			3	12007-28971
16968.14	5891.764	1	I						

TABLE

OY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS OCC-EVEN
						G-C	G-E	TYPE	
16968.35	5891.693	10	I						
16980.44	5887.497	10	II						
16987.47	5885.062	3	I						
16989.04	5884.518	10	I	7.0	8.0				17687-34676
16989.99	5884.189	30	I	6.0	6.0	1.26	*1.073	3	24040- 7050
16992.80	5883.216	30	I						A
17007.75	5878.043	1	I						
17010.64	5877.046	0							
17011.65	5876.697	1							
17012.76	5876.312	30	I						3
17014.13	5875.840	1	II						
17016.96	5874.863	1							
17017.70	5874.606	3	I						
17017.99	5874.507	1		7.5	6.5				32709-15691
17019.21	5874.086	3	I	7.0	8.0				20822-37841
17019.32	5874.046	0							
17021.25	5873.382	0	I						
17021.65	5873.244	1							
17036.55	5868.106	300	II	7.5	8.5	1.29	1.29	4	17036- 0
17038.63	5867.391	3	I						
17046.61	5864.642	1	I						
17047.68	5864.274	1	I						
17048.41	5864.025	100	I	8.0	7.0			1	14625-31674
17048.71	5863.922	30	I						
17059.24	5860.301	1	I	9.0	8.0				16693-33753
17059.52	5860.206	1							
17061.38	5859.566	10	II						
17065.46	5858.164	1	I						
17065.78	5858.054	10	I						
17068.39	5857.161	1							
17068.92	5856.976	30	I	9.0	8.0				9990-27059
17070.76	5856.348	10	I						
17071.53	5856.082	10	II						
17074.25	5855.149	3	I	8.0	8.0				21899-38973
17078.17	5853.805	0							
17081.47	5852.675	1							
17082.10	5852.460	30	I						
17097.54	5847.173	1	I						
17098.85	5846.725	3	I						
17100.52	5846.157	1	I						
17102.85	5845.360	30	II						
17104.21	5844.894	3	I	9.0	8.0				13495-30600
17117.55	5840.339	30	I						
17118.18	5840.125	30	I						
17121.86	5838.869	3	I						

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
17124.28	5838.043	1							
17141.70	5832.110	3	I						
17143.85	5831.378	1	I						
17144.41	5831.187	10	I						
17149.99	5829.292	30	I	8.0	9.0	1.26	1.27	2	14625-31775
17155.48	5827.427	3	I	8.0	7.0				15567-32722
17161.87	5825.255	10	I						
17162.86	5824.921	1	I						
17164.48	5824.369	1	I						
17165.80	5823.922	1	I						
17186.54	5816.895	3	I	7.0	8.0				12655-29841
17195.78	5813.768	3	I						
17197.75	5813.101	1	I						
17212.72	5808.046	1	I						
17213.87	5807.658	100	I			0.067	1.29	3	
17220.11	5805.554	300	I	9.0	9.0	1.24	1.26	3	13495-30716
17220.59	5805.391	30	I						
17222.20	5804.850	1	I	7.0	7.0				12655-29877
17228.83	5802.617	100	I					1	
17234.55	5800.689	1							
17247.38	5796.375	10	I						
17265.79	5790.196	3	I	8.0	8.0				19688-36954
17268.52	5789.280	3	II						
17274.73	5787.197	30	I						
17284.20	5784.026	10	I	6.0	7.0				21418- 4134
17284.20	5784.026	10	I	8.0	8.0				12007-29291
17294.81	5780.479	3	I						
17301.05	5778.394	3	I						
17315.73	5773.493	1	I						
17322.39	5771.276	10	I	6.0	7.0				21456- 4134
17322.78	5771.145	3	II						
17326.21	5770.003	1	II						
17335.31	5766.973	10	II						
17337.18	5766.350	10	I						
17345.69	5763.524	10	II						
17350.71	5761.853	30	I					1	
17355.62	5760.223	1	I	8.0	8.0				18021-35377
17356.96	5759.780	10	I						
17359.94	5758.793	300	I	7.0	7.0	1.34	1.35	3	8519-25879
17361.65	5758.226	100	I						
17368.54	5755.939	3	I						
17373.61	5754.261	30	I						
17377.49	5752.976	10	I						
17379.48	5752.316	3	II						
17385.02	5750.484	100	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
17385.82	5750.219	10	I	6.C	6.0				10088-27474
17392.50	5748.010	10	I						
17400.C1	5745.529	1000	I	9.0	9.0	1.32	1.35	3	9990-27390
17401.40	5745.070	10	I						
17402.11	5744.837	1		7.C	8.0				20954-38356
17402.11	5744.837	1		5.5	4.5				31529-14126
17402.74	5744.627	1	I						
17411.92	5741.600	3	II						
17414.84	5740.637	3	I						
17416.15	5740.204	300	I			0.29	1.31	3	
17416.75	5740.006	1	II						
17416.95	5739.941	3	II						
17421.43	5738.466	3	I						
17423.74	5737.704	3	I						
17431.61	5735.114	1	I						
17432.89	5734.692	0	I						
17433.71	5734.424	3	I	9.0	8.0				15972-33406
17436.94	5733.360	30	I						
17438.31	5732.912	100	I			0.54	1.828	2	
17453.67	5727.867	1	II						
17454.93	5727.451	100	I	9.0	8.0	1.32	1.34	1	9990-27445
17456.90	5726.804	3	I						
17457.61	5726.574	0	I						
17460.08	5725.761	0	I						
17469.63	5722.631	1	I						
17471.43	5722.043	1	I						
17475.71	5720.641	0	II						
17477.14	5720.174	1	II						
17477.73	5719.978	3	II	8.0	8.0				21899-39376
17482.37	5718.461	1000	I	7.C	7.0	1.25	1.17	3	21616- 4134
17491.41	5715.505	0	I	8.0	9.0				20793-38285
17492.87	5715.030	3	II						
17493.19	5714.925	3	I						
17493.92	5714.686	30	I						
17496.49	5713.848	10	I						
17499.98	5712.706	1	I						
17501.39	5712.246	3	I						
17504.12	5711.355	10	I						
17505.14	5711.025	30	I	8.0	7.0			1	12007-29512
17507.11	5710.381	0	I						
17509.24	5709.685	0	I						
17515.00	5707.808	100	I			0.13	1.47	2	
17517.39	5707.031	10	I						
17517.96	5706.842	1	II						
17518.52	5706.660	1	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS CCC-EVEN
						G-C	G-E	TYPE	
17522.02	5705.521	0	I	9.0	8.0				17727-35249
17524.39	5704.751	1	II						
17525.29	5704.458	10	I						
17530.05	5702.908	300	I	8.0	8.0	1.36	1.40	3	7565-25095
17530.34	5702.814	3	I						
17540.56	5699.490	10	II						
17541.05	5699.332	300	I	7.0	7.0	1.22	1.18	3	21675- 4134
17542.94	5698.718	100	II			0.224	1.583	2	
17546.88	5697.439	3	I						
17551.65	5695.889	100	II					A	
17562.56	5692.352	30	I					3	
17564.98	5691.567	1	I	6.0	7.0				21699- 4134
17564.98	5691.567	1	I	7.0	6.0				18528-36093
17566.86	5690.959	10	I	10.0	9.0				12892-30459
17568.47	5690.436	30	I					2	
17577.15	5687.625	3	I						
17578.37	5687.231	3	I						
17582.72	5685.823	30	I						
17583.47	5685.583	300	I	5.0	6.0	1.210	1.066	1	24634- 7050
17584.52	5685.242	10	I						
17585.38	5684.963	1	I						
17591.36	5683.032	30	II	5.5	5.5				27462- 9870
17605.88	5678.344	30	II						
17606.66	5678.094	3							
17607.93	5677.683	100	I					1	
17608.76	5677.416	3	II						
17622.39	5673.026	10	I						
17626.52	5671.697	1	I						
17627.46	5671.394	1	I						
17627.91	5671.250	100	I			0.32	0.829	1	
17630.83	5670.307	10	I						
17638.64	5667.797	1	I						
17642.91	5666.428	30	I			0.09	1.28	3	
17645.21	5665.689	1	I						
17645.61	5665.560	10	II						
17649.19	5664.411	30	I	7.0	7.0	1.20	1.18	3	21783- 4134
17649.93	5664.173	1	I						
17650.37	5664.031	0	I	9.0	8.0				17727-35377
17650.37	5664.031	0	I	8.0	9.0				20793-38444
17650.61	5663.954	10	I						
17650.86	5663.873	10	II						
17658.64	5661.380	10	I	9.0	10.0				17727-35385
17661.98	5660.308	3	II						
17666.73	5658.785	10	I						
17673.66	5656.569	1							

TABLE

CY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
17678.77	5654.934	1	I	8.0	8.0				15567-33246
17679.34	5654.749	3	II						
17679.99	5654.543	3	I						
17680.54	5654.367	1							
17683.29	5653.488	10	I						
17687.92	5652.009	1000	R I	7.0	8.0	1.16	1.24	2	17687- 0
17689.60	5651.469	30	I	7.0	8.0				17687-35377
17694.94	5649.766	10	II						
17706.77	5645.990	300	I					3	
17707.60	5645.727	30	I	8.0	9.0				12007-29714
17708.24	5645.520	30	I						
17720.85	5641.504	300	II			0.136	1.370	2	
17727.16	5639.498	3000	R I	9.0	8.0	1.25	1.24	2	17727- 0
17731.28	5638.187	3	I						
17733.19	5637.578	3	I						
17734.51	5637.160	10	I						
17738.23	5635.976	3	II						
17740.22	5635.343	1	I						
17742.21	5634.714	30	II						
17742.93	5634.483	1	I						
17757.96	5629.714	3	II						
17764.98	5627.490	300	I	8.0	7.0	1.20	1.17	2	21899- 4134
17769.26	5626.135	30	I						
17772.86	5624.996	10	I						
17780.75	5622.498	30	I	9.0	8.0	1.29	1.29	4	15972-33753
17784.10	5621.440	3	II						
17786.70	5620.618	3	I						
17793.56	5618.453	1	II						
17799.05	5616.718	3	I						
17799.83	5616.472	10	I						
17810.11	5613.229	300	I			0.13	1.294	2	
17818.32	5610.644	C	I						
17820.79	5609.866	30	I	7.0	6.0	1.36	1.36	4	12655-30475
17822.81	5609.229	1	I						
17823.26	5609.087	3	I	10.0	9.0				12892-30716
17824.55	5608.684	1	I						
17831.72	5606.426	3							
17834.26	5605.629	100	I			0.379	1.25	3	
17834.57	5605.531	3	I	8.0	8.0				12007-29841
17835.10	5605.365	10	I						
17838.74	5604.222	3	I	6.0	7.0				11673-29512
17844.46	5602.426	1	II						
17849.64	5600.800	100	I			0.112	1.22	3	
17850.11	5600.652	300	II			0.51	1.212	3	
17851.39	5600.249	C	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
17856.02	5598.799	1	I						
17857.48	5598.338	1	I						
17860.64	5597.350	30	II			1.41	1.41	4	
17861.75	5597.001	1	I						
17864.77	5596.055	10	I	6.0	7.0				21998- 4134
17868.60	5594.854	10	I						
17870.26	5594.338	10	I	8.0	7.0				12007-29877
17876.72	5592.314	10	II			1.20	1.20	4	
17877.14	5592.182	3	I						
17878.87	5591.642	30	I			1.29	1.29	4	
17884.33	5589.936	1	II						
17890.60	5587.975	1	I						
17898.33	5585.562	10	I						
17899.09	5585.325	3	I	6.0	6.0				10088-27987
17900.54	5584.874	3	I						
17902.23	5584.347	10	I						
17902.62	5584.225	10	I						
17904.91	5583.510	10	I						
17905.92	5583.195	30	I						
17906.20	5583.107	1	II						
17907.19	5582.799	10	II						
17908.36	5582.435	1	I	8.0	7.0				15567-33475
17909.31	5582.139	3	II						
17916.49	5579.901	10	I						
17918.00	5579.432	3	I						
17923.18	5577.817	10	I						
17927.06	5576.611	10	I	7.0	7.0				22061- 4134
17929.18	5575.951	10	I	8.0	8.0				14625-32554
17934.37	5574.337	10	I	7.0	8.0				19907-37841
17935.64	5573.943	10	I						
17942.07	5571.946	1	I						
17942.87	5571.696	3	I	6.0	6.0				19182-37125
17945.01	5571.034	1	II	7.0	8.0				12655-30600
17950.86	5569.217	0							
17954.30	5568.150	30	I						
17957.29	5567.222	30							
17960.26	5566.302	30	I						
17962.76	5565.526	10	II	6.5	7.5				32914-14952
17963.61	5565.265	1							
17965.16	5564.783	3	I						
17966.73	5564.298	10	I	7.0	7.0				12655-30621
17967.50	5564.061	30	I						
17970.38	5563.169	30	II			1.33	1.33	4	
17972.60	5562.481	100	I			0.464		3	
17983.47	5559.119	30	II			0.202	1.164	3	

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
17984.72	5558.730	1	I							
17988.86	5557.453	1	I							
17994.77	5555.627	3	I							
17995.15	5555.511	1	I	8.0	8.0					19092-37087
17997.80	5554.691	30	I							
18000.29	5553.923	3								
18003.73	5552.861	10	I							
18008.65	5551.345	1	I	6.0	6.0					11673-29682
18018.19	5548.407	3								
18019.44	5547.864	3								
18021.89	5547.268	1000 K	I	8.0	8.0	1.23	1.24	3	18021-	0
18024.24	5546.542	10	I							
18024.76	5546.383	10	I							
18030.30	5544.679	1	II	5.5	4.5					27462- 9432
18032.36	5544.047	3	I							
18038.38	5542.195	100	I							2
18048.46	5539.101	10	I	8.0	8.0					18343-36392
18051.29	5538.231	30	I	7.0	8.0					A 15194-33246
18054.71	5537.183	3								
18060.87	5535.296	3		7.0	8.0					14367-32428
18061.13	5535.216	30	I							1
18061.78	5535.015	1	II							
18063.90	5534.367	30	I							2
18070.93	5532.213	1	I							
18071.37	5532.078	30	I							
18075.02	5530.961	3								
18076.37	5530.548	10	II							
18082.99	5528.524	10	I	7.0	6.0					25133- 7050
18084.66	5528.012	300	I	7.0	8.0	1.36	1.31	1		12655-30739
18086.52	5527.443	1								
18086.81	5527.356	1	I							
18087.13	5527.257	1	I							
18088.55	5526.824	10	I							
18103.25	5522.336	10	I							
18105.13	5521.762	10	I							
18109.16	5520.535	3	II							
18111.16	5519.925	30	I	8.0	7.0					20341-38452
18111.52	5519.815	10	I							
18122.53	5516.462	1	II							
18125.99	5515.407	100	II	7.5	7.5					3 22467- 4341
18126.68	5515.198	10	II							
18127.40	5514.978	3	II							
18129.11	5514.459	10	I							
18132.88	5513.313	3								
18137.54	5511.895	30	I	8.0	9.0					2 14625-32763

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
18137.93	5511.776	3	I						
18139.46	5511.313	10	I						
18139.87	5511.188	30	I						
18149.38	5508.301	10							2
18152.62	5507.316	1	I						
18153.49	5507.051	3	I						
18155.26	5506.515	100	I			0.27	1.435	2	
18163.80	5503.927	3							
18164.42	5503.737	3							
18165.52	5503.405	3	I						
18166.08	5503.235	3	I						
18167.54	5502.794	300	I	9.0	9.0	1.32	1.33	3	9990-28158
18170.63	5501.858	30	I						
18176.99	5499.934	10	I						
18177.39	5499.813	1	II						
18178.25	5499.552	30	I						
18182.21	5498.354	3	II						
18185.73	5497.288	30	I	8.0	8.0	1.33	1.33	4	15567-33753
18187.25	5496.830	100	I			0.046	1.16	1	
18189.40	5496.181	10	I						
18190.21	5495.935	1							
18199.50	5493.129	10	I						
18203.88	5491.809	30	I	6.0	7.0	1.39	1.38	1	11673-29877
18207.79	5490.629	3	I						
18208.76	5490.336	30	I						
18209.55	5490.099	3	I						
18212.58	5489.184	1							
18214.19	5488.700	1	I						
18220.38	5486.834	30	I						
18221.88	5486.382	10	I						
18230.29	5483.853	10	I						
18230.41	5483.818	1		7.0	8.0				18857-37087
18236.77	5481.906	3	II						
18237.66	5481.637	30	I	6.0	6.0	1.35	1.34	3	10088-28326
18239.41	5481.112	1	I						
18243.35	5479.925	30	I			0.096	1.22	3	
18244.40	5479.612	2	I						
18245.37	5479.321	1	II						
18247.84	5478.577	30	I						
18249.21	5478.167	3	I						
18252.26	5477.253	30	I	7.0	7.0				20485-38737
18255.07	5476.408	3	I						
18260.14	5474.888	30	I						
18266.23	5473.062	10	I						
18266.69	5472.926	3	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	CCC-EVEN	
18267.67	5472.632	10	I							
18269.91	5471.961	30	I	6.0	7.0	1.35	1.35	4	10088-28358	
18270.07	5471.913	30	II			1.22	1.22	4		
18278.44	5469.106	0		7.0	6.0				15194-33474	
18279.44	5469.106	100	II			0.33	0.930	1		
18281.00	5468.641	10	I	7.0	7.0				15194-33475	
18283.70	5467.833	3	I							
18286.58	5466.970	10	I							
18287.76	5466.620	3	II	6.5	6.5				25772- 7485	
18291.03	5465.642	30	I	8.0	8.0	1.25	1.25	4	18291-	0
18300.31	5462.871	10	I							
18307.90	5460.605	30	I							
18312.15	5459.340	10	I							
18313.53	5458.926	3	I	8.0	7.0				7565-25879	
18316.26	5458.114	10	I							
18324.32	5455.711	30	I	9.0	8.0			2	13495-31820	
18325.15	5455.466	100	II					1		
18329.15	5454.275	3	I							
18329.24	5454.249	3	I	7.0	7.0				8519-26848	
18331.43	5453.597	10	II	7.5	7.5				22672- 4341	
18333.09	5453.101	10	I							
18339.79	5451.109	1000 R	I	7.0	8.0	1.21	1.24	2	18339-	0
18343.64	5449.965	30	I	8.0	8.0			3	18343-	0
18345.49	5449.416	10	I							
18354.89	5446.625	1								
18359.55	5445.244	10	I							
18363.39	5444.106	3		5.5	5.5				31701-13338	
18364.23	5443.857	10	I							
18365.95	5443.345	100	II							
18367.11	5443.003	10	II	6.5	7.5				33319-14952	
18369.73	5442.226	3	I							
18376.82	5440.126	3		6.5	5.5				31715-13338	
18386.61	5437.230	1	II							
18388.47	5436.678	3	II							
18389.01	5436.519	3								
18394.28	5434.961	30	I	10.0	9.0				12892-31287	
18404.86	5431.837	3	I							
18406.04	5431.489	10	I							
18412.05	5429.450	1								
18413.49	5429.292	1								
18415.08	5428.823	3	I							
18415.81	5428.609	10	I							
18417.71	5428.048	1								
18418.33	5427.865	1								
18420.85	5427.123	10	I							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
18422.28	5426.700	300	II							1
18423.16	5426.441	3								
18423.52	5426.336	10	II	8.5	7.5				19251-	828
18427.02	5425.304	10	I							
18427.45	5425.178	1								
18429.08	5424.699	100	I							
18430.53	5424.273	300 R	I	8.0	7.0	1.07	1.17	1	22564-	4134
18431.91	5423.865	3	I							
18432.11	5423.808	1	I							
18433.15	5423.501	3	I							
18433.77	5423.319	1000 R	I	7.0	8.0	1.20	1.24	2	18433-	0
18437.77	5422.141	3	I	8.0	7.0				12007-	30444
18438.29	5421.989	1								
18441.38	5421.082	1	I							
18442.44	5420.770	100	I			0.097	1.454	2		
18447.04	5419.417	10		7.5	6.5				23202-	4755
18447.44	5419.299	30	I							
18448.01	5419.133	300	I			0.04	1.27	2		
18449.41	5418.722	100	I							A
18450.98	5418.260	1	I							
18451.84	5418.007	3	I							
18455.48	5416.937	30	I							
18456.77	5416.559	30	I							
18460.63	5415.429	1	I	8.0	9.0				14625-	33086
18462.05	5415.012	3								
18462.61	5414.846	1								
18463.67	5414.536	1								
18469.78	5412.745	1								
18470.70	5412.475	3								
18472.75	5411.875	1	I							
18476.10	5410.893	1		9.0	10.0				21529-	40005
18476.54	5410.766	10	II							
18480.24	5409.681	30	I			1.28	1.28	4		
18481.16	5409.413	1								
18484.51	5408.431	3	I							
18486.84	5407.749	100	I			0.05	1.22	1		
18488.94	5407.134	10	I							
18489.00	5407.118	1								
18489.84	5406.873	10	I							
18491.01	5406.530	0	I							
18494.44	5405.529	3	I							
18495.78	5405.135	10	I							
18498.43	5404.361	10	I							
18499.01	5404.192	300	I	6.0	7.0	1.29	1.17	1	22633-	4134
18499.53	5404.039	1		8.0	9.0				19092-	37591

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA				LEVELS CCC-EVEN
				J-C	J-E	G-C	G-E	
18508.73	5401.354	1C	I					
18509.07	5401.256	1		7.0	7.0			18857-37366
18513.60	5399.934	100	II	7.5	7.5	1.28	1.24	3 22854- 4341
18514.83	5399.573	1						
18521.00	5397.774	3	I					
18528.56	5395.572	30C	I	7.0	8.0	1.468	1.243	1 18528- 0
18530.10	5395.126	10	I	7.0	6.0			18528-37058
18540.69	5392.044	30C	I	7.0	8.0	1.33	1.29	1 8519-27059
18540.69	5392.044		I	7.0	7.0			16202-34742
18543.59	5391.199	30	I			1.18	1.18	4
18547.40	5390.092	30	II	6.5	6.5			23303- 4755
18548.60	5389.744	30	I	9.0	8.0			9990-28539
18549.16	5389.580	300	II			0.532	1.27	3
18559.17	5386.673	1						
18560.93	5386.164	1						
18561.83	5385.901	10	II					
18562.77	5385.629	100	II			1.10	1.10	4
18565.48	5384.844	10	II					
18566.77	5384.470	1						
18571.11	5383.210	10	I					
18572.68	5382.755	1	I					
18575.71	5301.078	3		8.0	7.0			19688-38264
18576.35	5381.691	3	I					
18577.51	5381.358	100	I					2
18579.92	5380.660	30	I					1
18584.03	5379.469	3						
18595.68	5376.099	100	I			0.25	1.22	3
18596.86	5375.757	3	I	7.0	6.0			18528-37125
18598.02	5375.422	3	I					
18606.47	5372.980	30	I					
18612.70	5371.182	3	II					
18614.76	5370.588	100	I	8.0	7.0	1.29	1.27	2 12007-30621
18619.41	5369.245	3	II					
18620.47	5368.941	3	I	8.0	8.0			14625-33246
18623.05	5368.197	100	II			1.09	1.09	4
18623.44	5368.085	30	I					
18624.17	5367.874	1						
18627.12	5367.023	3	I					
18627.85	5366.814	3	I					
18629.19	5366.427	1		7.0	7.0			21616-40245
18634.66	5364.852	3	I					
18637.84	5363.936	3	I					
18639.97	5363.322	3	I					
18640.60	5363.143	0		6.5	5.5			31978-13338
18642.29	5362.658	1	I					

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS OCC-EVEN
						G-C	G-E	TYPE	
18643.27	5362.374	3	I						
18645.39	5361.764	1	II						
18646.83	5361.349	30	I						
18648.23	5360.947	3							
10649.22	5360.665	10	II						
18649.81	5360.493	30	I						
18659.45	5357.725	1							
18664.96	5356.142	10	I	9.C	8.0				17727-36392
18668.97	5354.993	10	I						
18669.35	5354.883	1	II						
18670.39	5354.586	1	I						
18671.31	5354.320	10	I						
18675.07	5353.245	3	I						
18675.41	5353.147	1	I						
18679.01	5352.114	300	I			0.C4	1.44	2	
18684.39	5350.574	1							
18685.36	5350.295	3	I						
18686.25	5350.040	1	I	8.C	9.0				18021-36708
18692.15	5348.353	3	II						
18694.91	5347.561	1							
18695.69	5347.338	1	I	8.C	9.0				18021-36717
18698.86	5346.432	1							
18700.10	5346.077	0	II						
18701.91	5345.562	10	I						
18703.06	5345.231	1	I						
18704.61	5344.788	0		9.C	8.0				15972-34676
18708.92	5343.557	100	I	8.C	9.0			1	12007-30716
18710.33	5343.154	100	I	9.C	9.0	1.23	1.24	3	13495-32206
18711.98	5342.685	1							
18716.01	5341.532	1							
18720.33	5340.300	1000	I			0.48	0.705	1	
18727.52	5338.250	1							
18730.39	5337.432	100	II			0.17	1.47	2	
18732.66	5336.786	30	I	8.C	8.0				12007-30739
18733.62	5336.513	30	I						
18738.74	5335.053	30	I					1	
18742.15	5334.085	1	I						
18742.34	5334.028	1	I						
18743.05	5333.826	1							
18745.66	5333.083	30	I						
18746.28	5332.908	1							
18753.93	5330.734	3	II						
18755.27	5330.351	1	I	7.C	7.0				22889- 4134
18756.09	5330.119	1							
18760.04	5328.997	10	II	9.C	9.0				17727-36487

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	GCC-EVEN
18760.25	5328.938	10	I						
18760.53	5328.857	3	I						
18761.91	5328.465	1	I						
18762.44	5328.316	30	I						
18763.19	5328.103	10	I						
18768.17	5326.688	3							
18771.37	5325.780	10	I	6.0	7.0				11673-30444
18773.02	5325.312	1	I						
18775.20	5324.695	100	II			1.28	1.28	4	
18775.20	5324.695			6.0	6.0				25825- 7050
18783.88	5322.233	100	I	8.0	8.0	1.36	1.34	3	7565-26349
18785.80	5321.689	30	I						
18789.58	5320.619	1	I						
18791.96	5319.945	1	I						
18793.96	5319.379	30	I					2	
18794.58	5319.202	30	I						
18798.45	5318.108	30	I					A	
18802.44	5316.981	100	I	6.0	6.0			3	11673-30475
18805.37	5316.150	3	I						
18805.94	5315.991	3							
18813.87	5313.750	10	I						
18817.38	5312.759	3	I						
18817.84	5312.627	100	I			0.105	1.20	3	
18819.49	5312.162	10	II	6.5	6.5				23575- 4755
18820.60	5311.849	30	I			0.13	1.39	3	
18823.37	5311.068	1	I						
18824.34	5310.794	0	II						
18826.85	5310.086	30	I						
18827.03	5310.034	1	I						
18827.56	5309.887	10	I						
18828.47	5309.572	3	II						
18829.36	5309.377	10	I						
18830.65	5309.015	100	II			0.35	0.75	1	
18831.30	5308.830	100	I			1.34	1.34	4	
18831.94	5308.650	10	I						
18839.21	5306.600	0	I						
18842.31	5305.727	1	I						
18848.68	5303.934	3	I						
18851.40	5303.170	10	I	7.0	8.0				16202-35053
18857.07	5301.576	1000 R	I	7.0	8.0	1.34	1.24	1	18857- 0
18859.53	5300.884	100	I					2	
18861.61	5300.298	100	II	7.5	7.5			3	23202- 4341
18861.93	5300.209	1	I						
18866.09	5299.039	3	I						
18870.10	5297.913	30	I					4	

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
18870.45	5297.817	3C	II						4
18872.28	5297.302	3	I	7.0	7.0				
18878.31	5295.610	1C	I	7.0	8.0				
18880.21	5295.079	1	I	6.5	5.5				
18883.85	5294.058	1	I						
18888.65	5292.713	1C	I						
18889.87	5292.369	3	I						
18893.35	5291.394	1	I						
18893.76	5291.281	1	I	9.0	8.0				
18895.98	5290.660	1	I						
18898.21	5290.034	3C	I						
18898.66	5289.910	1C	I						
18903.06	5288.678	1C	I						
18905.60	5287.967	3C	I						
18915.64	5285.159	1	I						
18916.26	5284.987	3C	II						
18917.95	5284.516	1	I						
18918.69	5284.307	1	II						
18919.31	5284.134	1	I						
18920.68	5283.753	1C	I						
18922.14	5283.343	3	I						
18922.31	5283.296	1C	II	5.5	6.5				
18925.66	5282.360	3C	I	4.0	4.0				
18926.70	5282.072	3C R	I	7.0	8.0	1.35	1.35		
18928.41	5281.594	1C	I						
18932.72	5280.391	1C	I	9.0	8.0				
18933.29	5280.232	3	I						
18935.21	5279.698	1C	II						
18939.83	5278.408	1C	I						
18940.12	5278.327	1C	I						
18941.72	5277.883	1C	I			0.22	1.18		
18942.44	5277.684	3C	I						
18943.54	5277.377	3C	II	5.5	5.5				
18945.44	5276.846	1C	I						
18947.08	5276.389	1	II						
18948.37	5276.032	1	I						
18948.78	5275.916	3	I						
18949.18	5275.805	1	I						
18951.03	5275.291	1C	II						
18952.09	5274.994	3	I						
18955.42	5274.068	1C	I	7.0	6.0	1.32	1.35		
18959.70	5272.876	3	I						
18961.96	5272.248	1C	II	6.5	7.5	1.31	1.23		
18965.79	5271.186	0	I						
18967.30	5270.765	3C	I			1.30	1.30		

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
18971.01	5269.734	1	I						
18973.84	5268.949	30	I						
18980.46	5267.111	300 R	I	9.0	8.0	1.31	1.34	1	9990-28971
18983.69	5266.215	10	I						
18985.38	5265.746	3	I						
18990.40	5264.354	30	I	9.0	9.0				17727-36717
18993.31	5263.546	1	I						
18997.02	5262.519	3	I						
19004.10	5260.558	1000	I			0.23	1.01	1	
19006.55	5259.880	300	I			1.21	1.21	4	
19012.00	5258.372	10	II						
19023.02	5255.326	10	I						
19024.03	5255.047	1	II						
19028.85	5253.715	1	I						
19039.40	5250.804	10	I						
19047.93	5248.454	3	I						
19049.06	5248.141	30	II						
19050.51	5247.742	10	I						
19052.05	5247.318	10	I						
19053.41	5246.944	3	II						
19055.43	5246.387	30	I						
19056.64	5246.054	3	I						
19058.05	5245.668	1	I						
19069.61	5242.485	1	I						
19069.93	5242.400	0	II						
19071.12	5242.071	10	I						
19073.33	5241.463	10	I						
19075.40	5240.894	30	I						
19084.59	5238.372	100	I					1	
19086.50	5237.847	1	I						
19092.31	5236.253	300 R	I	8.0	8.0	1.33	1.24	3	19092- 0
19095.10	5235.489	1	I	9.0	9.0				17727-36822
19099.53	5234.275	3	I						
19101.47	5233.742	3	I						
19103.08	5233.301	3	I						
19104.28	5232.973	10	II						
19106.46	5232.374	10	I	7.0	6.0				14367-33474
19108.02	5231.948	10	I						
19116.86	5229.530	10	I						
19119.88	5228.702	3	I						
19119.95	5228.682	1	I						
19123.08	5227.827	30	I	7.0	7.0				23257- 4134
19124.60	5227.411	10	I						
19124.72	5227.381	1	I						
19126.40	5226.919	100	I						

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
19133.32	5225.028	3	I						
19140.47	5223.078	3	I						
19144.49	5221.980	30	I					3	
19149.17	5220.704	3	II	7.5	6.5				26634- 7485
19150.57	5220.322	10	II						
19152.30	5219.852	3	II						
19159.64	5217.853	30							
19164.87	5216.427	10	I						
19165.67	5216.212	10	I						
19168.60	5215.412	3	II						
19172.22	5214.428	0	I						
19181.03	5212.033	30	I						
19186.41	5210.571	10	I						
19187.11	5210.380	0	II						
19187.82	5210.187	10	I						
19190.18	5209.547	1	I	8.0	7.0				18021-37212
19195.45	5208.118	0	I						
19200.10	5206.857	1	II						
19204.23	5205.736	3	I						
19204.50	5205.663	3	I						
19205.56	5205.375	10	I	8.0	8.0				16733-35938
19212.67	5203.449	0	I						
19216.79	5202.334	3	II						
19222.36	5200.826	10	I						
19227.22	5199.511	10	I	9.0	8.0				17727-36954
19227.65	5199.394	1	I						
19234.05	5197.664	1000	II	6.5	7.5			1	23575- 4341
19236.63	5196.969	10	I						
19237.20	5196.814	30	I						
19247.43	5194.053	10	I						
19247.90	5193.926	0	I						
19251.83	5192.865	3000	II	8.5	8.5	1.28	1.29	3	19251- 0
19253.20	5192.495	30	I	6.5	5.5				32591-13338
19260.49	5190.529	1	I						
19261.49	5190.262	3	I						
19267.25	5188.710	3	I	9.0	9.0				13495-32763
19268.20	5188.452	30	II						
19272.37	5187.332	1	I						
19273.66	5186.984	1	II						
19278.74	5185.615	10	I						
19279.93	5185.297	3	I	8.0	9.0				12007-31287
19280.44	5185.158	300	I			0.24	0.98	1	
19282.87	5184.506	100	I	8.0	7.0			2	7565-26848
19284.31	5184.119	3	I						
19291.34	5182.231	0	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
19299.25	5180.105	3	I						
19301.62	5179.470	3	I						
19302.61	5179.203	10							
19305.46	5178.440	1	I						
19308.68	5177.575	30	I						
19317.59	5175.187	30	I	7.0	7.0			3	18433-37751
19318.00	5175.079	30	I						
19322.51	5173.871	30	I						
19322.65	5173.833	30	I						
19326.15	5172.895	30	II						
19329.80	5171.919	100	I	6.0	7.0			2	23464- 4134
19330.94	5171.614	3	I						
19336.25	5170.193	30	II						
19336.36	5170.164	0	II						
19338.14	5169.688	1000	II	7.5	7.5	1.29	1.19	3	20166- 828
19338.53	5169.584	100	I						
19339.70	5169.271	3	I						
19340.30	5169.111	10	I						
19344.05	5168.110	30	I						
19345.54	5167.711	10	I	7.0	7.0				23479- 4134
19340.70	5166.845	100	II			0.311	1.136	3	
19351.32	5166.168	1	I						
19352.62	5165.821	1	I						
19354.23	5165.390	30	I						
19354.43	5165.338	100	I						A
19355.42	5165.073	10	I						
19359.01	5164.116	30	II					1	
19365.67	5162.339	3	I						
19370.59	5161.027	30	II			0.084	1.154	1	
19371.76	5160.716	3	I	9.0	9.0				21838-41210
19376.56	5159.437	1	I	8.0	8.0				18021-37398
19377.59	5159.162	100	I	7.0	8.0	1.33	1.33	4	8519-27896
19378.52	5158.917	10	II						
19382.69	5157.805	10	I						
19386.45	5156.805	10	I						
19389.36	5156.031	1	I						
19392.09	5155.305	300	I					3	
19394.81	5154.582	3	I						
19397.42	5153.889	1	I						
19404.68	5151.962	1	I						
19405.15	5151.835	3	I	9.0	8.0				15972-35377
19406.01	5151.607	10	I						
19407.17	5151.299	10	I						
19411.55	5150.137	10	I	7.0	7.0				18339-37751
19412.10	5149.993	1	I						

TABLE

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	OCC	EVEN
19413.42	5149.642	100	I	9.0	10.0					15972-35385
19415.93	5148.976	10	I							
19422.66	5147.192	30	I							
19423.24	5147.039	3	II							
19423.46	5146.978	30	I	6.0	7.0					10088-29512
19427.25	5145.976	0	I							
19427.69	5145.859	0	I							
19430.13	5145.212	30	II			1.35	1.35	4		
19438.32	5143.044	3	I	7.0	7.0					14367-33806
19440.78	5142.395	3	I	7.0	7.0					8519-27959
19443.58	5141.652	3	I							
19444.07	5141.524	10	I							
19448.18	5140.436	3	I							
19451.35	5139.598	1000	II	9.5	8.5	1.21	1.29	1	19451-	0
19455.58	5138.482	3	I							
19462.88	5136.554	10	I							
19463.87	5136.292	0	II							
19465.02	5135.991	1	I							
19468.69	5135.023	100	I	7.0	6.0	1.33	1.30	2		8519-27987
19474.07	5133.603	30	I	9.0	9.0	1.32	1.32	4		9990-29465
19477.13	5132.797	10	I							
19478.06	5132.553	10	I							
19479.31	5132.221	10	I							
19480.43	5131.928	30	I							
19483.49	5131.121	3	I							
19483.69	5131.068	1	II							
19483.69	5131.068	1	I							
19486.47	5130.336	3	I							
19487.07	5130.179	3	I							
19488.01	5129.930	3	I							
19488.33	5129.846	10	II							
19493.09	5128.593	3	I							
19494.24	5128.292	30	I	8.0	8.0					7565-27059
19497.30	5127.487	3	I							
19500.84	5126.556	1	I							
19504.73	5125.534	3	I							
19505.22	5125.404	1	I							
19513.09	5123.337	1	I							
19513.92	5123.119	10	I							
19516.63	5122.408	30	I							
19520.58	5121.372	10	I							
19525.67	5120.036	1000 R	I			0.22	1.03	1		
19526.02	5119.945	30	I							
19529.26	5119.095	1	I							
19537.31	5116.985	3	I							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	OCC	EVEN
19538.18	5116.759	1	I							
19540.19	5116.232	1	I							
19541.41	5115.911	1	I							
19541.51	5115.885	1	I							
19543.30	5115.417	1	I							
19547.92	5114.208	1	I							
19549.03	5113.919	3	I	8.0	9.0					14625-34174
19550.95	5113.415	10	II	5.5	4.5					33677-14126
19553.64	5112.713	30	I	6.0	7.0					23687- 4134
19556.45	5111.977	1	I							
19559.04	5111.300	3	I							
19562.79	5110.321	100	I			0.464	1.39	3		
19569.94	5108.454	10	I	8.0	9.0					18021-37591
19571.32	5108.092	10	II							
19571.74	5107.983	30	II			1.13	1.13	4		
19575.96	5106.883	30	I							3
19576.22	5106.815	10	I							
19578.02	5106.347	30	I							1
19580.35	5105.738	C	I							
19581.91	5105.331	30	I							
19593.35	5102.350	100	I	6.0	6.0	1.36	1.36	4		10088-29682
19594.44	5102.066	30	I							
19594.72	5101.992	3	I							
19598.43	5101.028	0	II							
19602.37	5100.003	30	I	7.0	7.0					23736- 4134
19602.98	5099.844	1	II							
19610.35	5097.926	1	II							
19611.23	5097.698	3	I							
19612.73	5097.307	10	I							
19613.50	5097.109	1								
19632.04	5092.295	30	I							
19632.39	5092.203	10	II							
19638.27	5090.680	3	I							
19639.40	5090.386	300	II	8.5	7.5	1.21	1.21	4		20467- 828
19646.99	5088.419	10	II							
19653.00	5086.864	10	I							
19658.92	5085.333	10	I	8.0	8.0					16733-36392
19659.89	5085.081	10	I							
19660.41	5084.947	100	I							
19666.97	5083.251	3	I	8.0	7.0					12007-31674
19668.26	5082.918	10	I							
19672.36	5081.859	3	I							
19675.30	5081.099	10	I							
19676.62	5080.757	10	II							
19677.30	5080.582	3	I							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
19678.89	5080.172	10	II							
19680.54	5079.746	3	I	9.C	9.0				21529-41210	
19685.15	5078.556	3	I							
19688.59	5077.669	300	R I	8.C	8.0	1.22	1.24	3	19688-	0
19694.30	5076.198	3	I							
19695.41	5075.910	1	II							
19697.87	5075.276	1	I	8.C	7.0				23832-	4134
19701.76	5074.274	10	I							
19706.89	5072.954	3	II							
19707.92	5072.687	0		6.5	6.5				27193-	7485
19711.52	5071.761	10	I							
19712.18	5071.592	0	II							
19712.90	5071.407	1	II							
19715.73	5070.678	1000	R I	9.C	10.0	1.32	1.32	4	9990-29706	
19727.12	5067.752	1	I	7.C	7.0				12655-32382	
19729.43	5067.157	3		8.0	7.0				18021-37751	
19733.97	5065.992	3	I							
19734.87	5065.760	10	I							
19735.74	5065.537	30	I	7.C	7.0				18528-38264	
19737.44	5065.102	30	I							
19739.21	5064.647	3	II							
19740.57	5064.297	10	I							
19742.65	5063.765	1	II	6.5	6.5				35434-15691	
19743.52	5063.541	10	I	8.C	7.0				23877-	4134
19743.94	5063.435	100	I					2		
19749.55	5061.995	10	I							
19750.84	5061.664	3	I							
19751.11	5061.594	30	II							
19754.48	5060.732	30	I							
19755.37	5060.503	1	I							
19757.51	5059.957	10	I							
19759.75	5059.381	1								
19760.84	5059.103	3								
19767.38	5057.429	3								
19768.53	5057.135	1		8.C	9.0				12007-31775	
19769.31	5056.937	1								
19771.99	5056.250	0	I							
19772.26	5056.180	10	II							
19773.52	5055.859	10	I	7.C	8.0				12655-32428	
19775.07	5055.462	100	I							
19775.59	5055.329	3								
19783.33	5053.352	100	I							
19783.97	5053.189	100	II			1.08	1.08	4		
19785.82	5052.716	10	I							
19788.14	5052.124	3	I							

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS CCC-EVEN
						G-C	G-E	TYPE	
19788.42	5052.053	1	I						
19788.58	5052.010	100	I	6.0	7.0	1.36	1.37	2	10088-29877
19790.22	5051.592	0	I	9.0	9.0				15972-35762
19791.60	5051.241	30	I						
19795.62	5050.215	300	I	7.0	6.0			1	26846- 7050
19798.34	5049.521	10	I						
19807.01	5047.309	10							
19807.25	5047.249	300	I	7.0	6.0	1.33	1.33	4	8519-28326
19808.88	5046.835	3		7.0	7.0				15194-35003
19810.97	5046.300	30	II						
19811.52	5046.161	3		7.0	8.0				19811- 0
19812.21	5045.985	3							
19812.61	5045.884	1	II						
19813.14	5045.750	10	I	8.0	8.0				12007-31820
19813.46	5045.668	1							
19814.12	5045.498	1							
19814.94	5045.291	3	I						
19819.11	5044.228	0	II						
19820.66	5043.834	0	II						
19821.49	5043.624	30	I						
19822.26	5043.420	0							
19824.63	5042.824	1							
19825.38	5042.634	10000 R	I	8.0	9.0	1.36	1.35	1	7565-27390
19825.92	5042.497	3							
19827.72	5042.038	30	I	7.0	8.0				18528-38356
19833.66	5040.529	10	II						
19834.24	5040.381	0							
19834.87	5040.221	30	I						
19836.08	5039.913	1	II						
19836.87	5039.712	3	I						
19837.77	5039.485	1	I						
19838.03	5039.417	0							
19839.17	5039.129	3	I						
19839.49	5039.046	100	I	7.0	7.0	1.33	1.34	3	8519-28358
19841.61	5038.508	3	I						
19842.79	5038.210	1							
19844.79	5037.702	10	I						
19847.94	5036.901	10	I						
19851.04	5036.114	0							
19852.49	5035.747	3							
19857.71	5034.423	0	I						
19857.99	5034.353	100	I						
19863.34	5032.996	100	I					1	
19864.67	5032.660	100	I	9.0	9.0	1.25	1.29	3	17727-37591
19870.43	5031.200	0	I	10.0	9.0				12892-32763

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
19878.20	5029.233	10	II						
19879.13	5028.999	10	I	7.0	8.0				20954-40833
19883.58	5027.874	100	I					3	
19886.20	5027.212	1	I						
19886.50	5027.136	1	I						
19893.50	5025.366	C	I						
19895.32	5024.907	3	I						
19895.76	5024.796	3	I						
19896.79	5024.536	300	I			0.34	0.98	1	
19898.28	5024.158	3	I	6.5	5.5				29769- 9870
19898.78	5024.033	100	I			0.13	1.59	2	
19906.36	5022.119	1000 K	I	6.0	7.0	1.26	1.17	1	24040- 4134
19907.49	5021.835	100	I	7.0	8.0	1.23	1.24	2	19907- 0
19909.12	5021.423	3	I						
19913.94	5020.207	3	I						
19914.63	5020.033	C	II						
19915.13	5019.907	3	I						
19916.59	5019.541	1	II						
19917.46	5019.319	10	I						
19921.81	5018.224	C	II						
19922.76	5017.986	30	II			0.101	1.23	1	
19924.90	5017.446	1	I						
19927.61	5016.765	C	II						
19928.22	5016.611	1	I						
19931.03	5015.904	C	I						
19935.99	5014.655	C	I						
19937.48	5014.281	0	II						
19941.56	5013.256	10	I						
19943.94	5012.656	1	I						
19944.25	5012.579	30	I						
19944.78	5012.444	3							
19945.32	5012.310	1	II						
19945.93	5012.156	30	I						
19947.38	5011.791	10	I						
19948.43	5011.529	30	I					3	
19950.00	5011.133	10	II	7.5	6.5				27435- 7485
19951.76	5010.691	3							
19952.10	5010.606	30	I					3	
19952.20	5010.580	1							
19956.42	5009.522	1	I						
19956.84	5009.415	3	I						
19958.95	5008.886	1	I						
19959.61	5008.721	1	I						
19959.89	5008.651	1	I						
19961.46	5008.258	0							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS CCC-EVEN
						G-C	G-E	TYPE	
19964.80	5007.418	30	II			1.36	1.36	4	
19965.68	5007.199	1	II						
19968.01	5006.614	3	I	9.0	9.0				15972-35940
19969.39	5006.267	10	I						
19970.91	5005.888	30	I						
19972.43	5005.507	3	I						
19973.60	5005.213	1	II						
19974.95	5004.874	3	I	8.0	9.0				16733-36708
19975.48	5004.742	1	I						
19975.84	5004.652	1	I						
19977.30	5004.285	300	II	5.5	6.5			2	27462- 7485
19978.97	5003.867	1000	I			0.500	0.766	1	
19983.30	5002.783	10	I						
19984.37	5002.514	10	I	8.0	9.0				16733-36717
19987.37	5001.763	0	I						
19988.28	5001.537	1	I						
19990.72	5000.925	1	I						
19991.66	5000.690	1	I						
19992.80	5000.407	3	I						
19993.59	5000.207	3	I						
19993.99	5000.108	1							
19998.23	4999.048	1							
19998.52	4998.976	10	II	5.5	5.5				27462- 7463
20000.57	4998.462	100	I	6.0	7.0			1	11673-31674
20003.24	4997.796	0	I						
20003.91	4997.630	10	I	8.0	9.0				19688-39692
20006.45	4996.993	3	I						
20007.34	4996.771	0	I						
20013.00	4995.359	30	II						
20014.31	4995.031	3	I	9.0	9.0				16693-36708
20015.20	4994.809	100	I						
20016.24	4994.549	3							
20017.81	4994.158	3		6.5	6.5				27502- 7485
20018.12	4994.079	3	I						
20018.71	4993.932	3	I	7.0	7.0				18433-38452
20019.35	4993.773	3	I						
20019.77	4993.670	3							
20020.38	4993.518	100	I	7.0	8.0			1	8519-28539
20020.38	4993.518	100	I	7.0	8.0			1	12655-32675
20021.79	4993.165	0	II						
20021.89	4993.141	0	I						
20023.89	4992.642	30	I						
20026.19	4992.067	1	I						
20026.87	4991.897	1							
20027.19	4991.819	1	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	GCC-EVEN
20027.47	4991.750	10	II						
20029.38	4991.273	3	I	8.0	7.0				12007-32036
20031.08	4990.849	1	I						
20031.69	4990.697	1	I						
20033.10	4990.346	3	I						
20033.55	4990.233	1							
20035.16	4989.834	1	I						
20036.22	4989.570	3	I						
20037.04	4989.365	3	I						
20039.07	4988.859	3		6.5	5.5				27502- 7463
20042.07	4988.112	3	I						
20044.15	4987.596	10	I						
20049.09	4986.365	3	I						
20051.02	4985.886	3							
20052.48	4985.523	100	I			0.38	1.35	3	
20054.31	4985.068	30	I	7.0	8.0				15194-35249
20054.80	4984.947	1	I						
20056.11	4984.622	10	I						
20059.34	4983.818	3	I						
20063.56	4982.770	3	I	8.0	9.0				14625-34689
20065.22	4982.357	1	I						
20065.84	4982.203	3	I						
20066.81	4981.964	10	I						
20068.06	4981.652	3		8.5	7.5				20896- 828
20068.06	4981.652	3							
20068.67	4981.502	0	I						
20070.94	4980.938	1							
20072.83	4980.469	0	I						
20074.21	4980.125	30	I	8.0	8.0				16733-36807
20083.01	4977.943	0	I						
20089.06	4976.444	10	I	8.0	9.0				16733-36822
20094.04	4975.212	30	I						
20094.93	4974.990	10	II						
20096.73	4974.544	10	I						
20098.92	4974.004	10	I						
20100.68	4973.568	100	I	8.0	9.0				18343-38444
20105.39	4972.404	1	I						
20105.54	4972.366	0	I						
20107.96	4971.769	100	I						
20115.68	4969.859	30	I						
20116.19	4969.734	3	I						
20118.95	4969.051	0							
20120.61	4968.643	0	I						
20122.96	4968.061	0	I						
20123.64	4967.894	10	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	OCC	EVEN
20128.19	4966.771	0	I							
20131.26	4966.013	0	I							
20134.66	4965.174	0	II							
20136.75	4964.659	0	I							
20139.14	4964.069	0	I							
20140.13	4963.825	10	I							
20143.15	4963.081	1	I							
20144.12	4962.843	3	I							
20144.74	4962.691	1	I							
20148.32	4961.809	0								
20148.59	4961.742	10	I							
20149.62	4961.487	0								
20149.99	4961.398	3	I							
20157.06	4959.657	30	I							
20157.34	4959.587	100	I							
20159.63	4959.025	3								
20160.86	4958.722	1								
20164.33	4957.868	1		6.0	5.0				29375-	9211
20165.70	4957.531	1000	II					2		
20166.49	4957.338	3000	II	7.5	8.5	1.27	1.28	1	20166-	0
20167.74	4957.031	0	II							
20168.23	4956.910	3	I							
20169.02	4956.715	3	I	5.5	5.5				33507-	13338
20169.76	4956.533	3	I							
20169.99	4956.478	3	I							
20170.36	4956.387	1	I							
20178.66	4954.349	30	II							
20182.66	4953.366	100	I	7.0	8.0			4	15194-	35377
20186.81	4952.347	0	I							
20187.33	4952.219	30	I							
20190.55	4951.431	100	I							
20191.33	4951.238	10	I							
20192.24	4951.016	100	I							
20193.13	4950.797	1	I							
20193.48	4950.712	0		10.0	9.0				12892-	33086
20195.18	4950.294	10	I	8.0	9.0				15567-	35762
20198.94	4949.374	0								
20199.16	4949.319	30	I	8.0	9.0				12007-	32206
20200.93	4948.885	3								
20201.61	4948.719	3								
20202.28	4948.555	0	I							
20203.32	4948.299	1	I							
20203.66	4948.217	100	I	8.0	9.0				14625-	34829
20204.82	4947.932	10	I							
20207.86	4947.187	10	I							

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA		LEVELS		
				J-C	J-E	G-C	G-E	TYPE
20209.10	4946.885	1	I	7.0	7.0			18528-38737
20210.50	4946.542	0	I					
20211.15	4946.384	0	I					
20211.65	4946.262	100	II					
20213.86	4945.720	1	I					
20214.75	4945.502	10	II					
20217.70	4944.782	3	I					
20220.98	4943.978	1						
20222.90	4943.509	0	I					
20223.16	4943.445	30	I					
20225.12	4942.967	0	I					
20225.60	4942.849	100	I					
20226.37	4942.662	10	I					
20226.88	4942.536	1	II					
20227.59	4942.364	1	I					
20230.04	4941.765	30	I					
20231.15	4941.495	10	I					
20232.14	4941.252	3	I					
20232.52	4941.159	100	I					
20233.09	4941.020	10	I					
20235.53	4940.425	100	I	7.0	6.0			4 15858-36093
20240.38	4939.239	3	I					
20244.02	4938.353	0						
20244.51	4938.233	0	I					
20247.31	4937.550	0	II					
20247.97	4937.389	30	I					
20250.25	4936.832	100	I					
20251.30	4936.577	0	I					
20253.22	4936.108	100	I			1.27	1.27	4
20255.37	4935.585	0	I					
20257.19	4935.141	10	I	9.0	8.0			13495-33753
20257.46	4935.075	1	I					
20258.18	4934.901	1	II					
20259.98	4934.463	1						
20260.90	4934.237	0	II					
20262.51	4933.845	100	II			1.45	1.45	4
20265.05	4933.228	30	I					
20265.87	4933.027	10	I					
20266.38	4932.903	10	II					
20268.14	4932.474	30	I					
20274.07	4931.031	100	I					
20274.62	4930.899	10	II					
20276.08	4930.544	3	II					
20277.66	4930.160	3	I					
20278.55	4929.944	3	I	6.5	5.5			33616-13338

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
20279.58	4929.693	3	I	6.C	7.0				18172-38452	
20280.55	4929.456	C								
20281.10	4929.322	3C	II							
20282.03	4929.098	1C	I							
20282.98	4928.867	3	I							
20285.27	4928.310	1C	I							
20286.82	4927.933	1	I							
20287.04	4927.880	0	I							
20287.45	4927.781	1	I							
20288.07	4927.630	3C	II							
20288.07	4927.630	1								
20289.29	4927.332	3C	II							
20290.15	4927.123	1C	I							
20290.40	4927.063	1C	I							
20292.33	4926.595	1	I							
20292.59	4926.533	3	I							
20295.84	4925.743	1	I							
20297.24	4925.404	10	I							
20300.11	4924.707	C								
20306.49	4923.160	300C	II	6.5	7.5	1.24	1.20	1	21134- 828	
20307.41	4922.937	10	II	6.5	6.5				27792- 7485	
20308.81	4922.596	3	II							
20309.15	4922.516	3C	I	7.C	8.0				14367-34676	
20310.36	4922.221	300	II					2		
20310.46	4922.196	1								
20310.75	4922.126	30	I							
20313.37	4921.492	300	I					3		
20316.44	4920.750	1	II							
20319.59	4919.986									
20321.37	4919.554	30	I							
20324.22	4918.864	3	II							
20325.11	4918.648	3	I							
20326.45	4918.324	0	I							
20326.79	4918.242	300	I			0.256	1.35	3		
20327.89	4917.976	10	I							
20328.59	4917.806	1C	II	6.5	5.5				27792- 7463	
20328.80	4917.756	10	I							
20329.84	4917.506	3	I							
20331.21	4917.175	30C	I	8.C	8.0	1.36	1.33	3	7565-27896	
20331.55	4917.092	C	II							
20332.23	4916.928	30	I							
20333.00	4916.742	C	I							
20334.37	4916.409	100C	I	8.C	8.0	1.22	1.22	4	18021-30356	
20339.64	4915.135	1	II	5.5	5.5				33677-13338	
20340.45	4914.940	3	II							

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA					LEVELS	
				J-C	J-E	G-C	G-E	TYPE	OCC	EVEN
20414.46	4897.121	10	II							
20415.20	4896.943	10	I							
20415.94	4896.765	3								
20416.35	4896.666	3		6.5	5.5					30287- 9870
20416.75	4896.571	3								
20418.05	4896.261	10								
20419.76	4895.850	300		9.0	8.0	1.29	1.33	1		15972-36392
20420.30	4895.720	3								
20422.10	4895.288	3								
20423.11	4895.046	10								
20423.91	4894.855	1								
20425.68	4894.430	1								
20427.95	4893.888	10	I	8.0	8.0					14625-35053
20428.83	4893.676	1000	I			0.067	1.34	3		
20430.24	4893.338	1	I							
20430.72	4893.223	1	I							
20431.58	4893.018	3	I							
20433.36	4892.592	10	II							
20433.85	4892.475	3	I							
20434.86	4892.233	0	I							
20436.40	4891.865	3		7.5	6.5					25192- 4755
20437.27	4891.655	3	I							
20437.66	4891.562	1	II							
20438.33	4891.401	3								
20439.43	4891.139	100	I							
20440.57	4890.865	1	II							
20443.76	4890.102	1000	II			0.038	1.203	1		
20445.09	4889.783	30	II							
20447.00	4889.327	300	II			0.077	1.428	2		
20447.98	4889.092	30	I							
20452.21	4888.081	3000 R	I	7.0	8.0	1.34	1.35	2		8519-28971
20452.74	4887.954	300	I							
20453.02	4887.888	10	I							
20454.85	4887.452	3	I							
20455.86	4887.209	0								
20456.83	4886.975	1	I							
20457.71	4886.767	0								
20460.32	4886.144	100	I							
20464.53	4885.139	30	I							
20465.59	4884.886	30	II							
20466.99	4884.551	1000	I						3	
20467.72	4884.377	100	II	8.5	8.5					20467- 0
20468.67	4884.152	1000	I	9.0	9.0				3	9990-30459
20469.29	4884.004	30	I							
20471.65	4883.440	3	I							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	OCC-EVEN	
20475.83	4882.444	10	I							
20476.11	4882.378	1								
20476.65	4882.248	1								
20477.22	4882.111	30	II							
20477.58	4882.027	10	I							
20477.77	4881.981	10	II							
20478.35	4881.842	3	I							
20478.89	4881.714	C		8.0	7.0					16733-37212
20481.88	4881.000	3	I							
20482.43	4880.871	0		6.5	7.5					35434-14952
20483.04	4880.724	1	I							
20483.94	4880.510	0								
20485.41	4880.161	10000 R	I	7.0	8.0	1.375	1.240	1	20485-	0
20486.69	4879.855	10	II							
20489.06	4879.290	3	I							
20489.57	4879.170	30	I							
20491.30	4878.756	3	II							
20492.11	4878.563	0								
20492.89	4878.378	1								
20493.45	4878.246	1	I							
20494.88	4877.904	3	I							
20496.67	4877.479	3	I							
20498.20	4877.115	10	I							
20498.80	4876.973	0	II	7.0	8.0					15439-35938
20501.61	4876.302	3	I							
20502.64	4876.060	10	I							
20503.19	4875.927	1000	I			0.12	1.11	1		
20504.63	4875.586	10	I							
20505.16	4875.460	100	II	5.5	6.5					27990- 7485
20506.98	4875.026	1	I							
20508.86	4874.579	3	II							
20509.87	4874.340	3	I							
20512.05	4873.821	3	I							
20514.84	4873.159	300	I	9.0	9.0	1.30	1.31	3	15972-	36487
20517.37	4872.557	10	I							
20517.71	4872.476	100	I	9.0	10.0					15972-36490
20518.21	4872.359	10	I							
20519.93	4871.950	C	I							
20523.21	4871.171	3	II							
20523.95	4870.997	0								
20526.42	4870.410	C	II	5.5	5.5					27990- 7463
20527.83	4870.075	10	I							
20529.58	4869.660	30	I	8.0	8.0					18021-38551
20531.54	4869.194	C	II							
20533.07	4868.032	30	I	6.0	7.0					10088-30621

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS CCC-EVEN
						G-C	G-E	TYPE	
20533.84	4868.650	10	I						
20535.15	4868.340	3	I						
20536.00	4868.138	3	I						
20536.37	4868.050	1000	II			0.32	0.921	1	
20537.61	4867.756	30	I						
20539.07	4867.410	3	I						
20540.15	4867.154	10	I						
20540.70	4867.024	0	I						
20542.13	4866.685	1	I						
20542.93	4866.494	10	I						
20543.77	4866.298	1		8.5	7.5				35495-14952
20546.36	4865.682	30	I						
20547.73	4865.359	10	I	8.0	8.0				12007-32554
20548.76	4865.114	10	II						
20549.70	4864.870	1	I	7.0	6.0				15144-35744
20554.60	4863.733	0	II						
20560.51	4862.334	0	II						
20561.72	4862.048	10	I						
20562.78	4861.798	10	I	8.0	7.0				16733-37295
20563.19	4861.701	10	I						
20564.62	4861.363	10	II	5.5	4.5				34691-14126
20567.41	4860.702	1	I						
20567.75	4860.623	1	I						
20568.65	4860.410	1	I						
20569.28	4860.261	3	I						
20569.59	4860.188	1		9.0	9.0				9990-30560
20570.01	4860.089	3							
20570.17	4860.051	30	I			1.33	1.33	4	
20573.98	4859.150	30	I						
20574.74	4858.971	300	I	7.0	7.0	1.26	*1.175	3	24708- 4134
20578.77	4858.021	0	II						
20579.46	4857.857	10	I						
20580.48	4857.617	3	I						
20581.51	4857.373	30	I						
20582.27	4857.195	10	I						
20585.30	4856.479	3		4.5	4.5				34712-14126
20586.31	4856.239	300	II			0.86		3	
20589.12	4855.578	300	I			0.122	1.322	3	
20590.61	4855.225	100	I	6.5	6.5			3	36282-15691
20590.99	4855.136	100	I	7.0	8.0				12655-33246
20591.66	4854.978	3							
20592.91	4854.685	10	I	8.0	9.0				7565-20150
20594.21	4854.378	3	I	8.0	9.0				14625-35219
20594.71	4854.258	3	I						
20597.29	4853.652	0	I						

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C		J-E		ZEEMAN DATA		LEVELS OCC-EVEN
				G-C	G-E	G-C	G-E	TYPE		
20599.12	4853.220	3								
20600.60	4852.871	1	I							
20601.13	4852.747	3	I							
20602.11	4852.517	100	I						3	
20602.74	4852.367	3	I	9.C	10.0					17725-38329
20603.28	4852.240	1	I							
20603.93	4852.087	C	I							
20606.15	4851.564	10	I							
20606.44	4851.495	10	II							
20606.70	4851.435	100	I						3	
20608.75	4850.952	10	I							
20609.19	4850.850	30	I	9.C	8.0	1.32	1.32	4		9990-30600
20609.75	4850.718	3	I							
20611.36	4850.338	C	I							
20612.57	4850.053	C	I							
20612.80	4850.000	C								
20616.19	4849.201	10	I							
20618.41	4848.680	10	I							
20619.13	4848.511	3								
20621.06	4848.056	3	I							
20623.38	4847.512	3	I							
20626.22	4846.844	1	II	6.5	6.5					28111- 7485
20629.14	4846.158	3	I	9.C	8.0					17727-38356
20630.76	4845.778	300	I						1	
20631.43	4845.621	30	I							
20632.91	4845.272	10	I	8.C	7.0					16733-37366
20634.68	4844.856	30	I							
20635.93	4844.563	3	I	7.C	7.0					14367-35003
20637.11	4844.286	10	I							
20638.21	4844.028	30	I						1	
20639.32	4843.767	100	I	4.C	5.0					29850- 9211
20639.69	4843.680	3	I							
20640.46	4843.500	10	II							
20640.79	4843.422	10	II							
20643.38	4842.814	3	I							
20645.14	4842.402	3	I							
20646.03	4842.192	100	I							
20646.75	4842.024	100	I							
20647.36	4841.881	10	II	6.5	5.5					28111- 7463
20647.91	4841.752	300	I						1	
20650.01	4841.259	10								
20650.77	4841.082	30	I							
20651.15	4840.992	10	I							
20651.52	4840.907	0	II							
20653.42	4840.461	300	II			0.15	0.866	1		

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
20654.26	4840.265	3	I						
20654.66	4840.169	100	I						
20656.76	4839.677	10	I						
20662.28	4838.384	3		7.0	8.0				18433-39096
20662.52	4838.328	3	I						
20663.44	4838.113	0	I						
20663.72	4838.047	1	I						
20664.67	4837.826	1							
20665.28	4837.683	100	I	8.0	8.0				16733-37398
20666.83	4837.319	3	I						
20667.30	4837.210	30	I						
20668.42	4836.947	100	I	8.0	8.0	1.28	1.28	4	12007-32675
20670.31	4836.507	C	I						
20671.78	4836.161	10	I						
20672.24	4836.054	10	I						
20675.74	4835.234	C	I						
20678.74	4834.534	3	I	9.0	9.0				13495-34174
20679.73	4834.303	30	I						
20680.64	4834.089	3	I						
20681.60	4833.864	3	I						
20682.07	4833.754	300	II			0.244	1.689	2	
20684.32	4833.229	10	I						
20685.32	4832.995	0	I						
20687.97	4832.377	1000	I			1.32	1.32	4	
20689.42	4832.038	30	I						
20690.71	4831.736	0	I						
20691.94	4831.450	0	I						
20692.19	4831.392	C		8.0	9.0				18343-39035
20693.81	4831.014	0	I						
20694.38	4830.879	10	II						
20695.07	4830.720	0	I	6.5	6.5				36387-15691
20695.90	4830.524	0							
20696.49	4830.388	1	I						
20699.88	4829.597	0	I						
20701.29	4829.268	C	I						
20701.88	4829.130	100	II						
20702.95	4828.880	1000	I			0.40	0.86	1	
20704.60	4828.494	10	I	9.0	8.0				16693-37398
20704.60	4828.494	10		6.0	7.0				16591-37295
20706.06	4828.155	0	I						
20707.71	4827.769	3	II						
20708.79	4827.519	100	I	6.0	7.0	1.40	1.37	1	11673-32382
20709.71	4827.303	100	I					3	
20710.36	4827.153	10	II						
20710.85	4827.037	10	II						

TABLE

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
20711.30	4826.934	1	I						
20711.87	4826.800	0	I						
20712.25	4826.713	3	I						
20712.92	4826.555	300	II					3	
20715.76	4825.894	3	I	8.C	7.0				12007-32722
20715.76	4825.894	3	I	8.C	7.0				18021-38737
20719.09	4825.118	30	I						
20719.75	4824.964	1000	I			0.143	1.281	3	
20721.31	4824.603	3	II						
20722.75	4824.266	30	I						
20723.20	4824.160	30	II						
20724.40	4823.881	1							
20724.67	4823.820	10	I						
20725.08	4823.723	300	I	9.C	9.0			3	9990-30716
20725.55	4823.614	3							
20727.30	4823.207	0	I						
20727.61	4823.136	1	I						
20728.56	4822.914	0	I						
20729.13	4822.782	10	I						
20730.35	4822.498	0	I						
20731.49	4822.233	1							
20731.87	4822.143	1	I						
20732.35	4822.031	10	II						
20732.89	4821.907	30	I						
20734.18	4821.607	1	I						
20734.99	4821.419	1							
20735.53	4821.293	1000	I					1	
20736.30	4821.114	100	I						
20736.63	4821.037	30	I						
20737.56	4820.822	0	I						
20738.35	4820.638	10	I						
20739.73	4820.316	10	I						
20739.91	4820.275	10	I						
20740.72	4820.087	100	I	8.C	8.0			3	15567-36308
20742.57	4819.655	1	I						
20742.91	4819.579	0	I						
20743.71	4819.391	10							
20745.22	4819.041	3000 R	I	9.C	9.C	1.29	1.29	4	15972-36717
20746.24	4818.804	0	I						
20747.03	4818.619	0	I						
20748.83	4818.203	300	I	9.C	8.0	1.35	1.35	4	9990-30739
20749.30	4818.092	10	I						
20750.00	4817.930	10	I						
20751.88	4817.494	1		8.C	8.0				14625-35377
20752.01	4817.464	10	I			1.23	1.23	4	

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	CCC-EVEN	
20752.70	4817.304	10	I							
20753.71	4817.069	30	I							
20754.13	4816.971	1								
20756.09	4816.517	100	I	8.C	9.0	1.29	1.30	2	12007-32763	
20757.40	4816.212	30	I							
20761.48	4815.266	3	I							
20762.39	4815.056	C								
20763.75	4814.739	10	I							
20766.29	4814.150	100	I	7.C	8.0			2	20766-	0
20767.81	4813.798	10	II							
20768.37	4813.670	10	I							
20769.83	4813.331	3								
20770.89	4813.084	10	II							
20772.12	4812.801	1000	I	7.C	8.0	1.32	1.35	2	8519-29291	
20772.65	4812.677	1000	I	7.C	7.0	1.14	*1.175	3	24906-	4134
20772.98	4812.601	10	I							
20774.17	4812.325	0								
20775.52	4812.012	3	I							
20776.43	4811.803	0	I							
20777.45	4811.565	3	I							
20779.45	4811.102	3								
20780.44	4810.873	C	I							
20780.75	4810.802	10	II							
20782.35	4810.431	3	I							
20783.02	4810.276	300	I					1		
20783.61	4810.139	100	I							
20784.34	4809.969	3	I	7.0	6.0				27834-	7050
20785.77	4809.640	3	I							
20788.29	4809.057	30	I							
20789.66	4808.739	300	I					3		
20790.70	4808.500	3	I							
20791.80	4808.244	3	I							
20792.13	4808.167	C	I							
20793.11	4807.942	1000	I	8.C	7.0	1.36	1.36	4	7565-28358	
20793.93	4807.751	0	I	8.C	8.0				20793-	0
20793.93	4807.751	0	I	8.C	8.0				16733-	37527
20794.79	4807.553	10	II							
20795.77	4807.327	10	II							
20796.05	4807.262	0	I							
20797.40	4806.950	300	I			0.286	1.455	2		
20799.45	4806.476	0								
20799.73	4806.412	1	I							
20802.20	4805.840	10	II							
20802.93	4805.671	10	I							
20803.24	4805.600	C	II							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-Q	G-E	TYPE	CCC-EVEN	
20804.20	4805.377	C	I							
20804.93	4805.210	C	I							
20805.86	4804.995	C	I							
20806.41	4804.867	10	I							
20807.72	4804.566	100	I							
20807.95	4804.512	300	I			1.32	1.32	4		
20809.35	4804.190	10	I							
20810.18	4803.999	1								
20810.97	4803.814	C	I							
20811.34	4803.729	1								
20812.21	4803.528	10	II			1.20	1.20	4		
20816.57	4802.523	30	I							
20817.46	4802.317	1	I							
20817.99	4802.196	30	I							
20818.22	4802.142	10	II							
20818.80	4802.009	100	I			0.20	1.11	1		
20819.47	4801.853	3	II							
20819.78	4801.783	3								
20822.66	4801.117	30	I	7.C	8.0				20822-	0
20822.91	4801.062	0	I							
20824.31	4800.739	100	I	9.0	8.0	1.25	1.25	4	17727-38551	
20824.74	4800.639	1000	I	8.C	8.0	1.32	1.34	3	15567-36392	
20825.54	4800.453	0	I							
20826.14	4800.315	1	II							
20827.49	4800.004	1	I							
20828.25	4799.829	3	I							
20830.09	4799.405	3	I							
20831.18	4799.154	1	II							
20831.81	4799.010	1	I							
20833.27	4798.673	100	I	9.C	8.0				16693-37527	
20833.83	4798.544	10	I							
20834.37	4798.420	300	I					3		
20834.96	4798.284	30	I	9.C	8.0				15972-36807	
20835.26	4798.215	30	I							
20836.18	4798.004	30	I							
20836.45	4797.941	10	I							
20837.63	4797.669	30	II							
20838.05	4797.571	30	II			1.38	1.38	4		
20839.69	4797.195	3	I							
20840.93	4796.910	3	II							
20842.37	4796.577	3	I							
20842.65	4796.513	1	I							
20843.17	4796.394	C	II							
20844.35	4796.122	1	I							
20846.06	4795.729	1	I							

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCD-EVEN
20847.14	4795.480	3	II	5.5	5.5				30718- 9870
20848.12	4795.255	1	I	8.0	8.0				18021-38870
20848.73	4795.116	0	I						
20849.31	4794.980	100	II						
20849.90	4794.845	300	I	9.0	9.0	1.30	1.25	3	15972-36822
20850.40	4794.730	1	I						
20850.94	4794.606	100	II	7.5	7.5				25192- 4341
20852.52	4794.244	1	I						
20852.93	4794.150	0	I						
20853.12	4794.105	1							
20853.22	4794.082	0	I						
20853.63	4793.987	1	I						
20854.19	4793.859	3	I						
20856.55	4793.318	30	I						
20857.31	4793.142	300	I						
20858.21	4792.934	100	II						
20858.61	4792.843	300	I	8.0	9.0	1.27	1.27	4	16733-37591
20859.18	4792.713	1	II						
20859.83	4792.563	300	I			1.25	1.25	4	
20861.08	4792.277	1	I						
20862.63	4791.920	100	I						
20862.97	4791.842	3	II						
20863.34	4791.755	10	I						
20865.38	4791.289	3000 R	I	8.0	7.0	1.19	1.18	2	24999- 4134
20867.17	4790.877	0	I						
20867.87	4790.717	0	I						
20869.01	4790.455	100	I			1.27	1.27	4	
20869.87	4790.257	10	I						
20870.57	4790.097	0	II						
20871.38	4789.911	100	I						
20872.87	4789.568	30	I						
20873.97	4789.315	0	I						
20874.63	4789.166	10							
20874.97	4789.088	0							
20875.71	4788.917	3	II						
20878.00	4788.393	300	I	8.0	7.0	1.34	*1.175	2	25012- 4134
20881.38	4787.617	1	I						
20882.59	4787.339	0	I						
20883.62	4787.104	0	I						
20884.01	4787.015	10	II						
20884.43	4786.919	1000	II						
20885.64	4786.641	0	I						
20886.26	4786.499	10	II						
20886.45	4786.455	3	II						
20887.38	4786.241	30	II						

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
20887.54	4786.206	C	I						
20889.47	4785.763	3C	I						
20891.07	4785.397	3	I						
20891.51	4785.295	30C	I			1.34	1.34	4	
20891.87	4785.212	10C	I						
20892.80	4785.000	1C	I						
20893.24	4784.900	30C	II					2	
20893.95	4784.738	0	I						
20894.65	4784.576	100	I			1.20	1.20	4	
20895.06	4784.482	1	I						
20896.02	4784.263	1C	I						
20896.41	4784.173	1	II	8.5	8.5				20896- 0
20897.72	4783.873	0	I						
20898.25	4783.752	3	I						
20898.70	4783.650	3	I	7.0	6.0				15194-36093
20899.45	4783.478	30	I						
20900.34	4783.273	C	I						
20904.28	4782.372	1	I						
20905.06	4782.194	C	I						
20905.31	4782.136	C	I						
20906.25	4781.921	3	II						
20906.72	4781.814	30C	I			0.139	1.041	1	
20908.29	4781.455	0	I						
20909.36	4781.209	1	I						
20910.18	4781.023	10C	II			1.31	1.31	4	
20911.57	4780.706	10C	I						
20912.09	4780.585	0	I						
20914.02	4780.145	10C	I						
20915.54	4779.797	C	I						
20917.49	4779.353	1	I						
20917.80	4779.282	1C	I						
20918.82	4779.049	1	I						
20919.85	4778.813	10	I	8.0	9.0				15567-36487
20920.16	4778.743	C	I						
20922.37	4778.236	C	I						
20922.85	4778.128	C	I						
20923.15	4778.058	3	II						
20923.69	4777.936	30	I						
20925.57	4777.507	1	I						
20927.14	4777.149	1	I						
20928.32	4776.879	C	I						
20928.48	4776.841	1C	II						
20931.05	4776.257	10	I						
20932.15	4776.005	1C	I						
20933.09	4775.789	30C R	I			0.296	0.951	1	

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
20933.91	4775.604	30	I	7.C	6.0				27984- 7050
20934.49	4775.471	100	I						
20935.57	4775.225	10	I						
20935.94	4775.141	0	II						
20936.35	4775.046	0	I						
20937.42	4774.804	1000	I			0.287	0.952	1	
20938.94	4774.457	100	II						
20939.68	4774.286	100	II						
20940.38	4774.127	3	II						
20940.59	4774.081	3	I						
20941.43	4773.888	100	I						
20941.90	4773.781	30	II						
20942.39	4773.669	30	II						
20943.21	4773.482	3							
20943.71	4773.367	100	I	8.C	8.0				16733-37676
20944.44	4773.203	1							
20944.66	4773.151	30	II						
20945.35	4772.994	10	I						
20945.68	4772.920	0							
20946.24	4772.791	0	I						
20947.12	4772.592	10	I						
20947.77	4772.444	100	I						
20948.42	4772.296	1	I						
20948.62	4772.248	1	I						
20949.99	4771.937	1000	I			0.46	0.695	1	
20951.10	4771.685	0							
20951.52	4771.589	3	I	8.0	8.0				18021-38973
20952.65	4771.332	3	I						
20953.35	4771.172	10	I						
20953.92	4771.042	3	I						
20954.19	4770.981	10	I	7.C	8.0				20954- 0
20954.99	4770.799	30	II						
20957.95	4770.125	1	II						
20959.23	4769.834	3							
20959.67	4769.734	1	II						
20960.16	4769.622	100	II						
20961.15	4769.397	1							
20961.53	4769.312	1	II						
20962.53	4769.082	3	II						
20963.56	4768.850	1	II						
20964.03	4768.741	30	I						
20965.33	4760.445	100	I						
20966.20	4768.248	1	II						
20966.53	4768.173	30	I						
20967.07	4768.051	3	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
20968.39	4767.750	1							
20969.06	4767.599	3	I						
20971.02	4767.151	100		6.5	6.5				28456- 7485
20971.63	4767.013	1	II						
20972.15	4766.895	1	II						
20973.75	4766.531	3							
20973.97	4766.481	100	I	8.0	8.0			3	7565-28539
20976.58	4765.884	3	II						
20977.92	4765.585	1	II						
20979.55	4765.215	10	I						
20980.96	4764.895	1	I						
20981.11	4764.859	10	I						
20981.62	4764.744	30	II						
20982.02	4764.652	300	I	9.0	8.0	1.29	1.29	4	15972-36954
20983.29	4764.365	100	II	6.5	5.5				30854- 9870
20985.62	4763.835	300	II			1.27	1.27	4	
20986.48	4763.639	100	I						
20987.02	4763.518	1	I						
20988.35	4763.216	1	I						
20988.58	4763.163	3	I	9.0	8.0				9990-30979
20989.62	4762.928	0	I						
20990.42	4762.747	1	II						
20990.70	4762.682	10	I						
20991.95	4762.400	30	I						
20993.18	4762.120	10	I						
20994.53	4761.813	10	I						
20995.03	4761.701	10							
20995.78	4761.531	30	I						
20996.77	4761.307	300	I						
20999.37	4760.715	3	I	7.0	7.0				25133- 4134
21000.09	4760.553	10	I						
21001.97	4760.127	30	I						
21002.33	4760.046	1000	II	8.5	7.5	1.26	1.23	2	25343- 4341
21002.66	4759.970	100	II			1.43	1.43	4	
21003.43	4759.797	1	I						
21004.72	4759.504	3	I						
21006.16	4759.177	0	I						
21006.38	4759.128	0	I						
21007.22	4758.937	0	I						
21008.02	4758.756	0	I						
21008.13	4758.730	0	II						
21009.70	4758.375	100	I	7.0	8.0	1.28	1.29	2	14367-35377
21011.33	4758.005	10	I						
21012.18	4757.814	1	I						
21013.21	4757.580	30	I	6.0	5.0				30224- 9211

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
21013.97	4757.408	30	I	8.0	9.0			2	18021-39035
21015.10	4757.152	1							
21015.49	4757.064	10							
21017.23	4756.672	300	II	6.5	6.5	1.368	*1.132	3	25772- 4755
21017.85	4756.530	100	I						
21020.21	4755.996	3	II						
21021.32	4755.746	1	II						
21022.49	4755.481	0	I						
21023.14	4755.333	1	I						
21023.38	4755.278	3	I						
21024.00	4755.139	10	I						
21024.66	4754.990	300	II			0.44	0.751	1	
21025.28	4754.849	0	I						
21026.01	4754.685	3	I						
21027.17	4754.422	30	I						
21031.58	4753.426	10	I						
21032.15	4753.296	10	I						
21033.26	4753.045	3	I	8.0	8.0				18343-39376
21034.48	4752.770	3	I						
21035.23	4752.601	10	I						
21035.96	4752.434	10	I	6.0	7.0				10000-31124
21036.56	4752.300	10	II						
21037.01	4752.199	10	II						
21038.87	4751.778	3	I						
21039.89	4751.547	3	I						
21040.90	4751.319	100	I						
21048.83	4749.529	100	I						
21049.39	4749.403	10	I	6.0	7.0				11673-32722
21049.99	4749.268	30	I						
21050.86	4749.071	0	I						
21054.77	4748.190	100	I						
21055.15	4748.104	10	I						
21056.19	4747.870	1	II						
21057.29	4747.621	1	I						
21057.92	4747.480	0	I						
21059.40	4747.146	3	I						
21060.23	4746.958	10	I						
21061.74	4746.619	0	I						
21063.14	4746.302	0	I	6.0	7.0				19182-40245
21063.55	4746.209	10	II						
21065.44	4745.784	300	II			0.384	1.42	3	
21065.68	4745.730	100	I	6.5	6.5				28550- 7485
21065.68	4745.730	100	I	5.0	4.0				31990-10925
21066.30	4745.591	300	I			0.265	1.577	2	
21068.52	4745.091	30	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS OCC-EVEN
						G-C	G-E	TYPE	
21069.32	4744.910	300	I					3	
21069.62	4744.844	0							
21070.10	4744.735	3	I						
21070.98	4744.535	1	II						
21072.39	4744.218	1							
21073.93	4743.873	30	I						
21074.40	4743.766	3	I						
21074.71	4743.696	3	I						
21075.04	4743.624	10	II						
21075.62	4743.492	100	I						
21076.43	4743.309	0							
21076.83	4743.220	1	I						
21077.73	4743.018	1000	II	7.5	6.5			2	25833- 4755
21078.02	4742.952	3	II						
21078.54	4742.835	3	II						
21079.15	4742.698	1000	I	8.0	9.0	1.28	1.29	2	12007-33086
21080.49	4742.397	300	I					1	
21081.34	4742.204	10	I						
21081.52	4742.165	10	I						
21081.87	4742.086	100	I						
21082.60	4741.921	100	I						
21083.13	4741.803	1	I						
21084.30	4741.538	3000	I					1	
21084.81	4741.423	3	II						
21085.15	4741.348	100	I						
21086.39	4741.069	1							
21087.03	4740.926	3000	I			0.446	1.19	3	
21088.37	4740.623	0	I						
21089.70	4740.324	1	I						
21090.53	4740.142	3	I						
21090.65	4740.112	10	II						
21091.20	4739.989	10	I						
21091.82	4739.849	10	I						
21092.52	4739.691	30	I						
21093.80	4739.403	0	I	7.0	7.0				16202-37295
21097.42	4738.590	3	II						
21097.97	4738.466	300	I	7.0	8.0	1.36	1.31	1	12655-33753
21100.40	4737.921	3	I						
21101.88	4737.590	30	I						
21102.93	4737.354	1	I						
21103.25	4737.281	10	II						
21104.07	4737.098	3	I						
21104.41	4737.022	1	I						
21104.65	4736.967	1	I	5.0	4.0				32029-10925
21105.23	4736.837	10	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
21105.55	4736.766	3								
21105.94	4736.679	3	I							
21107.24	4736.385	1	I							
21107.39	4736.351	10								
21108.35	4736.137	0	I							
21108.66	4736.067	100	I	8.C	8.0					16733-37841
21109.68	4735.838	30	II							
21110.60	4735.632	3	I							
21110.95	4735.554	30	I							
21111.36	4735.461	30	I							
21111.96	4735.326	3	II	8.5	7.5					25453- 4341
21112.12	4735.292	0	I							
21114.31	4734.799	0	II							
21115.13	4734.617	300	I	9.0	8.0	1.29	1.32	1		15972-37087
21116.19	4734.379	300	I					A		
21116.71	7434.263	0	I							
21117.93	4733.989	0	II							
21120.11	4733.501	1	I							
21120.26	4733.467	10	I							
21121.51	4733.187	1	I							
21121.82	4733.115	10	II							
21122.87	4732.882	10	I							
21124.29	4732.563	0	II							
21126.37	4732.097	300	I						1	
21127.29	4731.891	300	II							
21127.49	4731.845	3000	II			0.383	1.643	2		
21127.93	4731.748	30								
21129.67	4731.358	30	I							
21132.22	4730.786	1	I							
21132.76	4730.666	3	II							
21133.36	4730.531	0	II							
21134.27	4730.328	3	II							
21135.57	4730.037	0	I							
21136.39	4729.854	1	II							
21136.91	4729.738	10	I	8.C	9.0					14625-35762
21137.32	4729.646	3	II							
21137.76	4729.547	0	I							
21138.23	4729.441	0	I							
21138.93	4729.285	0	I							
21139.82	4729.087	1000	I			0.09	1.41	2		
21140.79	4728.869	3000 R	I	8.C	9.0	1.31	1.32	2		15567-36708
21141.50	4728.711	100	I	5.5	4.5					35268-14126
21142.42	4728.506	1								
21142.88	4728.402	100	I	9.C	8.0					17727-38870
21143.14	4728.344	30	II							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
21144.69	4727.998	1	I						
21145.56	4727.803	1C	I						
21146.42	4727.610	1C	I						
21146.68	4727.551	3	II						
21147.07	4727.466	100	I	6.0	6.0			3	28197- 7050
21147.52	4727.365	3	II						
21148.00	4727.257	300	I	9.0	8.0				16693-37841
21148.58	4727.127	1000	II			1.28	1.28	4	
21150.20	4726.765	1000	I	8.0	9.0	1.30	1.28	1	15567-36717
21150.99	4726.589	100	I	7.0	7.0				12655-33806
21152.05	4726.352	1000	I					1	
21152.41	4726.271	10	I						
21152.76	4726.194	100	II						
21154.05	4725.905	100	I						
21154.98	4725.697	30	I						
21158.29	4724.959	3	I						
21159.84	4724.611	10	I						
21160.31	4724.508	3	I						
21161.58	4724.224	1000	I			0.083	1.397	2	
21162.56	4724.006	30	I						
21162.96	4723.916	300	I	7.0	6.0	1.33	1.34	1	8516-29682
21163.43	4723.810	10	I						
21165.05	4723.448	1C	I						
21166.37	4723.154	100	II						
21167.83	4722.829	1	II	4.5	4.5				35294-14126
21168.14	4722.759	3	II						
21168.45	4722.689	1	II						
21168.78	4722.616	1	I						
21170.62	4722.207	1	I						
21171.29	4722.057	1	I						
21174.10	4721.430	0	I						
21174.51	4721.338	100	I						
21175.02	4721.225	3000	I			0.31	0.975	1	
21176.35	4720.928	0	I						
21177.07	4720.767	0	I						
21178.72	4720.400	10	I						
21182.10	4719.647	30	I	7.0	8.0				17687-38870
21182.03	4719.405	3	I	8.0	8.0				19688-40871
21184.70	4719.066	1	II						
21185.41	4718.910	30	II						
21185.82	4718.818	300		5.5	5.5			3	34524-13338
21185.98	4718.783	100	I						
21186.86	4718.585	30	II						
21187.25	4718.500	100	I						
21188.11	4718.307	30	I						

TABLE

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
21189.18	4718.070	1	I						
21189.42	4718.017	30	I						
21189.97	4717.894	10	II						
21191.19	4717.621	3	I						
21192.07	4717.427	3	II						
21192.32	4717.369	30	I						
21193.28	4717.158	300	I	9.0	9.0			3	13495-34689
21193.68	4717.067	1	II						
21194.55	4716.875	100	II						
21195.99	4716.554	3	I						
21196.50	4716.440	1	I						
21198.46	4716.004	10	I						
21199.02	4715.881	30	I						
21199.76	4715.716	1	I						
21200.76	4715.494	30	I						
21201.12	4715.413	0	I						
21201.51	4715.326	0	I						
21203.92	4714.789	100	II						
21204.14	4714.741	30	I						
21204.83	4714.587	1							
21205.66	4714.402	1	II						
21206.06	4714.314	0	I						
21208.07	4713.868	0							
21208.78	4713.709	0	I						
21209.30	4713.594	0	I						
21211.94	4713.007	3							
21212.57	4712.868	10	I						
21213.66	4712.625	1	I						
21214.20	4712.505	30	II						
21214.49	4712.441	10	II						
21215.03	4712.321	0	I	6.0	5.0				30426- 9211
21215.85	4712.139	3	I						
21216.23	4712.054	30	I						
21218.30	4711.595	100	II						
21218.82	4711.479	0	I						
21219.48	4711.333	1	I						
21220.58	4711.087	30	I						
21220.69	4711.065	100	I					3	
21224.97	4710.114	1	I						
21225.79	4709.933	1	I						
21227.13	4709.634	3	I						
21227.42	4709.570	10	II						
21227.67	4709.514	3	I						
21228.99	4709.223	300	II			1.22	1.22	4	
21229.48	4709.113	10	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
21230.28	4708.936	10	I							
21230.82	4708.815	3	I							
21231.13	4708.747	30	I							
21232.56	4708.430	100	I							
21232.88	4708.359	10								
21233.17	4708.296	1	I							
21233.84	4708.146	3	I							
21235.44	4707.791	100	II							
21236.85	4707.480	30	II							
21238.19	4707.183	10	I							
21238.78	4707.051	3	II							
21239.03	4706.997	100	I	8.0	8.0			3	12007-33246	
21240.04	4706.773	3000	I	8.0	8.0	1.32	1.34	3	15567-36807	
21240.96	4706.569	100	II							
21241.79	4706.384	10	I							
21242.60	4706.204	30	I							
21243.77	4705.946	0	I							
21244.16	4705.858	0								
21244.75	4705.729	300	I							
21245.16	4705.637	100	I	8.0	9.0				12007-33252	
21245.70	4705.519	1	I							
21246.32	4705.380	10	I	9.0	8.0				17727-38973	
21247.39	4705.144	3	II							
21249.45	4704.688	1	II							
21249.80	4704.610	0								
21250.42	4704.473	3	II							
21250.73	4704.403	1	I							
21251.26	4704.288	10	I							
21251.70	4704.189	0	I							
21252.95	4703.913	1	I							
21253.63	4703.763	10								
21254.95	4703.471	3000 B	I	8.0	9.0	1.35	1.29	1	15567-36822	
21254.95	4703.471	3000 B	I			DC =	0.18	1		
21255.96	4703.247	100	I							
21258.08	4702.777	100	I							
21258.64	4702.654	10	II							
21259.60	4702.442	0	I							
21260.31	4702.284	100	I							
21261.17	4702.094	300	I						A	
21261.44	4702.035	3	I							
21262.83	4701.728	30	I							
21264.09	4701.447	10	II							
21264.53	4701.351	10	II							
21264.99	4701.248	100	II							
21265.82	4701.067	100	II							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
21266.31	4700.958	C	I						
21267.46	4700.703	10	I	7.C	6.0				15050-37125
21268.18	4700.544	100	B II						
21270.42	4700.050	3	I						
21271.32	4699.851	C	I						
21271.81	4699.743	100	I						
21272.53	4699.583	10	II	3.5	4.5				33073-11801
21273.46	4699.377	100	II						
21273.83	4699.297	300	I						
21274.18	4699.218	1							
21275.47	4698.934	1	I						
21276.16	4698.782	100	II						
21276.60	4698.684	1000	II			0.62	0.726	1	
21276.72	4698.658	300	II			1.32	1.32	4	
21277.21	4698.550	3	I						
21278.03	4698.369	30	II						
21280.10	4697.911	100	I						
21280.95	4697.725	1	I						
21281.90	4697.513	300	I	10.C	9.0	1.29	1.30	1	12892-34174
21283.46	4697.169	3	II						
21283.99	4697.052	300	I			0.219	1.037	1	
21284.39	4696.965	30	I						
21286.16	4696.574	3	I	5.5	4.5				30718- 9432
21286.42	4696.516	3	I						
21286.68	4696.459	3	I						
21287.72	4696.230	30	I			1.31	1.31	4	
21287.90	4696.190	10	I						
21289.29	4695.883	30	I						
21290.06	4695.712	3	I						
21290.68	4695.576	3	II						
21292.21	4695.240	1000	II			0.065	1.038	1	
21293.09	4695.045	3	II						
21294.10	4694.822	1	II						
21294.90	4694.647	1	I						
21296.07	4694.389	100	I	9.C	9.0			3	9990-31287
21296.31	4694.336	300	II	4.5	4.5			3	33097-11801
21297.27	4694.124	1	I						
21298.03	4693.956	300	I			1.33	1.33	4	
21298.35	4693.886	10	I						
21298.92	4693.760	10	I						
21299.38	4693.659	300	II	6.5	6.5			3	28784- 7485
21300.32	4693.452	10	I						
21301.25	4693.247	30	II						
21301.99	4693.084	C	I						
21302.54	4692.962	0	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	CCC-EVEN	
21303.60	4692.728	300C	I						1	
21305.16	4692.386	10	I							
21306.06	4692.187	1								
21306.67	4692.053	1	I							
21308.74	4691.596	300	I	9.0	9.0	1.26	1.24	3		17727-39035
21309.52	4619.426	C	I							
21310.08	4691.301	0	II							
21310.93	4691.116	10C	I							
21312.02	4690.876	1	II	6.5	5.5					31183- 9870
21313.52	4690.544	1	I							
21313.96	4690.449	1	I							
21314.71	4690.282	100	I	8.0	9.0					14625-35940
21314.89	4690.243	100C	I					1		
21315.49	4690.112	3	I							
21315.91	4690.018	3	II							
21316.52	4689.885	3	I							
21317.13	4689.751	300C	II					1		
21317.72	4689.620	1C	II							
21318.04	4689.550	10C	I							
21320.61	4688.984	30	II	6.5	5.5					28784- 7463
21321.31	4688.831	3C	I							
21322.49	4688.570	3	I	7.0	8.0					8519-29841
21322.69	4688.527	3	I							
21323.21	4688.413	1C	II							
21323.66	4688.314	3	I							
21324.37	4688.159	1	I							
21324.77	4688.070	1	II							
21325.23	4687.969	3	I							
21325.94	4687.812	1	II							
21327.20	4687.536	1	I							
21328.09	4687.339	1	I							
21328.49	4687.252	0	I							
21328.72	4687.201	3	II							
21328.97	4687.147	3	I							
21330.48	4686.816	1	II	6.5	7.5					36282-14952
21331.33	4686.629	3	I							
21332.58	4686.354	100	I							
21334.25	4685.986	100	I					1		
21334.84	4685.858	0	II							
21335.61	4685.688	3	II							
21337.16	4685.347	3C	I							
21337.88	4685.189	1C	I	5.0	4.0					32263-10925
21340.10	4684.703	C	I							
21340.47	4684.621	C	II							
21341.21	4684.458	3	II							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA		TYPE	LEVELS
						G-C	G-E		OCC-EVEN
21343.08	4684.048	10	I						
21343.42	4683.974	10	I						
21343.92	4683.863	C	I						
21344.33	4683.775	1000	II			0.43	1.606	2	
21344.92	4683.644	3	I						
21345.64	4683.486	1	I						
21346.46	4683.307	C	II						
21347.53	4683.072	3	I						
21348.07	4682.952	1	I						
21348.60	4682.836	3	II						
21349.17	4682.713	0	I						
21349.46	4682.648	30	II						
21350.44	4682.434	3	II						
21352.29	4682.028	300	II			0.028	1.213	1	
21353.04	4681.863	1000	I					A	
21353.56	4681.750	100							
21353.95	4681.664	3	I						
21355.03	4681.428	10	I	8.0	8.0				18021-39376
21356.04	4681.206	10	I						
21357.16	4680.961	3000	I			0.63	1.928	2	
21358.17	4680.739	300	I	7.0	7.0			3	8519-29877
21358.40	4680.689	300	I			0.08	1.46	2	
21359.01	4680.555	1	I						
21360.13	4680.309	1	I						
21360.74	4680.175	100	I			0.144	1.068	1	
21361.09	4680.099	100	II						
21362.90	4679.702	100	I						
21363.82	4679.501	3	I						
21364.73	4679.301	1							
21365.09	4679.222	30	II						
21365.42	4679.150	30	I						
21365.83	4679.061	100	II			0.313		3	
21367.24	4678.752	3							
21367.52	4678.689	10	I						
21368.91	4678.386	30	I	9.0	8.0				17727-39096
21369.66	4678.222	100	I						
21369.94	4678.162	30	I						
21370.49	4678.041	C							
21371.33	4677.857	1	I						
21371.83	4677.746	3	II						
21372.03	4677.703	3	I						
21372.81	4677.533	C							
21373.98	4677.277	10	II	4.5	5.5				34712-13338
21374.60	4677.140	30	II						
21375.26	4676.997	1	II						

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
21376.09	4676.815	3	I						
21376.82	4676.654	10	I	7.0	6.0				14367-35744
21377.10	4676.594	0							
21378.39	4676.311	0	I						
21380.78	4675.789	3000	I			0.26	1.026	1	
21382.75	4675.358	1	II						
21383.26	4675.246	0	I						
21383.85	4675.119	30	II	8.0	7.0				16880-38264
21384.32	4675.016	30	I	5.5	6.5				37076-15691
21386.23	4674.598	1000	I			0.056	1.143	1	
21386.97	4674.435	30	I	8.0	8.0				15567-36954
21388.28	4674.150	0							
21388.73	4674.051	0	I	7.0	7.0				18857-40245
21389.04	4673.984	100	I						
21390.81	4673.596	3000	II			0.122	1.130	1	
21392.61	4673.202	300	I						
21392.93	4673.133	10	II						
21393.30	4673.052	10	II						
21393.63	4672.980	1	I						
21395.45	4672.582	3	I						
21395.96	4672.471	300	I			0.212	0.908	1	
21396.25	4672.408	300	I						
21396.95	4672.255	100	I						
21398.96	4671.817	10	I	8.0	8.0				12007-33406
21399.05	4671.797	10	II						
21400.09	4671.569	10							
21400.28	4671.528	300	II	7.5	6.5				28885- 7485
21402.13	4671.125	300	II						
21402.61	4671.020	100	II						
21403.68	4670.787	30	I						
21403.95	4670.726	10	II						
21404.62	4670.581	10	I						
21404.98	4670.502	0	I						
21405.50	4670.390	10	II						
21405.81	4670.320	30	I	8.0	8.0				7565-28971
21407.41	4669.973	0	I						
21408.69	4669.693	100	II						
21410.09	4669.388	100	II			1.38	1.38	4	
21411.37	4669.108	100	I						
21411.67	4669.044	10	I						
21412.34	4668.898	10	I						
21413.20	4668.709	3	II						
21414.23	4668.485	3	II						
21414.91	4668.338	10	I						
21415.32	4668.248	10	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS OCC-EVEN
						G-C	G-E	TYPE	
21415.71	4668.162	100	II						
21416.05	4668.089	10	I						
21417.07	4667.866	3	II						
21417.47	4667.778	300	II			1.38	1.38	4	
21417.99	4667.666	3	II						
21418.98	4667.450	10	I						
21420.85	4667.041	10	II						
21421.29	4666.948	0	I						
21421.99	4666.794	0	I						
21422.60	4666.660	10	I						
21423.19	4666.532	300	II					1	
21423.51	4666.464	0	I						
21424.28	4666.294	10	II						
21424.99	4666.139	10	I						
21425.34	4666.063	3	I						
21426.13	4665.893	300	I	9.0	8.0			2	15972-37398
21426.54	4665.803	10	II						
21427.12	4665.677	30	I						
21428.46	4665.384	10	II						
21428.95	4665.279	0	I						
21430.17	4665.012	3	I						
21431.79	4664.859	3000	II	6.5	7.5	1.370	1.224	1	25772-4341
21433.31	4664.329	10	I						
21433.62	4664.263	100	I						
21434.02	4664.176	0	I						
21434.97	4663.967	30	I						
21435.53	4663.846	0	I						
21436.10	4663.722	0	I						
21436.67	4663.598	30	I						
21437.35	4663.449	30	I						
21437.84	4663.344	0	I						
21439.08	4663.074	30	II						
21439.37	4663.011	10	I						
21439.90	4662.894	1000	I			0.101	1.454	2	
21440.68	4662.725	3000	I			0.04	1.35	2	
21441.99	4662.441	3	I						
21443.35	4662.146	3000 R	I			0.23	1.02	1	
21444.41	4661.916	300	II						
21445.90	4661.591	0	I						
21446.61	4661.435	100	I						
21447.87	4661.162	100	I						
21448.97	4660.923	3	II						
21449.43	4660.823	300	I			1.29	1.29	4	
21449.65	4660.776	100	II			1.29	1.29	4	
21451.43	4660.389	0	I						

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WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS	
				J-C	J-E	G-C	G-E	TYPE
21452.00	4660.266	3	I					
21454.11	4659.806	10	I					
21454.98	4659.617	10	II					
21455.52	4659.500	300	I					3
21456.21	4659.351	30	II					
21456.68	4659.249	C	I					
21457.20	4659.135	3	I					
21457.44	4659.084	10	II					
21458.57	4658.839	1	I					
21459.16	4658.711	10	I					
21460.30	4658.463	3	I					
21461.33	4658.239	10	I					
21461.91	4658.113	10	II					
21462.31	4658.026	1	I					
21463.86	4657.690	10	II					
21464.49	4657.553	10	II					
21464.99	4657.445	300	II			0.19	1.54	2
21465.89	4657.250	10	II					
21466.79	4657.055	10	I					
21467.13	4656.981	C	I					
21467.95	4656.804	10	I					
21468.62	4656.658	30	I	8.C	7.0			12007-33475
21469.11	4656.551	1	I					
21469.61	4656.442	10	II					
21470.81	4656.182	3	I					
21471.34	4656.068	C	II					
21472.20	4655.880	100	II					
21473.11	4655.684	10	I					
21473.30	4655.642	10	II					
21474.23	4655.440	10	II					
21474.50	4655.382	10	II					
21475.79	4655.102	10	I	8.C	8.0			16880-38356
21476.58	4654.930	C	II					
21477.37	4654.761	300	II	8.5	7.5	1.27	1.22	2 25818- 4341
21478.12	4654.597	1	II					
21479.05	4654.395	C	I					
21479.42	4654.316	3	I					
21480.41	4654.102	0	I					
21481.29	4653.912	3	I					
21482.86	4653.570	C	II					
21483.62	4653.406	100	II					
21485.79	4652.937	3	II					
21486.12	4652.865	10	I					
21486.42	4652.800	10	I					
21487.40	4652.588	30	II					

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C			ZEEMAN DATA			LEVELS	
				J-C	J-E	G-C	G-E	TYPE	CCC-EVEN		
21488.44	4652.362	30	I								
21489.81	4652.066	1	I								
21490.15	4651.991	3	II								
21490.58	4651.899	10	I								
21491.73	4651.649	10	I								
21492.32	4651.523	300	II	7.5	7.5	1.22	1.22	4	25833-	4341	
21492.97	4651.381	10	I								
21493.38	4651.293	30	II								
21493.83	4651.196	10	I	8.0	7.0				14625-	36119	
21495.01	4650.941	1	II								
21495.32	4650.872	1	I	5.5	6.5				37187-	15691	
21496.06	4650.714	10	I	7.5	6.5				37188-	15691	
21498.67	4650.148	1000	I			0.292	0.938	1			
21499.35	4650.002	10	I								
21501.83	4649.466	30	II								
21502.03	4649.423	30	II								
21503.27	4649.153	10	I								
21504.84	4648.814	30	I								
21505.03	4648.773	10									
21505.27	4648.721	1									
21505.71	4648.626	3	I	5.5	4.5				33306-	11801	
21505.92	4648.582	1	I								
21506.24	4648.511	10									
21507.03	4648.341	1	II								
21507.72	4648.191	3	II								
21508.28	4648.071	1									
21508.77	4647.964	3	I								
21509.43	4647.823	3	II								
21511.11	4647.459	10									
21511.40	4647.397	30	I								
21511.94	4647.281	300	II					3			
21514.56	4646.714	300	I			0.08	1.19	1			
21517.01	4646.184	1	I								
21517.40	4646.100	0	I								
21520.11	4645.516	10	I	8.0	8.0				15567-	37087	
21520.89	4645.347	0	I								
21521.53	4645.209	0	I								
21522.16	4645.072	30	I								
21522.56	4644.988	30	I								
21524.25	4644.622	10	I								
21524.55	4644.558	30	I								
21524.87	4644.488	1	II								
21525.42	4644.369	3									
21526.65	4644.105	100	II								
21527.16	4643.995	10	I								

TABLE

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS		
						G-C	G-E	TYPE	ODD-EVEN		
21529.74	4643.438	3000	R	I	9.0	8.0	1.24	1.24	4	21529-	0
21530.32	4643.312	10		I							
21530.87	4643.193	3		II							
21531.38	4643.084	10		II							
21531.98	4642.954	10		I							
21532.85	4642.767	100		II			1.20	1.20	4		
21533.41	4642.647	30		I							
21533.73	4642.577	300		I			1.30	1.30	4		
21535.31	4642.237	100		I							
21535.46	4642.205	100		I							
21536.64	4641.951	10		I							
21536.98	4641.876	3		II							
21537.58	4641.747	10		II							
21538.12	4641.631	10		I							
21538.58	4641.532	10		II	5.5	5.5				31409-	9870
21538.93	4641.457	1		II							
21539.26	4641.385	0		I							
21540.71	4641.072	100		I							
21542.90	4640.603	3									
21542.99	4640.581	0									
21543.81	4640.405	1		I							
21544.79	4640.195	1		I							
21545.31	4640.081	30		I	8.0	7.0	1.29	1.29	4	12007-	33552
21545.38	4640.067	10		II							
21546.18	4639.895	10		II	5.5	5.5				34884-	13338
21547.00	4639.719	0		II							
21547.40	4639.633	30		I							
21548.49	4639.396	10		I							
21548.63	4639.367	3		II							
21549.43	4639.195	3		II							
21550.08	4639.054	100		I							A
21550.95	4638.869	3		I							
21551.26	4638.800	300		II			1.21	1.21	4		
21551.45	4638.759	100		II							A
21551.77	4638.692	3		II							
21552.23	4638.593	3		I	8.0	9.0				16733-	38285
21552.69	4638.493	100		I							
21552.91	4638.446	10		I							
21553.58	4638.301	1		II							
21554.06	4638.197	1		I							
21554.82	4638.035	30		I	9.0	8.0				15972-	37527
21555.16	4637.962	3									
21555.38	4637.914	10		II							
21555.81	4637.822	1		II							
21556.51	4637.670	1		II							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
21556.94	4637.579	300	II			0.19	1.40	3	
21559.04	4637.126	300	I			0.35	0.598	1	
21559.32	4637.066	100	II						
21559.92	4636.938	100	I						
21561.56	4636.591	0	II						
21562.81	4636.315	1	I						
21563.42	4636.185	10	II						
21564.53	4635.947	3	II						
21565.57	4635.723	10	I						
21566.21	4635.586	100	II						
21567.41	4635.320	30	I	6.0	5.0				30778- 9211
21567.58	4635.291	100	I			0.04	1.246	1	
21567.83	4635.236	100	I						
21568.78	4635.032	10	II						
21570.04	4634.762	300	I			0.11	1.09	1	
21571.33	4634.485	10	I						
21573.22	4634.079	1	I						
21573.51	4634.016	10	I						
21573.65	4633.986	10	I						
21574.59	4633.784	3	I						
21575.01	4633.693	3	II						
21575.64	4633.560	3	I						
21576.02	4633.478	1	I						
21577.40	4633.181	10	I						
21578.17	4633.017	1	II						
21579.28	4632.778	30	I			1.31	1.31	4	
21579.61	4632.706	30	I						
21580.02	4632.620	3	II						
21582.01	4632.192	3	I						
21585.28	4631.489	3000 R	I	6.0	7.0	1.36	1.31	1	10088-31674
21586.48	4631.232	3	I						
21587.74	4630.961	0	I						
21588.32	4630.838	3	I						
21589.90	4630.498	0	I						
21591.16	4630.228	0	I						
21591.66	4630.122	3	I						
21591.95	4630.059	0	II						
21592.31	4629.983	1	I						
21592.57	4629.927	10	II						
21593.06	4629.820	1	I						
21593.91	4629.639	10	II						
21594.58	4629.495	3	II						
21595.76	4629.242	10	I						
21596.17	4629.155	10	I						
21596.87	4629.003	10	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
21597.81	4628.802	0	I							
21598.94	4628.561	3	I							
21599.26	4628.492	10	I							
21599.90	4628.355	10	I							
21600.39	4628.250	1	I							
21600.62	4628.200	1								
21600.95	4628.130	1	II							
21601.25	4628.066	300	II			0.12	1.18	1		
21601.94	4627.917	10	I							
21602.31	4627.837	3		7.0	6.0					14367-35970
21602.76	4627.743	3	I							
21603.94	4627.489	3	I							
21604.39	4627.394	1000	I						2	
21605.20	4627.220	1	I							
21605.69	4627.115	300	I						3	
21606.70	4626.898	30	II							
21607.18	4626.795	0	I							
21607.32	4626.766	3	II							
21609.37	4626.326	100	I							
21610.18	4626.154	3	II							
21610.80	4626.021	100	I							
21610.97	4625.985	100	II							
21611.15	4625.946	100	I							
21612.48	4625.661	1000	I	7.0	8.0				2	15194-36807
21612.94	4625.561	0	I							
21613.44	4625.455	3	II							
21614.26	4625.281	10	II							
21616.61	4624.776	0	I	7.0	8.0					21616- 0
21617.91	4624.500	30	I							
21618.19	4624.439	100	II						A	
21618.98	4624.270	100	II							
21619.47	4624.164	30	I	9.0	9.0					15972-37591
21619.69	4624.118	300	I			DG =	0.18	A		
21619.91	4624.072	10	II							
21620.32	4623.983	1	I							
21623.10	4623.388	30	I	8.0	8.0					16733-38356
21623.43	4623.319	3	II							
21624.02	4623.193	30	II	7.5	6.5					29109- 7485
21624.92	4623.000	30	II							
21625.86	4622.799	3	I							
21626.17	4622.733	100	I						3	
21626.49	4622.664	3	I							
21626.75	4622.609	3	I							
21627.33	4622.483	100	I							
21627.87	4622.370	300	II			0.498	1.353	3		

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODC-EVEN
21628.49	4622.237	100	I						
21629.15	4622.095	10	I	6.0	5.0				30840- 9211
21629.76	4621.965	1	II						
21630.04	4621.905	0	I						
21630.85	4621.733	0	II						
21632.35	4621.411	300	II						1
21633.15	4621.240	1	I						
21633.26	4621.218	1	I						
21634.42	4620.969	1000	I			1.26	1.26	4	
21635.19	4620.804	0	I						
21635.68	4620.701	100	II						
21637.19	4620.378	100	II						3
21637.61	4620.289	30	I						
21638.80	4620.034	3000	II	7.5	7.5	1.29	1.20	3	22467- 828
21640.56	4619.658	10	I						
21641.41	4619.478	1	II						
21641.75	4619.405	1	II						
21642.16	4619.316	30	I						
21642.97	4619.143	30	I						
21644.16	4618.891	1	I						
21644.71	4618.773	10	I	8.0	7.0				15567-37212
21644.96	4618.719	30	II						
21646.14	4618.468	0	I						
21646.58	4618.375	0	II						
21647.24	4618.233	0	I						
21648.05	4618.060	10	II						
21649.34	4617.785	30	I						
21650.03	4617.637	3	I						
21650.42	4617.554	30	I						
21651.78	4617.264	3000	II	5.5	6.5	1.11	1.13	2	26407- 4755
21653.35	4616.929	100	I						1
21653.63	4616.869	10							
21656.98	4616.156	3	I						
21657.23	4616.103	10	II						
21657.91	4615.957	30	II						
21659.09	4615.706	0	I						
21659.76	4615.563	300	II						3
21660.56	4615.393	0	II						
21660.91	4615.318	1	II						
21661.68	4615.153	1							
21662.08	4615.069	3	I						
21662.43	4614.994	1	II						
21662.43	4614.994	1	II	9.0	8.0				16693-38356
21663.24	4614.821	1000 R	I			0.340	1.283	3	
21665.72	4614.293	10	II	5.5	4.5				33466-11801

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	GCC-EVEN	
21666.96	4614.030	10	II							
21667.91	4613.827	1000	I			0.334	0.929	1		
21669.64	4613.458	30	II							
21669.89	4613.407	10	II							
21670.12	4613.356	10	I							
21670.60	4613.254	100	I	8.C	9.0				A	18021-39692
21671.00	4613.170	30	I	8.C	8.0					16880-38551
21671.92	4612.974	10	I							
21672.47	4612.857	30	I							
21674.37	4612.451	30	II							
21675.28	4612.258	10000	R I	7.C	8.0	1.22	1.24	2	21675-	0
21676.77	4611.942	10	II							
21677.60	4611.764	10	I							
21677.94	4611.692	300	II							
21678.31	4611.613	100	II							
21680.18	4611.216	10	II							
21680.47	4611.154	3	II							
21681.35	4610.966	100	I			0.08	1.13	1		
21681.70	4610.893	30	I							
21682.C8	4610.813	100	I							
21682.40	4610.745	C	II							
21683.C2	4610.612	30	I							
21683.35	4610.541	10	II							
21683.64	4610.480	10	II							
21684.61	4610.274	3	I							
21684.84	4610.224	10	I							
21686.20	4609.937	1	II							
21686.70	4609.829	3	I							
21687.45	4609.670	3	I							
21687.66	4609.626	3	II							
21688.53	4609.440	C	I							
21688.85	4609.373	1								
21689.13	4609.312	10	II							
21690.18	4609.091	30	II							
21690.59	4609.002	10	II							
21691.37	4608.837	10	I							
21691.60	4608.700	30	I	6.0	7.0					25825- 4134
21692.05	4608.693	C	II							
21693.74	4608.334	30	I							
21694.53	4608.167	10	I							
21695.25	4608.012	100	I							
21696.17	4607.817	300	I			0.21	0.93	1		
21696.72	4607.701	1	II							
21697.14	4607.612	300	I			0.17	1.567	2		
21698.56	4607.309	3	II							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
21699.15	4607.185	3	II						
21699.44	4607.122	30	II						
21700.06	4606.992	3	II						
21702.08	4606.563	0	I						
21702.31	4606.513	1	I						
21704.56	4606.037	1000 R	I	9.0	8.0	1.29	1.31	1	15972-37676
21705.70	4605.795	30	I						
21706.81	4605.560	3	I						
21707.68	4605.375	30	I						
21708.37	4605.229	1	I						
21709.18	4605.057	10	II						
21709.66	4604.954	30	I						
21711.39	4604.587	3	I						
21712.06	4604.445	100	II			1.28	1.28	4	
21712.75	4604.298	300	II			0.277	0.996	3	
21714.28	4603.974	0	II						
21714.53	4603.923	0	I						
21715.02	4603.819	3	I						
21715.67	4603.679	0	I						
21716.58	4603.486	300	I						
21717.40	4603.313	10	II						
21718.33	4603.116	0	I						
21719.80	4602.805	0	II						
21720.28	4602.702	1	II						
21721.18	4602.513	300	I			0.21	1.08	1	
21721.83	4602.373	0	II						
21722.07	4602.324	3	I						
21722.49	4602.235	10	I						
21723.72	4601.974	10	I						
21724.18	4601.875	100	I						
21725.72	4601.551	100	I	7.0	6.0	1.27	1.26	2	14367-36093
21726.59	4601.366	30	II						
21727.19	4601.239	0	II						
21728.08	4601.051	3	II	5.5	5.5				31599- 9870
21728.61	4600.938	3	I	8.0	7.0				15567-37295
21729.04	4600.847	1							
21729.75	4600.698	300	I						
21730.26	4600.589	30	I						
21730.41	4600.557	3	I						
21730.93	4600.448	3	II						
21731.22	4600.385	0	II						
21731.88	4600.247	1	II						
21732.33	4600.150	1							
21733.18	4599.970	30	II						
21733.77	4599.845	1000 R	I	6.0	7.0	1.30	1.17	1	25868- 4134

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
21734.40	4599.713	10	I						
21734.72	4599.644	10	I	6.C	7.0				25868- 4134
21735.17	4599.549	10	I	5.C	5.0				30946- 9211
21736.12	4599.348	10	I						
21736.63	4599.241	C	I						
21736.89	4599.186	10	II						
21737.48	4599.060	1	I						
21738.32	4598.882	1	I						
21739.04	4598.731	3	II						
21740.06	4598.514	C	I						
21740.91	4598.335	1	I						
21741.09	4598.127	1	II						
21742.33	4598.035	10	II						
21742.85	4597.925	10	I						
21743.20	4597.850	1	I						
21744.47	4597.582	300	I			0.146	0.619	3	
21745.13	4597.442	100	II						
21746.01	4597.256	100	I	8.C	8.0				12007-33753
21747.09	4597.028	100	I			0.17	1.24	3	
21748.50	4596.730	30	II						
21749.08	4596.607	30	I						
21750.25	4596.360	0	II						
21751.67	4596.060	10	I	7.C	7.0				14367-36119
21752.10	4595.970	10	I						
21752.51	4595.882	3	II						
21753.16	4595.746	3	II	9.C	8.0				13495-35249
21755.77	4595.195	30	I						
21756.09	4595.127	300	II			0.285	1.027	1	
21756.71	4594.996	0	II						
21757.00	4594.935	3	II						
21758.08	4594.706	3	I						
21758.60	4594.597	30	I						
21759.62	4594.381	10	II						
21761.10	4594.068	10	I						
21762.06	4593.866	C	I						
21762.71	4593.729	10	II						
21764.82	4593.284	10	II						
21765.16	4593.212	C	II						
21766.49	4592.931	30	I	8.C	8.0				14625-36392
21766.72	4592.883	0	II						
21767.44	4592.730	C	I						
21767.75	4592.665	30	II	8.C	7.0				18477-40245
21768.76	4592.453	10	I						
21769.59	4592.277	100	I			1.15	1.15	4	
21770.20	4592.149	1	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	OCC	EVEN
21771.48	4591.877	10	I							
21771.96	4591.776	300	II			0.44	0.73	1		
21772.53	4591.658	1000	I					3		
21773.18	4591.520	1	I							
21773.69	4591.413	3	I							
21773.92	4591.364	0	II							
21774.15	4591.314	10	I							
21776.09	4590.907	10	I							
21777.32	4590.647	30	II							
21777.77	4590.553	1000	I			0.53	0.66	1		
21778.67	4590.363	100	I			1.32	1.32	4		
21780.24	4590.031	3	II							
21780.76	4589.923	1	I							
21781.06	4589.859	3	I							
21781.58	4589.748	1	II							
21782.01	4589.658	100	II							
21783.45	4589.355	10000	R I	7.C	8.0	1.15	1.24	2	21783-	0
21784.71	4589.089	1000	I	9.C	9.0			3	9990-	31775
21788.59	4588.273	300	II					3		
21789.54	4588.073	0	II							
21790.33	4587.907	300	II			0.131	1.252	1		
21791.34	4587.693	30	I							
21791.62	4587.635	3	I							
21792.94	4587.357	0	I							
21793.14	4587.315	3	I							
21793.97	4587.139	0	II	7.5	6.5				29279-	7485
21794.71	4586.983	0	II							
21795.51	4586.817	30	II							
21795.94	4586.725	30	I	6.C	5.0				31007-	9211
21796.44	4586.620	100	B I	10.C	9.0			2	12892-	34689
21796.44	4586.620	1000	B II			CG =	0.127	1		
21798.04	4586.283	0	II							
21798.51	4586.184	100	II							
21798.72	4586.139	3	I	8.0	7.0				15567-	37366
21799.02	4586.078	300	I	8.C	7.0			A	12007-	33806
21799.58	4585.959	1000	I			0.201	1.014	1		
21800.80	4585.703	1000	R I	6.0	6.0	1.39	1.38	3	11673-	33474
21802.24	4585.399	100	I	6.0	7.0				11673-	33475
21804.81	4584.858	3	I							
21805.30	4584.756	30	II							
21805.61	4584.691	30	II							
21806.35	4584.536	0	I							
21806.63	4584.477	0	I							
21808.57	4584.068	0	I							
21809.25	4583.925	300	II							

TABLE

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	CCC-EVEN	
21810.31	4583.703	C	I							
21810.71	4583.620	1000	I			0.251	1.327	3		
21811.35	4583.485	0	II	6.5	5.5				31682-	9870
21811.76	4583.398	0	II							
21812.05	4583.338	100	II	7.0	7.0				18433-	40245
21813.49	4583.034	300	II						2	
21814.65	4582.791	C	II							
21815.12	4582.693	C	II							
21816.62	4582.376	30	I							
21816.94	4582.310	10	I							
21817.44	4582.206	C	II							
21818.27	4582.030	100	I	8.0	8.0					16733-38551
21818.46	4581.992	C								
21819.48	4581.776	3	I							
21820.11	4581.645	0	II							
21820.31	4581.602	0	II							
21821.16	4581.424	100	I							
21821.62	4581.328	30	II							
21822.29	4581.186	1								
21822.99	4581.041	30	I							
21823.69	4580.892	C	II							
21824.46	4580.731	0	I							
21824.94	4580.631	C	I							
21826.63	4580.276	3	II							
21827.93	4580.003	10	I							
21829.30	4579.716	100	I	9.0	8.0					999C-31820
21829.44	4579.687	30	II							
21829.69	4579.633	30	I							
21830.46	4579.472	100	II							
21830.67	4579.428	300	II	5.5	5.5					31701- 9870
21831.10	4579.338	300	I	8.0	8.0				3	15567-37398
21831.69	4579.213	30	I							
21833.08	4578.923	3	II							
21833.66	4578.800	0	I							
21835.12	4578.496	1	II							
21837.51	4577.995	0	II							
21838.55	4577.775	10000 R	I	9.0	8.0	1.25	1.24	2	21838-	0
21839.83	4577.506	30	II							
21840.86	4577.292	10	II							
21844.24	4576.584	1000	II	7.5	7.5	1.364	1.206	3	22672-	828
21845.11	4576.400	0	II							
21845.87	4576.241	100	I							
21846.34	4576.144	10	I							
21847.26	4575.950	100	I			1.27	1.27	4		
21848.45	4575.700	10	II							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-G	G-E	TYPE	OCC-EVEN
21848.99	4575.588	0	I						
21849.29	4575.524	3	I						
21849.52	4575.478	1	I						
21849.98	4575.381	10	II						
21852.12	4574.932	10	I						
21852.63	4574.826	10	I						
21853.02	4574.744	0	II						
21855.06	4574.317	300	I			0.245	1.419	2	
21855.54	4574.218	30	I						
21856.21	4574.078	30	I						
21857.30	4573.850	1000	II			0.210	1.32	3	
21857.60	4573.786	300	I	9.0	8.0			1	16693-38551
21857.94	4573.715	0	I						
21858.79	4573.537	1	II						
21859.25	4573.441	10	II						
21859.99	4573.285	3	II						
21860.26	4573.230	10	I						
21861.03	4573.069	0	I						
21861.13	4573.047	30	I						
21861.56	4572.958	100	II	8.0	9.0				14625-36487
21862.85	4572.687	30	I						
21863.43	4572.566	30	II						
21863.78	4572.493	10	I	7.0	6.0				15194-37058
21864.36	4572.371	30	I						
21864.73	4572.293	30	II						
21865.48	4572.138	0	I						
21865.57	4572.119	3	I						
21865.93	4572.043	10	II						
21866.89	4571.842	1	I						
21867.55	4571.706	10	I						
21868.06	4571.598	0	I						
21868.21	4571.567	100	II			1.36	1.36	4	
21869.10	4571.380	3	I						
21869.51	4571.294	100	I	9.0	8.0				15972-37841
21870.79	4571.027	30	I						
21871.35	4570.910	0	II						
21871.64	4570.851	0	I						
21872.04	4570.766	10	I						
21872.43	4570.684	10	I						
21872.81	4570.604	10	I						
21873.09	4570.546	10	I						
21873.54	4570.453	0	I						
21873.81	4570.395	30	II						
21874.35	4570.284	10	II	4.5	4.5				36001-14126
21874.88	4570.174	100	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-O	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
21875.71	4569.999	10	I						
21876.74	4569.784	10	I						
21877.04	4569.722	100	I			1.29	1.29	4	
21878.08	4569.505	10	I						
21878.56	4569.403	100	II	7.5	6.5				26634- 4755
21880.85	4568.926	30	I						
21881.61	4568.766	30	I	9.C	8.0				13495-35377
21881.86	4568.715	10	I						
21882.41	4568.601	0	II						
21883.30	4568.415	300	I						
21883.62	4568.348	30	I						
21883.96	4568.277	30	I						
21884.57	4568.149	0							
21885.09	4568.041	3	II						
21886.06	4567.837	30	II						
21887.67	4567.502	100	I						
21888.03	4567.426	0	II						
21889.21	4567.182	3	II						
21889.54	4567.112	10	I						
21889.86	4567.044	1000 R	I	9.C	10.0	1.24	1.27	2	13495-35385
21891.44	4566.715	100	II						
21891.56	4566.691	10	II						
21892.32	4566.532	300	I						
21892.66	4566.460	3	I	7.C	8.0				15194-37087
21893.83	4566.216	1000	I					2	
21894.35	4566.108	10	I						
21894.75	4566.025	0	II						
21895.17	4565.937	300	I					3	
21895.76	4565.814	10	I						
21896.67	4565.624	0	II						
21898.11	4565.324	10	I						
21898.56	4565.232	0	II						
21899.23	4565.091	3000 R	I	8.C	8.0	1.20	1.24	3	21899- 0
21900.11	4564.906	30		4.5	4.5				33701-11801
21901.93	4564.528	3							
21903.03	4564.299	10	I						
21903.27	4564.248	0	II						
21904.02	4564.093	30	I						
21904.95	4563.899	10	I						
21905.33	4563.821	0	II						
21906.18	4563.644	1	II						
21906.65	4563.546	30	I						
21907.42	4563.384	10	I						
21908.12	4563.238	3	II						
21909.07	4563.040	10	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
21910.36	4562.773	3	II						
21911.50	4562.534	C	II						
21912.04	4562.423	30	II						
21912.41	4562.346	C	I						
21912.86	4562.251	30	II						
21913.90	4562.035	3							
21915.09	4561.788	0	II						
21915.67	4561.667	3	I						
21917.58	4561.269	C	II						
21918.09	4561.163	1	I	8.C	7.0				18477-40396
21918.44	4561.090	10	I						
21918.71	4561.035	3	II						
21919.48	4560.874	3	II						
21920.44	4560.673	1	II						
21920.92	4560.574	3	II						
21921.44	4560.466	0	I						
21921.71	4560.410	10	I						
21922.32	4560.282	10	I						
21922.72	4560.200	30	I						
21923.15	4560.109	30	II						
21923.38	4560.062	100	I						
21924.03	4559.927	0	II						
21925.15	4559.695	C	II						
21925.42	4559.637	10	I						
21925.69	4559.582	300	I	7.C	7.0	1.31	1.31	4	8519-30444
21926.70	4559.372	1	II						
21927.76	4559.152	10	I						
21928.09	4559.083	C	II						
21928.61	4558.975	C	II						
21929.31	4558.829	10	II						
21929.78	4558.732	0	I						
21930.12	4558.660	30	II	5.5	4.5				36057-14126
21930.12	4558.660	30	II	5.5	5.5				35268-13338
21930.54	4558.573	3	I	7.0	6.0				15194-37125
21931.52	4558.370	3	I						
21931.96	4558.277	3	I						
21932.61	4558.143	300	II	6.5	7.5	1.26	1.30	2	36884-14952
21934.22	4557.809	30	I						
21935.19	4557.608	30	II						
21935.84	4557.471	100	II						
21936.55	4557.324	1000	I	10.C	9.0	1.29	1.27	2	12892-34829
21937.47	4557.134	300	I						
21938.23	4556.976	C	II						
21940.07	4556.592	1							
21940.30	4556.545	300	I	7.C	8.0	1.26	1.26	4	14367-36308

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-D	G-E	TYPE	ODD-EVEN
21940.81	4556.439	300	II			1.34	1.34	4	
21940.98	4556.403	10	I						
21941.73	4556.247	30	I						
21943.22	4555.939	3	I						
21943.58	4555.864	30	I						
21944.93	4555.584	3	I						
21945.88	4555.387	0	I						
21946.69	4555.219	3000 R	I	8.0	7.0	1.36	1.36	4	7565-29512
21947.32	4555.089	0	I						
21947.71	4555.007	1000	I	6.0	7.0			1	10088-32036
21948.00	4554.947	10	II						
21948.97	4554.757	10	I						
21949.56	4554.623	100	I						
21949.94	4554.545	3	I						
21950.23	4554.485	1	I						
21950.85	4554.356	100	II	8.5	7.5				36902-14952
21951.52	4554.216	300	II	7.5	6.5			2	29436- 7485
21951.78	4554.163	100	I						
21952.48	4554.018	3	II						
21953.88	4553.728	10	I						
21954.16	4553.668	10	II						
21954.62	4553.573	10	II						
21955.75	4553.338	0	I						
21956.06	4553.275	30	II						
21956.50	4553.183	100	I	4.5	5.5				35294-13338
21956.50	4553.183	100	I						
21956.76	4553.130	1000	I	7.0	6.0	1.32	1.33	1	8519-30475
21957.29	4553.019	30	II						
21958.06	4552.859	0	II						
21958.48	4552.773	30	II	7.0	8.0				15439-37398
21960.78	4552.296	1	II						
21961.21	4552.207	100	I						
21962.10	4552.022	1							
21962.41	4551.959	3	II						
21962.97	4551.842	30	I						
21963.89	4551.651	30 W	I	5.0	4.0				32889-10925
21964.29	4551.569	10	II						
21965.15	4551.390	10	I						
21965.37	4551.344	300	I			1.25	1.25	4	
21966.72	4551.066	0	II						
21967.47	4550.910	0	I						
21967.68	4550.866	300	II			0.35	0.78	1	
21968.31	4550.735	0	II						
21969.31	4550.529	30	II						
21969.61	4550.466	10	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
21970.09	4550.367	3	II						
21970.62	4550.257	30	I						
21971.01	4550.177	30	I						
21971.63	4550.048	3	II						
21972.04	4549.963	100	I			0.04	1.254	2	
21972.41	4549.886	10	II						
21972.77	4549.812	10	I						
21973.47	4549.666	10	I						
21975.59	4549.227	30	I						
21975.90	4549.164	3	II						
21976.48	4549.044	0	I						
21977.45	4548.844	1	II	5.5	4.5				31409- 9432
21978.42	4548.642	30	II						
21979.18	4548.486	30	II						
21980.68	4548.175	30	II						
21982.28	4547.844	10	I						
21982.58	4547.781	3	II						
21982.88	4547.720	3	II						
21983.11	4547.672	10	II						
21983.49	4547.593	3	I						
21983.83	4547.523	10	I	7.0	8.0				15858-37841
21984.39	4547.407	300	I						
21986.66	4546.938	0	II						
21987.24	4546.817	3	I						
21987.52	4546.759	300	I			0.24	1.609	2	
21988.37	4546.583	1							
21988.77	4546.501	30	II						
21989.14	4546.424	300	I			0.39	0.831	1	
21990.25	4546.196	1							
21991.97	4545.840	30	I						
21992.29	4545.774	1	II						
21993.92	4545.437	30	II						
21994.47	4545.322	300	II			0.137	1.299	3	
21995.19	4545.174	100	II	8.5	7.5			A	26336- 4341
21995.93	4545.022	100	II						
21996.65	4544.872	100	I						
21997.14	4544.771	10	I						
22000.39	4544.101	100	I			1.32	1.32	4	
22001.38	4543.895	3	II						
22002.01	4543.765	3	I						
22002.62	4543.639	3							
22003.29	4543.502	1	I						
22003.79	4543.397	3	I						
22004.56	4543.239	1	II						
22005.27	4543.092	0	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
22005.75	4542.992	30	II						
22006.25	4542.890	10	I						
22006.66	4542.806	10	I						
22007.65	4542.602	1							
22008.62	4542.400	1	II						
22010.18	4542.079	30	I						
22011.22	4541.864	3							
22011.51	4541.804	30	I						
22011.88	4541.729	10	II						
22012.20	4541.663	1000	II			0.40	0.781	1	
22013.25	4541.445	30	II						
22014.59	4541.169	3	II						
22015.24	4541.035	10	II						
22016.15	4540.847	10	II						
22017.25	4540.618	1	I	7.0	7.0				15194-37212
22018.14	4540.436	30	I						
22018.56	4540.351	30	II						
22018.97	4540.265	30	II						
22019.70	4540.115	100	I						
22020.47	4539.955	30	I						
22020.60	4539.929	30	I						
22021.19	4539.808	30	I						
22022.00	4539.641	0	I						
22022.96	4539.442	30	I						
22024.46	4539.134	1000 R	I	8.0	9.0			1	15567-37591
22024.82	4539.058	30	I						
22026.42	4538.730	1000	II	7.5	7.5	1.28	1.21	3	22854- 828
22026.87	4538.637	10							
22027.63	4538.481	1	II						
22027.94	4538.416	3	I						
22028.51	4538.299	1	I						
22028.77	4538.246	1	I						
22029.04	4538.189	10	I						
22029.29	4538.139	100	I					3	
22030.33	4537.923	10	II						
22031.00	4537.787	30	I						
22031.47	4537.689	1	II						
22033.07	4537.359	30	I						
22036.03	4536.751	30	I						
22036.59	4536.634	10	I						
22036.87	4536.576	100	I						
22038.52	4536.239	10	I						
22038.72	4536.196	10	II						
22039.22	4536.094	100	I			1.31	1.31	4	
22040.14	4535.905	1	II						

TABLE

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
22040.24	4535.884	1	II						
22040.38	4535.855	30	I						
22040.97	4535.733	10	I						
22042.92	4535.333	100	I						
22043.64	4535.184	0	I						
22044.04	4535.101	3	I						
22044.60	4534.986	10							
22044.95	4534.915	10	I						
22045.83	4534.733	10	I			1.35	1.35	4	
22047.44	4534.444	0	II						
22047.89	4534.309	0	I						
22049.62	4533.954	3	I						
22050.26	4533.823	3	I						
22050.54	4533.765	3	II						
22051.46	4533.576	3	I						
22051.81	4533.504	3	I						
22053.49	4533.159	3	II						
22054.97	4532.854	1	II						
22055.80	4532.685	3	II						
22056.39	4532.562	300	I						
22057.02	4532.433	300	II						
22057.66	4532.302	0	II						
22058.96	4532.035	300	I			0.175	1.126	1	
22059.71	4531.880	300	I			0.133	1.314	3	
22060.22	4531.776	3	I						
22060.73	4531.670	1							
22061.31	4531.552	3000 R	I	7.0	8.0	1.18	1.24	1	22061- 0
22063.81	4531.037	1	II						
22064.11	4530.976	1	II						
22064.42	4530.913	1	II						
22064.92	4530.810	10	II						
22065.89	4530.612	3	I						
22066.65	4530.456	30	II						
22067.25	4530.332	10	I						
22068.10	4530.158	0	II						
22069.98	4529.772	100	II						
22070.86	4529.590	30							
22072.59	4529.237	10	II						
22072.80	4529.193	10	II						
22073.18	4529.114	100	I			0.08	1.31	3	
22073.99	4528.949	3	I						
22074.43	4528.858	1	II						
22075.18	4528.706	1	II						
22077.11	4528.309	100	II					2	
22078.16	4528.094	3	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA						LEVELS	
				J-C	J-E	G-C	G-E	TYPE	CCC-EVEN		
22079.78	4527.761	3000	II	8.5	7.5	1.24	1.20	2	22908-	828	
22080.13	4527.690	3									
22080.68	4527.576	1000	I			0.153	1.574	2			
22080.94	4527.524	1000	I	7.C	8.0	1.32	1.31	1	8519-	30600	
22082.44	4527.215	100	I								
22082.85	4527.132	0									
22083.57	4526.984	0	I								
22084.08	4526.878	30	II								
22084.37	4526.819	3	I								
22085.42	4526.605	3	II								
22086.76	4526.331	0	II								
22087.17	4526.245	0	II	7.C	8.0				19439-	37527	
22087.96	4526.083	300	I			0.366	1.253	3			
22089.00	4525.870	1	II								
22089.73	4525.722	30	I								
22091.36	4525.388	3	I								
22091.93	4525.271	30	I	8.C	9.0				14625-	36717	
22092.71	4525.110	1000	I						P		
22093.35	4524.980	1	I								
22093.94	4524.859	10	II								
22094.65	4524.714	30	I								
22096.60	4524.314	3	II								
22098.08	4524.012	10	II								
22098.61	4523.902	30	I								
22098.96	4523.832	3	II								
22099.30	4523.762	1	II								
22100.04	4523.610	1	II								
22100.40	4523.536	100	I	5.C	4.0				33025-	10925	
22100.86	4523.442	100	I								
22101.17	4523.388	10	I	7.C	7.0				15194-	37295	
22102.65	4523.075	3	I	7.0	7.0				8519-	30621	
22103.22	4522.959	30	II								
22104.46	4522.704	30	I								
22105.14	4522.567	3	II								
22105.79	4522.434	3	I								
22106.23	4522.344	3	II								
22106.63	4522.261	3	II								
22107.19	4522.147	3	I								
22107.85	4522.011	1	II	6.5	5.5				31978-	9870	
22108.49	4521.881	1	I								
22108.82	4521.813	3	II								
22109.53	4521.669	100	I	8.C	8.0	1.315	1.315	4	15567-	37676	
22109.93	4521.586	1	II								
22110.27	4521.517	3	I								
22110.79	4521.411	1	I								

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS OCC-EVEN
						G-C	G-E	TYPE	
22113.71	4520.815	100	I						
22114.35	4520.683	3	II						
22114.64	4520.623	1	II						
22116.52	4520.239	10	II						
22117.14	4520.114	0	II						
22117.95	4519.947	0	II	8.0	9.0				19092-41210
22118.60	4519.815	300	II			0.070	1.443	2	
22119.03	4519.726	100	I						
22119.60	4519.610	10	II	3.5	3.5				33073-10953
22119.89	4519.551	0	II						
22120.67	4519.392	30	I						
22121.70	4519.182	10	II						
22122.19	4519.081	30	I						
22122.91	4518.934	100	II						
22123.56	4518.800	30	II						
22124.02	4518.708	30	I						
22124.74	4518.560	10							
22125.00	4518.506	300	II			1.32	1.32	1	
22125.53	4518.399	1	II						
22126.30	4518.241	30	I						
22127.05	4518.088	30	I						
22127.41	4518.015	0	I						
22127.86	4517.922	3	II						
22128.38	4517.817	10	I						
22128.81	4517.729	10	I						
22129.22	4517.644	10	I						
22129.79	4517.528	10	I	6.0	5.0				31341- 9211
22130.04	4517.478	1	I						
22130.42	4517.400	0	II						
22130.80	4517.322	1	I						
22131.66	4517.147	10	II						
22132.62	4516.951	1000	I	6.0	7.0	1.392	1.198	1	11673-33806
22133.18	4516.838	300	I			0.276	1.509	2	
22133.50	4516.772	0	II						
22135.19	4516.427	0	II						
22136.18	4516.225	100	I						
22136.54	4516.151	1	II						
22136.81	4516.095	100	I	8.0	8.0				16733-38870
22137.47	4515.961	10	I						
22137.69	4515.916	30	II	5.5	4.5				36264-14126
22139.23	4515.602	30	I						
22139.46	4515.556	100	II			0.104	1.181	1	
22140.65	4515.314	0	II						
22141.00	4515.241	30	I						
22141.65	4515.109	1	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
22142.02	4515.034	100	II			0.16	1.084	1	
22143.40	4514.753	10	II	4.5	3.5				33097-10953
22144.71	4514.484	10	I						
22145.02	4514.422	3	I						
22145.36	4514.352	1	I						
22145.96	4514.230	10	I						
22147.09	4514.000	100	I						
22147.47	4513.923	C	II						
22147.71	4513.874	C	II						
22148.33	4513.747	30	I						
22148.68	4513.675	30	I						
22149.12	4513.586	1000	I	8.0	9.0	1.36	1.31	1	7565-29714
22149.62	4513.483	3	I						
22150.00	4513.408	30	II						
22150.49	4513.307	3	I						
22151.16	4513.170	30	I						
22151.79	4513.042	10	I						
22152.17	4512.964	10	I						
22152.46	4512.906	0	II						
22153.77	4512.639	1	I						
22154.25	4512.540	30	I						
22154.74	4512.442	10	II						
22155.95	4512.194	30	II						
22157.44	4511.892	0	I						
22157.84	4511.809	10	II						
22158.28	4511.721	10	I						
22158.75	4511.625	30	II						
22160.21	4511.327	30	I						
22160.60	4511.248	30	I						
22161.49	4511.067	1	II						
22162.04	4510.954	1	I						
22162.55	4510.852	300	I						
22163.44	4510.671	30	I						
22164.21	4510.513	10	II						
22165.95	4510.158	1	II						
22166.64	4510.018	100	I						
22166.98	4509.950	30	II	5.5	4.5				31599- 9432
22167.58	4509.826	10	I	8.0	9.0				12007-34174
22167.65	4509.812	10	I						
22167.96	4509.750	0	II	7.0	7.0				15439-37607
22168.61	4509.617	1	I	9.0	9.0				17727-39895
22169.28	4509.483	1	I						
22169.66	4509.405	1	II						
22170.38	4509.257	30	I						
22171.57	4509.016	30	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	OCC	EVEN
22172.76	4508.773	0	II							
22173.32	4508.659	1	I							
22174.27	4508.466	1	I							
22174.97	4508.324	0	II							
22175.53	4508.210	10	II							
22176.15	4508.086	300	I	9.0	8.0	1.27	1.25	2	16693-38870	
22176.38	4508.038	10	I							
22177.23	4507.866	3	I							
22177.56	4507.798	300	I	5.0	4.0				33102-10925	
22178.19	4507.669	30	I							
22179.15	4507.475	10	I							
22179.86	4507.330	3	I							
22181.79	4506.939	300	I	8.0	8.0			A	14625-36807	
22182.40	4506.814	10	I							
22183.99	4506.492	10	I	8.0	7.0				15567-37751	
22184.37	4506.414	0	I							
22184.98	4506.290	100	I			0.04	1.36	2		
22185.33	4506.219	3	II							
22186.10	4506.063	100	II							
22186.46	4505.989	1	I							
22186.84	4505.913	1	I							
22187.23	4505.834	3	I							
22188.27	4505.622	300	II			0.099	1.298	3		
22189.08	4505.457	10	I							
22189.26	4505.421	10	I							
22190.37	4505.196	0	II							
22190.81	4505.106	0	I							
22191.54	4504.958	3	I							
22192.50	4504.764	0	I							
22193.16	4504.629	0	I							
22194.11	4504.437	0	II							
22194.53	4504.351	3	I							
22195.10	4504.235	10	I							
22195.99	4504.055	30	I							
22196.61	4503.930	0	I	8.0	9.0				14625-36822	
22197.40	4503.753	0	II							
22197.91	4503.665	3	I							
22198.84	4503.476	100	I							
22199.35	4503.372	1000	I	5.0	5.0	1.242	0.910	3	31410- 9211	
22200.05	4503.232	3000	II			CG =	0.120	1		
22200.60	4503.119	100	I							
22201.58	4502.920	3	II							
22202.45	4502.744	300	I			1.41	1.41	4		
22203.15	4502.603	1000	II			0.122	1.062	1		
22203.69	4502.493	100	II							

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
22204.C3	4502.424	0	I						
22204.35	4502.360	3	I						
22204.98	4502.232	100	I						
22205.57	4502.111	3	I						
22206.25	4501.974	30	II						
22206.67	4501.889	10	I						
22207.04	4501.814	3	II						
22207.38	4501.745	0	I						
22208.15	4501.590	3	I						
22208.53	4501.511	3	I						
22209.69	4501.276	10	II						
22209.83	4501.248	10	II						
22210.89	4501.034	3	II						
22211.89	4500.832	0	II						
22212.30	4500.748	10	II						
22213.13	4500.579	30	II	4.5	4.5				36340-14126
22213.98	4500.407	1	I	5.C	4.0				33139-10925
22214.85	4500.231	1	I						
22215.31	4500.138	30	I	9.C	9.0				999C-32206
22215.84	4500.030	3	I						
22216.20	4499.958	1	II						
22216.40	4499.916	100	II						
22217.42	4499.710	10	I						
22217.93	4499.607	1	II						
22218.51	4499.490	3	II						
22219.65	4499.259	1000	I			1.34	1.34	4	
22220.19	4499.150	30	I						
22220.58	4499.071	100	I	7.C	8.0				8519-30739
22221.29	4498.927	30	II						
22221.78	4498.828	3	I						
22222.91	4498.599	30	I						
22223.44	4498.492	10	II						
22223.78	4498.422	300	II	5.5	4.5				36350-14126
22224.72	4498.232	10	I						
22225.63	4498.048	3	I						
22226.98	4497.775	30	I						
22227.76	4497.618	30	II						
22228.14	4497.541	0	II						
22229.39	4497.287	3	II						
22229.72	4497.220	10	I						
22230.20	4497.124	1	I						
22230.29	4497.106	10	II						
22231.05	4496.952	1	I						
22231.28	4496.906	1	I						
22231.67	4496.826	100	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
22233.97	4496.361	1000	I			0.60	1.93	2	
22234.89	4496.176	10	I						
22235.36	4496.080	30	II						
22235.59	4496.033	10	II						
22236.74	4495.801	1000	I			1.30	1.30	4	
22237.42	4495.664	1	II						
22237.52	4495.644	300	I						
22238.19	4495.507	10	I						
22239.75	4495.192	1	I						
22240.27	4495.088	100	I	8.0	8.0				16733-38973
22240.61	4495.018	0	I						
22241.44	4494.851	10	I						
22241.83	4494.771	3	I						
22242.65	4494.607	3	II						
22242.87	4494.562	3	I						
22243.45	4494.445	1	I						
22244.15	4494.302	3	I						
22245.08	4494.115	30	II						
22245.71	4493.988	0	II						
22247.57	4493.613	0	II						
22248.92	4493.340	10	I						
22250.15	4493.091	100	I						
22250.42	4493.036	10	II						
22250.93	4492.933	3	II						
22251.32	4492.854	0	I						
22251.77	4492.784	3	II						
22251.98	4492.721	10	I						
22252.21	4492.674	0							
22252.82	4492.551	10	I						
22254.33	4492.247	1	II						
22254.61	4492.191	3	II						
22254.84	4492.144	300	I					1	
22255.14	4492.084	30	II						
22255.48	4492.016	0	II						
22255.97	4491.917	10	I						
22258.91	4491.323	1000	I			0.382	1.365	3	
22260.18	4491.067	100	I			0.099	1.156	1	
22260.58	4490.985	300	I						
22260.81	4490.940	3	I						
22261.62	4490.777	1	II						
22263.30	4490.438	300	II			1.23	1.23	4	
22266.64	4489.763	100	I	9.0	9.0				13495-35762
22266.90	4489.711	10	I						
22267.30	4489.631	1	I						
22267.92	4489.505	10	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	GCC-EVEN
22268.67	4489.354	10	II						
22269.31	4489.224	3	I						
22269.60	4489.168	30	II	5.5	4.5				31701- 9432
22270.07	4489.073	10	I						
22270.50	4488.985	10	I						
22270.77	4488.931	1	II						
22271.12	4488.861	10	I						
22272.40	4488.603	10	I						
22272.72	4488.538	300	II						A
22273.02	4488.478	100	I						
22273.64	4488.353	30	I						
22273.98	4488.284	3	II						
22274.48	4488.182	300	I	8.0	8.0	1.31	1.29	3	15567-37841
22276.10	4487.857	300	I	8.0	8.0	1.36	1.32	3	7565-29841
22277.53	4487.568	1	II						
22277.91	4487.493	3	I						
22278.69	4487.336	1	I	9.0	10.0				17727-40005
22278.87	4487.299	0	II						
22279.59	4487.153	100	I	9.0	8.0				16693-38973
22280.02	4487.068	0	II						
22280.59	4486.953	0	II						
22280.74	4486.922	0	I						
22281.97	4486.675	30	I						
22282.65	4486.537	100	I						
22283.02	4486.464	100	I						
22283.42	4486.383	0	I						
22284.22	4486.222	300	II	6.5	6.5	1.25	*1.135	3	29769- 7485
22284.97	4486.071	10	I						
22285.18	4486.028	30	II						
22285.99	4485.865	30	I						
22286.60	4485.743	300	I			0.142	1.30	3	
22287.30	4485.602	3	II						
22287.57	4485.546	30	I						
22287.87	4485.487	30	I						
22288.90	4485.280	1	II						
22289.49	4485.161	1	I						
22290.00	4485.059	300	I						
22290.65	4484.928	3	II						
22291.32	4484.792	10	II						
22292.66	4484.522	30	I						
22293.13	4484.428	100	II	7.5	7.5				26634- 4341
22293.49	4484.357	3000	I	6.0	7.0	1.37	1.37	4	10088-32382
22294.93	4484.066	30	II	3.5	4.5				34095-11801
22295.71	4483.909	100	II						
22297.84	4483.482	1							

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS OCC-EVEN
						G-C	G-E	TYPE	
22298.18	4483.413	10	I						
22298.90	4493.268	1	I						
22299.56	4483.136	10	I						
22299.95	4483.057	10	I						
22300.39	4482.969	10	II						
22300.63	4482.921	10	II						
22301.53	4482.739	1	II						
22301.65	4482.716	1	II						
22301.89	4482.667	9	I						
22302.22	4482.600	10	I						
22302.69	4482.507	30	I	8.C	9.0				16733-39035
22303.64	4482.316	100	II					3	
22303.77	4482.290	100	I						
22304.30	4482.184	10	II						
22304.83	4482.077	1000 W	I					1	
22305.43	4481.956	1000	II	6.5	5.5			2	29769- 7463
22306.58	4481.724	30	II						
22307.41	4481.558	3	II						
22308.25	4481.389	10	I						
22308.66	4481.307	30	II						
22309.68	4481.101	1	I						
22310.20	4480.997	1	I						
22310.39	4480.959	1	I						
22311.15	4480.807	30	I	5.C	5.C				31522- 9211
22311.78	4480.680	1000	I	8.C	7.0	1.36	1.38	1	7565-29877
22312.48	4480.539	100	I						
22312.81	4480.473	30	II						
22313.02	4480.432	30	I	9.C	9.0				15972-38285
22313.90	4480.254	30	I						
22314.94	4480.045	0	I						
22315.30	4479.973	10	I						
22315.95	4479.843	10	II						
22317.04	4479.623	10	II						
22317.29	4479.574	3	II						
22317.59	4479.514	100	I						
22317.83	4479.464	300	I			0.292	1.023	1	
22318.08	4479.415	100	I						
22318.84	4479.263	30 W	I						
22319.54	4479.122	30	II						
22319.84	4479.062	100	II						
22320.44	4478.942	0	I						
22320.96	4478.837	30	II						
22322.42	4478.544	100	I	6.C	7.0				10088-32411
22323.62	4478.304	1	I						
22324.03	4478.222	1	II						

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
22324.69	4478.089	1	I						
22325.32	4477.963	10	I	6.0	6.0				29375- 7050
22325.64	4477.898	10	II						
22326.19	4477.788	3	I						
22327.10	4477.606	300	I	10.0	9.0				12892-35219
22327.45	4477.536	100	I						
22327.75	4477.475	100	II						
22328.11	4477.402	0	I						
22328.38	4477.349	10	I						
22328.59	4477.306	10	I						
22329.34	4477.156	100	II						
22330.10	4477.005	100	I						
22331.17	4476.791	30	I						
22331.99	4476.624	100	II						
22332.08	4476.606	100	II						
22332.67	4476.489	3	II						
22334.79	4476.063	30	II						
22335.10	4476.002	3	I						
22336.21	4475.779	300	I						
22337.30	4475.561	30	I						
22337.72	4475.476	300	II						
22338.82	4475.256	100	I						
22339.43	4475.135	10	II	4.5	4.5				36466-14126
22340.11	4474.998	3	I						
22341.08	4474.803	1	II						
22342.10	4474.598	10	II						
22342.45	4474.530	1							
22342.90	4474.440	10	II						
22343.87	4474.246	10	I						
22344.38	4474.142	10	I	6.0	5.0				31555- 9211
22344.95	4474.028	100	I						
22346.54	4473.711	10	I						
22346.94	4473.629	100	I						
22347.49	4473.520	300	II	6.5	5.5				32218- 9870
22347.49	4473.520	300	II	5.5	5.5				35685-13338
22347.89	4473.439	30	II						
22348.61	4473.295	0	II	7.0	7.0				12655-35003
22349.05	4473.209	1	II						
22349.40	4473.137	1	II						
22351.10	4472.798	100	I						A
22352.12	4472.592	30	II						
22353.02	4472.413	30	I						
22354.23	4472.171	100	I						
22354.64	4472.090	30	II	8.5	7.5				26695- 4341
22355.74	4471.870	1	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
22355.99	4471.819	10	II						
22356.53	4471.711	1	II						
22357.08	4471.601	10	I						
22357.57	4471.503	100	I	9.0	10.0				15972-38329
22357.75	4471.468	100	I						
22358.30	4471.358	10	I						
22359.47	4471.124	300	II					3	
22359.98	4471.022	30	I						
22360.57	4470.902	100	I						
22361.76	4470.665	30	II						
22362.18	4470.580	30	II						
22363.46	4470.325	3	I						
22364.09	4470.199	3	I						
22364.53	4470.112	1	II						
22365.61	4469.895	10	II						
22366.26	4469.766	10	I						
22367.55	4469.509	1	I						
22367.71	4469.476	3	II						
22370.40	4468.939	10	I						
22370.54	4468.911	30	II						
22371.87	4468.644	3	II						
22372.90	4468.440	10	I						
22373.13	4468.393	10	I						
22373.93	4468.233	3	I						
22374.41	4468.137	3000	II	7.5	7.5	1.18	1.20	3	23202- 828
22375.75	4467.870	1000	II			0.421	1.19	3	
22376.43	4467.734	10	II						
22378.04	4467.413	30	II						
22378.72	4467.278	10	I						
22379.53	4467.115	0	II						
22380.51	4466.920	0	I						
22381.21	4466.780	100	I					2	
22382.44	4466.535	10	I						
22382.87	4466.449	10	II						
22383.23	4466.376	3	I						
22383.66	4466.292	30	II						
22383.93	4466.270	300	I	9.0	8.0				15972-38356
22384.28	4466.168	10	I						
22386.32	4465.759	100	II						
22386.68	4465.689	100	I						
22386.82	4465.660	30	II						
22387.69	4465.487	100	I						
22388.32	4465.361	100	I						
22388.82	4465.261	1000	I			0.308	1.221	3	
22391.57	4464.713	30	II						

TABLE

DY LINE LIST

PAGE 303

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C		ZEEMAN DATA			LEVELS
				J-C	J-E	G-C	G-E	TYPE	CCC-EVEN
22394.21	4464.188	100	II						
22394.70	4464.089	10	II						
22395.09	4464.011	1	I						
22396.50	4463.730	100	I						
22396.72	4463.686	3	I						
22397.20	4463.592	0	II						
22397.70	4463.492	3	I						
22398.13	4463.406	10	II						
22398.80	4463.273	300	I	4.C	4.0				33324-10925
22399.54	4463.124	10	I	7.C	8.0				18433-40833
22400.25	4462.983	10	I						
22400.62	4462.910	30	II						
22401.22	4462.789	100	II						
22401.71	4462.693	1	I						
22401.80	4462.674	1	I						
22402.83	4462.470	1	I						
22403.04	4462.428	3	I						
22403.34	4462.367	1	II						
22403.64	4462.308	100	I						
22404.39	4462.160	0	II						
22405.74	4461.890	3	II						
22406.02	4461.834	10	I						
22406.57	4461.723	1	I						
22407.03	4461.633	1	II						
22407.66	4461.508	30	II						
22408.34	4461.372	1	II						
22408.99	4461.243	100	II						
22409.46	4461.148	30	II						
22410.10	4461.022	30	II						
22412.52	4460.540	10	I						
22413.51	4460.343	3	I						
22413.66	4460.314	10	I	6.5	5.5				29877- 7463
22413.83	4460.279	10	II						
22414.48	4460.150	1	II						
22415.33	4459.981	30	II						
22415.45	4459.957	3	II	5.5	4.5				34216-11801
22415.77	4459.893	30	II						
22416.13	4459.821	30	II						
22416.89	4459.670	100	II						
22417.30	4459.588	0	II						
22417.69	4459.511	3	I	5.0	4.0				33342-10925
22419.81	4459.090	3	I						
22420.99	4458.855	30	I						
22422.52	4458.550	10	I						
22423.21	4458.414	3	I						

TABLE

CY LINE LIST

PAGE 304

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
22423.95	4458.266	3	II						
22424.65	4458.126	10	I						
22424.94	4458.069	10	II						
22425.49	4457.959	10	II						
22426.40	4457.779	10	I						
22427.10	4457.640	1	II						
22428.70	4457.323	10	II						
22429.88	4457.087	10	II						
22431.67	4456.732	3	I						
22434.60	4456.149	100	I						
22434.97	4456.077	10	I						
22436.27	4455.819	1	II						
22436.62	4455.748	1000	I					3	
22437.12	4455.650	1000	I	9.C	8.0			2	9990-32428
22437.38	4455.598	1000	II	6.5	6.5	1.295	*1.130	3	27193- 4755
22437.68	4455.537	1000	I			1.30	1.30	4	
22439.59	4455.158	30	II	7.C	8.0				14367-36807
22440.41	4454.997	3	I						
22440.69	4454.940	3	I						
22441.00	4454.878	3	I						
22442.20	4454.641	100	II						
22442.82	4454.516	10	I	9.C	8.0				13495-35938
22443.08	4454.467	100	II						
22443.76	4454.332	300	I						
22444.16	4454.252	100	I						
22444.44	4454.196	30	I	9.C	9.0				13495-35940
22445.94	4453.899	30	I						
22448.60	4453.371	30	I						
22451.08	4452.879	300	I					3	
22451.69	4452.757	100	I						
22452.53	4452.591	30	I						
22453.02	4452.495	10	II						
22453.56	4452.387	100	II						
22456.10	4451.883	30	I						
22456.84	4451.736	10	II						
22457.61	4451.583	30	I						
22458.70	4451.368	1	II						
22458.80	4451.347	3	II						
22459.36	4451.237	10	II						
22460.34	4451.042	3	I	7.C	8.0				8519-30979
22460.87	4450.938	1	I						
22461.80	4450.753	10	II	8.0	8.0				14625-37087
22463.26	4450.463	1	I						
22463.89	4450.340	1	II						
22464.71	4450.177	100	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	GCC-EVEN	
22465.91	4449.940	3	II							
22467.11	4449.702	3000	II	7.5	8.5	1.30	1.29	1	22467-	0
22469.07	4449.314	C	I							
22469.20	4449.287	3	II							
22470.00	4449.130	1000	II			1.23	1.23	4		
22470.90	4448.951	100	II					3		
22472.04	4448.723	C	I	9.0	9.0				15972-38444	
22472.59	4448.616	300	I					3		
22473.02	4448.532	10	II							
22473.46	4448.445	10	I							
22474.10	4448.317	10	I							
22474.77	4448.185	1000	II	6.5	7.5			1	23303	020
22476.12	4447.919	30	II							
22477.34	4447.677	300	I			1.34	1.34	4		
22478.37	4447.473	100	II							
22480.05	4447.140	3								
22480.58	4447.034	3	I							
22481.49	4446.855	C	II							
22482.07	4446.740	3	I	7.0	8.0				15194-37676	
22482.21	4446.713	C	I							
22482.63	4446.630	1	I							
22482.70	4446.616	3	II							
22483.15	4446.527	1	I							
22484.21	4446.318	1	II							
22484.93	4446.176	10	II							
22485.33	4446.097	300	I					3		
22486.21	4445.922	30	I							
22486.77	4445.810	1	II							
22487.14	4445.738	0	I							
22487.81	4445.605	C	I							
22488.33	4445.502	30	II							
22490.99	4444.977	300	II			1.27	1.27	4		
22492.50	4444.678	300	I							
22493.02	4444.576	3000	I	10.0	10.0	1.29	1.27	3	12892-35385	
22494.43	4444.297	100	I					A		
22494.76	4444.232	100	II							
22495.75	4444.037	30	I					4		
22496.80	4443.830	100	I							
22497.82	4443.627	10	II							
22498.76	4443.441	30	II							
22499.41	4443.313	30	I							
22500.06	4443.185	10	I							
22500.49	4443.101	10	II							
22501.84	4442.834	3	II							
22502.25	4442.753	100	I							

TABLE

DY LINE LIST

PAGE 306

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
22502.56	4442.692	1							
22503.75	4442.456	30	II						
22504.67	4442.276	3	I						
22505.26	4442.158	3	I						
22506.16	4441.982	10	I						
22506.83	4441.848	10	I						
22507.67	4441.683	1	II						
22508.02	4441.614	30	I						
22508.68	4441.485	0	I						
22509.48	4441.327	10	II						
22510.44	4441.137	3	II						
22510.76	4441.073	100	I						
22512.64	4440.702	100	II						
22514.58	4440.319	30	I						
22515.08	4440.221	10	I						
22515.52	4440.134	100	II	5.5	5.5				32386- 9870
22515.95	4440.050	1	I						
22516.34	4439.972	3	II						
22517.07	4439.829	30	II						
22518.00	4439.645	0	I						
22519.24	4439.400	30	II						
22520.10	4439.231	1	II						
22520.68	4439.118	30	II						
22521.06	4439.041	3	II						
22521.53	4438.950	3	I						
22521.83	4438.891	0	II						
22522.27	4438.804	3	II						
22522.61	4438.737	10	I						
22523.25	4438.610	30	II						
22523.54	4438.553	100	I						
22524.54	4438.357	100	I						
22524.98	4438.269	10	II						
22525.51	4438.165	3	II						
22525.68	4438.131	3	II						
22527.13	4437.845	3	I						
22527.80	4437.715	0	II						
22529.26	4437.427	0	I						
22530.82	4437.118	3	I						
22531.05	4437.075	3	II						
22531.65	4436.956	30	II						
22533.32	4436.627	300	II			1.33	1.33	4	
22534.05	4436.484	0	I						
22535.42	4436.213	3	II						
22535.75	4436.149	0	I						
22537.09	4435.884	10	I						

TABLE

DY LINE LIST

PAGE 307

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS	
				J-C	J-E	G-C	G-E	TYPE
22537.65	4435.774	300	II					1
22538.28	4435.651	0	I					
22538.64	4435.580	3	II					
22539.44	4435.421	100	II					
22540.55	4435.204	30	I					
22540.78	4435.159	30	I					
22541.01	4435.113	10	I	5.0	4.0			33466-10925
22541.77	4434.964	30	I					
22541.94	4434.930	3	I					
22542.93	4434.736	100	I					
22543.23	4434.677	30	II					
22543.53	4434.618	3	I					
22543.75	4434.574	0	II					
22544.47	4434.432	3	I					
22545.26	4434.278	3	II					
22547.17	4433.901	30	I					
22548.99	4433.543	30	I					
22549.59	4433.426	30	II					
22550.08	4433.329	10	I					
22551.07	4433.135	30	II					
22551.94	4432.964	3	II					
22552.27	4432.899	300	I					
22552.54	4432.846	100	I					
22552.90	4432.776	1	II					
22553.65	4432.627	100	II					
22555.37	4432.290	30	II					
22556.52	4432.064	10	II	7.0	7.0			15194-37751
22556.92	4431.985	30	I					
22559.53	4431.472	0	II					
22560.05	4431.369	10	I					
22560.94	4431.195	10	II					
22561.26	4431.132	10	II					
22561.98	4430.991	300	II					1
22562.52	4430.885	10	I					
22563.90	4430.614	100	I	9.0	8.0			9990-32554
22564.78	4430.441	10	I	8.0	8.0			22564- 0
22565.42	4430.315	10	I					
22565.76	4430.248	10	II					
22565.94	4430.213	10	II					
22567.97	4429.815	10	I					
22570.19	4429.379	10	II					
22570.90	4429.239	30	I					
22571.21	4429.180	30	II					
22571.56	4429.110	30	I					
22572.58	4428.910	100	II	3.5	4.5			36699-14126

TABLE

DY LINE LIST

PAGE 308

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	CCC-EVEN	
22573.60	4428.711	3C	II							
22574.77	4428.481	3C	I							
22575.47	4428.343	1C	I							
22576.43	4428.155	C	I							
22577.99	4427.848	3C	I							
22578.50	4427.749	1C	I							
22579.12	4427.628	3C	I	9.0	8.0					15972-38551
22580.18	4427.420	1C	II							
22580.38	4427.380	10C	I	8.0	8.0					18291-40871
22581.04	4427.252	1	II							
22581.33	4427.193	1C								
22582.49	4426.967	3	I							
22583.00	4426.866	1000	I			0.155	1.313	3		
22583.41	4426.785	0	I							
22583.92	4426.687	3	I							
22584.67	4426.539	1	II							
22585.87	4426.305	1C	I							
22586.57	4426.166	30C	I	7.0	8.0	1.27	1.30	2		14367-36954
22587.39	4426.007	C	I							
22588.31	4425.826	3C	II							
22588.47	4425.795	1C	I							
22589.55	4425.582	1	II							
22590.02	4425.492	10C	II						2	
22591.09	4425.281	0	I							
22591.45	4425.211	10C	II							
22591.82	4425.138	C	I							
22592.98	4424.912	3	II							
22593.72	4424.765	3C	I							
22595.03	4424.510	3	I							
22595.22	4424.473	C	II							
22596.15	4424.291	3	I							
22596.74	4424.175	1C	II							
22597.21	4424.083	3C	I							
22597.68	4423.990	10C	II							
22598.98	4423.736	3C	II							
22599.66	4423.604	300	I							
22599.76	4423.583	100	I							
22600.30	4423.479	1C	II							
22601.52	4423.239	10C	I							
22602.17	4423.113	1	II							
22602.80	4422.988	1C	I							
22603.50	4422.852	3	I							
22603.87	4422.778	10C	II							
22604.15	4422.725	3								
22604.60	4422.636	1C	I							

TABLE

DY LINE LIST

PAGE 309

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
22604.93	4422.571	30	II						
22605.24	4422.512	100	II					2	
22605.56	4422.449	10	I	7.0	7.0				8519-31124
22606.45	4422.275	30	I						
22607.57	4422.055	3	II						
22608.56	4421.862	1	II						
22609.47	4421.683	1000	II			1.335	1.335	4	
22609.72	4421.635	0	I	9.0	9.0				14512-37121
22610.87	4421.410	100	I						
22611.48	4421.291	10	I						
22612.40	4421.111	3	I						
22612.86	4421.021	3	II						
22613.78	4420.841	10	II						
22615.04	4420.595	100	I						
22615.92	4420.422	30	I						
22616.34	4420.341	30	II						
22616.58	4420.293	100	II	3.5	4.5				34417-11801
22617.48	4420.117	3	I						
22617.84	4420.047	10	I						
22618.07	4420.003	3	II						
22618.48	4419.922	1	I						
22618.70	4419.879	0	II						
22619.60	4419.702	300	I						
22620.61	4419.506	30	II						
22621.84	4419.265	3	II						
22622.19	4419.197	10	I						
22623.52	4418.939	10	II						
22623.67	4418.909	30	II						
22624.21	4418.803	100	I					3	
22624.99	4418.650	10	II	4.5	4.5				36751-14126
22625.42	4418.567	10	I						
22626.21	4418.413	3	I						
22627.29	4418.201	10	I						
22627.84	4418.095	1000	II	7.5	6.5	1.21	1.14	2	30112- 7485
22628.33	4417.598	1	II						
22629.41	4417.788	1	II						
22630.23	4417.627	30	I						
22631.23	4417.432	1	I						
22632.71	4417.142	10	II						
22632.97	4417.092	10	I						
22634.76	4416.744	30	I						
22635.94	4416.513	300	I						
22636.24	4416.455	10	I						
22636.45	4416.412	100	II						
22637.21	4416.265	10	II						

TABLE

DY LINE LIST

PAGE 310

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA		LEVELS	
				J-C	J-E	G-C	G-E
22638.53	4416.008	30	II				
22638.69	4415.977	30	II				
22639.10	4415.896	30	I				
22639.49	4415.820	100	II				
22640.63	4415.599	30	I				
22641.11	4415.504	3	I				
22642.42	4415.248	30	II				
22643.74	4414.992	30	I	8.0	8.0		16733-39376
22644.53	4414.839	30	II				
22645.16	4414.714	100	II				
22645.58	4414.634	100	I				
22645.95	4414.561	10	II				
22646.30	4414.492	10	I				
22646.66	4414.422	30	I				
22647.28	4414.301	0	II				
22647.94	4414.172	10	I				
22648.24	4414.114	3	I				
22648.46	4414.071	3	II				
22648.91	4413.983	100	I				
22650.64	4413.647	3	II				
22651.19	4413.541	3	II				
22652.38	4413.307	1	I				
22653.00	4413.187	1	II				
22653.83	4413.024	10	I				
22653.99	4412.993	30	I				
22654.30	4412.933	30	I				
22654.50	4412.895	10	II				
22655.14	4412.769	300	I				
22655.65	4412.670	30	II				
22656.48	4412.509	3	II				
22657.58	4412.294	3	II				
22657.95	4412.223	3	I				
22658.51	4412.114	10	II				
22659.16	4411.986	10	I				
22659.44	4411.933	30	I				
22660.79	4411.669	300	I				
22661.14	4411.602	30	I				
22661.71	4411.491	30	I				
22662.42	4411.353	1000	I				
22662.98	4411.244	30	II	4.5	5.5		36001-13338
22663.39	4411.164	100	I				
22663.68	4411.108	30	I				
22664.25	4410.996	300	I				
22664.77	4410.895	1	II				
22664.88	4410.874	10	I				

WAVE NUMNER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS	
				J-C	J-E	G-C	G-E	TYPE
22665.65	4410.724	30	II	6.5	5.5			36003-13338
22666.13	4410.631	100	II					
22666.56	4410.547	30	I					
22668.14	4410.239	3	I					
22668.41	4410.187	10	II					
22668.77	4410.116	30	I					
22669.23	4410.027	10	I					
22669.84	4409.909	300	I	8.0	8.0		3	12007-34676
22670.33	4409.813	1	I	8.0	7.0			14625-37295
22670.61	4409.758	30	II					
22671.58	4409.570	30	I					
22672.57	4409.378	3000	II	7.5	8.5	1.35	1.28	1 22672- 0
22673.32	4409.231	100	I					
22674.96	4408.913	0	I					
22676.01	4408.708	1	II					
22676.57	4408.600	3	I					
22678.70	4408.185	100	II					
22679.03	4408.122	100	II					
22679.48	4408.034	1000	II	7.5	6.5	1.315	1.138	2 27435- 4755
22680.14	4407.905	300	II					
22680.50	4407.836	3	I					
22680.74	4407.790	100	I					
22681.46	4407.650	100	II					
22682.09	4407.526	1000	I	8.0	9.0	1.28	1.28	4 12007-34689
22682.69	4407.410	100	I					
22683.07	4407.336	30	I	5.0	4.0			33608-10925
22683.07	4407.336	30	I	9.0	8.0			16693-39376
22683.51	4407.251	1	I					
22684.01	4407.154	100	II					
22684.56	4407.048	30	I	9.0	8.0			9990-32675
22685.04	4406.953	10	I					
22685.62	4406.842	100	I					
22686.15	4406.738	0	II					
22687.22	4406.530	1	II					
22688.58	4406.266	3	I					
22689.31	4406.124	3	II					
22690.02	4405.987	3	II					
22690.72	4405.851	30	I	7.0	6.0			14367-37058
22691.21	4405.756	30	I					
22692.01	4405.600	300	II			1.30	1.30	4
22692.56	4405.494	100	I					A
22693.59	4405.293	3	I					
22694.02	4405.211	3	I					
22694.14	4405.186	3	II					
22694.52	4405.112	30	I					

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
22694.76	4405.066	3C	II						
22695.80	4404.865	1C	II						
22696.85	4404.661	I	II						
22697.25	4404.583	1C	II						
22697.42	4404.551	1C	I						
22698.39	4404.362	3C	II						
22699.07	4404.229	3C	I						
20699.51	4829.682	3CC	II			0.171	1.35	3	
22700.48	4403.957	3CC	I			0.967		3	
22701.97	4403.668	I	I						
22702.23	4403.616	C	II						
22702.57	4403.551	3CC	I	9.0	9.0	1.29	1.27	3	15972-38674
22703.56	4403.359	I	II						
22703.94	4403.285	I	I						
22704.76	4403.125	1C	I						
22705.26	4403.03C	I							
22705.51	4402.980	3	I						
22706.10	4402.865	3C	I						
22706.75	4402.741	100		5.5	6.5				27462- 4755
22708.00	4402.497	3C	I						
22708.56	4402.388	I	I						
22709.44	4402.219	3	I						
22709.91	4402.128	100	II						
22711.27	4401.863	0	I						
22711.77	4401.766	3	II						
22711.98	4401.727	1C		7.0	7.0				26846- 4134
22712.43	4401.640	3C	II						
22713.23	4401.485	1C	I						
22713.66	4401.400	1C	I						
22714.32	4401.273	1C	I						
22715.05	4401.131	3	II						
22715.76	4400.994	3	II						
22716.23	4400.903	3	I						
22716.64	4400.823	1C	I						
22717.15	4400.725	1C	I						
22717.94	4400.570	3C	I	8.0	9.0				15567-38205
22718.77	4400.410	100	II	5.5	5.5				36057-13338
22719.33	4400.301	10							
22719.70	4400.231	1C	I	7.0	8.0				14367-37087
22720.16	4400.142	3C	II						
22720.49	4400.077	1000	II	6.5	5.5			2	32591- 9870
22721.94	4399.797	0	I						
22722.37	4399.713	3000	I	7.0	8.0	1.36	1.28	1	12655-35377
22723.05	4399.581	300	II	5.5	4.5				34524-11801
22723.56	4399.483	3C	I						

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
22724.24	4399.351	3	II						
22724.60	4399.281	3	I						
22725.26	4399.153	3C	I						
22725.59	4399.089	3	II						
22725.95	4399.021	300	I	8.C	8.0			1	18477-41203
22726.95	4398.826	3	II						
22727.23	4398.772	1	I						
22728.05	4398.614	3	II						
22728.68	4398.492	10	II						
22728.97	4398.437	1	II						
22730.24	4398.190	10	II						
22730.59	4398.122	100	I					2	
22731.23	4397.998	1C	II						
22732.07	4397.837	1	I						
22732.41	4397.770	30	II						
22733.86	4397.490	100	I	8.C	7.0			2	26868- 4134
22734.15	4397.434	3	II						
22734.69	4397.330	3	I						
22735.29	4397.213	1	II						
22735.72	4397.129	10	I	8.C	7.0				12007-34742
22736.07	4397.063	30	I						
22736.59	4396.961	1							
22737.11	4396.861	300	I					1	
22738.06	4396.678	1	I						
22739.59	4396.382	3	I						
22740.47	4396.212	3	I	8.C	7.0				14625-37366
22741.01	4396.107	10							
22741.29	4396.052	30	II						
22741.60	4395.992	30	I						
22744.48	4395.435	30	I						
22744.83	4395.368	100	I						
22745.82	4395.177	30	I						
22746.85	4394.978	3000	II	6.5	7.5	1.330	*1.206	1	23575- 828
22747.27	4394.897	1000	II	6.5	6.5	1.20	1.14	3	27502- 4755
22748.16	4394.725	1	I						
22748.78	4394.606	30	II						
22749.23	4394.519	1	II	8.5	7.5				2709C- 4341
22749.75	4394.418	30	II						
22750.68	4394.238	10	I						
22752.35	4393.916	10	II						
22753.28	4393.736	3	II						
22753.51	4393.692	3	I						
22754.47	4393.507	10	II						
22755.72	4393.265	100	I						
22756.14	4393.183	3	I						

TABLE

CY LINE LIST

PAGE 314

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCD-EVEN
22756.75	4393.067	10	I						
22757.61	4392.900	30	I	7.0	6.0				14367-37125
22758.72	4392.685	1	I						
22759.35	4392.564	3	II						
22760.10	4392.419	30	I						
22760.83	4392.280	3	II						
22762.62	4391.933	10	II						
22762.99	4391.861	10	I						
22764.26	4391.617	30	I						
22764.58	4391.556	10	I						
22765.01	4391.473	1							
22765.99	4391.283	1							
22767.84	4390.926	100C	I					3	
22768.10	4390.876	3							
22769.30	4390.644	3							
22770.23	4390.466	10	I						
22771.06	4390.306	100	I						
22772.23	4390.079	100	I	9.0	9.0	1.32	1.29	3	9990-32763
22772.82	4389.965	300	I	8.0	8.0	1.26	1.26	4	14625-37398
22773.82	4389.774	3000	I			0.092	1.350	3	
22774.68	4389.608	30	I						
22775.61	4389.429	30	I						
22777.19	4389.124	3	II						
22777.42	4389.080	1	II						
22778.26	4388.917	1	II						
22778.67	4388.878	1	II						
22779.22	4388.733	10	I						
22779.33	4388.712	3		5.0	5.0				31990- 9211
22779.69	4388.642	3	I						
22779.88	4388.606	3	I						
22780.18	4388.549	30	I						
22780.49	4388.487	10	I						
22780.65	4388.458	10	I						
22781.00	4388.390	C	II						
22781.43	4388.308	0	I						
22781.97	4388.203	3	II						
22782.19	4388.160	C	I						
22782.69	4388.064	10	I						
22783.69	4387.873	10	I						
22784.25	4387.765	C	II						
22785.06	4387.607	30	I						
22785.44	4387.534	1	II						
22788.02	4387.038	0	I						
22788.91	4386.866	30	I	8.0	8.0			3	15567-38356
22789.18	4386.814	30	I					3	

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
22789.49	4386.755	1							
22789.88	4386.680	3	I						
22790.33	4386.593	3	II						
22790.93	4386.479	1	I						
22791.90	4386.291	3	II						
22792.74	4386.130	0	II						
22793.61	4385.962	10	II						
22794.35	4385.820	10	I						
22795.22	4385.652	10	II						
22795.30	4385.636	10							
22795.64	4385.572	0	I						
22795.90	4385.521	3	I						
22797.20	4385.272	300	II			0.574	1.374	3	
22797.47	4385.220	0	I						
22797.76	4385.163	3	I						
22797.96	4385.125	0	I						
22798.90	4384.945	0	I						
22799.86	4384.760	10	I						
22800.55	4384.627	0	II						
22801.05	4384.530	10	I						
22801.53	4384.438	0	I						
22802.28	4384.295	1000	II	6.5	6.5	1.21	1.13	3	30287- 7485
22802.97	4384.161	3	I						
22803.67	4384.027	0	II						
22803.92	4383.978	1	II						
22804.51	4383.866	0	I						
22807.60	4383.272	0							
22807.80	4383.234	1	II						
22808.29	4383.139	300	II	4.5	5.5			1	32679- 9870
22808.47	4383.104	3	I						
22809.15	4382.973	1	I						
22810.15	4382.782	0	I						
22810.89	4382.640	3	I						
22811.41	4382.540	1	I	8.0	8.0				18021-40833
22812.97	4382.239	0							
22813.60	4382.119	0	I						
22814.28	4381.988	10	II						
22814.53	4381.940	10	II						
22814.71	4381.906	10	I						
22815.97	4381.664	1	I						
22816.81	4381.503	0	I						
22818.33	4381.210	0		5.0	5.0				32029- 9211
22818.62	4381.154	0	I						
22819.15	4381.054	30	I						
22820.94	4380.710	0	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA					LEVELS ODD-EVEN
				J-C	J-E	G-C	G-E	TYPE	
22821.69	4380.566	1	I						
22822.19	4380.469	1000	I	8.0	9.0	1.28	1.27	1	12007-34829
22823.01	4380.312	C	I						
22823.48	4380.221	1000	II	6.5	5.5	1.210	1.005	2	30287- 7463
22824.86	4379.957	1	II						
22825.24	4379.883	1	I						
22825.53	4379.829	C	II						
22826.24	4379.692	10	I						
22826.52	4379.638	C	II						
22826.88	4379.569	10	II						
22827.68	4379.416	C	I						
22828.09	4379.338	300 R	I	7.0	6.0	1.32	1.08	2	29878- 7050
22828.46	4379.266	C	I						
22829.13	4379.023	0	II						
22830.09	4378.955	0	II						
22831.89	4378.609	10	I						
22832.99	4378.397	3	I						
22833.33	4378.333	100	II	2.5	2.5	CG =	0.46	3	
22834.13	4378.178	0	I	6.5	5.5				32705- 9870
22834.85	4378.040	10	II						
22835.67	4377.884	10	II						
22836.01	4377.818	0	I	8.0	7.0				12007-34843
22836.12	4377.797	1	I						
22836.58	4377.709	3	II						
22837.11	4377.601	30	I			1.25	1.25	4	
22837.99	4377.439	30	II						
22838.59	4377.323	1	II						
22838.86	4377.272	1	I						
22839.49	4377.152	C	I						
22840.40	4376.977	C	II						
22842.79	4376.518	0	I						
22843.55	4376.373	C	I						
22843.81	4376.324	1	II	5.5	4.5				36970-14126
22844.41	4376.209	C	I						
22845.87	4375.929	3	II						
22845.96	4375.911	3	I						
22846.55	4375.800	1	I						
22848.32	4375.459	1	I						
22849.11	4375.308	3000	II			0.381	0.874	1	
22849.50	4375.235	30	I	8.0	8.0				18021-40871
22849.96	4375.147	30	II						
22850.33	4375.075	C	I						
22850.72	4375.000	10	I						
22850.89	4374.968	10	II						
22851.95	4374.764	3000	II	6.5	7.5	1.29	1.23	1	27193- 4341

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	OCC-EVEN	
22852.88	4374.587	1C	I							
22853.39	4374.489	3	I							
22853.85	4374.401	1C	I							
22854.72	4374.235	300C	II	7.5	8.5	1.28	1.30	1	22854-	0
22855.20	4374.142	3C	I							
22855.79	4374.030	3								
22856.16	4373.959	C	I							
22856.49	4373.896	1C	I							
22858.41	4373.529	C	II							
22859.90	4373.244	1	II							
22862.24	4372.796	3	I							
22862.88	4372.674	C	I							
22863.19	4372.615	0	II							
22863.53	4372.550	1C	I	5.0	4.0				33788-10925	
22864.13	4372.434	1	I	7.0	8.0				18339-41203	
22864.89	4372.290	1	II							
22866.15	4372.048	C	II							
22866.65	4371.953	0	II							
22867.74	4371.745	C	I							
22867.93	4371.708	1	I							
22868.71	4371.559	1	I							
22869.79	4371.353	1	I	10.0	9.0				12892-35762	
22869.79	4371.353	1	I	5.0	4.0				33795-10925	
22870.14	4371.286	30C	I			0.100	1.363	3		
22870.42	4371.232	3C	I	6.0	5.0				32082-	9211
22871.62	4371.003	1C	II							
22871.93	4370.943	1	II							
22872.83	4370.771	3	II							
22873.60	4370.624	1	I							
22873.97	4370.554	1	I							
22874.38	4370.475	1	I							
22874.70	4370.415	C	II							
22875.20	4370.318	C	II							
22875.83	4370.197	3C	II	7.5	7.5				27216-	4341
22876.32	4370.103	10C	I						A	
22876.70	4370.032	3C	II	6.5	6.5					30361- 7485
22877.00	4369.974	10C	I	8.0	9.0				A	15567-38444
22877.26	4369.925	C	I							
22878.25	4369.735	0	I							
22878.49	4369.690	1	I							
22878.88	4369.615	C	I							
22879.27	4369.541	30C	I	8.0	7.0	1.36	1.30	2	7565-	30444
22880.12	4369.379	0	II							
22880.79	4369.250	C	I							
22881.48	4369.119	1	I							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	CCC-EVEN	
22882.35	4368.953	0	I							
22882.61	4368.902	3	I							
22883.15	4368.799	1	I							
22884.32	4368.577	30	II							
22884.82	4368.481	0	I							
22885.19	4368.411	3	I							
22885.48	4368.354	0	II							
22886.00	4368.256	100	I			0.312	1.167	3		
22887.52	4367.906	1	I							
22887.94	4367.885	0	II							
22889.06	4367.671	3	I							
22889.48	4367.591	10		7.0	8.0				22889-	0
22889.62	4367.565	10	II							
22890.54	4367.389	30	II	5.5	4.5				34691-	11801
22891.02	4367.298	0								
22891.61	4367.185	100	II	8.5	7.5	1.25	1.25	4	27232-	4341
22892.05	4367.101	1	II							
22892.37	4367.041	1	I							
22893.07	4366.907	1	I							
22894.04	4366.722	3000	R I	8.0	9.0	1.35	1.26	1	7565-	30459
22895.00	4366.530	3	I							
22896.06	4366.336	10	I	9.0	8.0				13495-	36392
22896.53	4366.248	1	II							
22897.27	4366.106	300	II			0.270	1.018	1		
22897.65	4366.033	10	I	9.0	8.0				15972-	38870
22897.97	4365.973	10	II	6.5	5.5				30361-	7463
22899.14	4365.750	0	I	7.0	6.0				29949-	7050
22899.55	4365.671	3	I							
22899.86	4365.612	300	I	6.0	5.0	1.119	0.906	2	32111-	9211
22900.28	4365.532	10	II							
22900.72	4365.448	3	II							
22901.01	4365.392	0	II							
22901.52	4365.296	100	I	8.0	8.0	1.24	1.23	3	14625-	37527
22902.19	4365.167	0	I							
22902.70	4365.071	10	II							
22903.85	4364.851	10	I							
22904.00	4364.823	0	I							
22904.42	4364.743	0	I							
22904.68	4364.693	1	II							
22905.11	4364.612	3	I							
22905.46	4364.544	3	II							
22906.69	4364.309	0								
22907.25	4364.204	3000	II			0.426	1.292	3		
22908.08	4364.046	3000	II	8.5	8.5	1.24	1.29	3	22908-	0
22909.13	4363.845	0	I							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
22909.74	4363.730	1	I						
22910.94	4363.500	C	I						
22911.23	4363.446	3C	II	4.5	4.5				34712-11801
22911.73	4363.350	C	I						
22912.21	4363.258	100	II					2	
22912.76	4363.153	C	I						
22914.03	4362.913	300	II	7.5	6.5			2	30399- 7485
22914.46	4362.831	3	II						
22915.16	4362.698	C	II						
22916.34	4362.472	30	I	7.0	8.0				15439-38356
22917.25	4362.300	C	I						
22917.46	4362.259	300	II					1	
22918.10	4362.137	10	II						
22918.99	4361.968	C	II						
22919.20	4361.928	0							
22919.70	4361.832	C	I						
22920.46	4361.688	30	II						
22920.84	4361.616	0	I						
22921.17	4361.553	C	I						
22922.28	4361.343	300	II			0.119	1.186	1	
22922.60	4361.280	3	I						
22923.51	4361.107	10	II						
22924.13	4360.990	10	I						
22924.46	4360.928	3	II						
22925.51	4360.728	3	I						
22926.37	4360.563	30	II	5.5	5.5				36264-13338
22927.92	4360.270	10	I						
22928.19	4360.218	10	I	7.0	7.0				14367-37295
22928.36	4360.186	300	II			1.28	1.28	4	
22928.72	4360.116	3	II						
22929.22	4360.022	30	II						
22930.10	4359.854	0	I						
22931.42	4359.604	3	II						
22931.74	4359.542	2	II						
22932.50	4359.397	1							
22933.17	4359.272	C	I						
22933.48	4359.212	3	II						
22933.72	4359.166	3	I						
22934.37	4359.043	C	II						
22934.99	4358.924	C	I						
22935.70	4358.789	3 W	II						
22936.27	4358.682	C	I						
22937.15	4358.514	10	II						
22937.53	4358.443	300	II	8.5	7.5	1.27	1.21	2	23765- 828
22939.63	4358.043	3	I	4.5	4.5				37066-14126

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS CCC-EVEN
						G-C	G-E	TYPE	
22939.91	4357.991	3	II						
22940.75	4357.830	1C	I						
22941.66	4357.658	3	I						
22942.29	4357.538	C	II						
22944.36	4357.145	3C	II	6.5	5.5				36282-13338
22944.73	4357.075	1	II						
22945.77	4356.876	1	I						
22946.45	4356.747	10C	I				DG = 0.56	2	
22946.94	4356.656	1C	I						
22947.98	4356.457	1	I						
22948.16	4356.422	1	II						
22948.33	4356.391	1	I						
22948.77	4356.308	C	I						
22949.05	4356.254	C	I						
22949.34	4356.190	1C	II	5.5	4.5				37076-14126
22949.51	4356.168	1C	I						
22949.81	4356.109	10C	I				0.56	1.968	2
22951.42	4355.804	1C	II						
22952.03	4355.689	C	II						
22952.26	4355.644	3	I						
22953.56	4355.399	C	II						
22954.45	4355.229	30C	II	5.5	4.5	1.22	*0.825	2	32386- 9432
22955.40	4355.049	1C	II						
22955.70	4354.993	1C	I						
22956.33	4354.874	3C	II						
22956.01	4354.781	3C	I						
22957.16	4354.715	3C	I						
22959.31	4354.307	10C	I	8.0	9.0				16733-39692
22959.92	4354.193	C	II						
22960.48	4354.086	10	II						
22962.01	4353.795	1	I						
22962.32	4353.736	C	I						
22962.67	4353.671	0							
22963.10	4353.589	0	II						
22963.81	4353.455	0	II						
22963.99	4353.421	1	I						
22964.72	4353.281	1C	I						
22965.56	4353.122	3C	I						
22966.40	4352.963	3	II						
22966.82	4352.884	0	I						
22967.94	4352.671	1C	I						
22969.33	4352.408	3	I						
22969.58	4352.360	3	I						
22970.43	4352.199	0	II						
22970.98	4352.095	0	II						

TABLE

DY LINE LIST

PAGE 321

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
22971.98	4351.907	10	I						
22972.41	4351.825	10	I						
22973.27	4351.662	1	I						
22973.69	4351.582	1	II						
22974.35	4351.457	3	I						
22974.69	4351.392	C	I						
22975.17	4351.303	C	I						
22975.31	4351.276	3	I	7.C	7.0				18528-41503
22976.01	4351.143	C	II						
22977.02	4350.951	C	II						
22977.52	4350.858	0	I						
22978.69	4350.634	3	II						
22979.36	4350.508	30	II						
22979.69	4350.447	30	II						
22980.53	4350.288	0							
22981.34	4350.133	C	II						
22981.60	4350.083	0	I						
22982.27	4349.957	10	I	8.C	7.0				14625-37607
22982.53	4349.908	0	II						
22983.38	4349.747	3	I						
22984.09	4349.613	100	I	8.C	8.0				15567-38551
22985.15	4349.412	C	II						
22985.82	4349.286	1	I						
22986.48	4349.160	1	I						
22986.97	4349.069	100	II						
22988.01	4348.872	30	I						
22988.65	4348.750	3	I						
22989.60	4348.571	10							
22990.02	4348.490	10	II	8.5	7.5				37942-14952
22990.67	4348.368	10	I						
22990.86	4348.331	300	II					3	
22991.27	4348.255	10	I	9.C	9.0				13495-36487
22991.91	4348.133	3	I						
22992.85	4347.956	3	I						
22993.13	4347.902	10	I						
22993.31	4347.870	300	II						
22994.16	4347.708	3000 R	I	9.C	10.0	1.24	1.24	4	13495-36490
22994.99	4347.551	30	II						
22995.50	4347.454	C	II						
22996.39	4347.287	C	II						
22996.68	4347.232	1	I	8.C	7.0				12007-35003
22997.55	4347.068	C	I						
22997.77	4347.025	C	II						
22998.31	4346.924	C	I	7.C	7.0				14367-37366
22998.84	4346.822	30	I						

TABLE

BY LINE LIST

PAGE 322

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
22999.15	4346.764	3	I						
22999.87	4346.628	0	I						
23C01.23	4346.371	30C	II			0.414	0.771	1	
23C01.81	4346.261	300	II	4.5	5.5	1.155	1.418	2	36340-13338
23C02.20	4346.188	3C	I						
23C02.87	4346.061	0	II						
23C03.31	4345.980	0	I						
23005.18	4345.626	3	I						
23C05.88	4345.494	30	I						
23C06.57	4345.362	0	I						
23006.95	4345.291	1	II						
23007.73	4345.143	30	I	8.0	9.0			4	18021-41029
23C08.49	4345.000	0	I						
23C09.33	4344.842	0	I						
23C09.68	4344.775	3	I						
23C10.46	4344.629	300	I			0.492		3	
23C11.30	4344.470	30	I						
23C11.44	4344.444	10	II						
23C12.47	4344.249	300		7.0	7.0				15439-38452
23C12.47	4344.249	300	II	5.5	5.5			3	36350-13338
23C15.36	4343.703	0	I						
23C15.64	4343.651	0	II						
23C15.76	4343.627	0	I						
23C16.48	4343.492	0	I						
23C16.88	4343.416	1	I						
23C17.27	4343.342	0	II						
23C18.20	4343.167	10	II						
23C18.64	4343.084	3	I						
23C18.84	4343.046	3	I						
23C20.11	4342.807	0	I						
23C21.88	4342.472	300	I	5.0	4.0	1.307	0.618	2	33947-10925
23C22.78	4342.304	30	I						
23C23.06	4342.250	0	I						
23C23.98	4342.076	30	II						
23C24.73	4341.936	0	I						
23C25.81	4341.731	1	I						
23C26.18	4341.662	0	II						
23C27.08	4341.492	100	I						
23C27.50	4341.413	0	I						
23C27.93	4341.333	1	I						
23C28.29	4341.264	1	I						
23C28.73	4341.181	3	I						
23C29.22	4341.089	0	I						
23C29.73	4340.992	100	II						
23C30.68	4340.813	100	I	7.0	8.0				14367-37398

TABLE

DY LINE LIST

PAGE 323

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS OCC-EVEN
						G-C	G-E	TYPE	
23030.89	4340.774	C	I						
23031.57	4340.647	1	I						
23032.37	4340.495	3	I						
23032.84	4340.407	300	II	5.5	5.5	1.10	*0.998	3	32903- 9870
23033.15	4340.349	3	I						
23033.92	4340.203	C	I						
23034.55	4340.085	30	I	8.0	8.0				7565-30600
23035.62	4339.882	C	I						
23036.18	4339.778	10	I						
23036.83	4339.654	3000	II	6.5	6.5	1.15	1.13	3	27792- 4755
23037.00	4339.622	3000	II			1.31	1.31	4	
23038.41	4339.357	3	I						
23038.71	4339.301	3	I						
23039.47	4339.158	10	I						
23040.37	4338.988	10	I						
23040.64	4338.938	30	I						
23041.34	4338.805	1	I						
23043.18	4338.459	30	I						
23043.92	4338.320	10		6.5	5.5				32914- 9870
23044.30	4338.248	100	II						
23044.43	4338.223	1	I						
23046.48	4337.838	3	I	8.0	8.0				12007-35053
23048.48	4337.462	1000	II			0G=C. 205		1	
23049.67	4337.237	3	I						
23049.82	4337.209	0	I						
23050.47	4337.087	1	I						
23051.26	4336.938	100	I	8.0	8.0				14625-37676
23051.60	4336.875	300	I	5.0	5.0	1.261	*0.911	3	32263- 9211
23052.04	4336.791	1	II						
23053.10	4336.592	0	II						
23053.53	4336.512	1	II						
23053.89	4336.445	C	I						
23054.76	4336.281	0	II						
23055.09	4336.217	0	I						
23055.70	4336.103	100	I						
23056.27	4335.995	1000	I	8.0	7.0	1.36	1.27	2	7565-30621
23057.38	4335.787	0	I						
23057.95	4335.679	100	II						
23060.15	4335.267	100	I					1	
23060.63	4335.176	0	I						
23061.40	4335.032	0	I						
23061.88	4334.941	10	I						
23062.20	4334.881	0	II						
23062.73	4334.782	1	I						
23063.53	4334.630	300	I	9.0	9.0	1.29	1.25	3	15972-39035

WAVE NUMBER	WAVE LENGTH	INT	SA	J-O	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
23063.90	4334.561	100	II						
23064.98	4334.358	100	I					A	
23065.96	4334.173	0	II						
23066.34	4334.103	1	I						
23066.61	4334.052	300	I			1.27	1.27	4	
23068.54	4333.689	300	II			0.211	1.224	2	
23069.35	4333.538	10	I						
23070.10	4333.396	1	I	7.0	7.0				18433-41503
23072.33	4332.977	30	I						
23072.73	4332.902	100	II						
23073.04	4332.845	1	II	3.5	4.5				37199-14126
23074.22	4332.623	30	I						
23074.98	4332.479	1	I						
23075.34	4332.412	1	I						
23075.62	4332.359	0	II						
23076.83	4332.133	1	I						
23077.14	4332.074	30	I						
23077.85	4331.941	10	II						
23080.29	4331.483	10	II						
23080.80	4331.388	1	II						
23081.05	4331.340	1	I						
23082.06	4331.150	100	I			0.064	1.418	2	
23082.65	4331.040	10	I						
23083.26	4330.926	10	I						
23083.78	4330.829	10							
23083.90	4330.805	0	I						
23084.65	4330.665	1	II						
23085.46	4330.514	10	I						
23086.32	4330.351	1	II						
23086.77	4330.267	3	I						
23088.22	4329.995	3	I						
23088.81	4329.886	1000	II			0.183	1.051	1	
23089.49	4329.758	300	I	7.0	6.0			A	12655-35744
23089.74	4329.710	300	II					3	
23090.61	4329.547	1	II						
23091.02	4329.470	3	II						
23091.42	4329.395	3	II						
23091.98	4329.290	0	II						
23092.62	4329.171	0	I						
23094.05	4328.902	3000	II	7.5	7.5	1.31	*1.224	3	27435- 4341
23095.30	4328.668	100		9.0	9.0	1.33	1.35	3	9990-33086
23095.65	4328.603	0	I						
23096.27	4328.487	3	I						
23097.54	4328.249	10 W	I						
23098.04	4328.154	3	I						

TABLE

DY LINE LIST

PAGE 325

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
23098.72	4328.026	1	I						
23099.21	4327.935	300	II			0.128	1.146	1	
23099.88	4327.809	0	I						
23100.72	4327.651	3	II						
23100.98	4327.604	3	I						
23101.60	4327.487	0	I						
23101.84	4327.443	0	I						
23102.70	4327.282	1	I						
23103.52	4327.128	0	I						
23105.04	4326.843	3	I						
23105.38	4326.780	100	II			1.34	1.34	4	
23106.14	4326.637	1	I	9.C	8.0				17727-40833
23107.54	4326.375	1000	I	8.C	9.0	1.30	1.27	1	15567-38674
23108.28	4326.237	30	I						
23108.76	4326.147	3	I						
23109.97	4325.919	300	I						
23110.27	4325.865	1000	I			0.248	1.103	1	
23110.53	4325.816	100	I						
23111.15	4325.699	3	I						
23111.78	4325.582	3	I						
23112.78	4325.394	0							
23113.23	4325.310	0	I						
23114.31	4325.108	3000	II			0.115	1.229	1	
23115.17	4324.948	0	I						
23116.70	4324.661	100	II			1.21	1.21	4	
23117.60	4324.492	100	I						
23118.12	4324.395	1	II						
23119.50	4324.137	1	I						
23120.09	4324.027	3	II						
23120.54	4323.943	0	II						
23121.33	4323.795	1000	I			0.207	1.356	3	
23121.49	4323.764	1000	II						
23121.79	4323.708	1	I						
23122.53	4323.571	1	II						
23123.17	4323.450	3	II						
23123.72	4323.348	30	I	9.C	8.0				15972-39096
23124.31	4323.238	0	I						
23124.65	4323.175	1	I						
23125.38	4323.037	1	I						
23125.71	4322.976	1	I	8.C	7.0				14625-37751
23126.70	4322.790	3	I						
23127.29	4322.681	1	II						
23127.35	4322.669	0	I						
23128.08	4322.533	3000	II	4.5	5.5			1	36466-13338
23128.97	4322.367	1000	I					3	

TABLE

CY LINE LIST

PAGE 326

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CDC-EVEN
23129.39	4322.289	10	II						
23129.55	4322.184	1000	II	7.5	6.5			2	27885- 4755
23130.23	4322.132	300	II	5.5	5.5			3	33001- 9870
23130.60	4322.062	0	I						
23130.94	4321.998	100	I						
23131.68	4321.860	0	I						
23131.90	4321.819	30	II						
23132.21	4321.762	0	II						
23133.77	4321.469	1	I						
23134.77	4321.283	1	II						
23135.28	4321.187	10	II						
23135.70	4321.109	1	I						
23137.76	4320.725	0	I						
23138.28	4320.627	3	I						
23138.94	4320.504	30	I						
23139.44	4320.411	3	I						
23140.19	4320.270	3	I						
23140.86	4320.146	3	II						
23141.20	4320.082	10	I						
23142.02	4319.930	0	II	3.5	3.5				34095-10953
23142.64	4319.814	1							
23143.04	4319.739	1	I						
23143.29	4319.692	0	I						
23143.47	4319.659	0	II						
23144.46	4319.474	1	I						
23144.71	4319.427	1							
23145.38	4319.301	0	II						
23145.66	4319.250	10	II						
23146.27	4319.137	1	I						
23146.59	4319.077	3	I						
23147.04	4318.991	1000	I	5.0	5.0	1.223	0.918	3	32359- 9211
23148.80	4318.664	0	II						
23149.26	4318.579	3	I						
23149.96	4318.447	0	II						
23150.45	4318.356	1000	I	8.0	9.0			1	7565-30716
23151.19	4318.217	300	I						
23151.94	4318.078	30	I						
23152.16	4318.036	30	I						
23152.58	4317.959	300	I					A	
23152.83	4317.912	1000	II					3	
23153.47	4317.792	10	II						
23153.70	4317.750	3							
23154.52	4317.596	100 W	I						
23154.87	4317.532	100	I	7.0	7.0				8519-31674
23157.49	4317.043	1	II						

TABLE

DY LINE LIST

PAGE 327

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS OCC-EVEN
						G-C	G-E	TYPE	
23158.62	4316.832	10	I						
23159.09	4316.744	100	II			1.32	1.32	4	
23159.36	4316.695	300	I	7.0	8.0			1	14367-37527
23160.08	4316.560	C							
23161.05	4316.380	1	II						
23161.89	4316.223	300 W	II	6.5	7.5			2	27502- 4341
23162.58	4316.095	10		8.0	9.0				16733-39895
23163.16	4315.987	1	I						
23163.33	4315.955	0	I						
23163.94	4315.840	30	II						
23164.66	4315.707	3	I	9.0	8.0				14512-37676
23165.22	4315.603	1000	I			0.370	1.726	2	
23166.29	4315.403	C	I						
23167.09	4315.255	10	I						
23167.23	4315.229	100	I					3	
23167.99	4315.087	100	I						
23168.62	4314.970	0	II						
23168.85	4314.926	1	I						
23169.01	4314.896	C	I						
23169.25	4314.853	0	I						
23169.64	4314.780	0	I	6.0	7.0				11673-34742
23170.27	4314.662	300	I	8.0	7.0	1.31	1.29	2	15567-38737
23171.14	4314.501	30	II						
23171.47	4314.438	1	I						
23171.96	4314.348	C	I						
23172.45	4314.256	300	I			0.25	1.57	2	
23173.15	4314.126	C	II						
23173.88	4313.990	10	I						
23174.19	4313.931	1000	I	8.0	8.0	1.36	1.32	3	7565-30739
23174.19	4313.931		I	6.0	6.0				30224- 7050
23174.47	4313.880	300	II			1.300	1.300	4	
23174.66	4313.844	1	I						
23175.60	4313.670	0	I						
23176.36	4313.528	300	I						
23176.87	4313.434	30	I						
23178.00	4313.223	10	I	6.5	7.5				38130-14952
23178.38	4313.152	30	I						
23179.37	4312.967	3	II						
23179.91	4312.867	3	I						
23180.66	4312.728	3	I						
23181.89	4312.499	C	II						
23182.26	4312.431	300	I					3	
23182.83	4312.325	3	I						
23183.50	4312.199	3	I	7.0	8.0				17687-40871
23183.91	4312.123	3	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS		
						G-C	G-E	TYPE	OCC	EVEN	
23184.86	4311.946	300	R	I	8.C	7.0	1.22	1.16	2	27319-	4134
23185.72	4311.788	10		I							
23186.93	4311.562	3		II							
23187.27	4311.498	0		II							
23187.92	4311.378	100		I					2		
23188.40	4311.289	10		I	8.C	9.0				18021-	41210
23188.66	4311.241	10		I							
23189.84	4311.020	30		II							
23190.70	4310.861	0		II							
23191.21	4310.765	0		I							
23191.78	4310.660	10		I							
23192.28	4310.566	0		I							
23192.82	4310.467	0		II							
23193.25	4310.387	1		I							
23193.73	4310.297	0		I							
23194.19	4310.212	1		I							
23194.60	4310.135	30		I							
23194.99	4310.064	30		I							
23195.59	4309.952	0		II							
23195.95	4309.884	0		II							
23196.32	4309.816	1									
23197.31	4309.632	0		II							
23198.32	4309.445	0		I							
23198.50	4309.411	30		II							
23199.87	4309.157	0		I							
23200.07	4309.120	1									
23200.56	4309.029	30		II							
23201.07	4308.935	3		I							
23201.40	4308.873	10		II							
23202.73	4308.626	3000		II	7.5	8.5	1.188	1.291	2	23202-	0
23204.22	4308.349	1000		I			0.242	0.983	1		
23204.70	4308.260	1		I							
23205.12	4308.182	1		I							
23205.51	4308.110	1		I							
23205.79	4308.058	3		II							
23206.41	4307.943	30		I							
23206.89	4307.854	1		I							
23209.51	4307.368	10		I							
23210.38	4307.205	3		I							
23210.97	4307.096	3		I							
23211.52	4306.994	3									
23212.21	4306.865	100		I	9.C	9.0				13495-	36708
23212.75	4306.766	1000		I	8.C	9.0	1.28	1.28	4	12007-	35219
23214.87	4306.371	1		I							
23215.10	4306.329	3		II							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
23215.48	4306.259	3	II						
23215.69	4306.221	100C	I						
23216.22	4306.122	100	I	8.0	8.0				14625-37841
23216.37	4306.094	10	II						
23217.47	4305.889	30	II						
23218.06	4305.780	0	I						
23218.79	4305.646	3	I						
23220.02	4305.417	100	I	6.0	5.0	1.121	0.902	2	32431- 9211
23221.04	4305.228	1	II						
23221.67	4305.112	0	I	9.0	9.0				13495-36717
23222.13	4305.025	1	II						
23222.53	4304.953	0	II						
23222.74	4304.913	0	I						
23222.98	4304.869	1	II						
23223.82	4304.712	1	II						
23224.81	4304.528	100	I						
23224.96	4304.501	30	I						
23226.04	4304.301	1	I						
23226.52	4304.213	0	I						
23227.16	4304.093	10	II						
23228.16	4303.908	0	I						
23228.39	4303.866	1	I						
23228.67	4303.814	0							
23229.23	4303.710	0	II						
23229.35	4303.688	30	I						
23230.00	4303.568	30	II						
23230.10	4303.550	30	I						
23230.82	4303.417	10	I						
23231.56	4303.280	10	I						
23232.54	4303.098	0	II						
23233.15	4302.985	300C	II	5.5	6.5	1.304	*1.135	1	30718- 7485
23233.83	4302.858	10	II						
23234.61	4302.714	300C	II	5.5	6.5	1.291	1.130	1	27990- 4755
23235.33	4302.581	0	II						
23235.80	4302.494	0	I						
23236.26	4302.409	1	I						
23236.40	4302.382	1	II						
23236.59	4302.347	30	I						
23237.74	4302.134	0	I						
23238.50	4301.993	3	II						
23238.97	4301.907	10	II						
23239.92	4301.731	100	I					4	
23240.85	4301.559	30	I						
23241.28	4301.480	0	I						
23242.03	4301.340	100	I	8.0	8.0	1.29	1.32	3	12007-35249

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS CCC-EVEN
						G-C	G-E	TYPE	
23243.90	4300.993	1C	II						
23244.48	4300.807	1C	I						
23245.29	4300.736	300	II			1.09	1.09	4	
23245.85	4300.634	1C	II						
23247.22	4300.380	300	II	4.5	4.5	1.13	*0.825	3	32679- 9432
23247.75	4300.282	3	I						
23248.02	4300.232	3	II						
23248.30	4300.179	3C W	I						
23249.23	4300.008	10	I						
23250.76	4299.724	0	I						
23251.27	4299.630	30	I						
23252.22	4299.455	C	II						
23252.99	4299.312	1C W	I						
23254.35	4299.061	300	II	5.5	5.5	1.301	1.014	3	30718- 7463
23255.17	4298.910	1000	I	9.0	8.0	1.32	1.24	2	9990-33246
23255.60	4298.831	30	II						
23256.06	4298.745	3	II						
23257.29	4298.518	300	I	7.0	8.0			A	23257- 0
23257.82	4298.420	100	I						
23258.71	4298.255	300	I						
23259.99	4298.018	C	I						
23260.32	4297.957	C	I						
23261.31	4297.775	1000	I	9.0	9.0	1.32	1.31	3	9990-33252
23262.14	4297.621	300	I					3	
23262.97	4297.468	1C	I						
23263.13	4297.438	10	I						
23263.77	4297.321	3	I						
23264.05	4297.268	1000	II	6.5	6.5			3	28019- 4755
23264.65	4297.158	0	I						
23265.03	4297.088	100	II					A	
23266.11	4296.777	1	I						
23267.00	4296.724	1	I						
23267.82	4296.572	1	I						
23268.45	4296.457	3	II						
23268.59	4296.430	3	I						
23269.01	4296.353	300	I			CG =	0.32	2	
23269.74	4296.218	C	II						
23270.24	4296.126	1C	I						
23271.08	4295.970	10	II						
23272.12	4295.778	30	II						
23273.24	4295.572	100	II						
23273.55	4295.514	300	II						
23274.61	4295.319	10	I						
23274.92	4295.262	C		5.5	4.5				35075-11801
23276.14	4295.036	3000	I			0.136	1.358	2	

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
23276.73	4294.928	300C	II			0.237	1.104	1	
23279.29	4294.456	300	I			CG =	0.187	2	
23279.64	4294.391	1C	II						
23280.41	4294.248	3	I						
23280.97	4294.146	1	I						
23281.25	4294.094	1	II						
23281.81	4293.990	1							
23282.71	4293.825	10	II						
23283.19	4293.736	100	I						
23283.60	4293.660	100	I	7.C	8.0				12655-35938
23284.49	4293.496	10	I						
23285.94	4293.229	0	II						
23286.46	4293.133	1	I						
23287.62	4292.920	30C	II					4	
23288.04	4292.843	30	I						
23289.06	4292.653	30	I						
23289.63	4292.549	10	I						
23290.33	4292.419	30	II						
23291.75	4292.157	300	I						
23292.85	4291.955	3000 R	I	7.C	7.0	1.C8	1.17	3	27427- 4134
23293.11	4291.908	1000	I			CG =	0.70	2	
23294.18	4291.710	10	I						
23295.16	4291.529	30	II						
23296.51	4291.282	1	I						
23297.74	4291.055	0	I	7.0	7.0				15439-38737
23298.30	4290.952	30C	II					1	
23300.80	4290.491	10C	I						
23301.07	4290.442	3000	I	7.C	8.0	1.337	1.204	1	8519-31820
23301.67	4290.331	30	I						
23302.12	4290.249	C	I						
23302.47	4290.183	10C	I	9.C	9.0				17727-41029
23304.09	4289.886	10C	I						
23306.80	4289.386	C	II						
23307.65	4289.230	1	II						
23308.01	4289.163	30	I						
23309.10	4288.962	1	I	7.C	8.0				14367-37676
23309.36	4288.916	3	I						
23309.79	4288.837	3	I						
23310.10	4288.779	1	I						
23310.43	4288.719	10C	I			0.469	1.368	3	
23311.07	4288.600	1	II						
23311.49	4288.524	C	I	9.C	8.0				13495-36807
23311.64	4288.496	0	II						
23312.29	4288.376	C	II						
23313.33	4288.185	30	I			0.26	1.30	3	

TABLE

CY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CDC-EVEN
23313.67	4288.122	1							
23314.23	4288.019	3C	I						
23314.93	4287.890	0	I	7.0	6.0				12655-35970
23315.32	4287.819	1	II						
23316.22	4287.653	3	II						
23317.27	4287.461	1	I						
23318.40	4287.253	1C	II						
23320.30	4286.903	3	I						
23320.47	4286.812	3	I						
23320.92	4286.790	0	II						
23321.73	4286.641	0	I						
23323.24	4286.362	1	I						
23324.84	4286.068	30	I						
23325.70	4285.910	0	II	8.5	7.5				27666- 4341
23326.12	4285.833	10	II						
23326.45	4285.772	3	I						
23326.88	4285.693	0	II						
23327.37	4285.604	10	II						
23328.06	4285.477	1	I						
23329.06	4285.294	30	I						
23330.30	4285.065	1		6.0	7.0				11673-35003
23331.67	4284.814	3	II						
23331.99	4284.755	0	II						
23332.79	4284.608	0							
23333.21	4284.530	0	II						
23334.84	4284.232	30	I						
23335.35	4284.139	1							
23336.74	4283.882	1	II						
23337.28	4283.783	1	I						
23338.06	4283.640	0	II						
23338.42	4283.575	100	I						
23340.14	4283.259	100	I						
23341.06	4283.091	0	II						
23341.47	4283.016	10	I						
23341.81	4282.953	0	II						
23342.98	4282.739	1	II						
23343.48	4282.647	3	I						
23343.94	4282.561	1	I						
23344.45	4282.468	0	II						
23344.69	4282.424	0	II						
23346.28	4282.132	0	II						
23346.69	4282.057	100	I	5.0	5.0				DG = 0.242 3
23348.73	4281.683	1	II						
23349.48	4281.545	1	II						
23349.72	4281.501	3	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS	
				J-C	J-E	G-C	G-E	TYPE
23350.07	4281.437	1						
23350.48	4281.362	C	II					
23350.74	4281.315	1						
23351.22	4281.226	C	II					
23352.31	4281.027	C						
23352.86	4280.926	C	II					
23353.50	4280.808	0	II					
23354.07	4280.704	C	II					
23354.39	4280.645	C		8.0	7.0			14625-37980
23355.65	4280.416	0	II	6.5	6.5			28111- 4755
23356.07	4280.338	0	II					
23356.61	4280.238	C	I	7.0	8.0			15194-38551
23357.20	4280.131	0	II					
23358.37	4279.915	3	I					
23358.91	4279.818	10	I					
23359.39	4279.730	300	I			0.244	1.104	1
23360.09	4279.601	1	II					
23360.47	4279.532	1						
23361.05	4279.425	3	I					
23361.92	4279.266	3 W						
23362.60	4279.142	3	I					
23362.74	4279.116	3	II					
23364.43	4278.805	1	II					
23365.30	4278.647	100	I	3.0	4.0	0.995	1.331	2
23366.27	4278.469	30	II					A
23366.85	4278.364	1	II					
23368.04	4278.144	0	II					
23368.41	4278.078	1						
23369.17	4277.938	3	II	6.5	6.5			30854- 7485
23369.34	4277.907	3						
23369.76	4277.829	3	I					
23370.39	4277.715	100	I	8.0	8.0	1.28	1.28	4 12007-35377
23371.12	4277.581	1	II					
23371.60	4277.493	0	II					
23372.04	4277.414	0						
23373.08	4277.223	C	II					
23376.00	4276.688	1000 R	I	6.0	6.0	1.227	1.073	3 30426- 7050
23377.20	4276.469	3	II					
23377.43	4276.427	0						
23378.23	4276.279	0						
23378.63	4276.207	1	II					
23379.02	4276.136	C						
23379.57	4276.036	3	I					
23380.21	4275.918	100	I			0.165		2
23380.64	4275.840	3	II					

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
23381.40	4275.701	C	II						
23383.02	4275.405	300	I			0.326	0.787	1	
23383.64	4275.291	3C	I						
23383.90	4275.244	3C	II						
23385.49	4274.954	100C	I	6.0	6.0	1.35	1.38	3	10088-33474
23386.61	4274.748	3							
23386.93	4274.689	1C	I	6.0	7.0				10088-33475
23387.32	4274.618	30C	I			0.429		3	
23388.36	4274.428	10	II						
23389.95	4274.137	3	II						
23390.21	4274.090	1	II						
23390.46	4274.045	1	II	6.5	5.5				30854- 7463
23390.46	4274.045	1	II	5.5	4.5				37517-14126
23390.59	4274.021	3							
23390.88	4273.967	10C	II					3	
23391.71	4273.816	30	II						
23392.65	4273.645	3C	I						
23393.51	4273.488	C							
23394.22	4273.357	1	II						
23394.95	4273.224	30	II						
23395.45	4273.133	100C	II			0.541	0.707	1	
23396.31	4272.976	100C	I	6.0	5.0	1.230	0.914	2	32607- 9211
23398.90	4272.503	3							
23399.78	4272.343	10	II						
23400.32	4272.244	3							
23400.96	4272.126	30	II	4.5	4.5				37527-14126
23401.90	4271.954	10 W							
23402.60	4271.828	3	II						
23403.30	4271.699	30	II						
23403.68	4271.630	0							
23404.60	4271.461	30	I	9.0	8.0				15972-39376
23405.70	4271.262	3							
23406.09	4271.190	3	II	8.0	8.0				15567-38973
23407.73	4270.891	100C	II	5.5	5.5			3	33278- 9870
23408.20	4270.804	30C	I			CG =	0.153	1	
23409.59	4270.551	30	II						
23409.82	4270.510	3C	II						
23410.62	4270.364	0	II						
23411.20	4270.259	3							
23411.81	4270.147	1							
23412.40	4270.038	1							
23412.48	4270.024	3							
23413.86	4269.773	10C	II						
23414.74	4269.612	10	II						
23415.11	4269.545	100C R	I	9.0	8.0	1.32	1.31	2	999C-33406

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	CCC-EVEN	
23416.09	4269.367	1	II							
23416.33	4269.323	1	II							
23417.27	4269.152	1	II							
23417.98	4269.022	10	II							
23418.29	4268.966	30	II							
23419.19	4268.801	0	II							
23420.00	4268.653	0	II							
23420.48	4268.566	10								
23421.48	4268.383	100	II							
23422.13	4268.264	1000 R	I	7.0	7.0	1.24	1.18	3	27556-	4134
23422.55	4268.190	1	II							
23422.90	4268.124	1								
23423.29	4268.054	3								
23423.65	4267.989	3	II							
23424.30	4267.870	1000	I			0.189	1.150	1		
23425.72	4267.611	100	I							
23426.05	4267.551	3	II							
23427.60	4267.268	30	II							
23427.70	4267.250	30	I							
23429.50	4266.922	1								
23431.70	4266.521	100	II							
23432.25	4266.422	10	II							
23432.48	4266.379	30	I							
23434.53	4266.007	1000	I	4.0	4.0	1.14	0.61	3	34359-	10925
23435.28	4265.870	10								
23435.72	4265.789	1000	II	5.5	5.5	1.29	*0.998	3	33306-	9870
23436.59	4265.632	3	II							
23437.04	4265.550	100	I							
23437.77	4265.418	1								
23438.16	4265.346	100	I							
23440.97	4264.834	100	I						A	
23441.42	4264.752	1	II							
23441.64	4264.712	0	II							
23442.36	4264.582	30	II							
23443.55	4264.365	1								
23444.13	4264.260	0	II							
23445.19	4264.068	1	II							
23446.08	4263.904	300	I							
23447.65	4263.620	30	I							
23447.99	4263.558	30	II							
23448.23	4263.514	100	II	6.5	5.5				33319-	9870
23449.07	4263.361	30	I							
23450.36	4263.127	3	II							
23450.81	4263.045	0	II							
23451.39	4262.939	100	II	6.5	7.5			2	27792-	4341

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	GCC-EVEN	
23452.12	4262.807	30	I							
23452.49	4262.739	10	II							
23453.15	4262.619	3	II							
23453.96	4262.473	1C	II							
23454.91	4262.300	0 W								
23455.69	4262.158	C	II							
23456.39	4262.030	1C	II							
23456.69	4261.976	30	II							
23457.15	4261.893	U								
23457.42	4261.845	C	II							
23458.66	4261.619	100	I						3	
23458.90	4261.575	300	II							
23459.44	4261.476	10	II							
23460.05	4261.367	1C	I							
23460.94	4261.204	1000	II						1	
23461.55	4261.093	3C	I							
23461.98	4261.016	1C	II							
23462.82	4260.863	1C	II							
23462.97	4260.836	10	II							
23463.64	4260.715	1000 B		3.5	3.5				3	34417-10953
23463.64	4260.715	1000 D		6.0	7.0				A	10088-33552
23464.31	4260.592	3	II	7.0	7.0					12655-36119
23465.01	4260.465	30	I						A	
23465.43	4260.388	300	II						3	
23466.08	4260.270	100	I						1	
23466.81	4260.138	1	II							
23467.15	4260.078	1	II	4.5	5.5					36805-13338
23467.40	4260.031	1	II	5.5	4.5					35268-11801
23468.50	4259.831	1000	I	8.0	9.0	1.31	1.24	1		15567-39035
23468.85	4259.768	30	I							
23469.23	4259.699	C								
23469.74	4259.606	3C	II							
23469.95	4259.569	1	II							
23470.36	4259.494	1C	I							
23471.40	4259.306	1								
23471.75	4259.242	30	II	5.5	4.5					32903- 9432
23472.50	4259.106	30	I							
23473.90	4258.851	3								
23475.41	4258.577	3000 R	I	5.0	4.0	1.123	0.620	2		34400-10925
23475.76	4258.514	1000	I							
23476.06	4258.460	3	II							
23476.53	4258.375	0	II							
23477.77	4258.149	3000 R	I	7.0	6.0	1.22	1.08	2		30528- 7050
23478.40	4258.035	1	II							
23479.78	4257.785	300	I	7.0	8.0			2		23479- 0

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
23480.26	4257.698	300	II						2	
23480.81	4257.598	0	II							
23481.01	4257.562	30	I							
23481.27	4257.515	0								
23481.95	4257.391	0		8.0	7.0					18021-41503
23482.23	4257.341	0	II							
23482.73	4257.249	3	II							
23484.21	4256.982	0	II							
23484.38	4256.951	3	II							
23485.61	4256.728	3	II							
23486.81	4256.511	10	I							
23487.41	4256.402	100	II							
23487.81	4256.330	3000	II	8.5	7.5	1.23	1.21	2	24316-	828
23488.50	4256.205	1000	II	6.5	6.5	1.138	1.138	4	30973-	7485
23489.88	4255.955	300	II			0.35	1.26	3		
23490.87	4255.774	0	II							
23491.46	4255.668	0	II							
23491.89	4255.589	100	I						3	
23493.39	4255.319	1								
23493.60	4255.280	30	I							
23493.73	4255.257	10	II	4.5	4.5					35294-11801
23494.22	4255.169	10								
23494.45	4255.126	100	II							
23495.03	4255.021	1	II							
23495.57	4254.923	100	I						3	
23496.26	4254.798	30	II							
23496.56	4254.744	0	II							
23497.42	4254.589	300	II						3	
23498.10	4254.465	0	II							
23498.95	4254.312	100	II						A	
23499.51	4254.210	1								
23500.04	4254.114	3								
23500.70	4253.995	0	II							
23501.72	4253.810	0	II							
23502.84	4253.608	100	I						A	
23504.77	4253.258	0	II							
23505.62	4253.105	0								
23506.00	4253.035	10	II							
23506.44	4252.957	0	II							
23507.35	4252.791	300	II			0.100	1.332	3		
23508.28	4252.624	3								
23508.83	4252.524	1								
23509.12	4252.472	0								
23509.70	4252.366	1000	II	6.5	5.5			2	30973-	7463
23511.05	4252.122	300		5.5	4.5			1	37637-	14126

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS OCC-EVEN
						G-C	G-E	TYPE	
23511.65	4252.013	10	II						
23512.13	4251.927	100	I						
23512.83	4251.800	30	I						
23513.20	4251.733	1000	I					1	
23514.77	4251.449	30	II						
23515.49	4251.319	1000	I	7.0	6.0	1.39	1.08	2	30566- 7050
23515.75	4251.272	100	I						
23516.34	4251.166	100	II						
23517.29	4250.993	10	I	7.0	7.0				8519-32036
23518.05	4250.857	10	II						
23518.41	4250.791	10	II						
23518.55	4250.766	10	I						
23520.25	4250.459	300	I			1.23	1.23	4	
23520.44	4250.425	100	II						
23520.92	4250.337	300	I						3
23520.98	4250.327	30	II						4
23521.83	4250.174	100	I						
23523.23	4249.921	0	II						
23523.67	4249.840	300	I	3.0	3.0	0.168	0.168	3	
23524.00	4249.782	0	I						
23524.36	4249.716	1							
23524.89	4249.620	10	I						
23525.80	4249.455	1	II						
23526.29	4249.367	10							
23526.59	4249.314	10							
23526.79	4249.277	10	II						
23526.98	4249.243	3	II						
23527.30	4249.185	0	II						
23528.70	4248.932	30	I	8.0	8.0				15567-39096
23528.92	4248.893	100	I			0.31	0.31	2	
23529.24	4248.834	10	II						
23529.65	4248.761	1							
23530.60	4248.589	30	II						
23531.37	4248.451	1000	II			1.315	1.315	4	
23531.86	4248.362	30	II						
23532.31	4248.280	100	II			1.32	1.32	4	
23533.96	4247.983	30	II						
23534.04	4247.968	1	II						
23534.34	4247.914	3	II						
23535.09	4247.778	30							
23535.60	4247.686	0							
23535.96	4247.621	1	II						
23537.09	4247.417	30							
23537.49	4247.345	3000	II			0.38	1.77	2	
23538.15	4247.226	10	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	GCC-EVEN
23538.48	4247.166	3	II						
23538.86	4247.098	0							
23539.80	4246.929	0							
23540.95	4246.722	30	I						
23542.44	4246.452	10	I						
23543.13	4246.328	0	II						
23544.52	4246.077	100	II	7.5	7.5				27885- 4341
23545.44	4245.912	3000	R I	5.C	4.0	0.915	0.616	2	34470-10925
23546.07	4245.797	3	II						
23546.38	4245.742	1	II	6.5	5.5				36884-13338
23546.86	4245.655	3	II						
23547.36	4245.565	3							
23547.84	4245.479	3	II						
23548.34	4245.389	10	II						
23548.90	4245.287	100	I	2.C	2.0	DG =	0.62	3	
23549.32	4245.212	1	II						
23549.68	4245.147	3	II						
23550.64	4244.975	10							
23550.93	4244.922	3							
23551.65	4244.792	1000	II			0.473		3	
23552.04	4244.721	1	I						
23552.12	4244.708	3	II						
23552.79	4244.587	1							
23553.77	4244.410	30	II						
23555.34	4244.128	10	I						
23555.88	4244.029	30	II						
23557.83	4243.678	30	I						
23558.33	4243.588	30	I						
23559.18	4243.435	1000	R I	8.C	7.0	1.37	1.34	2	7565-31124
23559.61	4243.357	30	II						
23560.80	4243.143	0	II						
23561.65	4242.990	300	I	4.C	4.0	1.213	0.617	3	34486-10925
23562.26	4242.880	10	II						
23563.17	4242.716	300	I					2	
23564.22	4242.528	3	II						
23565.51	4242.296	1							
23566.11	4242.187	3							
23566.43	4242.129	3	II						
23566.61	4242.098	3							
23567.04	4242.020	1	II						
23567.33	4241.968	10	II						
23567.55	4241.928	10	II	6.5	5.5				33438- 9870
23568.16	4241.818	300	I			0.466	1.326	3	
23568.45	4241.765	30							
23569.14	4241.642	30	II	5.5	4.5				33001- 9432

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	OCC	EVEN
23569.87	4241.511	3	II							
23570.43	4241.410	30	II							
23570.99	4241.310	C	I							
23571.34	4241.245	30	II							
23571.63	4241.193	1								
23571.94	4241.138	1	II							
23572.49	4241.039	1 W	II							
23573.54	4240.850	3 W								
23574.46	4240.685	100	I						A	
23575.17	4240.557	30	I						1	
23575.49	4240.499	0	II							
23576.40	4240.336	10	II							
23577.22	4240.188	3								
23577.61	4240.118	100	II							
23579.07	4239.852	3000 W	I	6.0	5.0	1.178	0.916	2	32790-	9211
23579.73	4239.737	10	II							
23580.31	4239.632	30	I							
23580.56	4239.587	C	II							
23580.85	4239.535	C								
23581.33	4239.448	0								
23582.54	4239.232	3	II							
23583.99	4238.970	3	II							
23584.21	4238.931	10	II							
23585.06	4238.779	3	II							
23586.07	4238.598	1								
23586.24	4238.566	10								
23586.86	4238.455	300	II	3.5	4.5	0.78	0.75	1	35387-	11801
23587.57	4238.328	30	II							
23589.01	4238.070	100	II						3	
23589.70	4237.945	300	I						2	
23590.76	4237.755	10	II							
23591.17	4237.681	30	I							
23591.57	4237.609	30	I	9.0	8.0					13495-37087
23592.05	4237.523	300	II						3	
23592.39	4237.461	1	II							
23592.81	4237.385	100	I							
23593.78	4237.213	10	II							
23594.44	4237.093	30	I	10.0	9.0					12892-36487
23594.76	4237.037	3								
23595.24	4236.949	10	II							
23595.71	4236.866	C	II	5.5	5.5					33466- 9870
23596.96	4236.641	3								
23597.31	4236.579	300	I	10.0	10.0	1.30	1.25	3	12892-	36490
23599.06	4236.264	300	I			0.582	1.289	3		
23599.27	4236.226	30	II							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
23599.74	4236.142	0							
23600.17	4236.064	0							
23600.69	4235.972	100	I			0.075	1.201	1	
23601.43	4235.838	0	II						
23603.25	4235.512	30	II						
23604.41	4235.304	3	II						
23604.71	4235.250	30	I						
23605.57	4235.096	30	II						
23606.31	4234.963	10	I						
23606.74	4234.886	10	II						
23607.05	4234.831	300	I			0.134	1.349	2	
23608.06	4234.650	1	II						
23608.83	4234.511	0	II						
23609.85	4234.327	10	II						
23610.94	4234.132	1000	I			0.450	1.826	2	
23611.64	4234.007	300	I			CG =	0.231	1	
23612.21	4233.904	30	I	7.0	7.0				14367-37980
23613.12	4233.742	100	II						
23613.63	4233.650	3	I						
23614.29	4233.531	0							
23614.85	4233.431	100	II						A
23617.12	4233.024	100	II						
23617.57	4232.943	100	II						1
23617.90	4232.885	30	I						1
23618.37	4232.800	0	II						
23618.97	4232.692	0	II						
23619.66	4232.569	30	I						
23620.42	4232.433	3							
23620.94	4232.340	0	II						
23621.19	4232.295	3	II						
23622.24	4232.108	10							
23622.70	4232.024	3000 R	I	6.0	5.0	1.195	0.909	2	32834- 9211
23623.21	4231.933	100	I						
23623.74	4231.838	0	II						
23624.92	4231.627	10	II						
23625.65	4231.496	10 W	I						
23626.06	4231.423	10	I	9.0	9.0				13495-37121
23626.79	4231.292	1	II						
23627.97	4231.081	30	II						
23628.28	4231.026	3	I						
23629.36	4230.832	100	II			0.302	1.262	3	
23629.78	4230.756	0							
23631.37	4230.471	0							
23631.91	4230.375	1							
23632.42	4230.283	100	II	5.5	5.5			3	36970-13338

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
23632.55	4230.260	C							
23632.91	4230.196	1	II						
23633.32	4230.123	1							
23634.37	4229.934	1	II						
23634.98	4229.825	3C							
23635.16	4229.793	30	II						
23635.93	4229.656	30	II					2	
23636.09	4229.627	10	I						
23636.34	4229.583	30	II					3	
23636.65	4229.528	1							
23637.43	4229.386	C							
23638.66	4229.168	1		8.0	7.0				14625-38264
23639.13	4229.083	C	II						
23639.80	4228.962	10	I						
23640.05	4228.918	30	I						
23640.96	4228.755	1	II						
23641.49	4228.661	3	II	3.5	4.5				33073- 9432
23642.53	4228.475	1	I						
23642.75	4228.435	30	II					1	
23643.22	4228.351	10	I						
23645.47	4227.949	1	II						
23646.22	4227.814	1							
23646.67	4227.735	0							
23646.93	4227.688	30	II						
23648.27	4227.449	3	II						
23648.71	4227.370	3	I						
23649.19	4227.284	30	I					A	
23650.14	4227.115	1 W	II						
23650.87	4226.983	300	I	2.0	3.0	1.086	1.249	2	
23651.35	4226.897	100	I						
23651.93	4226.794	1							
23652.59	4226.676	C	II						
23652.96	4226.611	300	I	7.0	8.0			1	12655-36308
23653.67	4226.483	3	I						
23654.29	4226.373	3	II						
23655.83	4226.098	30	I			1.23	1.23	4	
23656.08	4226.053	10	II	7.0	8.0				15439-39096
23657.27	4225.841	3							
23657.78	4225.749	10	I						
23658.96	4225.539	3							
23659.73	4225.402	300	I	8.0	9.0	1.25	1.25	4	14625-38285
23660.01	4225.351	100	I						
23661.11	4225.155	10000 R	I	7.0	6.0	1.09	1.08	2	30711- 7050
23662.81	4224.850	1	II						
23662.89	4224.837	30	I	8.0	7.0				16733-40396

TABLE

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
23663.20	4224.780	100	I						
23663.81	4224.672	300	I			0.208	1.090	1	
23664.37	4224.571	1	II						
23665.26	4224.414	10	II	4.5	4.5				33097- 9432
23665.87	4224.305	30	II						
23666.73	4224.151	10	I						
23667.11	4224.083	3	I						
23667.60	4223.996	0	II						
23668.80	4223.781	3	II	5.5	4.5				37795-14126
23669.08	4223.731	0							
23670.94	4223.399	30	I						
23671.60	4223.282	1							
23671.90	4223.228	30	I						
23672.11	4223.191	3	II						
23673.40	4222.962	3	II						
23673.74	4222.899	10							
23674.54	4222.757	30	I						
23675.21	4222.637	100	I	7.0	8.0				15194-38870
23676.86	4222.344	10	II						
23677.61	4222.210	3000 R	I	5.0	5.0	1.138	0.911	3	32889- 9211
23678.49	4222.052	300	II						
23678.61	4222.031	100	II	6.5	7.5				28019- 4341
23679.04	4221.955	3	II						
23680.76	4221.649	300	I					A	
23682.12	4221.406	30	I						
23682.40	4221.356	10	II						
23683.26	4221.204	30	I						
23683.79	4221.108	10000 R	I	8.0	7.0	1.21	1.17	2	27817- 4134
23685.65	4220.777	0	II						
23686.42	4220.639	1	I						
23686.82	4220.568	1	I						
23687.32	4220.480	1	I						
23687.91	4220.375	10	I						
23688.68	4220.237	30	I						
23689.17	4220.150	100	I						
23689.43	4220.104	100	I						
23690.35	4219.940	10	II						
23690.59	4219.897	300	I					1	
23690.86	4219.848	10							
23692.25	4219.601	10	I						
23692.76	4219.510	10	I						
23694.27	4219.241	3	I						
23694.58	4219.115	300	I	2.0	3.0	1.850	1.207	1	
23696.02	4218.930	3	II						
23696.83	4218.785	0	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA		TYPE	LEVELS	
						G-C	G-E		GDC-EVEN	ODD-OVEN
23697.00	4218.756	0	II							
23697.55	4218.657	3								
23698.02	4218.574	1000	II	6.5	6.5	1.16	1.14	3	31183-	7485
23700.73	4218.091	10000 R	I	7.0	7.0	1.22	1.18	3	27834-	4134
23702.20	4217.829	100	I							
23702.81	4217.720	3	I							
23705.19	4217.297	100	I							
23705.91	4217.169	1	II							
23706.46	4217.072	30	II							
23706.94	4216.985	1000	I	5.0	5.0	0.908	1.058	3		
23707.20	4216.941	30								
23707.41	4216.903	100	II			0.16	1.30	3		
23708.12	4216.777	300	I			0.155	1.303	3		
23708.60	4216.691	300	I			0.250	1.298	3		
23708.86	4216.645	3	II							
23709.35	4216.558	3	I							
23710.06	4216.432	100	I							
23710.34	4216.382	10	I							
23710.79	4216.301	0								
23712.23	4216.046	1								
23713.20	4215.072	30	II							
23714.00	4215.731	3	I							
23714.93	4215.565	3	II							
23717.22	4215.159	10000 R	I	9.0	8.0	1.30	1.24	2	23717-	0
23717.22	4215.159			8.0	7.0				27851-	4134
23717.97	4215.025	1000	I	5.0	4.0				34643-	10925
23718.73	4214.890	1000	II							
23719.22	4214.802	100	II	6.5	5.5				31183-	7463
23719.91	4214.680	1								
23720.14	4214.639	100	I	9.0	9.0				15972-	39692
23721.43	4214.410	1000 R	I	8.0	9.0	1.36	1.35	1	7565-	31287
23721.78	4214.349	10	II							
23722.67	4214.190	100	II							
23723.70	4214.007	300	I							
23724.07	4213.941	3	I							
23724.45	4213.873	1								
23724.91	4213.791	30	II							
23725.84	4213.627	300	II					A		
23726.61	4213.490	0	II							
23728.36	4213.179	10000 R	I	6.0	6.0	1.17	1.07	3	30778-	7050
23729.51	4212.976	1	II							
23730.30	4212.835	1								
23730.67	4212.769	10								
23731.09	4212.695	10	I							
23731.54	4212.614	1	II	6.5	5.5				33602-	9870

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
23732.15	4212.506	30	I							
23736.61	4211.715	1000	R I	7.0	8.0				1	23736- 0
23736.61	4211.715	100	B I	4.0	5.0	0.615	1.54		2	
23738.02	4211.465	10	II	5.5	5.5					37076-13338
23739.29	4211.239	1000	R I	7.0	7.0	1.26	1.17		3	27837- 4134
23742.49	4210.671	30	II							
23743.72	4210.454	1								
23744.36	4210.341	3								
23745.01	4210.225	100	I						2	
23745.86	4210.075	10	II	6.5	5.5					33616- 9870
23747.57	4209.771	3								
23748.22	4209.656	1	II							
23749.84	4209.368	10								
23750.04	4209.334	30	I						3	
23750.52	4209.249	1								
23751.17	4209.133	100	II							A
23751.84	4209.014	0								
23752.13	4208.963	30	II							
23753.29	4208.758	30	II							
23754.09	4208.616	30	I							
23754.67	4208.513	10	II							
23755.45	4208.375	100	I	8.0	9.0	1.28	1.32		2	12007-35762
23755.80	4208.313	0	II							
23756.83	4208.130	30	II							
23757.56	4208.000	0	II							
23758.29	4207.872	100	II	4.5	3.5					34712-10953
23759.28	4207.696	1000	R I	6.0	5.0	1.177	0.910		2	32970- 9211
23760.90	4207.410	3								
23761.95	4207.223	100	II			CG =	0.138		2	
23762.33	4207.157	1								
23763.46	4206.956	3	I							
23763.83	4206.890	3	II							
23764.62	4206.750	0	II							
23765.80	4206.542	10000	R II	8.5	8.5	1.27	1.29		3	23765- 0
23766.94	4206.340	10	I							
23768.77	4206.016	10	II							
23769.08	4205.960	10	II							
23769.59	4205.870	30	I							
23770.22	4205.760	10	II	6.5	7.5					28111- 4341
23770.62	4205.690	1000	II			0.387	1.703		2	
23771.61	4205.513	1000	I	5.0	5.0	CG =	0.175		3	
23772.74	4205.314	300	I							
23773.19	4205.235	100	I							
23774.16	4205.062	3000	R I			0.525	0.752		1	
23775.04	4204.907	30	II							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
23776.27	4204.689	100	II						
23776.54	4204.642	30	II						
23777.74	4204.429	30	I					2	
23778.29	4204.332	30	I						
23778.61	4204.275	30	I	7.0	8.0				15194-38973
23779.29	4204.156	0							
23779.72	4204.080	0							
23780.16	4204.001	1000	I	5.0	5.0	0.146		3	
23781.16	4203.826	1							
23781.82	4203.709	10	II						
23782.14	4203.651	300	II					A	
23782.97	4203.504	1	II						
23783.12	4203.479	10	I						
23783.65	4203.385	3							
23784.00	4203.324	100	I	4.0	4.0	0.229		3	
23785.99	4202.970	3	II						
23787.13	4202.770	300	I			0.223	0.697	3	
23788.39	4202.547	3	II						
23788.96	4202.447	30	I						
23790.12	4202.241	1000 R	I	6.0	6.0	1.268	1.074	3	30840- 7050
23791.01	4202.085	1	I						
23792.99	4201.734	300	II						
23793.57	4201.632	300	I					3	
23794.78	4201.419	100	II						
23795.04	4201.372	300	II	6.5	6.5	1.21	*1.130	3	28550- 4755
23795.43	4201.304	3000 R	I	4.0	4.0	0.761	0.619	3	34720-10925
23796.08	4201.188	10	II						
23797.00	4201.027	1000	I			0.546	1.94	2	
23797.36	4200.962	1							
23797.69	4200.905	1	I						
23798.28	4200.802	3	I						
23798.50	4200.762	30	I						
23799.15	4200.648	0	II						
23799.74	4200.542	10	I						
23800.56	4200.399	1	II						
23800.83	4200.351	3	II						
23801.29	4200.270	3	II						
23801.66	4200.205	10	I						
23801.99	4200.145	0							
23802.28	4200.095	30							
23803.26	4199.923	3	II						
23803.63	4199.856	0							
23804.51	4199.701	10	I						
23804.59	4199.687	0	II						
23804.87	4199.638	100	I	2.0	2.0	1.049		3	

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	CCC-EVEN	
23805.98	4199.442	100	I			0.085	1.122	1		
23806.88	4199.283	100	II	5.5	5.5				33677-	9870
23807.37	4199.196	0								
23807.84	4199.114	0								
23808.61	4198.978	0	II							
23809.64	4198.796	100	I						A	
23811.99	4198.383	3	I							
23812.48	4198.296	10	II							
23812.92	4198.218	3	I							
23814.05	4198.019	3000 R	I	5.0	5.0	1.01	0.91	3	33025-	9211
23815.25	4197.807	300	I						2	
23815.69	4197.729	30	I							
23815.94	4197.685	3	I	7.0	7.0					17687-41503
23817.80	4197.359	300	I			0.153	1.535	2		
23818.83	4197.176	30	I							
23819.32	4197.090	10	II							
23819.57	4197.046	100	I			0.16	1.437	2		
23819.87	4196.994	0								
23820.19	4196.937	3	II							
23820.49	4196.884	3	II							
23821.57	4196.693	300	I			1.34	1.34	4		
23822.22	4196.580	300	I			0.381	1.325	3		
23823.36	4196.379	300	I			0.231	1.183	3		
23824.80	4196.125	10	II	10.0	9.0					12892-36717
23825.67	4195.971	30	I							
23826.14	4195.889	1	II							
23826.81	4195.771	3		8.0	7.0					14625-38452
23827.41	4195.665	1	II							
23827.87	4195.584	1	II							
23828.27	4195.513	300	II						A	
23829.51	4195.296	300	I	2.0	3.0	0.471		1		
23829.74	4195.255	1000	II					1		
23830.13	4195.186	1000	II	4.5	5.5					33701- 9870
23830.65	4195.095	1000	I					3		
23832.07	4194.845	10000 R	I	8.0	8.0	1.312	1.240	3	23832-	0
23834.05	4194.497	3	II							
23834.50	4194.417	3	II							
23834.92	4194.343	30								
23835.85	4194.179	10	I							
23836.41	4194.081	10								
23836.85	4194.003	100	II							
23837.42	4193.903	30	I							
23837.79	4193.839	1000	I			0.399	1.150	3		
23838.53	4193.707	0	II							
23839.44	4193.548	10	II							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
23840.78	4193.313	30	I						
23841.66	4193.158	30	I						
23842.71	4192.973	100	I						
23844.06	4192.736	30	I	9.0	8.0				14512-38356
23844.76	4192.612	10	I						
23845.21	4192.532	3	II						
23845.54	4192.476	3							
23845.89	4192.414	30	II						
23846.66	4192.278	10	II	5.5	4.5				33278- 9432
23847.58	4192.116	10	II						
23848.13	4192.020	30	II						
23849.00	4191.867	100	II	5.5	5.5				37187-13338
23849.49	4191.780	100	II						
23849.93	4191.704	30							
23850.28	4191.642	3000 R	I	7.0	7.0	1.24	1.17	3	27984- 4134
23852.84	4191.192	300	I						
23853.66	4191.047	100	I						
23854.28	4190.939	3000 R	I	5.0	6.0	1.286	1.072	1	30904- 7050
23856.11	4190.617	30	I						
23857.08	4190.447	3	I	5.0	4.0				34782-10925
23857.21	4190.423	10	II	5.5	6.5				39549-15691
23857.45	4190.383	100	I						
23858.22	4190.247	300	I			0.6	0.560	1	
23858.66	4190.169	10	II						
23859.52	4190.018	30	I						
23859.89	4189.953	3	I						
23860.08	4189.920	1	II						
23860.39	4189.865	10	II						
23861.10	4189.740	0	II						
23861.60	4189.653	30	I						
23862.66	4189.467	1							
23863.06	4189.397	300	I	7.0	7.0	1.34	1.36	3	8519-32382
23863.89	4189.252	10	I						
23864.65	4189.118	0	II						
23864.98	4189.060	30	II						
23866.06	4188.869	1	II						
23866.97	4188.710	3	I						
23869.23	4188.314	100	I	2.0	3.0	1.838	1.355	1	
23869.46	4188.273	100	I						
23870.71	4188.054	3	I						
23871.60	4187.898	10	II						
23873.13	4187.630	10	I						
23873.39	4187.584	100	I						
23874.64	4187.364	300	II	5.5	4.5	1.29	*0.825	2	33306- 9432
23875.91	4187.143	300	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	OCC-EVEN	
23876.88	4186.972	30	II							
23877.75	4186.818	10000	R I	8.0	8.0	1.29	1.24	3	23877-	0
23880.16	4186.397	1000	II			DG =	0.140	1		
23882.06	4186.064	1	I	7.0	7.0				8519-32411	
23882.41	4186.003	30	I							
23883.33	4185.840	100	I							
23883.67	4185.782	0	II							
23884.22	4185.685	0								
23884.81	4185.581	3	II	5.5	4.5				35685-11801	
23885.36	4185.485	10	I							
23885.85	4185.399	10	I							
23887.25	4185.155	0	II							
23887.65	4185.083	10								
23888.31	4184.968	10	I							
23889.66	4184.732	100	I							
23890.74	4184.543	30	I							
23891.20	4184.462	100	I	5.0	5.0				33102-	9211
23892.87	4184.169	1	II							
23894.56	4183.874	0	II							
23895.42	4183.723	10000	R I	8.0	7.0	1.09	1.17	1	28029-	4134
23896.13	4183.599	3000	R I	5.0	6.0	1.267	1.078	1	30946-	7050
23896.48	4183.538	100	I	7.0	7.0				14367-	38264
23896.89	4183.466	30	II							
23897.88	4183.293	1	II							
23898.12	4183.251	10	II							
23898.89	4183.117	10	I							
23900.20	4182.887	100								
23901.01	4182.744	0	II							
23901.24	4182.705	10	I	7.0	8.0				15194-	39096
23901.97	4182.576	3	I							
23902.59	4182.469	300	I			DG =	0.491	2		
23902.96	4182.404	300	II					3		
23903.44	4182.318	30	I							
23904.97	4182.051	300	I							
23905.35	4181.986	300	I							
23905.92	4181.886	1000	I			1.07	1.07	4		
23906.67	4181.754	30	I							
23907.60	4181.592	1000	I	2.0	2.0	1.838	1.261	1		
23908.53	4181.429	30	I							
23909.44	4181.269	3000	I	7.0	8.0	1.32	1.31	1	8519-	32428
23910.97	4181.003	100	II					4		
23911.26	4180.951	100	II	8.5	7.5			2	28252-	4341
23912.69	4180.701	0	II							
23914.14	4180.448	1	II							
23915.00	4180.299	30	I							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
23916.01	4180.122	10	I						
23917.38	4179.882	3	I						
23917.85	4179.799	1	I						
23919.33	4179.541	100	I						
23920.26	4179.379	1	II						
23920.81	4179.281	1	II						
23921.59	4179.146	3	II						
23921.92	4179.088	1							
23923.44	4178.877	3	I	9.C	9.0				15972-39895
23923.70	4178.777	3	II						
23924.41	4178.655	3	II	5.5	6.5				31409- 7485
23924.83	4178.580	300	B II					3	
23924.83	4178.580		B II					1	
23925.85	4178.402	30	II	8.C	8.0				14625-38551
23926.39	4178.307	100	I						
23927.31	4178.147	100	II						
23927.66	4178.086	3000	I	5.C	5.0	0.89	0.91	3	33139- 9211
23929.49	4177.766	1000	I	10.C	9.0			2	12892-36822
23929.83	4177.707	10	II						
23930.40	4177.607	1000	I	2.C	2.0	DG =	0.490	3	
23931.63	4177.393	300	I	8.0	8.0			3	12007-35938
23932.47	4177.247	0	I						
23932.73	4177.201	3	II						
23933.25	4177.110	1000	I	8.C	9.0			2	12007-35940
23933.54	4177.060	300	I						
23934.70	4176.856	300	II			1.29	1.29	4	
23935.12	4176.783	300	I						
23935.47	4176.722	1000	I			0.36	1.720	2	
23935.78	4176.670	3	II						
23936.17	4176.601	1000	I			1.32	1.32	4	
23937.18	4176.424	3	I						
23937.93	4176.293	1	I						
23938.73	4176.153	3	I						
23938.94	4176.117	0							
23939.42	4176.034	300	I	4.C	5.0	1.284	0.918	1	
23940.69	4175.813	0	II						
23941.61	4175.651	3	I						
23941.78	4175.622	30	II						
23943.00	4175.409	100	I	2.C	2.0	DG =	0.409	3	
23943.51	4175.321	10	I						
23943.74	4175.280	0	II						
23944.39	4175.167	10	I						
23944.78	4175.099	10	I						
23945.10	4175.042	100	I						
23945.34	4175.001	30	II						

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
23945.68	4174.941	0	II	5.5	5.5				31409- 7463	
23946.31	4174.833	100	I							
23946.62	4174.778	10	I	6.5	5.5				33817- 9870	
23946.99	4174.714	1	II							
23947.70	4174.590	1	II							
23948.39	4174.470	0								
23949.56	4174.266	30	I							
23949.82	4174.220	10	I							
23950.41	4174.118	100	I							
23950.74	4174.060	30	II							
23951.09	4173.999	3	II							
23951.60	4173.911	100	I							
23952.48	4173.756	0								
23952.80	4173.701	10	II							
23953.16	4173.638	30	I							
23953.41	4173.595	30	I							
23953.60	4173.561	30	I							
23954.04	4173.485	3	I							
23954.59	4173.388	1	II							
23955.81	4173.176	0	II							
23956.05	4173.134	0	II							
23956.91	4172.984	0		6.0	6.0				31007- 7050	
23957.20	4172.934	3	II							
23957.70	4172.847	100	I							
23957.97	4172.801	1	II							
23958.95	4172.629	1	II							
23959.26	4172.576	1	II							
23959.73	4172.493	0								
23960.25	4172.402	10	II							
23960.73	4172.320	10	I							
23961.44	4172.196	0	I							
23962.56	4172.002	3000	I			0.368	1.343	3		
23962.97	4171.930	3000	I			0.302	1.681	2		
23963.66	4171.809	100	II	3.5	4.5				35764-11801	
23964.87	4171.599	1	I							
23965.05	4171.568	1	II							
23965.53	4171.484	3	I							
23965.80	4171.436	1	I							
23966.32	4171.347	30	I							
23967.71	4171.104	1	I							
23968.13	4171.032	10	II							
23968.92	4170.893	1	I							
23969.95	4170.715	10	I							
23970.83	4170.562	1000	I			1.27	1.27	4		
23971.38	4170.465	300	I							

TABLE

CY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
23972.23	4170.317	300	I						3	
23972.88	4170.205	C								
23973.60	4170.079	C	I							
23974.02	4170.006	0	I							
23974.52	4169.919	3	I							
23975.00	4169.835	3	II							
23975.71	4169.712	C	II							
23976.93	4169.500	3	II							
23977.29	4169.438	30	II							
23977.80	4169.350	30	I							
23978.38	4169.247	1000	II			0.62			3	
23978.95	4169.150	30	I							
23979.56	4169.043	1000	I			CG =	0.120		1	
23981.73	4168.666	0	I							
23982.29	4168.568	0	II							
23982.78	4168.483	1								
23983.04	4168.437	10	I							
23983.20	4168.410	1	II							
23984.09	4168.256	3								
23985.71	4167.974	10000 R	I	9.0	8.0	1.22	1.24	1	23985-	0
23988.14	4167.552	1	II							
23989.41	4167.331	3	I							
23990.02	4167.225	300	II			0.548	0.636	1		
23990.88	4167.076	1	I	8.0	8.0				16880-40871	
23991.48	4166.971	0	II							
23993.17	4166.678	1	I							
23994.04	4166.528	10	I							
23994.17	4166.504	3	II							
23995.25	4166.316	0	II							
23995.73	4166.234	300	I	4.0	4.0	1.341	1.084	3		
23996.47	4166.105	0								
23997.00	4166.013	10	II							
23997.62	4165.906	30 W	II							
23997.89	4165.859	10	II							
23998.34	4165.780	100	I							
23999.07	4165.654	1	II							
23999.92	4165.506	10	II							
24000.22	4165.454	0	I							
24000.97	4165.325	10	II							
24001.39	4165.251	0	II							
24003.35	4164.911	10	I							
24003.82	4164.829	100	I			1.14	1.14	4		
24004.38	4164.733	100	I			CG =	0.152	1		
24005.10	4164.608	3	II							
24005.50	4164.537	100	II							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-O	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
24006.11	4164.432	100	I						
24006.64	4164.340	3	I						
24009.03	4163.926	0	II						
24009.74	4163.802	100	I						3
24010.03	4163.753	30	I						
24011.39	4163.516	3	I						
24011.56	4163.487	3	II						
24012.23	4163.371	0	II						
24012.68	4163.293	3	II						
24013.19	4163.204	0							
24013.80	4163.098	3	I						
24014.18	4163.032	10	I						
24016.41	4162.646	10	I						
24016.57	4162.618	3	I						
24017.04	4162.538	0	I						
24018.72	4162.246	1000	I	5.0	5.0	DG =	0.118		3
24019.34	4162.139	1	II						
24020.58	4161.923	10	I						
24021.40	4161.781	10	II						
24022.28	4161.628	100	I						1
24023.12	4161.482	I	II						
24024.49	4161.245	3	II						
24024.96	4161.165	0							
24025.19	4161.125	3	I						
24026.28	4160.936	0							
24027.24	4160.770	100	I						
24027.41	4160.740	100	I						
24028.14	4160.614	10	I						
24028.36	4160.575	30	I						
24028.86	4160.489	100	II	6.5	6.5				28784- 4755
24030.26	4160.247	300	I	4.0	5.0	1.334	1.21		1
24030.57	4160.194	100	II			1.23	1.23		4
24031.24	4160.078	10	I	9.0	8.0				13495-37527
24032.97	4159.778	30	I						
24033.12	4159.751	10	II						
24033.47	4159.691	10	I	9.0	10.0				15972-40005
24035.66	4159.313	3000 R	I	7.0	8.0	1.33	1.27		1 8519-32554
24036.41	4159.182	10	I						
24036.96	4159.088	10	I						
24037.62	4158.972	3	I						
24039.10	4158.717	1	II						
24039.51	4158.646	1	I						
24039.94	4158.572	10	I						
24040.07	4158.550	10	I						
24040.78	4158.427	100	II	4.5	4.5				35041 11001

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS CCC-EVEN
						G-C	G-E	TYPE	
24041.75	4158.259	C	I						
24042.11	4158.196	1							
24042.32	4158.159	1	I						
24042.93	4158.055	1000	I	8.C	7.C			2	28177- 4134
24043.57	4157.943	1							
24044.05	4157.862	100	II	5.5	6.5				31529- 7485
24044.63	4157.760	10	II						
24044.99	4157.698	30	II						
24045.50	4157.610	3	I						
24046.82	4157.382	30	I						
24047.07	4157.338	1	I						
24047.67	4157.234	0	II						
24047.93	4157.190	30	I						
24048.78	4157.042	100	I						
24049.31	4156.952	1000	I						P
24050.99	4156.661	10	I						
24052.35	4156.426	3	II						
24052.73	4156.361	300	I	5.C	6.0	0.950	1.254	2	
24053.01	4156.312	10	I						
24053.99	4156.142	1							
24054.37	4156.076	3	II						
24054.58	4156.040	100	I						
24056.16	4155.767	100	II						
24056.76	4155.664	30	II						
24057.26	4155.578	C	II						
24057.87	4155.472	3	I						
24058.84	4155.305	0	II						
24059.13	4155.255	3	I						
24059.92	4155.118	30	II						
24060.61	4154.998	1	I						
24060.78	4154.970	1	I						
24061.32	4154.877	100	I						
24063.42	4154.515	300	I	6.C	7.0	1.10	1.17	2	28197- 4134
24063.96	4154.421	C	II						
24064.32	4154.359	30	I						
24064.99	4154.242	1000	I	3.0	4.0	1.326	0.636	1	
24065.22	4154.203	1000	II	5.5	5.5	1.04	1.02	3	31529- 7463
24065.69	4154.122	1							
24066.50	4153.982	10	II						
24067.22	4153.858	30	I						
24067.55	4153.801	300	II						
24070.02	4153.375	1000	I			0.071	1.352	3	
24071.16	4153.178	30	I	6.C	6.0				11673-35744
24071.48	4153.122	1000	I	5.C	5.0	1.363	1.187	3	
24072.61	4152.928	30	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
24072.97	4152.865	30	I						
24073.26	4152.816	3	I						
24073.83	4152.717	1C	II						
24074.60	4152.584	100	II						
24075.23	4152.475	1000	II	5.5	4.5				33507- 9432
24075.53	4152.424	100C	II					3	
24075.97	4152.349	300C	I			0.102	1.135	1	
24077.54	4152.077	1C	I						
24077.69	4152.051	0	I						
24078.28	4151.949	3	II						
24078.89	4151.845	300	I	5.0	5.0	0.257		3	
24080.46	4151.574	1C	II						
24081.13	4151.459	1C	I						
24081.71	4151.359	300	I	7.0	6.0	1.289	1.080	2	31132- 7050
24082.26	4151.264	1	I						
24082.48	4151.139	1C	I						
24083.95	4150.972	1							
24084.69	4150.845	1	I	7.0	7.0				14367-38452
24085.21	4150.755	10	II						
24085.71	4150.670	1C	I						
24086.73	4150.493	1C	II						
24087.59	4150.345	3							
24087.71	4150.324	0	II						
24088.60	4150.171	3	I						
24089.20	4150.067	0							
24089.91	4149.945	3	I						
24090.41	4149.859	0	II						
24090.90	4149.776	100	I	6.0	6.0	0.160		3	
24092.13	4149.563	0	I						
24092.30	4149.534	1	I						
24092.59	4149.483	1C	II						
24093.93	4149.254	1							
24095.65	4148.957	100	I						
24098.45	4148.474	3							
24098.79	4148.416	30	I						
24099.50	4148.295	10	I						
24100.13	4148.185	0		8.0	8.0				16733-40833
24100.50	4148.122	0	II						
24101.40	4147.967	300	I	4.0	4.0	1.171	0.612	3	
24102.99	4147.693	1	I						
24103.04	4147.684	1	I						
24104.54	4147.427	0							
24105.66	4147.234	30	I						
24106.38	4147.111	30	II						
24106.98	4147.006	1C	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
24107.46	4146.923	100	II							
24107.76	4146.872	100	I							
24108.45	4146.753	100	I	8.0	7.0					7565-31674
24108.96	4146.666	0	II							
24109.57	4146.562	0								
24109.75	4146.530	10	II							
24110.18	4146.455	C								
24110.54	4146.394	1								
24110.94	4146.326	100	II							
24112.48	4146.060	10000 R	I	4.0	5.0	0.89	0.91	2	33324-	9211
24115.04	4145.621	1000	II	6.5	7.5	1.25	1.22	1	28456-	4341
24115.91	4145.472	100	I	5.0	5.0	EG =	0.300	3		
24117.90	4145.129	3 W	II							
24118.74	4144.984	1 W								
24119.27	4144.790	100	I							
24120.55	4144.674	1	II							
24120.90	4144.613	100	II							
24121.61	4144.491	30	I							
24122.10	4144.408	100	II							
24123.01	4144.251	0								
24123.47	4144.172	0								
24123.79	4144.116	10	I							
24124.78	4143.947	10	I							
24125.12	4143.889	3	I	8.0	9.0					15567-39692
24125.81	4143.769	1	I							
24126.15	4143.711	1	I							
24126.30	4143.687	100	II							
24126.81	4143.598	30	I							
24128.19	4143.362	10	II							
24128.41	4143.323	10	I	3.5	4.5					30255-14126
24128.72	4143.260	1	I							
24129.03	4143.217	3	II							
24129.72	4143.099	10000	II	7.5	6.5	1.261	1.143	2	28885-	4755
24130.76	4142.919	3	I							
24131.36	4142.817	1	I	5.0	5.0					33342- 9211
24132.75	4142.578	0								
24133.25	4142.492	100	I							
24133.84	4142.392	3	I							
24134.80	4142.226	1	I							
24134.98	4142.196	100	II							
24135.18	4142.162	1	II	5.5	5.5					31599- 7463
24136.53	4141.929	30	II							
24137.55	4141.755	100	I							
24138.15	4141.652	10	I							
24139.00	4141.505	3000	II			0.519	0.695	1		

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS CCC-EVEN
						G-C	G-E	TYPE	
24139.39	4141.439	3							
24139.70	4141.385	3000	I	7.C	7.0	1.175	0.989	3	
24140.56	4141.237	100	I						
24141.59	4141.062	1	II						
24142.33	4140.934	100	I						
24143.39	4140.752	3	II						
24145.94	4140.315	1	I						
24146.37	4140.241	1	II						
24146.92	4140.147	0	I						
24147.26	4140.089	100	I						
24147.52	4140.045	10	I						
24147.75	4140.005	3	II						
24148.66	4139.850	300	I						
24150.36	4139.558	3000 R	I	5.C	6.0	1.310	1.073	1	31200- 7050
24150.98	4139.450	300	II						
24152.26	4139.231	300	I	7.C	8.0			1	12655-36807
24152.64	4139.168	10	II						
24153.62	4138.998	30	I						
24154.61	4138.829	1	II						
24155.00	4138.763	30	I						
24155.30	4138.711	3	I						
24156.31	4138.539	3000 R	I	7.C	8.0	1.32	1.26	1	8519-32675
24156.73	4138.466	1000	I					3	
24157.05	4138.411	30	II						
24157.50	4138.334	1	I						
24157.53	4138.328	1	II						
24158.52	4138.159	1	II						
24159.51	4137.990	1							
24160.22	4137.869	30	I						
24161.11	4137.715	10	I						
24161.77	4137.602	100	I					1	
24163.25	4137.349	300	II					1	
24163.44	4137.316	30	I						
24165.87	4136.901	30							
24167.32	4136.652	3	I						
24167.89	4136.555	1							
24168.95	4136.373	0							
24169.00	4136.365	1	I						
24170.07	4136.181	100	I						
24171.18	4135.992	0	I						
24171.63	4135.915	1	I						
24172.19	4135.819	10	I						
24173.68	4135.565	1	I						
24174.69	4135.391	0	II						
24175.05	4135.329	3	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-G	G-E	TYPE	ODD-EVEN	
24175.52	4135.248	1	II							
24177.06	4134.986	1	I							
24178.68	4134.708	300	I	7.0	6.0	1.207	1.079	2	31229- 7050	
24179.11	4134.634	3	I	5.5	5.5				37517-13338	
24179.88	4134.503	1								
24180.16	4134.457	10	I							
24181.02	4134.309	0								
24181.97	4134.146	3000 R	I	3.0	4.0	1.033	0.619	1	35107-10925	
24182.60	4134.038	10	I							
24183.71	4133.849	3000 R	I	9.0	9.0	1.32	1.31	3	9990-34174	
24184.32	4133.744	1								
24185.46	4133.549	10	II							
24185.75	4133.501	10	I							
24186.61	4133.353	1000	II			0.303	1.718	2		
24187.66	4133.174	30	II							
24188.21	4133.080	100	I					2		
24188.51	4133.028	1	I							
24188.87	4132.967	3	II							
24189.64	4132.835	300	II	4.5	5.5	1.157	1.409	2	37527-13338	
24190.05	4132.765	1	I							
24190.47	4132.694	3	II							
24191.95	4132.440	10	I							
24192.54	4132.340	1	II							
24193.10	4132.244	0								
24193.39	4132.196	30	I					3		
24194.04	4132.084	10								
24194.52	4132.002	30	II							
24195.14	4131.896	10	I							
24195.36	4131.858	100	II							
24196.12	4131.729	0	II							
24197.21	4131.543	10	II	6.5	6.5				31682- 7485	
24197.51	4131.492	10	I							
24197.80	4131.441	30	I							
24199.00	4131.237	3	I							
24199.32	4131.182	100	I							
24200.26	4131.021	300	II	4.5	4.5	0.98	0.75	3	36001-11801	
24200.77	4130.935	1								
24201.75	4130.767	0	I							
24202.66	4130.613	0	I							
24203.66	4130.441	30	I	7.0	7.0				8519-32722	
24204.19	4130.351	1000 R	I	8.0	0.0	1.30	1.24	3	24204- 0	
24204.59	4130.283	30	II							
24205.04	4130.206	3	I							
24205.47	4130.132	3	I							
24206.42	4129.970	0	I							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	CCC-EVEN	
24206.88	4129.892	100	I							
24207.21	4129.835	30	II							
24207.72	4129.748	3	I							
24208.43	4129.627	1	I							
24208.82	4129.561	C	I							
24209.64	4129.422	3000	II	6.5	7.5	1.23	1.19	1	28550-	4341
24210.02	4129.357	300	I	8.0	9.0				7565-	31775
24210.27	4129.313	3	I							
24211.42	4129.117	3000 R	I	3.0	4.0	1.060	0.615	1	35136-	10925
24212.85	4128.874	10	I							
24213.66	4128.735	100	I							
24214.82	4128.537	100	I							
24215.12	4128.486	10	II							
24216.25	4128.295	3	II							
24216.57	4128.239	3000	II	5.5	6.5	1.09	1.14	2	31701-	7485
24216.96	4128.173	1								
24217.31	4128.114	1								
24217.95	4128.004	300	I							
24218.46	4127.916	10	I	6.5	5.5				31682-	7463
24218.84	4127.852	3	I							
24219.07	4127.814	1	II							
24219.52	4127.736	1	I							
24220.81	4127.517	C	II							
24222.78	4127.181	10	II							
24223.56	4127.049	C	I							
24224.10	4126.956	100	I							
24225.39	4126.737	C	I							
24225.94	4126.642	C	I							
24226.63	4126.525	3	I							
24227.59	4126.361	1	II							
24228.06	4126.282	C								
24229.21	4126.086	3000 R	I	10.0	9.0	1.30	1.27	2	12892-	37121
24229.60	4125.020	10	II							
24230.01	4125.950	30	II	6.5	6.5				31715-	7485
24230.46	4125.873	10	I							
24230.76	4125.821	100	I							
24231.70	4125.661	1	I							
24232.61	4125.507	100	I							
24232.86	4125.464	10	II							
24233.91	4125.286	C	II							
24234.63	4125.163	3	II							
24235.20	4125.065	100	II							
24236.00	4124.930	3	I							
24236.67	4124.815	30	II							
24237.26	4124.716	3	II							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
24237.78	4124.626	3000	II	5.5	5.5	1.07	1.01	3	31701-	7463
24238.14	4124.565	1	I							
24238.43	4124.516	0	I							
24240.07	4124.236	0	I							
24240.31	4124.196	0	I							
24241.56	4123.983	10	I							
24241.82	4123.939	1	I							
24244.36	4123.508	30	I	8.0	8.0				14625-	38870
24244.58	4123.471	1	II							
24245.66	4123.286	0	II							
24245.92	4123.243	0	I							
24246.56	4123.134	10	II							
24246.86	4123.082	1	I							
24247.21	4123.023	0	II							
24247.58	4122.960	3	I							
24247.65	4122.948	0	II							
24248.40	4122.820	1	II							
24249.63	4122.612	1	I							
24250.06	4122.537	0	I							
24250.54	4122.456	0	I							
24250.72	4122.426	3	I							
24251.24	4122.338	100	II	6.5	5.5			2	31715-	7463
24252.09	4122.193	3	II							
24254.41	4121.799	0	II							
24254.67	4121.755	3	I	5.0	5.0				33466-	9211
24254.67	4121.755	3	I	8.0	8.0				7565-	31820
24255.11	4121.679	3	I							
24255.43	4121.625	30	II							
24255.97	4121.534	1	II	5.5	4.5				36057-	11801
24256.44	4121.454	10	II	8.5	7.5				28597-	4341
24257.94	4121.198	0	II							
24258.66	4121.077	0	I							
24259.42	4120.948	0	II							
24259.74	4120.894	1	I							
24261.16	4120.652	100	I			0.22	1.593	2		
24261.51	4120.593	0	II							
24262.03	4120.505	10	I							
24262.40	4120.441	10	II							
24262.99	4120.342	0	II							
24263.52	4120.251	10	I							
24264.39	4120.103	10	II							
24265.56	4119.905	10	I							
24266.67	4119.716	100	I							
24267.64	4119.552	30	I							
24269.06	4119.310	3000	II	4.5	4.5	1.076	0.825	3	33701-	9432

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
24269.37	4119.258	3C	I						
24270.65	4119.040	3	II						
24271.43	4118.908	10C	I						
24272.36	4118.750	C	II						
24272.48	4118.729	1	I						
24273.54	4118.550	10	I						
24273.88	4118.493	1	II						
24274.78	4118.340	3	II						
24275.83	4118.161	0	II						
24276.37	4118.071	3C	I						
24276.87	4117.985	3CC	I						
24277.23	4117.924	C	I						
24278.32	4117.739	10C	I						
24278.75	4117.666	C	II						
24278.97	4117.629	1	II						
24279.50	4117.539	3	II						
24280.13	4117.432	0							
24280.52	4117.367	1	II						
24281.32	4117.230	1	II						
24282.91	4116.961	10	I						
24283.73	4116.821	0	I						
24284.34	4116.719	1C	I						
24285.14	4116.583	C							
24285.75	4116.480	1	I						
24286.84	4116.294	C	II						
24287.56	4116.173	0	I						
24288.15	4116.073	1	I						
24288.48	4116.016	10	I						
24288.80	4115.963	3	I						
24290.30	4115.709	3	II						
24290.78	4115.628	3	I	6.0	6.0				31341- 7050
24291.40	4115.521	C	II						
24292.04	4115.413	3	I						
24292.45	4115.344	3C	II						
24293.15	4115.226	1	I						
24293.49	4115.168	C	I						
24294.26	4115.037	0	II						
24294.61	4114.978	10	II						
24294.96	4114.920	0	I						
24295.90	4114.760	1	II						
24296.42	4114.672	3C	I	8.0	9.0				16733-41029
24296.60	4114.642	10C	I	6.0	6.0	1.40	1.40	4	11673-35970
24296.82	4114.604	3	I						
24297.16	4114.546	1	II						
24297.65	4114.464	C	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	GCC-EVEN	
24298.43	4114.331	0	I							
24299.23	4114.195	3	I	7.0	8.0					12655-36954
24299.69	4114.117	100	II	5.5	5.5					37637-13338
24300.08	4114.052	100	II			1.24	1.24	4		
24300.98	4113.900	100	I	8.0	8.0	1.28	1.27	3		12007-36308
24302.39	4113.662	10	I							
24303.68	4113.443	0	II							
24304.01	4113.386	10	I							
24305.11	4113.201	1	I							
24305.98	4113.054	1000	I	3.0	4.0	0.958	0.618	1		35231-10925
24306.22	4113.012	100	II							
24306.63	4112.943	10	II							
24307.43	4112.808	30	I							
24307.76	4112.752	30	I							
24309.19	4112.510	1	I							
24309.97	4112.378	0								
24310.86	4112.228	30	I							
24311.41	4112.135	10	I							
24312.00	4112.034	0	II							
24312.61	4111.932	3	I							
24312.88	4111.886	0	II							
24313.18	4111.836	3	I							
24313.47	4111.785	1	II							
24314.30	4111.646	10	I							
24314.95	4111.535	0	II							
24316.09	4111.343	3000	II	8.5	8.5	1.23	1.29	3	24316-	0
24317.30	4111.138	0								
24317.71	4111.069	30	I							
24318.09	4111.004	3	I							
24318.45	4110.943	3	I							
24319.12	4110.830	0	I							
24319.94	4110.692	0	I							
24319.99	4110.684	0	II							
24320.18	4110.652	1	I							
24320.80	4110.547	1	II							
24322.04	4110.337	0	I							
24322.36	4110.283	1	II							
24323.23	4110.136	0	I							
24323.59	4110.076	0	I							
24324.29	4109.957	0	II							
24324.54	4109.916	0	II							
24325.22	4109.800	3	I							
24325.50	4109.752	1	I							
24325.98	4109.671	0	I							
24326.32	4109.614	0	I							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
24328.37	4109.267	3	I	8.C	9.0				15567-39895
24328.68	4109.215	0							
24329.17	4109.133	30	I					3	
24330.15	4108.967	C	I						
24330.51	4108.907	C	I						
24330.70	4108.874	30	II	4.5	4.5				38457-14126
24331.80	4108.688	C	II						
24332.34	4108.597	C	II						
24333.C2	4108.483	30	II	6.5	5.5				37671-13338
24333.84	4108.343	10	I						
24334.12	4108.296	10	II						
24334.91	4108.163	30	I						
24335.40	4108.080	3	I						
24335.79	4108.014	C	II						
24337.16	4107.783	C	II						
24337.97	4107.646	C	I						
24338.72	4107.520	C	II						
24339.13	4107.451	30	I						
24339.68	4107.359	10	II						
24340.20	4107.271	10	I						
24340.48	4107.223	30	I						
24340.80	4107.170	300	II	4.5	3.5	0.976	0.472	2	35294-10953
24341.26	4107.092	100	II	7.5	6.5				31826- 7485
24341.64	4107.027	1	I						
24341.77	4107.007	C	I						
24342.21	4106.932	3	I						
24342.48	4106.886	C	II						
24342.88	4106.819	1	I						
24343.71	4106.679	300	II						
24345.49	4106.378	1000	II	5.5	5.5	1.14	*0.998	3	34216- 9870
24345.90	4106.308	1	I	9.0	8.0				13495-37841
24346.22	4106.255	100	I						
24346.98	4106.127	1	I						
24347.80	4105.988	300	I	8.0	8.0	1.25	1.24	3	14625-38973
24348.89	4105.804	300	I	6.0	6.0	0.6 =	0.18	3	31359- 7050
24350.C9	4105.603	C	II						
24350.61	4105.514	30	I						
24351.24	4105.409	0	II						
24351.75	4105.322	3	I						
24352.14	4105.256	10	I						
24352.35	4105.220	1	I						
24353.46	4105.035	300	II	7.5	6.5			2	29109- 4755
24353.56	4105.017	10	I						
24354.29	4104.894	100	I						
24354.76	4104.815	10	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	GCC-EVEN	
24355.50	4104.690	10	I							
24355.63	4104.668	10	II							
24356.57	4104.509	0	I							
24357.43	4104.365	0	I							
24358.88	4104.120	10	I							
24360.34	4103.874	3000	R I	5.0	6.0	1.255	1.075	1	31410-	7050
24361.90	4103.612	0	II							
24362.28	4103.548	10	I							
24362.89	4103.445	3								
24363.73	4103.304	10000	II	7.5	7.5	1.30	1.20	3	25192-	828
24366.04	4102.915	0	II							
24366.61	4102.819	0	II							
24367.10	4102.736	30	I							
24367.88	4102.605	1	II							
24368.06	4102.575	3	II	5.5	4.5				38495-	14126
24368.55	4102.493	1	I							
24368.89	4102.436	3	II							
24369.85	4102.272	10	I	7.0	7.0				14367-	38737
24370.30	4102.198	0	I							
24370.70	4102.130	0	I							
24371.02	4102.077	0	I							
24371.34	4102.022	0	I							
24371.87	4101.933	300	II					1		
24372.42	4101.840	300	I	7.0	6.0			2	31423-	7050
24373.71	4101.623	1	II							
24374.24	4101.535	3	I							
24374.71	4101.455	0	II							
24375.08	4101.393	100	I			0.283	1.682	2		
24377.41	4101.001	30	I							
24378.12	4100.881	10	I							
24378.78	4100.771	10	II							
24379.66	4100.623	0	I							
24380.22	4100.528	30	II							
24380.93	4100.410	1	I							
24381.76	4100.269	0	I							
24381.97	4100.234	0	I							
24384.07	4099.880	300	R I	8.0	7.0	1.25	*1.175	2	28518-	4134
24384.44	4099.819	0	I							
24385.01	4099.723	10	I	8.0	8.0				12007-	36392
24386.69	4099.441	3	I							
24387.76	4099.260	30	II	7.0	7.0				15850-	40245
24388.29	4099.171	0	I							
24388.41	4099.151	0	II							
24388.92	4099.066	1	II							
24389.26	4099.009	0	I							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	GCD-EVEN
24390.30	4098.833	30	II						
24391.06	4098.706	30	I						
24391.78	4098.585	C	II						
24392.64	4098.440	C	I						
24393.05	4098.372	1	I						
24395.70	4097.927	1	I						
24396.72	4097.755	C	I	5.0	5.0				33608- 9211
24397.04	4097.701	1	I						
24397.15	4097.683	1	I						
24397.49	4097.625	0	I						
24398.89	4097.391	0	II						
24399.89	4097.223	3	I						
24402.09	4096.854	100	II						
24402.99	4096.701	300	II			EG =	0.24	1	
24403.46	4096.624	300	I	7.0	6.0	1.36	1.31	2	12655-37058
24404.81	4096.396	1	II						
24406.58	4096.099	3000	I			0.193	1.039	1	
24406.91	4096.045	1	II						
24407.57	4095.934	C	II						
24407.80	4095.895	0	I						
24410.15	4095.501	30	I	8.0	9.0				14625-39035
24411.07	4095.346	1	II						
24411.68	4095.244	30	I						
24413.06	4095.013	1	I						
24414.12	4094.834	1	II						
24414.38	4094.790	C	I						
24415.11	4094.668	0	I						
24415.33	4094.631	0							
24416.67	4094.406	30	I						
24416.99	4094.354	C	I						
24417.30	4094.302	10	I						
24419.27	4093.971	0	II						
24420.04	4093.842	300	I					3	
24420.45	4093.772	0	I						
24420.96	4093.687	100		6.0	6.0				11673-36093
24421.25	4093.639	300	I			1.39	1.39	4	
24421.51	4093.595	3	I						
24422.19	4093.481	1	I						
24422.62	4093.409	1	I						
24422.83	4093.374	1							
24422.93	4093.357	1	I						
24423.10	4093.329	1	II						
24423.53	4093.257	30	I						
24424.30	4093.128	C	I						
24424.87	4093.032	C	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
24425.35	4092.952	3	I						
24426.08	4092.830	3C	I			1.37	1.37	4	
24427.39	4092.610	30	II						
24428.16	4092.481	30	I						
24428.49	4092.426	C	II						
24428.69	4092.393	3	II						
24428.90	4092.358	1	I						
24430.02	4092.169	0	I						
24431.20	4091.972	1	I						
24431.43	4091.933	0	I						
24432.47	4091.759	1000	II			0.135	1.085	1	
24433.11	4091.652	C	I						
24433.90	4091.520	1000	II	3.5	3.5	0.754	0.464	3	35387-10953
24434.84	4091.362	1	II						
24435.35	4091.276	0	II						
24435.85	4091.193	0	II						
24436.50	4091.085	0	II						
24437.70	4090.883	10	I						
24438.62	4090.729	C	II						
24439.04	4090.659	0	II						
24439.25	4090.624	C	I						
24439.99	4090.500	10	II						
24440.31	4090.446	10	I						
24440.65	4090.389	100	I	5.0	4.0			3	35365-10925
24441.04	4090.325	C	II						
24442.60	4090.063	1	I						
24442.97	4090.001	0	I						
24443.78	4089.932	100	II	6.5	7.5				28784- 4341
24443.81	4089.860	1	II						
24444.18	4089.799	0	I						
24444.87	4089.683	1	II						
24445.06	4089.652	1	I						
24445.96	4089.501	300	I	6.0	7.0	1.40	1.25	1	11673-36119
24446.60	4089.394	1	II						
24447.25	4089.285	10	II						
24449.43	4088.921	10	I						
24450.75	4088.699	1	II						
24450.98	4088.661	C	II						
24451.38	4088.595	0	I						
24452.49	4088.409	10	I						
24453.04	4088.317	C	II						
24453.32	4088.270	1	I						
24454.35	4088.097	30	I						
24456.04	4087.815	30	II						
24458.64	4087.381	1000	I			0.269	1.349	3	

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS OCC-EVEN
						G-C	G-E	TYPE	
24459.73	4087.199	1000	II	4.5	4.5	0.95	*0.758	3	36260-11801
24461.69	4086.871	C	I						
24463.26	4086.610	C	I						
24463.61	4086.549	0		5.5	4.5				36264-11801
24464.91	4086.333	0	II						
24467.08	4085.971	0	II						
24468.29	4085.769	30	I						
24468.60	4085.717	30	I						
24470.34	4085.427	1	I	7.0	6.0				12655-37125
24470.88	4085.337	3000 R	I	8.0	7.0	1.36	1.32	2	7565-32036
24472.11	4085.130	1000 R	I	5.0	6.0	1.268	*1.073	1	31522- 7050
24472.79	4085.018	0	I						
24474.29	4084.767	0	II						
24475.08	4084.636	1	I						
24475.92	4084.495	0	II						
24477.05	4084.307	0	I	8.0	9.0				16733-41210
24477.32	4084.261	10	II						
24478.02	4084.145	C	II	8.5	7.5				28819- 4341
24478.96	4083.987	0	I						
24479.80	4083.848	10	I						
24480.07	4083.802	100	I	8.0	9.0	1.28	1.30	2	12007-36487
24480.98	4083.651	1	I						
24483.04	4083.307	3	I						
24483.54	4083.224	0	I						
24483.95	4083.155	3	I						
24484.28	4083.100	300	I			0.304	1.627	2	
24484.78	4083.016	3	I						
24485.07	4082.969	0	I						
24486.59	4082.715	1	II						
24487.09	4082.632	C	I						
24487.88	4082.500	0	I						
24488.66	4082.371	C	I						
24489.14	4082.290	C	II						
24489.42	4082.244	0	I						
24491.46	4081.903	0							
24491.87	4081.835	30	II						
24491.96	4081.820	3	I						
24492.50	4081.730	10	I						
24493.76	4081.520	30		6.5	6.5				31978- 7485
24494.43	4081.409	C	I						
24494.98	4081.317	1	I						
24496.09	4081.132	C	I						
24497.15	4080.956	1	II						
24498.45	4080.738	0	II						
24500.26	4080.437	C	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
24500.53	4080.393	1	I						
24501.01	4080.313	0	II						
24501.59	4080.216	10	I						
24502.28	4080.101	0	II						
24502.50	4080.064	0	I						
24502.67	4080.035	3	II						
24503.84	4079.841	10	I						
24505.37	4079.586	100	I	6.0	6.0	CG =	0.188	3	31555- 7050
24507.34	4079.258	300	I			1.25	1.25	4	
24507.99	4079.149	10	I						
24508.80	4079.015	3	I						
24509.99	4078.818	0		9.0	8.0				16693-41203
24511.06	4078.639	0	I						
24512.44	4078.411	0	II						
24513.59	4078.219	0							
24515.12	4077.964	10000	II	8.5	7.5	1.26	1.21	2	25343- 828
24517.40	4077.584	10	I						
24517.83	4077.513	10	I						
24518.15	4077.460	3	I						
24518.62	4077.381	0	I						
24518.87	4077.340	30	I						
24520.00	4077.152	0	I						
24520.29	4077.104	0	I						
24521.27	4076.941	1	II						
24521.81	4076.852	10	I			1.27	1.27	4	
24523.39	4076.588	0	II	7.5	6.5				29279- 4755
24523.92	4076.500	1	II						
24525.06	4076.311	0	I						
24526.48	4076.075	0	I						
24527.92	4075.837	0	I						
24529.74	4075.533	1	II						
24531.62	4075.220	0	II						
24534.97	4074.664	0	I						
24536.26	4074.450	0	I						
24537.26	4074.284	0	I						
24539.06	4073.985	100	II	4.5	4.5				36340-11801
24540.96	4073.671	10	II						
24542.57	4073.403	3	I						
24544.30	4073.116	3000	II	7.5	7.5	1.25	1.23	3	28885- 4341
24545.96	4072.839	10	I						
24546.77	4072.706	3	I						
24547.02	4072.665	1	I						
24547.35	4072.609	100	II			1.51	1.51	4	
24548.18	4072.471	0	II						
24548.60	4072.402	1	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
24549.40	4072.269	0	II						
24551.23	4071.965	0	I						
24551.30	4071.955	0	II						
24555.94	4071.184	0	I						
24556.93	4071.021	100 R	I	7.0	7.0			3	12655-37212
24557.67	4070.899	1	I						
24557.91	4070.858	0	I						
24558.24	4070.803	10	II						
24559.63	4070.574	0	I						
24561.56	4070.253	10	I						
24562.48	4070.101	0	II						
24562.59	4070.083	0	II						
24563.93	4069.860	0	I						
24565.06	4069.673	3	II						
24565.33	4069.628	3	I						
24566.67	4069.407	1	II						
24567.41	4069.284	0	I						
24567.42	4069.283	0	II						
24568.15	4069.161	0	II						
24570.25	4068.813	3	I						
24570.82	4068.719	0	I						
24571.41	4068.621	0	I						
24571.53	4068.601	3	I						
24572.18	4068.494	30	II						
24574.73	4068.071	0	I						
24575.41	4067.960	100	I						
24576.36	4067.802	1	I						
24576.86	4067.720	0	I						
24577.21	4067.661	0	I	5.0	5.0				33788- 9211
24577.57	4067.601	0	I						
24581.22	4066.998	0	I						
24582.75	4066.745	10 W	I						
24583.42	4066.633	0	I	5.0	5.0				33795- 9211
24584.33	4066.484	0	I						
24585.21	4066.337	10	II						
24586.19	4066.175	3	I						
24586.63	4066.102	0	II						
24586.99	4066.043	3	I						
24588.68	4065.763	0	I						
24590.93	4065.391	100	I	6.0	6.0				10088-34679
24591.49	4065.300	10	I						
24592.34	4065.158	30	I						
24592.46	4065.139	3	II						
24592.58	4065.053	0	I						
24594.70	4064.768	1							

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS	
				J-C	J-E	G-C	G-E	TYPE
24596.68	4064.441	1	I					
24598.54	4064.134	3	I					
24599.02	4064.055	0	I					
24601.62	4063.625	0	II					
24602.24	4063.523	0	I					
24602.99	4063.399	0	I					
24603.44	4063.324	3	II					
24604.82	4063.096	10	I					
24605.68	4062.955	0	I					
24608.18	4062.542	0	I	7.0	8.0			14367-38973
24613.11	4061.728	3	I					
24614.38	4061.519	30	II					
24614.56	4061.488	1	I					
24614.98	4061.420	0	I					
24616.93	4061.098	0	II					
24617.25	4061.045	100	I					
24619.01	4060.754	0	I					
24620.15	4060.566	300	II	4.5	5.5			37958-13338
24623.06	4060.087	0	II					
24623.51	4060.012	10	II					
24624.79	4059.801	1	II	8.5	7.5			25453- 828
24625.27	4059.723	0	II					
24627.52	4059.351	0	II					
24628.55	4059.181	10	I					
24628.89	4059.126	1	I					
24633.43	4058.377	3	II					
24634.76	4058.159	100	I					
24636.22	4057.917	10	II					
24639.11	4057.441	10	II					
24639.53	4057.373	30	II					
24639.68	4057.348	0	II					
24640.26	4057.253	3	I					
24640.69	4057.182	0	I	8.0	9.0			7565-32206
24640.77	4057.168	10	I					
24642.43	4056.896	3	I					
24642.75	4056.843	3	I					
24643.78	4056.673	1	II					
24646.11	4056.289	10	II					
24647.73	4056.023	0	I	7.0	6.0			31698- 7050
24649.28	4055.768	3	II					
24653.08	4055.144	1000	II	5.5	5.5			3 34524- 9870
24653.90	4055.008	100	I					
24654.02	4054.988	100	I	6.0	7.0			10088-34742
24654.37	4054.930	10	I					
24654.96	4054.834	3	I					

WAVE NUMPR	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA		LEVELS CCC-EVEN
						G-C	G-E	
24655.38	4054.765	10	II					
24655.74	4054.706	C	II					
24657.25	4054.457	C	I					
24659.80	4054.038	1	II					
24660.11	4053.986	10	I					
24661.06	4053.830	30	I	8.0	7.0			28795- 4134
24661.27	4053.796	0	I					
24662.03	4053.672	10	I					
24663.92	4053.361	30	II	3.5	4.5			34095- 9432
24664.95	4053.192	10	I					
24665.34	4053.127	10	II	4.5	4.5			36466-11801
24667.42	4052.786	10	I					
24669.48	4052.447	30	I					
24673.34	4051.813	30	II	8.5	7.5			29014- 4341
24676.74	4051.254	10	I					
24670.20	4051.016	30	II					
24680.95	4050.564	1000	II	7.5	6.5	2		29436- 4755
24685.97	4049.740	30	I	9.0	8.0			9990-34676
24688.27	4049.362	300 R	I	7.0	7.0	3		
24690.90	4048.931	300	I			2		
24691.60	4048.816	10	II					
24692.74	4048.630	3	I					
24694.28	4048.377	30	II					
24694.66	4048.315	10	II					
24695.99	4048.096	C	II					
24696.31	4048.044	3	I					
24697.12	4047.911	3	II					
24698.22	4047.731	300	I	9.0	9.0	3		9990-34689
24700.07	4047.427	10	I					
24700.30	4047.391	1	II					
24704.67	4046.692	1	II					
24705.77	4046.495	3	II					
24706.12	4046.437	1						
24708.96	4045.971	10000 R	I	7.0	8.0	1		24708- 0
24710.95	4045.646	10	II	7.0	7.0			12655-37366
24712.06	4045.465	10	I					
24713.24	4045.271	100	I					
24717.57	4044.562	C	II					
24717.88	4044.511	3	I					
24719.70	4044.213	3	I					
24720.90	4044.018	0	II					
24724.76	4043.387	3	II					
24725.17	4043.320	10	I					
24726.91	4043.035	30	I	7.0	8.0			8519-33246
24728.16	4042.830	3	I					

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	GCC-EVEN
24728.53	4042.770	1	I						
24729.84	4042.555	30	I						
24731.24	4042.326	10	I						
24732.46	4042.128	10	I						
24733.39	4041.975	300	II	6.5	6.5			3	32218- 7485
24736.29	4041.502	0	I						
24739.09	4041.044	0	II						
24740.76	4040.771	3	I						
24741.01	4040.731	0	I						
24743.66	4040.297	0	II						
24744.10	4040.225	1	II						
24745.68	4039.968	0	II						
24745.90	4039.933	0	I						
24747.98	4039.593	0	II						
24750.07	4039.251	10	II						
24750.94	4039.108	10	I						
24751.27	4039.055	3	I	8.0	8.0				14625-39376
24752.66	4038.828	300	I			1.14	1.14	4	
24753.40	4038.708	300	I			1.39	1.39	4	
24754.33	4038.556	3	I	6.0	7.0				10088-34843
24754.60	4038.512	1000	II	6.5	5.5			2	32218- 7463
24760.05	4037.624	300	I						
24761.52	4037.383	0	II						
24763.88	4036.999	1	II						
24765.40	4036.752	30	I						
24766.84	4036.516	1	I						
24767.37	4036.430	10	I						
24768.01	4036.325	1000	II	7.5	7.5	1.22	1.22	4	29109- 4341
24776.62	4034.922	10	II						
24777.50	4034.779	30	I						
24778.55	4034.608	10	I						
24779.30	4034.486	10	II						
24780.60	4034.274	30	II						
24781.94	4034.057	30	II						
24783.37	4033.823	0	I						
24783.64	4033.781	30	II						
24784.41	4033.655	300	II	5.5	4.5	1.137	0.825	2	34216- 9432
24785.05	4033.551	100	I						
24788.50	4032.989	3	I						
24789.41	4032.840	300	R I	9.0	9.0	1.23	1.25	3	13495-38285
24790.09	4032.730	1	II						
24791.68	4032.471	1000	II					4	
24793.63	4032.155	1	I						
24796.76	4031.645	3	I						
24798.79	4031.316	0	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
24800.27	4031.075	300 R	I	8.0	8.0			3	12007-36807
24806.92	4029.995	30	I						
24808.35	4029.761	0	I						
24809.94	4029.504	10	I						
24810.68	4029.384	30	II	3.5	3.5				35764-10953
24811.36	4029.273	0	I						
24813.80	4028.876	10	I						
24814.24	4028.805	3	I						
24815.13	4028.661	30	I	8.0	9.0				12007-36822
24815.58	4028.588	30	I						
24815.80	4028.553	10	II						
24816.66	4028.412	1000 R	I	8.0	7.0	1.36	1.36	4	7565-32382
24817.25	4028.316	1000	II					3	
24817.88	4028.215	0	II						
24818.36	4028.137	0	I						
24820.56	4027.779	1000	II	5.5	5.5	1.154	1.006	3	34691- 9870
24823.50	4027.303	10	I						
24824.42	4027.154	10	I						
24826.23	4026.860	1	II						
24826.88	4026.754	10	I						
24828.38	4026.511	1	II						
24828.67	4026.464	3	I	8.0	7.0				15567-40396
24829.79	4026.283	1	I						
24831.20	4026.054	30	I						
24832.49	4025.844	10	I						
24833.81	4025.631	10	II						
24833.98	4025.603	100	I	9.0	10.0				13495-38329
24835.29	4025.391	100	I						
24836.91	4025.129	0	I						
24837.84	4024.977	3	I						
24838.32	4024.899	300 R	I	9.0	9.0			3	9990-34829
24839.11	4024.771	1	II						
24839.43	4024.720	3	II						
24839.96	4024.634	1	I						
24841.23	4024.428	300	II	4.5	5.5			1	34712- 9870
24842.01	4024.302	0	II						
24845.65	4023.713	0	B	4.5	4.5				38972-14126
24845.65	4023.713	1000 R	I	8.0	7.0	1.36	1.32	2	7565-32411
24846.42	4023.587	300	I						
24847.99	4023.334	1	I						
24848.87	4023.191	30	II						
24849.31	4023.119	3	II						
24852.81	4022.554	100	I						
24854.38	4022.298	3	I						
24855.31	4022.149	0	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
24856.43	4021.968	1	II							
24858.22	4021.677	30	I							
24860.93	4021.239	1	I	9.0	8.0					15972-40833
24863.05	4020.897	30	I	8.0	8.0					7565-32428
24863.22	4020.868	100	II							
24863.44	4020.832	1	I							
24865.01	4020.580	1	II							
24867.40	4020.193	10	I							
24868.40	4020.032	3	I							
24870.14	4019.749	3	II							
24871.39	4019.548	100	II							
24871.99	4019.451	3	I	7.0	8.0					12655-37527
24872.33	4019.396	100	II							
24874.20	4019.094	3	I							
24876.50	4018.722	10	I							
24877.85	4018.504	30	II							
24878.02	4018.476	30	I							
24879.70	4018.205	30	II							
24882.51	4017.752	100	II							
24882.84	4017.699	1	II							
24883.91	4017.526	0								
24884.29	4017.464	3	II							
24885.67	4017.242	0	I							
24886.19	4017.157	1	I							
24886.83	4017.054	300	I	7.0	8.0			1		8519-33406
24887.82	4016.895	100	II	4.5	3.5					35841-10953
24888.73	4016.748	30	I							
24891.16	4016.356	3	I							
24893.43	4015.989	0	II							
24894.69	4015.787	1	I							
24896.10	4015.558	30	I	7.0	6.0					31946- 7050
24897.03	4015.408	100	I							
24897.47	4015.337	3	II							
24898.49	4015.172	300	II	3.5	4.5	1.11	0.75	1		36699-11801
24898.93	4015.102	1	I							
24901.40	4014.704	1000	II	5.5	6.5			1		32386- 7485
24901.93	4014.618	3	I							
24904.08	4014.272	3	II							
24904.52	4014.200	30	I							
24905.16	4014.097	300	I					1		
24905.90	4013.979	0	I							
24906.84	4013.826	1000 R	I	7.0	8.0			2		24906- 0
24908.90	4013.495	0	II							
24911.02	4013.153	0	I							
24911.96	4013.003	1	II							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA		TYPE	LEVELS
						G-C	G-E		OCC-EVEN
24913.11	4012.816	30	II						
24913.74	4012.715	C	I						
24914.46	4012.599	1	I						
24914.93	4012.524	300	I	6.0	7.0			1	10088-35003
24916.01	4012.349	3	II						
24916.47	4012.276	10	II						
24917.08	4012.177	C	I						
24918.64	4011.927	3	II						
24919.32	4011.816	30	I						
24919.50	4011.788	10	II						
24921.54	4011.458	3	II						
24922.60	4011.288	1000	II	5.5	5.5			3	32386- 7463
24923.39	4011.161	1	I						
24923.70	4011.111	C							
24924.58	4010.970	C	I						
24924.99	4010.904	C	I						
24925.33	4010.849	3	I						
24925.47	4010.826	C	II						
24925.83	4010.769	30	I						
24926.01	4010.740	10	I						
24926.49	4010.663	C	I						
24927.50	4010.500	1	II						
24927.81	4010.451	3	I						
24929.03	4010.255	10	I						
24929.45	4010.186	30	I						
24930.19	4010.067	300	II					3	
24931.19	4009.907	C							
24931.51	4009.855	3	I						
24932.24	4009.738	10	II						
24932.46	4009.702	10	I						
24932.69	4009.665	300	I					3	
24933.22	4009.579	C	I						
24933.76	4009.493	1	I						
24934.03	4009.450	10	I						
24934.77	4009.330	100	I						
24937.79	4008.846	C	I						
24938.87	4008.671	3	I						
24939.33	4008.598	1	I						
24940.07	4008.478	100	I					3	
24940.29	4008.443	30	I	5.0	6.0				31990- 7050
24944.55	4007.759	300	II	6.5	7.5			1	25772- 828
24945.23	4007.649	10	I						
24947.29	4007.319	3	II	8.0	8.0				12007-36954
24948.42	4007.136	300	I	9.0	9.0			3	13495-38444
24948.90	4007.061	3	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA		TYPE	LEVELS
						G-C	G-E		CCC-EVEN
24949.31	4006.993	1	II						
24950.9C	4006.738	1C	II	4.5	4.5				36751-11801
24951.29	4006.676	C	I						
24951.59	4006.627	1	I						
24951.89	4006.580	10C	II						
24952.73	4006.444	30C	I	7.0	7.0			3	12655-37607
24953.03	4006.397	0	I						
24953.73	4006.284	3	II						
24955.06	4006.071	100C R	I	7.0	6.0	1.33	1.36	1	8519-33474
24956.51	4005.838	100C R	I	7.0	7.0	1.33	1.33	4	8519-33475
24958.83	4005.465	1	II						
24960.97	4005.121	3	II						
24961.13	4005.096	0	II						
24961.75	4004.997	30	I						
24962.94	4004.807	0	II						
24963.45	4004.723	1	II						
24965.15	4004.451	10C	I					3	
24965.62	4004.375	0	II						
24966.11	4004.297	30C	I					1	
24966.38	4004.255	3C	II						
24972.29	4003.307	1	II						
24972.63	4003.252	0	II						
24973.36	4003.136	1	II						
24974.80	4002.905	0	II						
24975.89	4002.730	1C	I						
24978.20	4002.359	1C	I						
24979.32	4002.179	1C	I	5.0	6.0				32029- 7050
24979.54	4002.144	1C	II						
24981.01	4001.910	3	II						
24981.60	4001.814	3	I						
24983.14	4001.568	3	I						
24983.43	4001.521	30C	I					2	
24984.67	4001.322	1C	II						
24985.51	4001.189	3C	I	3.5	4.5				34417- 9432
24985.97	4001.115	1C	I						
24987.58	4000.857	1	I						
24989.25	4000.589	30C	I	8.0	8.0				7565-32554
24990.12	4000.450	100C R	II	8.5	7.5	1.28	1.21	2	25818- 828
24990.86	4000.331	30C	II						
24992.68	4000.040	3C	I						
24992.94	3999.998	3	II						
24993.79	3999.862	3	II						
24993.89	3999.847	30C	II					1	
24994.96	3999.675	3	I	8.5	7.5				29336- 4341
24995.29	3999.622	C	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	ODD-EVEN
24995.82	3999.539	1C	I							
24997.08	3999.336	3	I							
24997.25	3999.309	3	I							
24997.99	3999.190	3	I							
24999.57	3998.938	100 R	I	8.0	8.0			3	24999-	0
25000.13	3998.848	3C	I							
25000.39	3998.807	3	I							
25000.60	3998.773	1	I							
25001.64	3998.608	1C	II							
25002.60	3998.454	1C	II							
25002.70	3998.438	1	I							
25003.00	3998.390	1	II							
25003.25	3998.349	C	II							
25004.16	3998.204	300	I					1		
25005.06	3998.060	300	II	7.5	7.5			3	25833-	828
25005.29	3998.024	0	II							
25005.76	3997.949	1	II							
25006.67	3997.802	1	I							
25007.33	3997.696	0	II							
25008.10	3997.573	3	I							
25009.11	3997.413	30	I	7.0	8.0				14367-	39376
25011.11	3997.094	1	II							
25011.56	3997.021	30	II							
25012.19	3996.920	300 R	I	8.0	8.0	1.34	*1.242	3	25012-	0
25012.66	3996.845	1C	I							
25013.65	3996.688	3000	II	6.5	6.5			3	29769-	4755
25015.67	3996.364	30	II							
25016.43	3996.243	1	I							
25016.58	3996.220	3	I							
25018.01	3995.990	300	I					3		
25018.37	3995.933	3	I							
25019.47	3995.757	30	II							
25019.66	3995.727	30	II							
25020.59	3995.578	0	I							
25020.71	3995.559	0	I							
25022.13	3995.333	1C	I							
25023.09	3995.178	1	II							
25023.58	3995.101	0	I							
25026.06	3994.705	1	I							
25026.31	3994.666	1	I							
25026.79	3994.589	1	I							
25027.15	3994.531	300	I					3		
25028.29	3994.349	30	II							
25028.93	3994.247	30	I							
25029.40	3994.172	10	I							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS OCC-EVEN
						G-C	G-E	TYPE	
25031.39	3993.854	100	I	6.0	6.0				3 32082- 7050
25031.72	3993.802	100	I						
25032.48	3993.680	300	I						3
25033.17	3993.571	1000 R	I	7.0	7.0	1.34	1.28		3 8519-33552
25035.03	3993.273	10	II						
25035.94	3993.128	1	II						
25037.39	3992.898	3	I						
25037.62	3992.060	0	II						
25039.09	3992.626	30	I						
25040.15	3992.457	100	I						
25040.86	3992.344	10	I						
25041.26	3992.280	0	I						
25041.41	3992.256	10	II						
25041.77	3992.200	0	I						
25042.98	3992.006	10	II						
25043.13	3991.982	0	I						
25043.56	3991.913	10	I						
25043.97	3991.849	100	II						
25045.26	3991.643	0	II						
25045.44	3991.615	1	I						
25046.21	3991.492	100	I						
25047.31	3991.315	1000	II	4.5	3.5				2 36001-10953
25047.63	3991.265	3							
25048.99	3991.048	3	II						
25050.69	3990.777	30	II						
25050.97	3990.734	10		7.0	7.0				15194-40245
25051.48	3990.652	3	II						
25053.46	3990.336	300	II						1
25054.25	3990.210	30	I						
25056.30	3989.884	10	I						
25056.66	3989.826	3	I						
25057.39	3989.710	3	II						
25057.56	3989.683	3	I						
25058.74	3989.495	1	II						
25061.27	3989.092	0	II						
25061.52	3989.053	1	II						
25061.85	3989.000	10	I						
25062.29	3988.931	300	I						2
25062.60	3988.880	300	I	9.0	8.0	1.32	1.32		4 9990-35053
25063.12	3988.798	10	I						
25064.25	3988.618	10	II						
25065.83	3988.367	10	I						
25066.05	3988.332	10	II						
25066.83	3988.207	100	I	8.0	9.0	1.25	1.25		4 14625-39692
25068.90	3987.879	0	II						

TABLE

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
25069.31	3987.814	1	II						
25071.02	3987.541	30	I					2	
25072.29	3987.340	1	I						
25072.80	3987.259	30	I						
25073.98	3987.070	300	II					1	
25074.90	3986.924	30	I						
25075.56	3986.820	100	I	6.0	6.0			3	32126- 7050
25076.58	3986.657	30	I						
25076.95	3986.599	10	II						
25077.19	3986.560	3	II						
25077.88	3986.451	10	I						
25078.33	3986.379	10	I						
25080.34	3986.059	300	I	8.0	8.0	1.28	1.33	3	12007-37087
25080.66	3986.009	10	II						
25081.30	3985.908	1	II						
25083.13	3985.616	10	I						
25084.77	3985.356	300	I					2	
25085.39	3985.258	10	II						
25087.17	3984.974	30	I						
25088.26	3984.802	1	II						
25088.95	3984.691	300	II					1	
25089.81	3984.555	100	I						
25090.65	3984.422	0	I						
25091.98	3984.210	1000	II	5.5	4.5			2	34524- 9432
25093.14	3984.027	10	I						
25093.84	3983.915	1	I						
25094.18	3983.861	10	I						
25094.83	3983.757	10	I						
25095.50	3983.652	3000	II	7.5	7.5	1.22	1.22	4	29436- 4341
25096.10	3983.557	10	I						
25096.21	3983.539	10	II	7.0	7.0				12655-37751
25096.67	3983.467	10	I						
25099.62	3982.997	1	II						
25100.60	3982.843	30	I						
25101.00	3982.779	10	I						
25101.64	3982.676	1	I						
25102.68	3982.512	100	I						
25103.08	3982.449	100	I						
25105.80	3982.017	10	I						
25106.39	3981.924	3000	II	6.5	6.5			3	32591- 7485
25109.91	3981.366	1000 R	I	8.0	8.0	1.36	1.28	3	7565-32675
25111.31	3981.143	10	II						
25112.45	3980.963	1	I						
25114.14	3980.695	30	I						
25115.46	3980.485	1	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
25115.88	3980.418	10	II							
25116.20	3980.369	30	I	8.0	9.0					15567-40683
25118.06	3980.073	3	I							
25118.65	3979.981	1	II							
25118.87	3979.945	100	I							
25121.86	3979.471	1000	II	6.5	6.5			3		29877- 4755
25122.11	3979.432	3	II							
25122.36	3979.391	0								
25123.05	3979.283	3	II							
25123.44	3979.222	1	I							
25125.21	3978.940	3	II							
25125.95	3978.823	3	I							
25126.61	3978.718	10	I							
25127.58	3978.566	3000	II	6.5	5.5	1.09	1.00	2	32501	7463
25127.95	3978.507	300	II					4		
25130.59	3978.088	10	II							
25132.31	3977.817	10	II							
25132.97	3977.712	30	I							
25133.63	3977.608	10	I	7.0	8.0					25133- 0
25135.02	3977.387	10	II							
25136.31	3977.183	3	I							
25137.71	3976.962	100	I							
25139.18	3976.730	3	I							
25139.49	3976.680	30	I							
25140.00	3976.599	10	I							
25140.67	3976.494	100	I							
25142.60	3976.189	100	II							
25146.89	3975.510	10	I							
25147.61	3975.396	3	II							
25148.24	3975.297	10	I	4.0	5.0					34359- 9211
25149.04	3975.171	100	I							3
25149.64	3975.075	300	I							4
25150.21	3974.985	30	II							
25150.52	3974.937	10	II							
25151.97	3974.708	10	I							
25152.27	3974.660	3	II							
25153.06	3974.535	30	II							
25154.19	3974.356	10	II							
25155.43	3974.160	3	I							
25156.01	3974.070	3	I							
25156.68	3973.963	10	I							
25157.22	3973.877	300 R	I	8.0	7.0	1.36	1.33	2	7565-32722	
25160.03	3973.433	3	I							
25160.80	3973.313	30	I							
25160.99	3973.281	30	II							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
25161.80	3973.155	3	I						
25162.73	3973.008	C	II						
25164.77	3972.685	1	I						
25166.48	3972.415	30C	I					2	
25171.37	3971.643	30	II						
25171.56	3971.613	100	I						
25172.62	3971.447	30	I						
25174.10	3971.214	300	I					3	
25174.48	3971.152	10C	II	4.5	4.5			3	39301-14126
25175.33	3971.018	100	II						
25177.60	3970.661	10	I						
25170.06	3970.589	10	I						
25178.93	3970.452	100	I					3	
25180.24	3970.244	10	I	9.0	9.0				14512-39692
25180.55	3970.196	10	I						
25181.03	3970.120	10	II						
25181.89	3969.984	100	II			0.12	1.31	3	
25182.40	3969.905	10	II						
25182.92	3969.823	3	I						
25184.05	3969.645	3	II						
25185.46	3969.422	30	I						
25186.20	3969.305	30	II						
25186.69	3969.227	30C	I	7.0	8.0			2	12655-37841
25189.06	3968.855	10C	I	5.0	5.0			3	34400- 9211
25189.66	3968.760	1	I						
25192.01	3968.391	10000	R II	7.5	8.5			4	25192- 0
25192.70	3968.281	30	II						
25193.10	3968.217	3	I						
25195.41	3967.854	10	II						
25195.57	3967.829	10	I						
25197.58	3967.512	1000	R I	8.0	9.0	1.36	1.30	1	7565-32763
25198.06	3967.437	3	II						
25198.40	3967.384	3	II						
25198.55	3967.360	3	I						
25200.83	3967.002	3	I						
25201.12	3966.955	10	II						
25202.35	3966.761	10	I						
25203.85	3966.526	10C	II						
25204.93	3966.356	30C	I	8.0	7.0	1.28	1.30	1	12007-37212
25204.93	3966.356		B	5.5	5.5				35075- 9870
25206.01	3966.186	3	II						
25206.68	3966.081	C	I						
25207.44	3965.961	10	I						
25208.38	3965.813	30	II						
25209.59	3965.622	3	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
25212.56	3965.155	100	I	5.0	6.0				1 32263- 7050
25212.90	3965.102	100	II						3
25214.75	3964.810	3	I						
25215.38	3964.712	300	II	4.5	5.5	1.14	1.01	1	32679- 7463
25216.03	3964.610	30	II						
25217.41	3964.392	3	I						
25217.72	3964.344	30	I						
25219.71	3964.031	1	I						
25220.14	3963.964	1	II	6.5	6.5				32705- 7485
25221.14	3963.807	300	II						3
25223.02	3963.510	3	II						
25224.87	3963.220	100	I	7.5	6.5				32709- 7485
25225.22	3963.165	300	I						2
25225.78	3963.077	30	II						
25226.20	3963.012	10	II						
25227.60	3962.791	300	I						3
25228.88	3962.591	1000 R	I	9.0	9.0	1.32	1.28	3	9990-35219
25229.74	3962.454	100	II						
25231.67	3962.152	10	I						
25233.20	3961.755	1	II						
25233.90	3961.803	300 R	I	7.0	8.0	1.33	1.31	1	8519-33753
25235.10	3961.614	10	II						
25235.56	3961.541	300	II	3.5	4.5	0.97	0.76	1	37036-11801
25236.77	3961.352	100	I						2
25237.51	3961.235	10	I						
25238.04	3961.153	30	II						
25238.80	3961.032	1	I						
25239.17	3960.975	1	II						
25240.11	3960.827	30	II						4
25241.25	3960.648	1	I	6.5	5.5				32705- 7463
25241.72	3960.574	3	I	6.0	7.0				29375- 4134
25242.31	3960.483	10	I						
25244.75	3960.099	10	II						
25245.14	3960.038	3	II						
25247.30	3959.700	100	II						2
25249.15	3959.409	1	I						
25249.34	3959.379	100	II						2
25250.17	3959.249	1	II						
25251.02	3959.116	30	I						
25252.25	3958.923	3	II						
25252.76	3958.843	3	II						
25252.83	3958.832	3	II						
25253.44	3958.737	10	I	5.5	6.5				40945-15691
25254.42	3958.583	3	I						
25255.14	3958.469	100	I						4

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
25256.39	3958.274	1	I						
25257.54	3958.094	100	I						
25258.17	3957.996	300	I	9.C	8.0			4	9990-35249
25258.74	3957.905	30	II						
25259.14	3957.843	3	I	5.C	5.0				34470- 9211
25259.48	3957.790	1000	II	5.5	4.5			2	34691- 9432
25260.05	3957.701	3	I						
25260.27	3957.667	3	I						
25260.61	3957.613	100	I					2	
25261.41	3957.487	100	II						
25262.55	3957.308	0	I						
25262.99	3957.240	300	II					2	
25264.79	3956.958	10	I						
25265.43	3956.857	100	I	8.0	8.0			4	15567-40833
25265.74	3956.809	30	II						
25265.99	3956.770	30	II						
25267.31	3956.562	30	I						
25267.52	3956.531	10	I						
25268.84	3956.323	30	I					1	
25269.30	3956.252	300	I					4	
25269.50	3956.220	1	II						
25270.09	3956.128	10	I	8.C	9.0				14625-39895
25270.40	3956.079	30	II						
25271.89	3955.847	10	II						
25273.58	3955.581	10	II						
25274.20	3955.484	100	II						
25275.04	3955.353	30	II						
25275.29	3955.314	100	II	5.5	4.5				37076-11801
25275.29	3955.314			4.C	5.0				34486- 9211
25275.58	3955.268	3	I						
25275.89	3955.221	1	I						
25276.52	3955.122	100	II						
25276.66	3955.100	30	I						
25277.45	3954.976	3	I						
25278.10	3954.874	3	I						
25279.45	3954.662	1							
25280.16	3954.552	1000	II	4.5	4.5			3	34712- 9432
25280.53	3954.495	100	II						
25280.93	3954.431	30	II						
25282.24	3954.227	30	II						
25283.45	3954.038	100	II						
25283.88	3953.970	30	I						
25285.08	3953.783	30	II						
25285.94	3953.649	30	II						
25286.74	3953.523	30	I						

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS CCC-EVEN
						G-C	G-E	TYPE	
25286.89	3953.500	100	R I	7.0	7.0			3	8519-33806
25288.37	3953.268	3	I						
25288.86	3953.191	100	I	8.0	7.0	1.28	1.28	4	12007-37295
25289.27	3953.128	100	II	5.5	4.5			A	39416-14126
25289.69	3953.062	30	II						
25290.06	3953.004	3	I						
25290.87	3952.877	10	I						
25292.02	3952.697	30	II						
25292.84	3952.569	3	I						
25293.41	3952.481	30	II						
25293.69	3952.437	10	II						
25295.62	3952.135	100	I					4	
25295.93	3952.087	30	I						
25297.53	3951.837	100	I					3	
25298.13	3951.743	100	II						
25298.70	3951.653	10	I						
25300.59	3951.359	100	II						
25300.69	3951.342	30	I						
25301.24	3951.257	1	I						
25301.56	3951.208	100	II					1	
25302.01	3951.137	30	I						
25302.84	3951.007	10	II						
25303.55	3950.896	3	I						
25304.02	3950.824	30	I	8.0	8.0				15567-40871
25305.22	3950.636	1	II						
25306.19	3950.484	30	I						
25306.80	3950.389	1000	II	4.5	3.5			2	36260-10953
25307.29	3950.313	1	II						
25308.27	3950.159	1	II						
25310.54	3949.805	1	I						
25310.79	3949.766	1	I						
25311.22	3949.700	100	I						
25311.48	3949.659	10	II						
25312.94	3949.430	30	I						
25314.11	3949.248	30	I						
25314.70	3949.156	C	I						
25316.01	3948.953	3	I						
25316.58	3948.863	3	II						
25317.15	3948.773	3	I						
25318.38	3948.582	1	I						
25318.84	3948.510	3	I						
25319.83	3948.356	1	II						
25320.09	3948.315	1	I						
25320.82	3948.202	30	I					2	
25321.63	3948.075	3	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	OCC-EVEN	
25322.61	3947.923	1	II							
25324.16	3947.680	3	I							
25324.87	3947.570	30	I	7.0	7.0					12655-37980
25325.89	3947.412	3	I							
25326.89	3947.256	100	I						4	
25328.98	3946.929	1000	II						1	
25330.14	3946.750	30	I							
25331.17	3946.589	1	II							
25332.36	3946.402	30	I							
25332.75	3946.343	300	I						3	
25333.76	3946.185	30	I							
25335.04	3945.985	10	II							
25335.51	3945.913	300	I						2	
25337.30	3945.634	30	II							
25337.62	3945.583	3	I							
25341.73	3944.943	30	I							
25343.40	3944.683	10000 R	II	8.5	8.5	1.26	1.29	3		25343- 0
25346.37	3944.222	1	I							
25347.23	3944.087	1	II							
25348.04	3943.962	10	I							
25349.22	3943.778	3	II	7.5	6.5					32834- 7485
25349.79	3943.690	1	II							
25351.12	3943.482	3	I							
25351.49	3943.425	1	I							
25352.17	3943.320	10	II							
25352.97	3943.194	30	I							
25354.12	3943.016	1	I							
25355.32	3942.829	10	I							
25356.16	3942.699	3	II							
25356.73	3942.610	3	I							
25357.27	3942.527	1000	II	7.5	6.5			2		30112- 4755
25357.80	3942.443	10	I							
25358.13	3942.392	100	II							
25358.96	3942.263	10	I	8.0	7.0					12007-37366
25359.57	3942.169	100	II							
25360.36	3942.045	30	II							
25360.65	3942.001	3	I							
25360.93	3941.958	30	I							
25362.46	3941.720	0								
25363.34	3941.582	3	II							
25363.93	3941.491	3	II							
25364.34	3941.427	1	I							
25364.88	3941.343	10	II							
25366.28	3941.126	30	I							
25367.52	3940.933	10	I							

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
25368.29	3940.814	100	II						
25369.02	3940.701	10	II						
25370.52	3940.468	0	I						
25370.96	3940.399	30	I						
25372.54	3940.153	10	II						
25374.85	3939.794	300	I					4	
25375.77	3939.652	100	II					A	
25376.37	3939.559	1	I						
25378.30	3939.260	100	I						
25379.92	3939.008	30	II						
25380.99	3938.842	100	I	6.0	6.0				32431- 7050
25381.45	3938.770	1	II						
25382.60	3938.591	30	I						
25383.28	3938.486	3	I						
25383.85	3938.398	10	II						
25384.45	3938.304	30	II						
25385.10	3938.203	1000 R	I	6.0	6.0	1.39	1.30	3	11673-37058
25386.12	3938.046	300	II	4.5	3.5			2	36340-10953
25386.52	3937.984	1000 R	I	9.0	8.0			2	9990-35377
25388.95	3937.606	30	II						
25389.68	3937.493	100	II						
25389.96	3937.450	100	II						
25390.05	3937.437	1	I						
25390.22	3937.409	0	I						
25390.45	3937.374	30	II						
25391.35	3937.235	100	I	8.0	8.0			3	12007-37398
25391.80	3937.164	1000	I					2	
25392.56	3937.047	300	I	10.0	9.0			A	12892-38285
25392.95	3936.987	10	II						
25393.60	3936.885	10	II						
25394.80	3936.700	1000 R	I	9.0	10.0	1.32	1.27	1	9990-35385
25396.42	3936.448	10	II						
25397.41	3936.295	300	II	5.5	5.5			3	35268- 9870
25398.63	3936.106	10	I						
25398.96	3936.054	300	II	3.5	4.5			A	37199-11801
25399.44	3935.980	30	I						
25400.10	3935.879	10	I						
25400.63	3935.795	1	I						
25403.80	3935.306	3	II						
25404.14	3935.252	10	II						
25406.62	3934.868	30	II						
25407.82	3934.682	3	I						
25409.82	3934.373	300	I					3	
25410.89	3934.207	1000	II					1	
25411.36	3934.133	3	I						

TABLE

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
25411.64	3934.090	3	II						
25411.92	3934.048	3	II						
25412.95	3933.887	30	I						
25413.61	3933.786	3	I						
25414.21	3933.693	30	I						
25415.96	3933.423	10	II						
25416.99	3933.263	10	II						
25418.51	3933.028	100	I					4	
25418.72	3932.995	300	II	5.5	6.5			2	32903- 7485
25419.23	3932.915	30	II						
25419.68	3932.847	100	I						
25420.37	3932.739	1	II						
25421.01	3932.641	10	II						
25422.12	3932.469	3	II	5.5	4.5				39549-14126
25422.98	3932.336	30	I						
25423.76	3932.216	1000	II	4.5	5.5			2	35294- 9870
25424.65	3932.078	300	II					A	
25424.99	3932.024	100	I						
25426.71	3931.760	100	I						
25427.27	3931.672	30	I						
25428.23	3931.524	3000	II	6.5	7.5	1.26	1.23	1	29769- 4341
25428.85	3931.428	100	II						
25429.80	3931.281	1000	II	6.5	6.5			3	32914- 7485
25430.31	3931.202	10	II						
25430.69	3931.143	1	II						
25431.63	3930.999	30	I	5.0	5.0				34643- 9211
25432.83	3930.813	30	II						
25434.54	3930.549	300	I	4.0	5.0			2	
25436.64	3930.224	10	II						
25437.15	3930.146	1000 R	I	10.0	10.0	1.29	1.30	3	12892-38329
25437.81	3930.043	3	I						
25438.08	3930.002	3	I						
25439.47	3929.787	1	I						
25439.93	3929.716	300	II	5.5	5.5			3	32903- 7463
25441.21	3929.518	10	II						
25442.41	3929.333	300	II					2	
25442.93	3929.253	1							
25444.20	3929.056	10	I						
25446.27	3928.737	1	I						
25446.64	3928.679	10	I						
25448.72	3928.358	10	I						
25449.44	3928.248	3	II						
25449.64	3928.216	30	I						
25450.53	3928.078	100	I						
25451.01	3928.005	300	II	6.5	5.5			2	32914- 7463

WAVE NUMBRER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
25451.94	3927.861	1000 R	I	6.0	6.0	1.39	1.33	3	11673-37125
25452.35	3927.798	3	II	5.5	4.5				34884- 9432
25452.72	3927.741	10	II						
25453.06	3927.689	3	II	8.5	8.5				25453- 0
25454.72	3927.432	10	I						
25455.58	3927.300	100	II						
25457.64	3926.981	3	II						
25459.01	3926.771	100	I					2	
25461.28	3926.421	1	I						
25462.22	3926.276	10	I	8.0	9.0				15567-41029
25462.69	3926.204	10	I						
25462.92	3926.167	10	II						
25463.41	3926.092	10	I						
25463.64	3926.057	30	II						
25464.56	3925.915	10	II						
25465.99	3925.694	10	II						
25466.84	3925.563	30	II						
25468.13	3925.365	10	I						
25468.80	3925.261	100	I					3	
25470.35	3925.023	3	I						
25470.96	3924.920	10	II						
25473.54	3924.532	100	I					4	
25473.96	3924.466	300	II					3	
25474.33	3924.409	300	I					3	
25474.83	3924.331	30	II						
25475.19	3924.277	10	I						
25475.68	3924.202	100	I						
25476.28	3924.109	100	I						
25477.49	3923.922	100	I	9.0	8.0			4	13495-38973
25478.94	3923.698	100	I						
25480.37	3923.479	10		3.5	4.5				39607-14126
25481.01	3923.380	1000	II					4	
25481.59	3923.291	300	II					3	
25481.99	3923.229	100	I						
25484.96	3922.772	1	II						
25485.77	3922.648	1	II						
25485.96	3922.617	10	II						
25489.66	3922.049	100	I						
25491.67	3921.740	10	I						
25493.10	3921.519	100	II						
25493.77	3921.417	30	II						
25494.44	3921.313	30	I						
25494.62	3921.285	3	I						
25494.90	3921.242	3	II						
25495.18	3921.200	3	II						

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WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS	
				J-C	J-E	G-C	G-E	TYPE
25495.37	3921.171	100	I					2
25496.84	3920.944	10	II					
25497.39	3920.860	300	I					4
25498.43	3920.700	3	I					
25498.68	3920.662	3	II					
25500.49	3920.384	10	I					
25500.61	3920.364	30						
25500.99	3920.305	30	I					
25502.24	3920.114	100	I					A
25504.40	3919.782	3	I					
25504.71	3919.735	3	I					
25505.04	3919.684	10	II					
25506.34	3919.484	10	I					
25506.80	3919.413	10	II					
25507.62	3919.287	10	I					
25508.00	3919.228	300	II	8.5	7.5			26336- 828
25508.48	3919.155	100	I					3
25508.68	3919.125	300	I					2
25509.09	3919.061	100	I	4.0	5.0			34720- 9211
25510.01	3918.920	100	II					
25511.41	3918.705	10	II					
25512.39	3918.555	300	II	4.5	3.5			2 36466-10953
25514.03	3918.303	1	II					
25514.36	3918.251	3	I	7.0	6.0			32564- 7050
25514.68	3918.202	1	II					
25515.71	3918.045	10	II					
25516.10	3917.985	300	I	5.5	6.5			1 33001- 7485
25517.96	3917.699	30	I					
25520.04	3917.379	10000	R I	8.0	8.0	1.28	1.24	3 12007-37527
25520.13	3917.365	1000	B					2
25520.61	3917.292	1000	R I	8.0	9.0	1.36	1.29	1 7565-33086
25521.64	3917.134	30	I					2
25522.35	3917.024	100	II					
25523.33	3916.875	100	I					A
25524.22	3916.739	3	I					
25526.10	3916.449	3	II					
25527.09	3916.298	30	I					
25527.48	3916.238	10	II					
25528.34	3916.106	30	I					
25528.87	3916.025	1	I					
25529.22	3915.972	3	I					
25529.74	3915.890	30	I					
25531.68	3915.594	1000	II	6.5	6.5			3 30287- 4755
25532.90	3915.407	3	I					
25534.17	3915.212	30	I					

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
25534.45	3915.170	3	I						
25534.67	3915.136	1	I						
25535.33	3915.034	100	II						
25536.02	3914.928	3C	I						
25536.42	3914.866	100C	II	6.5	7.5			1	29877- 4341
25537.28	3914.735	30	II	5.5	5.5				33001- 7463
25538.16	3914.600	1C	II						
25538.58	3914.536	3C	I	6.0	7.0				11673-37212
25539.26	3914.432	1C	I						
25539.92	3914.330	10C	I	9.0	9.0			3	13495-39035
25540.51	3914.240	3C	I						
25540.94	3914.174	3C	I						
25541.46	3914.094	3C	I						
25541.71	3914.056	30C	I					2	
25542.25	3914.974	30C	II					2	
25544.52	3913.625	30C R	I					2	
25545.53	3913.472	1C	II						
25546.14	3913.377	3	II						
25546.85	3913.269	1	II						
25548.19	3913.062	3	I						
25548.67	3912.990	10C	II						
25549.48	3912.866	300	II					1	
25551.09	3912.618	1C	II						
25551.57	3912.545	300 R	I	10.0	9.0			2	12892-38444
25552.30	3912.434	1	II						
25552.69	3912.374	0	I						
25553.19	3912.298	10C	I						
25553.56	3912.241	1C	II						
25554.14	3912.152	10	II						
25554.46	3912.104	0	I						
25554.78	3912.054	0	I						
25555.71	3911.911	3C	I						
25557.28	3911.672	300	I	6.0	6.0			3	32607- 7050
25557.76	3911.598	10C	I					2	
25557.98	3911.564	3	I						
25558.47	3911.489	3	II						
25558.71	3911.453	10C	I	6.0	5.0				34770- 9211
25559.16	3911.383	3	I						
25559.64	3911.311	10C	I						
25560.43	3911.189	10C	I						
25560.67	3911.152	30	II						
25561.39	3911.043	0	II						
25562.56	3910.864	1	I						
25563.15	3910.773	1C	I						
25563.40	3910.735	10C	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA		LEVELS			
				J-C	J-E	G-C	G-E	TYPE	CCC-EVEN
25564.63	3910.547	10C	II	4.5	4.5			3	39691-14126
25566.72	3910.227	1C	II						
25567.19	3910.156	10C	II						
25567.51	3910.106	30C	I					1	
25567.84	3910.055	10C	II						
25568.10	3910.016	3C	II						
25568.96	3909.884	1C	I						
25569.61	3909.785	10C	II						
25570.48	3909.652	1C	II						
25570.75	3909.610	C	I	5.0	5.0				34782- 9211
25571.66	3909.472	1C	I						
25571.82	3909.448	3	I						
25572.28	3909.377	100	II					3	
25573.86	3909.135	100	II					2	
25575.11	3908.945	1C	I						
25576.96	3908.662	3C	II						
25577.47	3908.583	C	I						
25578.02	3908.500	1	II						
25578.31	3908.455	3C	I						
25578.58	3908.353	1	I						
25579.32	3908.301	3	I						
25580.09	3908.183	1C	II						
25580.67	3908.095	100	I						
25581.00	3908.044	100	I					3	
25581.27	3908.003	3							
25581.51	3907.967	10	II						
25581.61	3907.951	10	II						
25581.87	3907.911	10	I						
25583.72	3907.629	1C	II						
25584.09	3907.573	3C	I						
25584.67	3907.484	1C	I	8.0	9.0				12007-37591
25584.94	3907.443	3	II						
25586.03	3907.276	3	I						
25586.96	3907.134	10	I						
25587.59	3907.038	1C	I						
25590.61	3906.576	0	I						
25591.05	3906.510	10	II						
25591.24	3906.480	3	I						
25591.79	3906.396	30	II						
25592.94	3906.222	3	II						
25593.77	3906.094	3C	I						
25594.77	3905.941	30C	I					3	
25595.12	3905.889	30	II						
25597.02	3905.598	300	II					1	
25597.46	3905.532	30	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS CCC-EVEN
						G-C	G-E	TYPE	
25599.82	3905.171	100	I						
25600.29	3905.100	10	II						
25600.76	3905.027	100	I	8.0	7.0			4	12067-37607
25603.09	3904.672	30	I						
25603.34	3904.635	0	I						
25603.95	3904.542	10	II						
25604.39	3904.474	1	II						
25604.61	3904.441	1	I						
25606.12	3904.209	1000	II	6.5	6.5	1.19	1.13	3	30361- 4755
25606.95	3904.084	300	I					1	
25607.42	3904.012	10	II						
25608.17	3903.898	100	II					3	
25609.14	3903.750	30	I	7.0	7.0				12655-38264
25611.89	3903.330	300	I					3	
25613.59	3903.072	100	II					3	
25614.99	3902.859	100	II						
25615.53	3902.777	10 W	I						
25616.59	3902.615	1	II						
25617.17	3902.526	3	I						
25617.64	3902.454	1	I						
25618.00	3902.400	300 B	II					4	
25620.12	3902.076	100	I	8.0	7.0				14625-40245
25621.09	3901.928	10	II						
25621.74	3901.830	10	II						
25622.98	3901.641	3	I						
25623.41	3901.576	1	II						
25623.90	3901.501	30	II						
25624.67	3901.384	300	I					3	
25625.59	3901.244	10	I						
25626.51	3901.104	300	I					3	
25626.82	3901.057	10	I						
25627.80	3900.908	10	I						
25629.35	3900.671	30	I						
25629.95	3900.580	30	I						
25630.94	3900.430	100	II					3	
25631.58	3900.271	10	II						
25632.80	3900.147	30	I						
25633.19	3900.087	1	II						
25633.45	3900.048	1	II	4.5	5.5				33097- 7463
25633.70	3900.010	30	I						
25634.29	3899.920	100	II	4.5	5.5			2	38972-13338
25635.37	3899.755	300	I					2	
25636.54	3899.578	10	I	8.0	8.0				15567-41203
25637.03	3899.502	3	II						
25637.29	3899.464	10	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
25638.45	3899.288	100	I	7.0	8.0				15194-40833
25639.23	3899.169	300	I					2	
25639.55	3899.120	100	I					4	
25639.88	3899.070	10	I						
25640.25	3899.013	3	I						
25640.62	3898.958	100	II					A	
25641.20	3898.868	3	I						
25641.56	3898.814	3	I						
25642.26	3898.708	10							
25643.44	3898.529	10000	R II	7.5	6.5			2	30399- 4755
25643.81	3898.472	100	II	5.5	4.5			2	35075- 9432
25644.12	3898.425	10	II						
25647.72	3897.878	1	II						
25648.19	3897.807	3	I						
25648.94	3897.692	10	I						
25649.97	3897.536	30	II						
25650.71	3897.423	1	I						
25651.09	3897.365	100	I						
25651.33	3897.330	30	II						
25652.01	3897.227	30	II						
25652.60	3897.136	3	II						
25652.98	3897.078	30	I						
25653.34	3897.023	30	I						
25653.57	3896.980	100	I					4	
25654.45	3896.855	100	II						
25655.79	3896.651	300	I	6.0	6.0	1.36	1.32	3	10088-35744
25657.37	3896.411	10	I						
25658.64	3896.219	300	I					4	
25659.21	3896.132	10	I						
25660.46	3895.942	30	I						
25660.66	3895.913	30	II						
25660.94	3895.870	10	II						
25661.29	3895.816	3	I						
25661.81	3895.738	3	I						
25662.78	3895.590	100	I					1	
25663.43	3895.492	3	I						
25664.21	3895.373	300	II					1	
25665.81	3895.131	100	I					3	
25666.10	3895.086	3	I						
25666.32	3895.053	3	I						
25667.51	3894.872	10	II						
25668.25	3894.760	10	II						
25668.57	3894.711	10	I						
25669.76	3894.570	300	R I	8.0	8.0			3	12007-37676
25670.93	3894.353	30	II						

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
25671.47	3894.272	3	I						
25671.67	3894.241	3	I						
25672.01	3894.189	30	II						
25673.53	3893.959	100	II					A	
25674.15	3893.865	30	II						
25674.92	3893.748	10	II						
25675.51	3893.659	30	II						
25676.56	3893.500	30	I	7.0	8.0				15194-40871
25676.91	3893.446	10	I						
25677.17	3893.407	30	I						
25677.34	3893.382	100	I					3	
25677.87	3893.301	3	I						
25679.55	3893.047	1	II						
25680.51	3892.901	1000 R	I	8.0	8.0	1.35	1.25	3	7565-33246
25681.34	3892.774	100	I						
25681.78	3892.708	3	I						
25682.27	3892.633	10	I						
25682.57	3892.589	100	II						
25683.61	3892.431	1	II						
25684.31	3892.325	3	II						
25685.28	3892.178	3	I						
25685.77	3892.103	1	II						
25686.66	3891.969	1000 R	I	8.0	9.0	1.36	1.31	1	7565-33252
25687.13	3891.897	100	I					2	
25687.34	3891.865	100	II						
25688.49	3891.670	100	II						
25689.84	3891.487	10	I						
25690.02	3891.459	10	II						
25690.56	3891.378	10	I						
25691.20	3891.281	0	I						
25691.52	3891.232	3	I						
25692.60	3891.068	100	I	6.0	7.0			A	11673-37366
25692.82	3891.036	30	II						
25693.43	3890.942	30	I						
25694.43	3890.791	100	I						
25694.92	3890.717	30	II						
25696.01	3890.552	30	I						
25696.33	3890.504	100	I					1	
25697.32	3890.354	100	I					4	
25697.67	3890.302	30	I						
25698.66	3890.152	30	I						
25699.34	3890.048	30	I						
25699.74	3889.988	10	II						
25700.49	3889.874	1	I						
25701.12	3889.778	300	I	7.0	8.0	1.36	1.36	4	12655-38356

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS ODD-EVEN
				J-C	J-E	G-C G-E TYPE	
25701.61	3889.704	3	II				
25702.09	3889.632	0	II				
25702.58	3889.558	3C	I				
25702.96	3889.500	3C W	I				
25705.16	3889.168	1C	I				
25706.18	3889.013	100C	II				4
25706.59	3880.951	10C	I				
25707.06	3888.880	3C	I				
25707.60	3888.799	3C	II				
25707.86	3888.760	10	I				
25708.52	3888.659	1C	II				
25708.79	3888.627	0	I				
25709.18	3888.559	30	I				
25710.06	3888.427	30C	II				4
25710.40	3888.375	3C	II				
25711.18	3888.257	10C	I				
25712.47	3888.061	30C	I				3
25713.31	3887.935	1	II				
25713.89	3887.847	3	I				
25714.64	3887.733	1	II				
25715.92	3887.540	30C	I				1
25716.94	3887.385	30	I				
25717.35	3887.324	30	I				
25718.44	3887.159	30	I				
25720.14	3886.903	1C	II	8.5	7.5		30061- 4341
25720.57	3886.838	1C	I				
25721.18	3886.745	10C	I				
25723.10	3886.455	100	II				3
25723.60	3886.379	30	II				
25723.79	3886.351	10	II				
25724.58	3886.232	3C	II				
25726.58	3885.930	100	I				
25726.84	3885.890	100	II				
25727.48	3885.793	3	I				
25727.94	3885.723	10C	II	4.5	4.5		39854-14126
25728.67	3885.613	100	I	3.0	3.0		3
25729.46	3885.495	1C	I				
25729.83	3885.438	10	II				
25732.36	3885.056	1C	II				
25733.23	3884.925	30	I				
25733.52	3884.881	1C	I				
25733.84	3884.833	1C	II				
25734.39	3884.750	0	I				
25734.71	3884.701	0	I				
25735.27	3884.617	3	I				

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	CCC-EVEN	
25735.91	3884.520	1	I							
25736.55	3884.424	10	I							
25736.72	3884.399	30	I							
25736.99	3884.357	3	I							
25737.43	3884.292	30	I							
25737.66	3884.256	10	I							
25738.12	3884.187	3	I							
25739.10	3884.039	1	I							
25739.52	3883.975	1	I							
25740.05	3883.896	100	I	6.0	6.0			3	32790-	1050
25740.35	3883.850	30	I							
25740.91	3883.766	1	I							
25741.57	3883.667	0	I							
25742.02	3883.598	10	I							
25742.43	3883.537	100	II							
25743.14	3883.429	100	I							
25743.91	3883.314	300	I					2		
25744.21	3883.268	100	I	8.0	7.0				12007-37751	
25744.44	3883.234	30	I	7.0	7.0				29878-	4134
25745.10	3883.133	10	I							
25745.55	3883.066	1000	II	3.5	3.5			3	36699-10953	
25747.39	3882.789	30	II							
25747.59	3882.758	10	II							
25749.86	3882.415	100	I					3		
25750.61	3882.302	10	I							
25751.00	3882.244	30	II							
25751.31	3882.197	100	I					A		
25751.94	3882.103	30	I							
25752.67	3881.993	1000	II					1		
25753.52	3881.864	3	I							
25754.53	3881.712	3	I							
25755.94	3881.500	300	II	8.5	7.5			2	30097-	4341
25756.52	3881.413	30	II							
25759.10	3881.023	10	II							
25759.62	3880.945	10	I							
25759.80	3880.918	30	II							
25760.37	3880.832	100	I					3		
25761.40	3880.677	0	I							
25761.62	3880.644	1	I							
25763.25	3880.399	1	II							
25765.19	3880.105	30	I							
25765.57	3880.049	3	II							
25766.85	3879.856	0								
25767.82	3879.710	30	I							
25768.39	3879.624	30	I							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
25770.41	3879.320	10	I	8.0	7.0				14625-40396
25770.78	3879.264	30	II						
25771.59	3879.142	100		9.0	9.0			4	9990-35762
25771.83	3879.106	1000	II	7.5	7.5	1.20	1.22		30112- 4341
25772.15	3879.058		B II						1
25772.15	3879.058	1000	B II						2
25774.53	3878.700	30	II						
25774.75	3878.666	100	I						2
25776.11	3878.462	30	I						
25776.45	3878.410	100	I						4
25776.82	2878.355	1	I						
25777.48	3878.255	1	I						
25777.80	3878.208	100	I						
25778.67	3878.077	30	I						
25778.00	3878.048	1	II						
25779.56	3877.943	300	II	5.5	5.5				3
25780.82	3877.753	10	II						
25781.57	3877.640	3	W I						
25782.12	3877.557	100	I						2
25782.49	3877.502	100	I						3
25783.67	3877.324	100	I	6.0	6.0				3 32834- 7050
25784.10	3877.261	100	I						A
25784.49	3877.202	3	I						
25785.94	3876.984	C	I						
25786.42	3876.911	30	I						
25786.83	3876.850	10	I						
25787.58	3876.737	30	I						
25788.51	3876.597	100	II						3
25788.60	3876.583	30	I						
25789.04	3876.518	100	II						
25789.51	3876.447	100	W I						
25790.39	3876.315	1	I						
25790.70	3876.260	3	I						
25791.46	3876.153	100	II						
25791.96	3876.079	30	I						
25793.32	3875.874	1	II						
25794.17	3875.746	30	I						
25794.70	3875.667	C	II						
25795.05	3875.614	30	II						
25796.24	3875.435	10	I						
25796.87	3875.341	10	II						
25797.33	3875.271	100	I	7.0	7.0				12655-38452
25797.95	3875.179	300	II	4.5	3.5			A	36751-10953
25798.60	3875.082	C	II						
25799.18	3874.993	300	I						2

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	CCC-EVEN	
25799.45	3874.952	3C	II							
25799.76	3874.907	1C	I							
25800.34	3874.820	1	I							
25801.11	3874.704	1C	II							
25801.39	3874.662	10C	I						3	
25801.80	3874.600	10C	II						4	
25802.53	3874.490	10C	I						3	
25803.40	3874.360	3C	II							
25803.66	3874.322	3C	II							
25803.95	3874.277	3	II							
25805.44	3874.053	10CC	I						4	
25805.89	3873.986	30CC	II	7.5	7.5	1.30	1.20	3	26634-	828
25807.94	3873.678	30	I							
25808.21	3873.637	3	I							
25808.89	3873.536	1C	II							
25809.22	3873.485	3C	I							
25810.48	3873.296	1	II							
25810.84	3873.243	1C	II							
25811.20	3873.189	1C	I							
25812.18	3873.043	3C	I							
25813.14	3872.899	3C	II							
25814.82	3872.645	30C B	II	5.5	5.5			3	33278-	7463
25814.82	3872.645	30C B	II	5.5	5.5			3	35685-	9870
25815.50	3872.544	3	I	7.0	7.0				29445-	4134
25816.41	3872.408	3C	II							
25817.22	3872.286	3C	II							
25817.99	3872.171	30C	I							
25818.41	3872.107	100CC R	II	8.5	8.5			3	25818-	0
25819.88	3871.887	30	II							
25820.32	3871.821	1	I							
25821.61	3871.628	10CC	II	5.5	6.5			1	33306-	7485
25822.47	3871.499	C								
25823.27	3871.379	3C	I							
25823.45	3871.352	1C	II							
25824.57	3871.183	1C	I							
25825.71	3871.013	30C	I						3	
25826.32	3870.921	3C	II							
25827.11	3870.803	3	I							
25827.59	3870.731	3	II							
25828.06	3870.660	30C	I						1	
25828.40	3870.610	3	I							
25829.03	3870.516	3C	I							
25829.91	3870.384	3C	II							
25831.01	3870.219	3	I							
25831.26	3870.181	3C	II							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS		
						G-C	G-E	TYPE	GCC-EVEN		
25831.92	3870.082	1C	II								
25833.38	3869.864	1000	II	7.5	8.5			2	25833-	0	
25834.10	3869.756	300	II	6.5	6.5			3	33319-	7485	
25834.72	3869.663	1000	I	8.0	8.0			3	12007-	37841	
25835.45	3869.554	100	II								
25835.96	3869.477	100	I								
25836.32	3869.424	1000	II	5.5	4.5			2	35268-	9432	
25836.78	3869.354	30	II	5.5	5.5				39175-	13338	
25838.23	3869.137	300	II					A			
25838.55	3869.089	100	I	5.0	6.0				32889-	7050	
25839.10	3869.006	10	I								
25840.43	3868.808	10000	R	I	8.0	8.0	1.36	1.30	3	7565-	33406
25842.37	3868.517	300	I						4		
25842.82	3868.450	1000	II	5.5	5.5				3	33306-	7463
25843.81	3868.301	10	I								
25844.10	3868.258	1		5.0	4.0					36769-	10925
25844.98	3868.127	1	I								
25845.51	3868.047	30	I								
25845.81	3868.002	100	I						4		
25846.80	3867.855	300	II						3		
25847.28	3867.782	100	I						2		
25848.60	3867.585	30	I								
25849.69	3867.422	100	I								
25850.02	3867.373	30	I								
25850.62	3867.283	30	I								
25850.83	3867.252	C	II								
25851.49	3867.153	30	II	4.5	3.5					36805-	10953
25852.27	3867.036	10	I								
25853.04	3866.920	1	II								
25855.32	3866.580	1000	II	6.5	5.5				2	33319-	7463
25856.63	3866.383	10	II								
25856.98	3866.332	10	I								
25857.41	3866.266	100	II	5.5	5.5				3	35728-	9870
25857.89	3866.196	3	II								
25858.32	3866.131	100	II						1		
25859.06	3866.021	30	II								
25859.66	3865.931	30	II								
25860.16	3865.857	30	I								
25862.66	3865.482	300	II	4.5	4.5				3	35294-	9432
25864.49	3865.209	3	II								
25865.78	3865.016	100	II						4		
25866.28	3864.941	300	I						3		
25866.78	3864.867	100	II								
25867.42	3864.771	300	II	8.5	7.5				1	26695-	828
25869.36	3864.481	10	I								

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
25869.54	3864.455	1	I						
25870.26	3864.346	1	II						
25870.58	3864.299	3C	I						
25872.13	3864.067	3C	I						
25872.36	3864.033	3C	II						
25872.74	3863.976	10C	I						
25873.42	3863.875	1C W	I						
25873.53	3863.859	1C	I						
25873.85	3863.810	3C	I						
25874.48	3863.716	10C	I					3	
25875.40	3863.566	1	I						
25875.93	3863.501	10C	II					2	
25877.24	3863.304	3	II						
25877.64	3863.245	30C	II					3	
25878.11	3863.174	3	I						
25878.44	3863.126	1C	II						
25879.26	3862.003	3	I						
25879.46	3862.972	3	II						
25879.79	3862.923	1C	I						
25880.13	3862.872	3C	I						
25880.75	3862.780	1C	II						
25881.09	3862.730	3C	II						
25881.29	3862.701	30C	I	6.0	6.0			P	10088-35970
25881.96	3862.600	3C	I						
25882.76	3862.481	1C	I						
25883.23	3862.410	1	II						
25883.88	3862.314	1	II						
25884.67	3862.196	1	I						
25885.66	3862.048	10C	I						
25887.20	3861.818	10C	I						
25888.29	3861.655	10C	I					1	
25888.48	3861.627	3C	II						
25890.65	3861.304	10C	I					2	
25892.09	3861.089	1C	II						
25893.02	3860.949	1C	II						
25893.80	3860.834	1C	II						
25894.15	3860.782	10C	I					3	
25894.53	3860.724	C	I						
25894.98	3860.657	30C	I					1	
25895.62	3860.563	1C	II						
25896.31	3860.459	1C	I	7.0	8.0				12655-38551
25896.54	3860.425	1C	II						
25898.46	3860.139	3C	I						
25899.14	3860.038	3C	II						
25900.38	3859.852	30C	II						

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WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA		LEVELS	
				J-C	J-E	G-C	G-E
25901.01	3859.759	10	II				
25901.30	3859.715	30	I				
25901.53	3859.681	3	II				
25902.02	3859.609	300	II				
25902.62	3859.519	10	I				
25903.90	3859.328	10	B I				
25903.90	3859.328	30	B II				
25904.49	3859.240	300	II				
25904.94	3859.173	30	I				
25905.36	3859.110	10	II				
25906.29	3858.973	10	II				
25906.67	3858.915	1	II				
25907.60	3858.777	3	II				
25908.36	3858.664	30	II				
25909.31	3858.522	1	I				
25910.10	3858.404	1000	R I	8.0	7.0	2	7565-33475
25912.12	3858.104	300	II			2	
25912.12	3858.104	300	II			2	
25912.82	3857.999	100	I				
25913.95	3857.831	10	I				
25915.03	3857.671	0	II				
25916.21	3857.496	100	II				
25916.65	3857.429	100	I				
25917.37	3857.322	100	I				
25917.76	3857.265	3	I				
25918.35	3857.177	30	II				
25918.48	3857.156	30	I				
25919.79	3856.962	10	II				
25920.26	3856.893	100	I	6.0	6.0	3	32970- 7050
25921.59	3856.695	30	I				
25922.52	3856.556	10	I				
25922.82	3856.512	10	II				
25923.72	3856.377	300	I			4	
25924.06	3856.328	30	II				
25924.53	3856.257	1	II				
25925.17	3856.163	10	II				
25925.65	3856.090	30	II				
25926.51	3855.962	100	I			2	
25927.74	3855.779	10	II				
25928.71	3855.636	300	II			3	
25928.84	3855.616	1	II				
25929.36	3855.538	3	II				
25930.01	3855.442	100	I				
25930.38	3855.387	30	II				
25931.50	3855.220	100	I			A	

TABLE

BY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	OCC-EVEN	
25932.23	3855.112	C	II							
25932.51	3855.071	I	I							
25932.82	3855.024	30	I							
25933.42	3854.935	300	II	3.5	4.5				2	
25934.38	3854.792	100	I	6.0	7.0					11673-37607
25934.98	3854.703	30	I							
25935.77	3854.585	C	II							
25936.87	3854.422	30	I							
25937.16	3854.379	100	I						3	
25937.49	3854.330	I	I							
25938.12	3854.237	10	II							
25939.09	3854.093	I	II							
25939.71	3854.000	I	I							
25940.11	3853.940	10	II							
25940.80	3853.838	30	I							
25942.66	3853.562	10	I							
25943.18	3853.485	I	I							
25943.41	3853.451	10	I							
25943.75	3853.400	30	I							
25944.40	3853.303	I	I							
25945.15	3853.192	10	I							
25946.26	3853.027	3000	II	6.5	7.5				4	30287- 4341
25947.75	3852.806	300	I	9.0	8.0				1	9990-35938
25948.28	3852.727	100	I							
25949.37	3852.565	300	I	9.0	9.0	1.32	1.32		4	9990-35940
25949.92	3852.484	10	II							
25950.22	3852.439	10	I							
25950.78	3852.356	3	I							
25950.96	3852.330	10	I							
25952.79	3852.058	100	II							
25955.08	3851.718	100	I						2	
25955.46	3851.662	10	II							
25955.77	3851.616	30	II	3.5	4.5					35387- 9432
25956.23	3851.548	I	II							
25957.09	3851.419	I	II							
25958.52	3851.208	10	I							
25958.92	3851.148	30	II							
25959.41	3851.075	10	I							
25959.75	3851.026	3	I							
25960.59	3850.901	I	I							
25960.90	3850.854	100	I						1	
25961.20	3850.810	10	I							
25961.90	3850.706	10	II							
25962.16	3850.668	30	II							
25962.54	3850.611	100	II	5.5	6.5					30718- 4755

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
25963.19	3850.515	300	II	4.5	5.5			2	39301-13338
25963.83	3850.420	300	II	3.5	4.5				37764-11801
25964.55	3850.312	30	II	4.5	4.5				40091-14126
25965.42	3850.185	10	I						
25965.71	3850.141	3	I						
25966.42	3850.036	300	II					1	
25968.92	3849.666	100	I					4	
25970.79	3849.388	1000	II	4.5	5.5			1	35841- 9870
25971.30	3849.313	10	II						
25972.15	3849.186	10	I						
25973.10	3849.046	100	I					2	
25973.68	3848.960	30	I						
25974.07	3848.901	0	I						
25974.65	3848.817	10	II	6.5	5.5				33438- 7463
25975.04	3848.758	100	I	5.0	6.0			2	33025- 7050
25975.22	3848.732	30	II						
25975.36	3848.710	30	I						
25976.00	3848.615	10	II						
25976.44	3848.550	100	II						
25977.47	3848.398	300	I					3	
25977.75	3848.356	10	I						
25978.38	3848.264	1	II						
25980.27	3847.983	10	I						
25980.52	3847.946	30	II						
25980.83	3847.900	10	II						
25981.57	3847.790	30	II	5.5	6.5				33466- 7485
25982.15	3847.704	30	I						
25983.39	3847.521	10	II						
25983.68	3847.479	1	II						
25984.40	3847.372	1	I						
25984.88	3847.300	3	II						
25985.22	3847.251	0	II						
25985.67	3847.184	300	I					3	
25986.76	3847.022	1000	R I	8.0	7.0			2	7565-33552
25988.18	3846.813	100	II						
25988.61	3846.748	30	II						
25990.03	3846.538	10	II						
25990.32	3846.495	30	II						
25991.35	3846.342	1000	II	7.5	6.5	1.32	1.13	2	30747- 4755
25992.25	3846.209	100	I						
25992.54	3846.167	300	I						
25992.73	3846.139	100	I						
25993.30	3846.054	30	II						
25993.79	3845.981	10	II						
25994.64	3845.856	3	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
25996.05	3845.647	100	II						
25997.13	3845.488	10	I						
25997.49	3845.434	10	W II						
25998.23	3845.325	30	II						
25999.10	3845.196	100	II					3	
25999.68	3845.110	30	II						
26000.27	3845.024	100	I					3	
26001.98	3844.771	100	I						
26002.09	3844.838	30	I	5.5	5.5				33466- 7463
26003.82	3844.499	10	I						
26004.23	3844.438	10	II						
26004.73	3844.363	1000	R I	6.0	6.0	1.35	1.29	3	10088-36093
26005.36	3844.270	100	I					3	
26006.74	3844.067	10	I						
26007.08	3844.017	3	II						
26007.96	3843.886	10	II						
26008.23	3843.846	30	I						
26009.08	3843.721	100	I	7.0	8.0			4	15194-41203
26010.43	3843.521	10	I						
26010.63	3843.492	10	I						
26011.31	3843.392	1	II						
26012.37	3843.235	3	II						
26013.03	3843.137	0	II						
26013.67	3843.042	300	I					3	
26014.57	3842.909	1	II						
26014.57	3842.909	1	II						
26014.93	3842.856	3	I						
26015.13	3842.827	3	I						
26016.11	3842.682	30	I						
26016.56	3842.616	3	II						
26016.75	3842.587	10	I	5.0	4.0				36942-10925
26017.74	3842.442	300	I					3	
26018.39	3842.345	300	I					2	
26019.41	3842.195	300	II					1	
26020.70	3842.004	1000		6.5	7.5	1.19	1.22	2	30361- 4341
26021.41	3841.900	10	II						
26022.18	3841.786	300		5.5	6.5			4	33507- 7485
26023.02	3841.662	100	II						
26024.33	3841.469	0	II						
26025.41	3841.310	3000	II					1	
26026.60	3841.133	100	II						
26027.93	3840.937	100	II						
26028.22	3840.894	1000	R I	7.0	7.0			2	14367-40396
26028.91	3840.793	100	II						
26029.66	3840.682	30	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
26029.86	3840.652	1	II							
26030.64	3840.537	300	I	6.0	7.0			1	10088-36119	
26031.92	3840.348	3	I							
26032.34	3840.287	10	II							
26033.10	3840.174	10	II							
26033.97	3840.046	100	I					1		
26035.08	3839.882	100	I							
26035.62	3839.803	300	I					3		
26036.21	3839.715	10	II							
26037.27	3839.560	100	II							
26037.72	3839.493	30	I							
26038.45	3839.385	100	II	3.5	4.5	0.76	0.76	4	37839-11801	
26038.69	3839.349	3	II							
26040.11	3839.140	1	II							
26040.65	3839.061	10	I							
26040.95	3839.017	10	II							
26042.00	3838.862	1	II							
26042.36	3838.808	30	I							
26043.15	3838.692	30	I							
26043.39	3838.658	1000	II	5.5	5.5			3	33507- 7463	
26043.91	3838.580	3	II							
26044.36	3838.513	10	II							
26044.81	3838.448	10	I							
26045.59	3838.333	30	II							
26046.65	3838.177	10	II							
26047.13	3838.105	10	II							
26047.48	3838.054	100	I							
26047.74	3838.016	10	I							
26047.97	3837.981	100	I							
26048.24	3837.943	30	I							
26048.55	3837.897	10	I							
26049.00	3837.831	10	II							
26049.24	3837.795	100	II							
26050.37	3837.628	3	I							
26051.27	3837.496	3	I							
26051.79	3837.419	0								
26052.18	3837.361	100	I	5.0	6.0				33102- 7050	
26052.88	3837.259	30	I							
26053.11	3837.225	30	I							
26053.50	3837.160	3	II							
26054.42	3837.032	30	I							
26055.17	3836.922	3	I							
26055.62	3836.855	100	I							
26056.08	3836.787	30	II							
26056.31	3836.753	100	II							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
26056.77	3836.686	100	I						
26057.43	3836.589	10	I						
26058.00	3836.504	3000	II	7.5	7.5	1.20	1.22	3	30399- 4341
26059.87	3836.229	300	I					2	
26060.60	3836.122	30	I						
26061.45	3835.997	30	I						
26061.59	3835.976	30	II						
26062.14	3835.895	10	I						
26062.46	3835.848	100	I						
26062.57	3835.832	100	II						
26063.68	3835.669	3	II						
26064.21	3835.590	100	I						
26064.86	3835.495	30	II						
26065.16	3835.450	10	II						
26065.84	3835.350	30	II						
26066.21	3835.296	10	II						
26066.76	3835.216	3	II						
26067.10	3835.165	1	II						
26067.42	3835.118	1	I						
26067.69	3835.078	3	II						
26068.17	3835.008	100	II						
26068.88	3834.903	3	I						
26069.23	3834.852	1	I						
26069.75	3834.775	0	I						
26070.03	3834.734	1	II						
26070.99	3834.592	100	I					3	
26071.28	3834.550	10	I						
26071.66	3834.495	10	I						
26072.00	3834.444	30	I						
26072.23	3834.411	100	I						
26074.27	3834.110	30	II						
26074.67	3834.052	30	I						
26075.61	3833.913	30	II						
26076.03	3833.852	100	I						
26076.31	3833.811	1	I						
26077.07	3833.698	100	I					2	
26077.93	3833.573	100	II	5.5	5.5				39416-13338
26078.42	3833.500	10	II						
26078.79	3833.447	3	I						
26079.12	3833.397	3	II						
26079.34	3833.365	0	I						
26079.68	3833.316	10	I						
26080.41	3833.208	100	I						
26080.70	3833.166	1	II						
26081.02	3833.118	3	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C		ZEEMAN DATA			LEVELS
				J-E	G-C	G-E	TYPE	ODD-EVEN	
26081.60	3833.033	1CC	I						
26081.88	3832.992	1C	II						
26082.61	3832.885	30C	II	3.5	3.5			3 37036-10953	
26083.49	3832.755	30	I						
26084.46	3832.613	1C	I						
26085.24	3832.498	30	I						
26085.67	3832.435	1C	I						
26087.70	3832.136	1C	I						
26088.14	3832.072	10	II						
26088.61	3832.002	30	I	5.0	6.0			33139- 7050	
26088.94	3831.954	10	I						
26089.57	3831.862	10	I						
26089.89	3831.816	3	II						
26090.10	3831.784	30	II						
26090.44	3831.734	3	I						
26090.58	3831.714	3	I	6.0	7.0			30224- 4134	
26091.08	3831.641	100C	II					3	
26091.19	3831.624	300	II					2	
26091.75	3831.542	30	II						
26092.43	3831.442	3	I						
26094.08	3831.199	10	I	4.5	4.5			37895-11801	
26094.93	3831.076	300	II					1	
26095.41	3831.004	3 Q	I						
26096.35	3830.867	0	I						
26096.61	3830.829	10	I						
26097.05	3830.764	30	II						
26097.31	3830.726	3C W	I						
26098.52	3830.548	100	I						
26098.89	3830.494	30	II						
26099.78	3830.364	10	II						
26100.35	3830.279	1	II						
26100.77	3830.217	10	I						
26101.39	3830.126	30 W	I						
26102.18	3830.011	30	II						
26102.65	3829.942	3	I						
26102.92	3829.902	1CC	I						
26103.24	3829.856	3C	I						
26103.76	3829.779	1000	I					1	
26104.57	3829.660	3	II						
26105.13	3829.576	1CC	I						
26105.30	3829.553	1CC	II						
26106.42	3829.389	10C	I						
26107.02	3829.300	30	II						
26107.38	3829.249	1CC	I						
26108.16	3829.134	10C	I						

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
26109.71	3828.906	3	II						
26110.49	3828.792	3C	I						
26112.60	3828.482	300	II	4.5	3.5				37066-10953
26112.96	3828.430	1C	II						
26113.56	3828.342	1C	I						
26114.01	3828.276	1C	I						
26114.28	3828.236	30C	I						2
26116.70	3827.881	1C	II						
26116.99	3827.840	30C	I						3
26117.51	3827.764	30	II	6.5	6.5				33602- 7485
26118.02	3827.688	3C	I						
26118.45	3827.625	1C	II						
26118.71	3827.587	1C	II						
26119.37	3827.490	1C	II						
26120.23	3827.364	3	II						
26120.35	3827.346	1C	II						
26120.80	3827.280	3C	II						
26121.50	3827.178	1C	I						
26122.10	3827.091	30C	I						1
26123.68	3826.859	1C	I						
26124.57	3826.728	100	I			0.180	1.033		1
26125.87	3826.538	3C	II						
26126.54	3826.440	1C	I						
26127.08	3826.361	1C	I						
26127.31	3826.327	1C	I						
26127.76	3826.261	1C	I						
26128.80	3826.109	3C	I						
26129.11	3826.063	1C	I						
26129.88	3825.951	30C	II			0.226	1.266		3
26130.28	3825.892	1C	II	4.5	5.5				36001- 9870
26131.33	3825.738	30C	I						3
26131.72	3825.680	30C	II	6.5	6.5				3 33616- 7485
26132.01	3825.639	1000	I			0.221	1.028		1
26132.54	3825.561	3							
26133.22	3825.462	30C	I			0.042	1.169		1
26133.51	3825.420	30	I						
26133.72	3825.389	1C	II						
26134.59	3825.261	3	II						
26135.01	3825.200	1C	II						
26135.27	3825.162	30	II						
26136.19	3825.027	3C	II						
26136.49	3824.982	1C	I						
26137.68	3824.810	1C	II						
26139.13	3824.597	1C	II						
26141.70	3824.221	3C	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
26143.10	3824.016	300	I	10.0	9.0	1.30	1.26	2	12892-39035
26143.39	3823.973	300	I					3	
26144.55	3823.804	30	II						
26145.01	3823.736	30	II						
26146.30	3823.548	30	II						
26147.62	3823.356	100	I						
26148.84	3823.177	10	II						
26150.13	3822.988	300	I						
26150.79	3822.892	10	I						
26151.50	3822.787	100	II						
26152.92	3822.580	300	II	6.5	5.5	1.260	1.017	2	33616- 7463
26153.45	3822.503	3	II						
26154.30	3822.379	100	I	5.0	5.0			3	35365- 9211
26156.01	3822.128	30	I						
26156.64	3822.037	10	II						
26157.42	3821.923	30	I	4.5	4.5				37958-11801
26157.72	3821.879	1000 R	I	7.0	8.0	1.33	1.24	1	8519-34676
26158.56	3821.756	10	II						
26159.42	3821.630	10	II						
26160.54	3821.467	1000 R	I	7.0	6.0	1.336	1.488	1	8519-34679
26161.10	3821.384	3	II						
26161.78	3821.285	10	I						
26162.61	3821.164	3	I						
26163.54	3821.029	100 W	I	3.0	3.0	0.6 =	0.410	3	
26163.88	3820.979	10	II						
26165.44	3820.751	30	I						
26165.73	3820.708	100	I						
26166.06	3820.660	30	I						
26166.56	3820.587	10	I						
26168.48	3820.307	3	I						
26168.61	3820.288	30	I						
26169.56	3820.149	0	I						
26170.62	3819.995	30	II						
26171.34	3819.890	300	I	9.0	9.0			1	14512-40683
26172.23	3819.759	3	II						
26172.79	3819.678	10	II						
26173.79	3819.532	30	I						
26174.07	3819.490	100	I						
26174.41	3819.442	300	I			0.341	1.709	2	
26175.69	3819.254	3	I						
26176.21	3819.178	100	II						
26176.49	3819.137	100	I						
26176.90	3819.078	30	I						
26177.88	3818.936	100	I						
26178.22	3818.886	100	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS CCC-EVEN
						G-C	G-E	TYPE	
26179.12	3818.754	300	II						4
26179.68	3818.673	0							
26180.20	3818.596	10	I						
26180.39	3818.569	10	II						
26180.94	3818.488	10							
26181.21	3818.449	10	I						
26181.69	3818.379	100	I						
26182.23	3818.301	100	II						
26182.57	3818.250	30	I						
26184.25	3818.006	10	I						
26184.37	3817.988	10	II						
26185.56	3817.815	3	I						
26186.05	3817.744	100	II	5.5	5.5			3	36057- 9870
26186.46	3817.683	30	II						
26187.50	3817.532	1000 R	I	8.0	8.0	1.36	1.31	3	7565-33753
26188.15	3817.438	300	II			0.120	1.071	3	
26188.67	3817.361	100	II						
26189.12	3817.296	30	II						
26190.77	3817.056	10	I						
26191.15	3817.000	30	I						
26191.63	3816.931	30	I						
26192.78	3816.762	3000	II	5.5	6.5	1.133	1.133	4	33677- 7485
26193.62	3816.640	30	I						
26195.84	3816.317	30	I						
26196.55	3816.214	1000 R	I	9.0	9.0	1.24	1.25	3	13495-39692
26197.45	3816.082	300	I			0.192		2	
26197.98	3816.005	30	II						
26198.84	3815.880	100	I						
26201.23	3815.531	30	I						
26201.87	3815.430	30	I						
26202.22	3815.388	30	I						
26203.10	3815.260	30	I						
26203.27	3815.235	100	I						
26204.54	3815.050	30	II						
26205.12	3814.965	3	II						
26205.57	3814.899	1	II						
26205.92	3814.848	1	I						
26206.42	3814.776	3	I						
26206.82	3814.719	0	I						
26207.19	3814.664	100	II						
26207.68	3814.592	300	I	8.0	8.0				14625-40833
26208.20	3814.517	30	I						
26208.55	3814.467	3	I						
26209.05	3814.393	3 W	I						
26209.63	3814.308	0	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-G	G-E	TYPE	OCC-EVEN
26209.89	3814.271	100	II						
26210.37	3814.200	3	I						
26210.83	3814.134	30		5.5	5.5				39549-13338
26211.09	3814.096	30	II						
26211.44	3814.046	10	I						
26213.24	3813.784	30	I						
26214.00	3813.672	1000	II	5.5	5.5	1.14	1.02	3	33677- 7463
26214.80	3813.557	10	I	7.0	8.0				12655-38870
26215.23	3813.493	100	II						
26216.04	3813.376	100	II						
26216.79	3813.268	300	II						
26217.91	3813.105	1000	II	6.5	6.5	1.14	1.13	3	30973- 4755
26218.31	3813.046	30	I						
26219.31	3812.901	10	II						
26219.93	3812.811	30	I						
26222.34	3812.460	3	II						
26222.49	3812.439	10	II						
26222.98	3812.367	10	II						
26223.62	3812.274	1000 R	I	7.0	7.0	1.33	1.34	3	8519-34742
26224.12	3812.201	100	I						
26224.73	3812.112	30 W	I						
26225.98	3811.931	30	I						
26227.83	3811.662	100	I						
26228.44	3811.574	30	II						
26229.56	3811.411	300	I			0.109	1.102	1	
26230.53	3811.270	30	II						
26232.87	3810.930	10	II						
26233.34	3810.861	300	I			0.158	1.456	2	
26233.99	3810.766	10	I						
26234.69	3810.665	10	II						
26235.07	3810.611	100	II						
26236.68	3810.377	30	II						
26237.25	3810.293	300	II	4.5	5.5	1.05	0.99	1	33701- 7463
26238.27	3810.145	10	I						
26238.47	3810.116	10	I						
26239.48	3809.969	300	II						
26240.50	3809.822	1000 R	I	8.0	7.0	1.362	1.209	2	7565-33806
26241.03	3809.744	300	II						
26242.06	3809.595	3	I						
26242.58	3809.520	1	I						
26242.92	3809.470	300	II					4	
26243.45	3809.393	3	I						
26244.75	3809.205	30	II						
26245.33	3809.120	100	I						
26245.76	3809.058	300	I	8.0	8.0			3	14625-40871

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
26246.02	3809.020	1000	II	3.5	3.5	1.088	0.472	3	37199-10953
26247.47	3808.810	100	I						
26247.84	3808.756	300	I						
26249.63	3808.496	100	I						
26250.18	3808.417	1	I						
26250.57	3808.359	0	I						
26251.96	3808.158	0	II						
26252.93	3808.018	300 W	I						
26253.76	3807.897	300	I	5.5	4.5	1.230	0.829		35685- 9432
26254.11	3807.846	30	I						
26255.25	3807.681	10	II						
26255.53	3807.641	10	I						
26256.02	3807.570	30	I						
26256.22	3807.541	100	I						A
26256.68	3807.474	300	I						A
26257.17	3807.403	300	I	8.0	7.0				A 12007-38264
26257.83	3807.306	3	II						
26258.15	3807.261	1	I						
26258.36	3807.230	100	II						
26258.81	3807.165	3	I						
26259.53	3807.060	10	I						
26260.53	3806.916	30	I						
26260.91	3806.860	10	I	7.0	6.0				33311- 7050
26261.22	3806.816	1	I						
26261.58	3806.764	30	I						
26262.04	3806.697	10	II	8.5	7.5				27090- 828
26262.49	3806.632	30	I						
26263.79	3806.443	10	I						
26264.26	3806.375	10	I						
26264.98	3806.271	1000	II			0.146	1.359	3	
26265.56	3806.186	10	I						
26266.40	3806.065	30	I						
26267.76	3805.867	30	I						
26268.01	3805.832	300	I	6.0	6.0	0.0	0.24	3	
26269.35	3805.638	10	II						
26270.93	3805.409	3	II						
26271.53	3805.322	300	I			1.28	1.28	4	
26272.62	3805.163	30	I						
26273.63	3805.018	30	I						
26274.14	3804.943	0	I						
26274.49	3804.892	30 W	I						
26275.13	3804.800	100	II	4.5	3.5				37229-10953
26275.35	3804.769	10	I						
26275.87	3804.693	0	I						
26276.28	3804.634	300	I			0.103	1.356	3	

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
26276.80	3804.558	10	I						
26277.30	3804.486	10	II						
26277.60	3804.442	100	I						
26278.22	3804.352	1000 R	I	8.0	9.0	1.27	1.25	1	12007-38285
26279.13	3804.221	3	II						
26279.68	3804.142	1000	II			0.195	1.053	2	
26281.04	3803.944	300	II					1	
26281.71	3803.847	10	II						
26282.75	3803.697	300						3	
26283.17	3803.637	3	I						
26283.77	3803.549	300	I					3	
26284.96	3803.377	10	I						
26285.57	3803.289	10	I						
26286.16	3803.204	30	II						
26286.37	3803.173	10	I						
26287.24	3803.047	1	I						
26287.87	3802.956	30	I						
26288.66	3802.842	10	II						
26289.69	3802.693	100	II						
26291.24	3802.469	10	I						
26292.33	3802.310	30	I	5.0	6.0				33342- 7050
26292.33	3802.310	30	I	6.0	7.0				30426- 4134
26293.12	3802.196	10	II						
26294.99	3801.926	300	II					2	
26295.77	3801.814	3	I						
26296.01	3801.779	30	I						
26296.29	3801.738	3	II						
26296.69	3801.680	3	II						
26297.09	3801.622	0	I						
26297.45	3801.571	300	I			0.172	1.522	2	
26298.33	3801.444	30	I						
26298.84	3801.369	300	I			0.114	1.403	2	
26299.60	3801.260	10	I						
26300.16	3801.179	100	I			0.282	1.364	3	
26300.57	3801.120	10	I						
26301.51	3800.984	1	I						
26301.92	3800.925	1	II						
26302.25	3800.877	3	II						
26302.87	3800.787	0	II						
26303.34	3800.719	1	I						
26303.69	3800.670	30	I						
26304.02	3800.621	30	I						
26304.43	3800.562	10	II						
26305.14	3800.460	10	I						
26305.53	3800.404	100	I						

TABLE

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WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA					LEVELS	
				J-C	J-E	G-C	G-E	TYPE	ODD-EVEN	
26306.51	3800.262	300	I	6.C	7.0	1.391	1.191	1	11673-37980	
26307.06	3800.182	30	II							
26307.77	3800.080	30	I							
26308.19	3800.018	100	I							
26308.99	3799.903	300	I	7.C	7.0	1.26	1.27	3	15194-41503	
26309.60	3799.815	10	II							
26310.14	3799.738	10	I							
26310.72	3799.652	1	II							
26311.33	3799.564	30	II							
26312.63	3799.378	10	I							
26313.09	3799.310	30	I							
26314.09	3799.166	0	II							
26314.79	3799.065	30	I							
26315.15	3799.014	300	II					3		
26315.93	3798.902	10	I							
26316.29	3798.849	10	II							
26316.73	3798.786	1	II							
26317.10	3798.733	300	I	9.C	8.0			2	9996-36308	
26317.36	3798.694	30	II							
26317.74	3798.640	1	I							
26318.24	3798.567	100	I	7.C	8.0				12655-38973	
26319.70	3798.357	100	I							
26320.01	3798.312	100	II							
26320.36	3798.262	10	II							
26321.22	3798.137	100	I							
26321.52	3798.094	30	I							
26321.74	3798.062	0	I							
26322.58	3797.942	30	W II							
26323.90	3797.750	300	R I	7.C	7.0	1.34	1.29	3	8519-34843	
26324.55	3797.657	30	II							
26324.84	3797.615	10	II							
26325.63	3797.502	3	II							
26326.80	3797.332	100	I							
26327.57	3797.221	10	I							
26328.41	3797.101	3	I							
26328.73	3797.054	3	I							
26329.39	3796.958	30	I							
26329.79	3796.901	30	I							
26330.38	3796.817	300	I					3		
26330.68	3796.773	10	II							
26330.98	3796.729	3	II							
26331.98	3796.585	3	II							
26332.57	3796.500	10	II	3.5	4.5				35764- 9432	
26332.57	3796.500	10	II	6.5	6.5				33817- 7485	
26332.76	3796.472	30	II							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	CCC-EVEN	
26333.29	3796.396	10	II							
26333.94	3796.303	10	II							
26335.01	3796.148	3	II							
26335.71	3796.048	30	II							
26336.12	3795.989	30	I							
26336.26	3795.968	100	II	8.5	8.5				26336-	0
26337.42	3795.801	30	I							
26338.00	3795.718	100	I							
26338.30	3795.675	30	I							
26338.81	3795.601	3	I							
26339.40	3795.516	10	I							
26340.01	3795.428	100	II							
26340.38	3795.375	1	II							
26341.04	3795.279	1	II							
26341.70	3795.184	30 W	I							
26341.79	3795.171	3	I							
26343.08	3794.985	100	I							1
26345.04	3794.703	10	I							3
26345.50	3794.637	100	I							
26345.67	3794.613	3	I							
26346.63	3794.475	3	I							
26347.19	3794.393	10	I							
26347.68	3794.323	10	II							
26348.38	3794.222	300	II							3
26349.14	3794.113	30	I	8.0	8.0					12007-38356
26349.43	3794.072	10 W	I							
26350.20	3793.960	10	I							
26350.79	3793.875	100	II							
26351.10	3793.830	0	I							
26351.62	3793.755	10	II							
26352.06	3793.693	30	I							
26353.31	3793.513	300	II	4.5	5.5				A	39691-13338
26353.74	3793.450	30	II	6.5	5.5					33817- 7463
26354.46	3793.348	3	II							
26354.97	3793.273	100	II							
26355.57	3793.186	100	II							
26356.14	3793.106	10	II							
26357.02	3792.978	3	I							
26358.14	3792.818	30	II							
26358.73	3792.732	1	II							
26359.20	3792.665	100	I							1
26359.89	3792.566	30	I							
26361.28	3792.366	300	I							2
26361.53	3792.330	10	II							
26363.18	3792.092	100	II							

TABLE

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
26364.13	3791.956	1C	I							
26364.72	3791.871	3000	II	6.5	7.5			1	27193-	828
26365.53	3791.754	3C	II							
26366.26	3791.649	3C	II							
26366.99	3791.543	10C	II							
26367.56	3791.462	1	I							
26368.06	3791.390	3	I							
26368.69	3791.299	3	I							
26369.82	3791.137	1C	I							
26370.16	3791.089	10C W	I							
26370.60	3791.025	1C	I							
26371.00	3790.968	1C	II							
26372.10	3790.809	10C	I							
26373.22	3790.649	1C	II							
26373.94	3790.545	3C	I							
26374.23	3790.504	0	II							
26374.42	3790.477	3C	I							
26374.95	3790.400	10C	I						3	
26375.61	3790.305	1C	I							
26376.16	3790.226	3C	I							
26376.38	3790.194	10C	I							
26377.33	3790.058	10C W	II						A	
26377.70	3790.005	1C	I							
26377.98	3789.964	C	II							
26378.47	3789.894	10C	II							
26378.78	3789.850	1C	I							
26380.28	3789.633	3C	I							
26380.62	3789.586	10C	I							
26380.91	3789.543	1C	I							
26381.10	3789.516	3C	I							
26381.34	3789.481	3C	II							
26382.13	3789.368	3	I							
26382.78	3789.275	1C	II							
26383.10	3789.230	1	II							
26383.33	3789.197	3C	I							
26384.26	3789.062	3	I							
26384.81	3788.984	1	II							
26385.69	3788.858	1	II							
26386.27	3788.773	3	I							
26386.68	3788.715	1C	II							
26387.50	3788.598	0	II							
26388.62	3788.436	3000 R	II	7.5	7.5	1.30	1.20	3	27216-	828
26389.02	3788.379	300	I							
26389.74	3788.276	300	II	4.5	5.5				36260-	9870
26390.41	3788.180	3	I							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	CCC-EVEN	
26420.70	3783.836	30	I							
26421.14	3783.774	10	I							
26421.98	3783.652	100	II							
26422.39	3783.595	300	II							
26423.01	3783.505	30	I							
26423.70	3783.406	3	II							
26424.18	3783.338	3	I							
26426.49	3783.012	30	I							
26426.65	3782.984	3	I							
26427.44	3782.871	1000	II	6.5	6.5			3	31183-	4755
26427.92	3782.802	1	I							
26428.05	3782.784	3	I							
26428.40	3782.734	100	W II							
26429.06	3782.640	1	II							
26429.48	3782.580	100	I							
26431.34	3782.312	3	II							
26431.83	3782.243	10	I	7.0	7.0				30566-	4134
26432.10	3782.204	10	I							
26432.45	3782.154	100	II							
26432.83	3782.100	10	II							
26433.94	3781.940	10	I							
26434.10	3781.918	3	I							
26434.59	3781.848	30	I							
26435.69	3781.691	30	I							
26436.38	3781.592	30	I							
26437.25	3781.468	1000	R I	8.0	9.0	1.28	1.28	4	12007-	38444
26438.21	3781.330	1	I							
26438.81	3781.245	3	I							
26439.25	3781.181	100	I							
26440.04	3781.069	100	I							
26440.27	3781.035	10	II							
26440.92	3780.943	300	R I	7.0	8.0			1	12655-	39096
26441.60	3780.845	30	I							
26442.34	3780.740	30	I							
26442.69	3780.690	3	II							
26443.55	3780.567	0	II							
26444.67	3780.406	3	II							
26445.04	3780.353	30	I							
26445.36	3780.308	300	R I	8.0	7.0	1.28	1.25	2	12007-	38452
26445.91	3780.229	30	W I							
26446.66	3780.122	3	II							
26446.94	3780.082	30	I							
26447.35	3780.024	10	I							
26448.15	3779.909	30	I							
26449.05	3779.780	3	I							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
26449.82	3779.671	300	I						4
26450.16	3779.621	10	I						
26450.53	3779.569	100	II						
26451.17	3779.477	100	I						
26452.89	3779.232	300	II	5.5	5.5				3
26454.29	3779.032	300	II	3.5	4.5				1 38255-11801
26455.09	3778.917	10	I						
26456.31	3778.743	100	I						
26456.86	3778.665	1	II						
26457.93	3778.511	30	I						
26458.37	3778.454	100	I						
26458.53	3778.426	30	I						
26458.85	3778.380	100	I						
26460.20	3778.188	100	I						
26460.36	3778.164	30	II						
26460.94	3778.082	10	I						
26461.45	3778.009	300	II						3
26461.56	3777.993	100	II						
26462.09	3777.918	30	I						
26462.73	3777.827	10	I						
26463.78	3777.676	10	II						
26464.32	3777.599	30	I						
26464.65	3777.553	30	II						
26465.08	3777.491	300	II						4
26465.48	3777.435	1000 R	I	7.0	8.0	1.26	1.26		4 14367-40833
26466.07	3777.349	C	II						
26466.75	3777.253	10	II						
26467.18	3777.191	100	II						
26467.71	3777.115	3	II						
26469.07	3776.921	300	II	4.5	5.5				1 36340- 9870
26470.53	3776.713	10	I						
26471.13	3776.628	30	I						
26471.48	3776.577	10	I						
26472.56	3776.424	10	II						
26473.24	3776.327	3	II						
26474.19	3776.191	30	I						
26475.12	3776.058	3	I						
26475.31	3776.030	30	II						
26475.97	3775.937	10	I						
26476.31	3775.888	3	II						
26476.67	3775.838	30	II						
26479.03	3775.501	10	I						
26479.88	3775.380	10	I						
26480.16	3775.340	30	I						
26481.28	3775.179	100	II						

TABLE

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	CCC-EVEN	
26482.19	3775.050	10	W	I						
26482.74	3774.972	10		I						
26482.98	3774.937	10		II						
26483.64	3774.843	300		II				2		
26484.55	3774.714	1000	R	I	7.0	7.0	1.23	1.31	3	8519-35003
26484.99	3774.652	100		I						
26485.68	3774.553	30		I						
26486.37	3774.455	3		II						
26487.25	3774.330	3		II						
26488.21	3774.193	100		I						
26489.44	3774.017	30		II						
26489.85	3773.958	30		I						
26490.11	3773.921	30		I						
26491.20	3773.766	300		I					3	
26492.53	3773.577	3		II						
26492.86	3773.530	10		I						
26493.88	3773.385	100		I						
26494.00	3773.367	30		I						
26494.43	3773.307	300		II					3	
26494.54	3773.291	100		II					2	
26495.29	3773.189	0		I						
26496.21	3773.053	3000	R	I	9.0	9.0			3	9990-36487
26496.77	3772.973	1		I						
26497.41	3772.882	10		II						
26498.37	3772.746	10		II						
26499.09	3772.643	1000	R	I	9.0	10.0			1	9990-36490
26499.83	3772.537	30		II	4.5	5.5				39838-13338
26500.19	3772.486	10		I						
26501.23	3772.337	100		II						
26501.50	3772.300	30		I						
26501.91	3772.241	3		I						
26502.86	3772.105	3		I						
26503.34	3772.037	100		II						
26503.59	3772.003	100		I	7.0	8.0				14367-40871
26505.05	3771.798	0		II						
26505.88	3771.676	100		I						
26506.89	3771.533	100		I						
26507.44	3771.454	3		II						
26508.19	3771.347	300		I					1	
26508.76	3771.267	30		I						
26509.48	3771.164	30		I						
26509.88	3771.107	300	R	I	9.0	10.0	1.23	1.23	4	13495-40005
26510.23	3771.058	30		II						
26510.56	3771.010	30		II						
26510.90	3770.962	1		I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
26511.43	3770.886	0	II							
26512.73	3770.701	10	I							
26513.22	3770.632	100	II	6.5	7.5				30854- 4341	
26516.03	3770.233	100	II	6.5	5.5				36387- 9870	
26516.35	3770.186	30	I							
26516.58	3770.154	30	II	4.5	5.5				39854-13338	
26516.85	3770.116	1	II							
26517.17	3770.070	100	I							
26517.76	3769.986	1	II							
26518.96	3769.816	3	I							
26519.47	3769.743	100	I							
26520.21	3769.638	30	I							
26520.53	3769.593	0	I							
26521.17	3769.501	100	II	3.5	4.5				38322-11801	
26522.10	3769.370	100	I							
26522.33	3769.337	100	I							
26524.03	3769.095	100	I							
26524.60	3769.015	1	II							
26525.30	3768.915	30	I							
26525.67	3768.862	3	I							
26526.30	3768.772	0	II							
26527.69	3768.575	30	II							
26528.17	3768.507	100	I							
26528.77	3768.422	10	I							
26528.88	3768.406	0	II							
26530.36	3768.196	0	II							
26530.59	3768.163	3	II							
26531.07	3768.095	10	I							
26531.51	3768.033	300	I							
26533.13	3767.802	3	I							
26533.64	3767.730	30	II							
26533.79	3767.708	10	I							
26534.36	3767.628	1000 R	I	7.0	8.0	1.33	1.32	1	8519-35053	
26535.86	3767.414	1	I							
26536.37	3767.343	100	II							
26537.78	3767.142	30	I							
26537.85	3767.132	3	I							
26539.01	3766.968	0	I							
26539.54	3766.893	30	I							
26540.56	3766.747	10	II							
26541.28	3766.646	30	I							
26543.49	3766.332	0	I							
26543.93	3766.270	0	I							
26544.32	3766.214	300	I	8.0	8.0	1.28	1.26	3	12007-38551	
26545.18	3766.093	30	I							

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA		G-C	G-E	TYPE	LEVELS ODD-EVEN
				J-C	J-E				
26545.74	3766.013	1	I						
26546.05	3765.969	30C	I					4	
26547.83	3765.716	0	I						
26548.50	3765.621	30	I						
26548.84	3765.572	3	II						
26549.07	3765.540	10C	I						
26550.32	3765.363	10C	II	4.5	4.5				38351-11801
26550.78	3765.298	30	I	7.5	6.5				31306- 4755
26551.40	3765.211	30	II						
26551.76	3765.158	10C	II						
26552.45	3765.060	10	I						
26552.78	3765.015	100	I						
26553.47	3764.917	30C	II					2	
26554.04	3764.835	300	I					1	
26554.97	3764.704	30	II						
26555.95	3764.565	10	I						
26556.54	3764.482	10	II						
26557.16	3764.393	C	II						
26557.70	3764.316	30	I	5.0	6.0				33608- 7050
26558.19	3764.248	0	I						
26558.58	3764.192	0	I						
26559.10	3764.118	1	I						
26560.18	3763.965	10	I						
26560.69	3763.894	10	I						
26561.12	3763.832	10	I						
26561.87	3763.725	100	II						
26562.86	3763.585	30C	I					1	
26563.75	3763.459	10C	I					4	
26565.48	3763.213	30C	I					A	
26566.29	3763.099	10C	I					A	
26566.96	3763.004	30	II						
26567.47	3762.933	1	II						
26567.75	3762.893	100	I						
26568.64	3762.766	100	II						
26569.17	3762.691	100	II	4.5	4.5				36001- 9432
26569.46	3762.650	10	I						
26570.30	3762.532	30	I						
26570.60	3762.488	1	I						
26570.87	3762.451	1	I						
26570.96	3762.438	1	II						
26572.12	3762.273	30	I						
26572.40	3762.244	30	II						
26573.58	3762.067	30	I						
26574.18	3761.982	10	I						
26576.64	3761.634	10	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA		LEVELS OCC-EVEN
				J-C	J-E	
26577.47	3761.517	100	I	7.C	7.0	3 30711- 4134
26578.24	3761.407	30 W	I	8.C	8.0	14625-41203
26578.92	3761.311	10	I			
26581.26	3760.980	30	I			
26581.77	3760.909	3	II			
26582.18	3760.850	100	II			
26583.32	3760.689	10	I			
26584.65	3760.501	100	I	8.C	9.0	4 14625-41210
26585.43	3760.390	10	II			
26585.63	3760.362	100	I			
26586.30	3760.267	10	I			
26586.64	3760.191	0	II			
26587.58	3760.086	300	II			3
26588.C2	3760.023	1	I			
26588.49	3759.957	100	I			
26589.26	3759.848	100	I			
26590.14	3759.724	100	II			
26590.78	3759.634	30 W	I	6.C	7.0	11673-38264
26591.42	3759.542	3	I			
26592.36	3759.410	100	I			3
26594.22	3759.148	1	I			
26594.54	3759.102	3	I			
26594.89	3759.053	10 W	I			
26595.34	3758.988	300	II	4.5	5.5	1 36466- 9870
26595.80	3758.923	30	II			
26596.24	3758.861	3 W	II			
26597.14	3758.735	30	II			
26597.85	3758.635	C	I			
26599.21	3758.443	1	II			
26599.73	3758.368	10 W				
26601.61	3758.103	10	II			
26602.30	3758.005	30	II			
26602.68	3757.951	C	I			
26602.99	3757.908	1	I			
26603.15	3757.885	30	II			
26604.11	3757.750	30	II			
26604.49	3757.695	10	I			
26606.78	3757.372	10000 R	II	7.5	7.5	3 27435- 828
26608.46	3757.136	300	I			
26609.C4	3757.054	10000 R	I	8.C	9.0	1 7565-34174
26609.95	3756.925	100	I			
26610.29	3756.877	100	I			
26610.71	3756.818	0				
26611.25	3756.742	0	II			
26611.89	3756.694	30	II			

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
26612.59	3756.552	100	II						
26612.97	3756.499	1							
26613.79	3756.383	10	II						
26614.29	3756.312	100	II						
26615.21	3756.183	C							
26615.84	3756.094	100							
26616.01	3756.070	1		5.0	4.0				37541-10925
26618.03	3755.785	3	II						
26618.32	3755.743	10	II						
26618.67	3755.694	10	I						
26619.12	3755.631	10	I						
26620.55	3755.429	100	II						
26620.89	3755.381	100	I			1.28	1.28	4	
26622.03	3755.221	30	II						
26622.62	3755.137	100	II			1.36	1.36	4	
26623.95	3754.950	1	I						
26624.15	3754.922	C	II						
26624.94	3754.809	1000	II	5.5	4.5			2	36057- 9432
26625.05	3754.795	100	II	6.5	6.5			3	34110- 7485
26625.50	3754.731	100	II						
26626.19	3754.633	10	I						
26627.86	3754.398	0	I						
26628.46	3754.314	3	II						
26628.77	3754.270	10	I						
26629.58	3754.155	30	II						
26629.89	3754.112	1	I						
26630.21	3754.066	1	II						
26630.72	3753.995	100	I					3	
26630.93	3753.965	300	I					2	
26631.45	3753.891	1							
26631.69	3753.857	3							
26632.46	3753.749	3000	II	6.5	7.5	1.14	1.23	2	30973- 4341
26634.19	3753.506	3000	II	7.5	8.5			4	26634- 0
26635.33	3753.345	100	I						
26639.14	3752.808	10	I						
26642.16	3752.382	100	I						
26642.76	3752.298	10	I						
26642.91	3752.277	30	I						
26643.44	3752.202	30	I						
26644.48	3752.056	100	I						
26644.69	3752.027	30	I						
26645.84	3751.864	1							
26646.29	3751.802	1000	II	6.5	5.5	1.308	1.015	2	34110- 7463
26647.03	3751.697	30	II						
26647.86	3751.580	1	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
26649.55	3751.342	30	II						
26649.95	3751.286	10	I						
26651.39	3751.083	1	I						
26653.86	3750.736	10	II	5.5	6.5				31409- 4755
26654.46	3750.651	3	I						
26654.70	3750.618	3	I	6.0	7.0				30778- 4134
26655.25	3750.541	10	I						
26656.22	3750.403	30							
26656.63	3750.346	100	II	4.5	4.5			3	38457-11801
26656.84	3750.316	300	II					1	
26657.38	3750.241	1							
26659.46	3749.947	30	I						
26660.43	3749.812	0	I						
26660.65	3749.780	1	I						
26661.21	3749.702	100	I					4	
26662.51	3749.518	100	I						
26663.02	3749.448	30	I						
26665.58	3749.087	30	II						
26665.82	3749.054	1	II						
26666.10	3749.014	30	I						
26666.79	3748.917	10	I						
26667.02	3748.885	3	I						
26667.32	3748.842	0	II						
26667.77	3748.779	300	I			1.29	1.29	4	
26669.40	3748.550	300	I			1.25	1.25	4	
26672.15	3748.163	30	I						
26672.92	3748.056	300	II					4	
26673.46	3747.979	1							
26673.65	3747.952	10	II						
26673.92	3747.915	10	II						
26674.62	3747.817	3000	II	6.5	7.5			2	27502- 828
26676.24	3747.589	10	I						
26676.70	3747.525	100	I						
26677.24	3747.449	30	II						
26678.72	3747.240	1	II						
26679.65	3747.109	0	I						
26680.23	3747.029	10	I						
26680.77	3746.952	1	I						
26681.47	3746.854	10	II						
26681.82	3746.805	10	II						
26682.09	3746.767	30	I						
26682.64	3746.690	1							
26682.89	3746.655	100	II						
26685.00	3746.358	100	II						
26685.25	3746.324	30	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	GCD-EVEN
26685.75	3746.254	1	II						
26686.26	3746.182	10	II						
26687.03	3746.073	10							
26687.76	3745.971	10	II						
26688.84	3745.819	300	II					3	
26689.21	3745.767	100	II						
26689.79	3745.686	1							
26690.30	3745.615	1							
26690.83	3745.541	100	II						
26691.14	3745.497	100	II						
26691.93	3745.386	1	II						
26692.81	3745.263	100	I						
26694.01	3745.094	300	II	5.5	4.5	1.131	0.761	2	38495-11801
26694.61	3745.010	1	II						
26695.18	3744.930	30	I						
26695.72	3744.854	10	II	8.5	8.5				26695- 0
26696.18	3744.790	0	I						
26696.57	3744.735	10	II						
26697.91	3744.547	1	II						
26699.17	3744.371	30	II						
26700.64	3744.164	30	I						
26702.24	3743.939	30	I						
26702.75	3743.868	100	I						
26703.42	3743.775	100	I						
26705.18	3743.527	30	II						
26708.12	3743.115	300	II						
26708.57	3743.053	100	II						
26709.14	3742.973	100	I						
26710.22	3742.821	30	II						
26710.64	3742.763	3	I						
26711.50	3742.642	1	II						
26711.76	3742.606	10	I						
26712.09	3742.560	30	I						
26713.58	3742.351	300	I					3	
26714.31	3742.248	10	II						
26714.47	3742.226	3							
26715.18	3742.126	10							
26716.01	3742.010	100	I						
26716.84	3741.894	100	I					3	
26716.97	3741.876	10	II						
26717.06	3741.863	3	II						
26717.59	3741.789	1	I						
26718.34	3741.683	1							
26718.60	3741.647	1							
26719.37	3741.539	30	II						

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
26719.90	3741.465	30	II						
26720.48	3741.384	10	I						
26721.79	3741.201	1000	R I	7.0	8.0	1.36	1.33	1	12655-39376
26723.07	3741.021	1							
26723.33	3740.985	30	II						
26724.22	3740.860	30	II						
26724.58	3740.810	10	II						
26725.47	3740.686	10	II						
26725.99	3740.612	10	II						
26726.59	3740.529	100	I	9.0	9.0			3	9990-36717
26727.66	3740.379	30	II						
26729.91	3740.064	3000	R I	7.0	8.0	1.33	1.30	1	8519-35249
26730.50	3739.981	30	I	8.0	7.0				12007-38737
26730.88	3739.929	30	I						
26731.38	3739.858	300	II	5.5	6.5			4	34216- 7485
26732.24	3739.737	30							
26733.11	3739.617	3	II						
26733.55	3739.555	10	I						
26734.53	3739.418	3	II						
26735.06	3739.344	10000	R I	10.0	11.0	1.29	1.27	1	12892-39627
26736.66	3739.119	100	I						
26737.26	3739.036	10	II						
26738.17	3738.909	3	I	5.0	6.0				33788- 7050
26738.98	3738.795	30	II						
26739.36	3738.742	3	II						
26739.66	3738.700	1							
26740.42	3738.595	100	II						
26740.65	3738.562	1							
26741.09	3738.500	3							
26741.53	3738.439	10	II						
26742.14	3738.354	10	I						
26742.58	3738.292	100	II						
26743.39	3738.179	1	II						
26744.04	3738.089	10	I						
26744.43	3738.034	10	I	5.0	6.0				33795- 7050
26745.29	3737.913	1	II						
26745.70	3737.856	300	I					4	
26746.32	3737.769	1							
26746.84	3737.696	100	I						
26747.12	3737.658	30	II						
26747.83	3737.558	30	II						
26748.82	3737.420	3	II						
26749.62	3737.308	300	I					3	
26749.98	3737.257	100	II						
26750.35	3737.207	10							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
26751.38	3737.062	30	I						
26751.86	3736.996	C							
26752.09	3736.962	C							
26752.93	3736.845	100	II						
26753.93	3736.707	30	II						
26754.47	3736.631	10	I						
26754.85	3736.578	1							
26755.29	3736.516	1	I						
26755.59	3736.475	1							
26756.36	3736.366	3							
26757.05	3736.271	0	II						
26757.29	3736.237	10							
26757.79	3736.167	1							
26758.17	3736.114	100 W	I						
26759.04	3735.993	100	I						
26759.20	3735.970	100	II						
26759.69	3735.902	30	I						
26761.74	3735.615	30	I						
26762.08	3735.568	30	II						
26763.78	3735.330	30	II						
26764.76	3735.194	3							
26766.08	3735.010	30	II						
26766.47	3734.955	300	I					2	
26767.68	3734.787	100	II						
26768.52	3734.669	30	II						
26768.74	3734.639	30	I						
26769.29	3734.562	100	I						
26769.71	3734.503	10 W							
26770.61	3734.378	300	II	6.5	6.5			3	34255- 7485
26771.39	3734.269	300	I					2	
26772.15	3734.164	100	I						
26772.98	3734.047	100	II						
26773.44	3733.983	300	II	5.5	6.5			1	31529- 4755
26774.32	3733.860	1							
26775.04	3733.759	10	II						
26775.53	3733.692	30	I						
26775.88	3733.643	30	II						
26776.59	3733.544	300	I					1	
26777.44	3733.426	100	II						
26778.08	3733.336	300	I					1	
26778.97	3733.212	300	I	6.0	7.0	1.292	1.238	1	11673-38452
26779.51	3733.137	10	II						
26780.08	3733.057	30 W	II						
26780.94	3732.937	0							
26781.24	3732.896	C	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	GCC-EVEN
26782.40	3732.734	30	II						
26783.41	3732.593	10	II						
26783.85	3732.531	0	II						
26785.15	3732.351	30	II						
26785.71	3732.272	0	II						
26786.05	3732.226	10	II						
26786.41	3732.175	30	I						
26786.62	3732.146	30	II						
26787.13	3732.075	100	I						
26788.21	3731.924	10	I						
26788.93	3731.824	10	W						
26789.90	3731.689	30	II						
26791.82	3731.421	300	II	6.5	5.5	1.269	1.010	2	34255- 7463
26792.75	3731.292	30	I						
26793.85	3731.139	300	II					2	
26794.64	3731.029	10	II						
26794.91	3730.991	1							
26795.68	3730.885	30	II					3	
26795.83	3730.863	1							
26796.44	3730.779	30	II						
26797.19	3730.673	300	I					2	
26797.68	3730.606	300	II			1.24	1.24	4	
26798.82	3730.447	30	II						
26799.26	3730.385	10	II						
26799.69	3730.325	100	I					2	
26800.59	3730.200	30	W						
26801.21	3730.114	100	I					2	
26801.95	3730.011	10	II						
26802.74	3729.901	1	II						
26804.03	3729.722	1							
26804.59	3729.643	100	II						
26805.14	3729.568	3	I						
26805.39	3729.533	10	II						
26805.79	3729.477	100	II					1	
26806.10	3729.434	3	I						
26807.27	3729.270	300	II					1	
26808.10	3729.155	100	II					3	
26809.17	3729.007	3	II						
26809.73	3728.928	10	I						
26810.07	3728.882	30	II						
26810.21	3728.862	30	I						
26810.89	3728.767	300	II	3.5	3.5	1.054	*0.470	3	37764-10953
26811.40	3728.697	3	W						
26811.86	3728.632	1							
26812.30	3728.432	100	II					1	

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
26847.92	3723.624	0	W	II						
26848.57	3723.534	30		I						
26849.20	3723.447	10		I						
26849.72	3723.375	1		II						
26850.65	3723.246	1		II						
26851.02	3723.195	100		I						1
26851.41	3723.140	C		II						
26852.18	3723.034	100		II						
26853.24	3722.887	30		I						
26853.67	3722.827	10		II						
26853.98	3722.784	100		I						1
26854.78	3722.672	300		II			0.111	1.163		1
26856.45	3722.442	0		I						
26856.93	3722.375	10		II						
26857.26	3722.329	30		I						
26858.27	3722.189	100		I	7.0	8.0				1 8519-35377
26859.16	3722.066	10		I						
26859.39	3722.034	3		I						
26859.74	3721.985	3		I						
26860.36	3721.899	10		II						
26861.01	3721.809	100		I						2
26861.72	3721.712	100		I						3
26862.36	3721.622	30		II						
26862.87	3721.552	10		II						
26863.41	3721.477	10		I						
26863.83	3721.419	3								
26864.33	3721.349	3		I						
26864.86	3721.276	10		I						
26865.19	3721.231	1								
26865.39	3721.203	10		II						
26865.97	3721.122	0		II						
26866.20	3721.091	0		I						
26866.76	3721.012	10		II						
26867.33	3720.933	10		II	3.5	4.5				38668-11801
26868.06	3720.834	300	R	I	8.0	8.0	1.24	1.24	4	26868- 0
26868.32	3720.796	30		II						
26869.85	3720.584	100		I						3
26870.97	3720.430	3		II						
26871.35	3720.377	3		II						
26871.86	3720.306	10		II						
26872.23	3720.256	0		II						
26873.31	3720.106	1			6.0	7.0				31007- 4134
26875.64	3719.784	10		II						
26876.17	3719.710	1		II						
26876.65	3719.644	3		II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
26877.42	3719.537	3	II						
26877.81	3719.482	10	I						
26878.19	3719.431	300	I	8.0	7.0			4	14625-41503
26878.61	3719.373	10	I						
26879.11	3719.303	30	I						
26880.21	3719.151	1							
26880.94	3719.051	1	W	4.5	5.5				36751- 9870
26881.89	3718.919	100	I					1	
26882.88	3718.781	10	II						
26883.02	3718.763	10	II						
26883.54	3718.691	100	II					1	
26883.76	3718.660	1	I						
26884.06	3718.619	1							
26884.55	3718.551	3	I						
26885.53	3718.416	10	II	3.5	3.5				37839-10953
26885.96	3718.355	1							
26887.55	3718.135	300	II					2	
26887.81	3718.101	1	II						
26888.88	3717.951	30	II						
26889.36	3717.885	10	I						
26891.07	3717.649	100	I					2	
26891.69	3717.563	1							
26892.23	3717.489	30	I						
26892.48	3717.454	30	I						
26893.01	3717.381	1	I						
26893.30	3717.341	3	II						
26893.71	3717.284	300	R					1	
26895.32	3717.062	10	II						
26895.59	3717.024	3	I						
26896.19	3716.941	300	II					4	
26896.48	3716.901	10	II						
26897.21	3716.800	10	II						
26898.55	3716.615	3							
26899.28	3716.514	30	II						
26899.77	3716.447	10	II						
26902.56	3716.061	100	I					3	
26904.47	3715.798	100	I					2	
26905.59	3715.643	1							
26906.08	3715.575	300	II					3	
26906.63	3715.499	1	II						
26906.96	3715.454	3	II						
26907.58	3715.368	10							
26907.98	3715.313	1000	II	4.5	4.5				36340- 9432
26908.58	3715.230	0							
26909.12	3715.155	30	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
26910.06	3715.026	3							
26910.99	3714.896	1							
26911.21	3714.866	30	II						
26912.28	3714.719	1							
26912.55	3714.682	3							
26913.09	3714.607	0							
26913.49	3714.552	30	II						
26914.37	3714.430	30	W I						
26915.73	3714.243	3	II						
26916.55	3714.130	30	II						
26917.21	3714.038	100	I						
26917.82	3713.955	3	II						
26918.47	3713.865	100	I						
26918.63	3713.843	300	II	5.5	4.5			A	
26919.11	3713.776	10	I					2	36350- 9432
26920.43	3713.594	3	II						
26922.59	3713.297	10	II						
26923.58	3713.160	30	II						
26924.40	3713.047	0	II						
26924.58	3713.022	30	I						
26925.01	3712.962	10	II						
26925.62	3712.878	30	II						
26925.82	3712.851	1							
26926.05	3712.819	1							
26926.45	3712.764	30	II						
26926.69	3712.731	30	II	6.5	6.5				31682- 4755
26928.03	3712.546	10	I						
26928.73	3712.450	10	I						
26929.71	3712.315	3	II						
26930.15	3712.255	3	I						
26930.32	3712.230	10	I						
26930.59	3712.194	3	II						
26931.04	3712.132	30	II						
26931.53	3712.063	10	II						
26932.91	3711.874	30	II						
26933.34	3711.814	100	I						
26934.01	3711.721	10	II						
26934.45	3711.662	1000	II	4.5	5.5	1.23	1.01	I	36805- 9870
26934.84	3711.607	30	W I						
26935.33	3711.541	10	I						
26935.73	3711.485	3							
26936.76	3711.343	1							
26938.13	3711.155	100	II						
26938.58	3711.092	0							
26939.02	3711.032	1	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS G-C-EVEN
						G-C	G-E	TYPE	
26939.90	3710.910	3C W	I						
26940.92	3710.770	100	I					4	
26941.11	3710.744	300	II	4.5	3.5	0.78	0.46	2	37895-10953
26941.57	3710.680	10	I						
26942.35	3710.573	30	I						
26943.50	3710.415	0							
26945.14	3710.189	10	I						
26946.00	3710.071	1000	II	5.5	6.5	1.08	1.13	2	31701- 4755
26946.88	3709.950	300	I					1	
26947.00	3709.822	1	II						
26948.51	3709.725	30 W	I						
26950.86	3709.401	100	I					1	
26952.48	3709.178	0	II						
26952.84	3709.129	100	II					4	
26953.10	3709.093	30							
26953.87	3708.987	300	I					2	
26954.65	3708.880	10	I						
26955.03	3708.827	30	I						
26956.40	3708.640	3	I						
26956.98	3708.559	1	II						
26958.18	3708.394	300	I					3	
26959.45	3708.220	1000	II	6.5	6.5			3	31715- 4755
26959.97	3708.147	3							
26961.02	3708.003	0							
26962.10	3707.772	3	I						
26963.39	3707.678	1000 R	I	9.0	8.0			2	9990-36954
26964.15	3707.573	1000	II	6.5	7.5			2	27792- 828
26964.65	3707.505	30	I						
26965.38	3707.404	1000	II	7.5	7.5	1.21	1.22	3	31306- 4341
26966.27	3707.282	30	I	8.0	8.0				12007-38973
26966.78	3707.212	30	I						
26967.03	3707.177	0	II						
26968.54	3706.969	0							
26969.78	3706.798	300	I	6.0	6.0			3	10088-37058
26971.83	3706.518	10	I						
26971.95	3706.501	30 W	I						
26972.79	3706.385	100	I					3	
26973.35	3706.308	30	I						
26974.40	3706.164	100	I					3	
26975.41	3706.025	0 W	II						
26975.95	3705.951	10	II						
26976.83	3705.830	100	II	3.5	4.5			2	
26977.00	3705.807	100	I					4	
26977.56	3705.730	3							
26978.12	3705.653	3	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
26978.98	3705.535	10	II						
26979.86	3705.414	C	II						
26980.89	3705.273	30	I						
26981.11	3705.243	100	I					A	
26981.90	3705.134	30	II						
26982.58	3705.040	3	II						
26983.26	3704.947	300	I					3	
26984.74	3704.744	100	I					A	
26984.85	3704.728	100	I						
26985.07	3704.699	100	I					A	
26986.33	3704.526	100	I						
26986.55	3704.495	30	I						
26986.87	3704.451	C							
26987.23	3704.403	1	II						
26987.61	3704.349	100	I					3	
26988.32	3704.252	10	I						
26989.13	3704.141	30	I						
26990.93	3703.895	100	II					2	
26991.35	3703.836	3 W	I						
26991.70	3703.789	10	I						
26992.74	3703.646	10	II						
26993.08	3703.600	10	I						
26993.35	3703.563	30	II						
26993.69	3703.515	10	II						
26994.59	3703.391	10	I						
26995.11	3703.321	1	II						
26995.73	3703.235	300	I					4	
26996.49	3703.132	30	II						
26997.05	3703.054	30	II						
26997.27	3703.025	1							
26997.80	3702.952	3	II						
26998.06	3702.916	C	I	7.0	7.0				31132- 4134
26998.64	3702.836	30	II						
26999.99	3702.652	100	I					1	
27000.84	3702.534	1	I						
27001.63	3702.427	1							
27001.85	3702.396	3	II	3.5	4.5				38802-11801
27002.00	3702.376	1							
27002.97	3702.242	100	I	10.0	9.0			A	12892-39895
27003.55	3702.164	3	I						
27003.84	3702.123	100	II					3	
27004.45	3702.039	100	II	4.5	3.5				37958-10953
27004.92	3701.976	10	II						
27005.45	3701.903	100	II						
27006.37	3701.777	1 W							

TABLE

BY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
27038.97	3697.314	1000	II	5.5	6.5			2	34524- 7485
27039.52	3697.238	100	I						
27041.02	3697.033	100	II						
27041.54	3696.962	100	I						
27041.65	3696.947	100	II						
27042.10	3696.885	100	II						
27042.44	3696.839	30	II						
27043.68	3696.669	0	II						
27044.06	3696.618	C	II						
27044.28	3696.587	30	II						
27044.98	3696.491	1	I						
27045.57	3696.411	10	II						
27047.11	3696.201	30	II						
27047.97	3696.083	30	I						
27048.45	3696.018	3							
27049.39	3695.890	1							
27049.60	3695.861	10 W	II						
27050.15	3695.786	C	II						
27051.08	3695.658	100	II					3	
27051.72	3695.570	1	I						
27052.44	3695.473	10	II						
27053.44	3695.336	30	II						
27056.47	3694.923	30	II						
27057.29	3694.810	10000 R	II	7.5	7.5			3	27885- 828
27059.20	3694.549	1	II						
27060.18	3694.415	300	II	5.5	5.5			3	34524- 7463
27060.50	3694.371	100	II						
27061.47	3694.240	100	I						
27061.81	3694.192	3	II						
27063.44	3693.970	3	II						
27064.15	3693.874	300 R	I	6.0	7.0			1	11673-38737
27065.43	3693.699	C	II						
27066.49	3693.554	100	I						
27066.66	3693.531	100	I						
27067.79	3693.377	1							
27068.63	3693.263	3	II						
27069.21	3693.182	1	II						
27069.67	3693.120	10	I						
27070.66	3692.986	30	I	7.5	6.5				31826- 4755
27070.99	3692.940	10	I						
27072.01	3692.692	0	II						
27074.33	3692.484	100	I						
27075.76	3692.289	100	I						
27075.98	3692.260	100	II						
27076.91	3692.133	C							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
27077.31	3692.077	100	II							
27078.21	3691.955	10								
27078.81	3691.873	30	I							
27079.40	3691.793	3	II							
27079.71	3691.750	1								
27080.11	3691.696	10	I							
27080.93	3691.584	10	II							
27082.70	3691.344	30	I							
27083.26	3691.267	10								
27083.49	3691.236	300	II							
27084.45	3691.105	1								
27085.09	3691.017	10	II							
27085.30	3690.989	3								
27085.63	3690.943	10	II							
27087.11	3690.742	3	I							
27087.62	3690.673	10	W I							
27088.03	3690.617	100	II							
27088.33	3690.576	100	I							
27088.92	3690.495	30	I	8.0	8.0				12007-39096	
27089.45	3690.424	30	II							
27089.91	3690.361	10	II							
27090.37	3690.297	10	II	8.5	8.5				27090-	0
27090.84	3690.234	1								
27091.74	3690.111	100	I							
27092.24	3690.043	30	I							
27093.38	3689.888	300	I							2
27094.81	3689.694	1	II							
27095.05	3689.661	100	I	7.0	7.0				31229-	4134
27095.44	3689.608	100	II							
27096.49	3689.465	300	I	9.0	8.0				4	9990-37087
27097.70	3689.299	10	I							
27098.54	3689.186	100	II							
27098.89	3689.138	10	I							
27099.67	3689.031	100	II	5.5	5.5				3	36970- 9870
27101.22	3688.821	30	I							
27101.60	3688.768	3	I							
27102.31	3688.672	1								
27102.89	3688.593	100	I							
27104.28	3688.405	3	II							
27104.60	3688.360	300	II							1
27105.01	3688.306	300	I							3
27106.10	3688.156	10	II							
27107.47	3687.970	3	II							
27108.58	3687.819	1	II							
27109.76	3687.659	300	I							2

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
27110.58	3687.547	0	II						
27111.C2	3687.487	10	II						
27111.37	3687.440	100 B	I	8.C	8.0			3	7565-34676
27111.37	3687.440	300 B	I					4	
27112.17	3687.331	3	II						
27112.43	3687.295	10	I						
27113.C4	3687.212	30	I	10.C	10.0				12892-40005
27113.49	3687.151	30	I						
27113.76	3687.114	10	II						
27113.94	3687.090	3							
27114.77	3686.977	30	II						
27115.41	3686.890	100	II						
27115.88	3686.826	1	II						
27116.20	3686.783	10	II						
27117.27	3686.637	30	I						
27117.93	3686.547	3							
27118.30	3686.497	10	II						
27118.72	3686.441	30	II						
27119.55	3686.328	0	II						
27120.26	3686.230	10	II						
27120.61	3686.183	10	II						
27122.47	3685.931	100	I						
27122.78	3685.888	300	I						
27123.25	3685.824	1000 R	I	6.C	7.0			1	10088-37212
27123.56	3685.782	1000 R	I	8.C	9.0			1	7565-34689
27125.28	3685.549	0	II						
27126.62	3685.366	0	II						
27127.22	3685.285	30	I						
27128.97	3685.047	30	I						
27129.48	3684.978	30	II						
27129.99	3684.908	100	II						
27130.40	3684.853	300 R	I					4	
27130.74	3684.806	1	II						
27131.14	3684.752	100	I						
27132.46	3684.573	10	I						
27132.69	3684.542	3							
27133.19	3684.474	10	II						
27133.74	3684.400	100	II						
27135.71	3684.132	10	II						
27136.03	3684.089	30	I	7.C	7.0				14367-41503
27137.69	3683.864	3	II						
27138.50	3683.753	0	II						
27141.09	3683.402	100	II						
27142.C5	3683.272	3	I						
27142.45	3683.217	30	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
27142.65	3683.191	10	I						
27143.39	3683.089	300	I					1	
27143.97	3683.011	0							
27144.26	3682.971	0							
27145.60	3682.789	10 W	I						
27146.91	3682.612	100	II						
27147.27	3682.564	0	II						
27148.14	3682.446	10	II						
27149.33	3682.283	1	I						
27149.83	3682.216	10	II						
27150.43	3682.135	0	II						
27151.09	3682.046	3							
27151.15	3682.037	10	I						
27151.78	3681.951	100	II						
27152.36	3681.872	1	I						
27152.57	3681.844	3	II						
27153.56	3681.710	30	II						
27155.23	3681.484	10	I						
27155.70	3681.420	3 W	II						
27158.19	3681.083	10	I						
27158.51	3681.038	100	II						
27159.65	3680.885	1							
27159.84	3680.859	30	I						
27160.24	3680.804	30	II						
27161.34	3680.655	30	I						
27161.65	3680.613	100	II						
27162.41	3680.511	0							
27162.99	3680.432	3	I	7.0	6.0				34213- 7050
27163.82	3680.319	0							
27164.74	3680.195	30	I						
27165.21	3680.131	1	I						
27165.37	3680.109	1	II						
27165.61	3680.076	0							
27166.15	3680.003	0	II						
27167.38	3679.837	100	II						
27167.71	3679.792	1	II						
27168.31	3679.711	0	II						
27168.71	3679.657	3	II						
27169.47	3679.554	10	II						
27170.44	3679.423	0	II						
27171.27	3679.311	1	I						
27171.55	3679.273	100	II	4.5	4.5			3	38972-11801
27172.68	3679.119	10	II						
27174.37	3678.890	1	II						
27175.06	3678.798	0							

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
27176.54	3678.597	300	I						3	
27177.20	3678.507	1000	R I	8.0	7.0	1.36	1.34	2		7565-34742
27178.31	3678.357	100	II							
27179.57	3678.187	3	I							
27180.06	3678.121	10	I							
27180.47	3678.065	30	II							
27180.81	3678.019	100	II							
27181.50	3677.925	1	II							
27181.69	3677.899	1	II							
27182.26	3677.822	1								
27183.35	3677.675	1	II							
27184.20	3677.560	10	II							
27184.95	3677.458	10	I							
27185.32	3677.408	100	II							
27185.49	3677.385	30	II							
27185.91	3677.329	1	II							
27186.38	3677.266	300	I						2	
27186.63	3677.232	10	I							
27187.63	3677.096	10	I	9.0	9.0					13495-40683
27188.03	3677.042	100	I							
27188.70	3676.951	30	II							
27189.32	3676.867	300	II							A
27189.94	3676.784	100	II							
27190.51	3676.706	3	II							
27191.37	3676.590	3000	II	6.5	7.5	1.25	1.20	1		28019- 828
27192.56	3676.430	300	II						3	
27194.66	3676.146	300	I						3	
27195.57	3676.023	300	II	4.5	5.5			1		37066- 9870
27195.99	3675.965	30	I							
27196.62	3675.881	30	II							
27197.55	3675.755	30	II							
27197.77	3675.726	30	W I							
27198.50	3675.627	100	II							
27198.93	3675.569	30	I							
27199.44	3675.500	10	I							
27199.96	3675.429	1	I							
27200.31	3675.383	30	II							
27201.62	3675.205	1								
27202.12	3675.137	100	II							
27202.72	3675.057	1		4.5	5.5					40541-13338
27203.46	3674.956	10	II							
27204.22	3674.854	3								
27204.53	3674.812	10	I							
27205.57	3674.671	1	II							
27206.46	3674.551	30	II	5.5	6.5					34691- 7485

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
27276.20	3665.155	3							
27277.30	3665.008	300	I	6.0	7.0			2	10088-37366
27277.47	3664.985	300	R I	8.0	7.0			2	7565-34843
27278.02	3664.912	3	II						
27278.79	3664.807	3	I						
27279.30	3664.740	30	II						
27279.74	3664.680	1000	II	5.5	6.5			2	
27280.22	3664.615	300	II	3.5	4.5			A	39081-11801
27280.47	3664.581	100	I						
27280.85	3664.531	30	I						
27281.78	3664.407	100	II						
27282.96	3664.248	30	II	6.5	7.5				28111- 828
27285.22	3663.944	30	I						
27285.53	3663.903	10	II						
27286.20	3663.812	C	I						
27286.75	3663.739	30	II						
27287.49	3663.639	3	II						
27288.09	3663.559	30	II						
27288.78	3663.466	100	I	7.0	7.0	1.18	1.18	4	31423- 4134
27289.14	3663.417	3	II						
27289.67	3663.347	3	II						
27291.16	3663.147	100	I						
27291.72	3663.071	3	II						
27292.28	3662.997	30	I						
27293.36	3662.851	30	II						
27293.90	3662.779	C							
27295.03	3662.628	3	II						
27295.23	3662.601	10							
27295.59	3662.552	3	II						
27296.33	3662.452	10	I						
27296.82	3662.388	30	II						
27297.31	3662.322	30	II						
27297.76	3662.261	300	II						
27298.66	3662.140	C	II						
27300.15	3661.940	3	II						
27300.98	3661.829	3	II						
27301.35	3661.780	300	II	3.5	3.5			3	38255-10953
27302.92	3661.569	30	I						
27303.36	3661.510	30	II						
27303.88	3661.440	3	I						
27304.50	3661.357	100	II						
27305.16	3661.268	300	II						
27305.41	3661.235	30	I						
27305.98	3661.158	3	II						
27306.56	3661.080	100	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
27307.49	3660.956	0	II							
27307.80	3660.915	C								
27308.94	3660.761	30	I							
27309.59	3660.674	300	I							
27310.09	3660.607	1	I							
27311.51	3660.417	1	II							
27312.07	3660.342	10	I							
27312.56	3660.277	3	II							
27312.75	3660.251	10	II							
27313.34	3660.171	3	I							
27314.87	3659.966	300	II							
27315.75	3659.848	300	I							
27316.30	3659.776	30	II	5.5	5.5					37187- 9870
27316.81	3659.708	3	II							
27317.52	3659.612	1	II							
27318.00	3659.548	1	II							
27319.07	3659.405	10	I	8.0	8.0					27319- 0
27319.64	3659.328	10	II							
27319.85	3659.299	10	II	4.5	4.5					36751- 9432
27321.50	3659.079	C								
27322.51	3658.943	3	I							
27322.85	3658.898	3	II							
27324.24	3658.712	300	I							2
27325.71	3658.515	10	I							4
27325.81	3658.502	300 R	I							4
27326.70	3658.382	30	I							
27326.91	3658.354	10	I							
27327.81	3658.235	3	I							
27328.43	3658.151	100	II							
27329.36	3658.026	3	II							
27329.79	3657.970	10	I							
27330.20	3657.914	30	II							
27330.61	3657.860	1	I							
27331.09	3657.795	100	II							
27331.77	3657.704	3	I							
27332.21	3657.644	10	I							
27333.13	3657.522	1	I							
27334.49	3657.340	3	II							
27336.85	3657.024	3	II							
27337.36	3656.956	300	I	9.0	8.0					1 13495-40833
27337.64	3656.918	1	I							
27337.95	3656.877	300	II							3
27340.27	3656.566	1	I							
27341.27	3656.433	300	II	6.5	7.5					2 31682- 4341
27341.83	3656.358	30	I							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
27342.47	3656.272	3	II						
27344.58	3655.990	30	II						
27344.90	3655.948	100	II						
27345.21	3655.907	10	II						
27345.91	3655.813	30	II						
27346.33	3655.756	1	I						
27346.53	3655.730	30	II						
27347.27	3655.631	300	II					1	
27347.37	3655.617	300	I					3	
27348.02	3655.531	10	I						
27348.88	3655.416	100	I						
27349.29	3655.361	3	II						
27349.85	3655.286	30	I						
27350.47	3655.204	30	II						
27351.14	3655.113	3	I						
27351.49	3655.066	1	II						
27352.92	3654.875	300	II					4	
27354.24	3654.699	3							
27354.57	3654.655	100	I						
27355.59	3654.519	1	II						
27356.59	3654.385	100	II					2	
27358.09	3654.184	300	II	4.5	5.5			1	37229- 9870
27359.06	3654.055	0	I						
27359.43	3654.006	3	I						
27360.23	3653.898	100	II						
27360.42	3653.874	100	II						
27360.65	3653.843	3	II						
27361.10	3653.782	1							
27361.51	3653.727	10	II						
27361.94	3653.670	3							
27364.05	3653.388	1	II						
27364.40	3653.342	1	II						
27364.88	3653.278	10	I						
27365.07	3653.253	30	II						
27365.58	3653.185	3	II						
27366.60	3653.049	10	II						
27368.26	3652.827	100	II	3.5	3.5				38322-10953
27368.55	3652.788	0	II						
27369.07	3652.719	1	II						
27369.82	3652.618	10	I	8.0	8.0				12007-39376
27370.42	3652.539	3	I						
27370.90	3652.475	30	I						
27371.68	3652.371	10	II						
27372.26	3652.292	300	I					1	
27372.84	3652.215	3	II						

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	CCC-EVEN	
27373.01	3652.193	1	II							
27373.35	3652.147	30	II	4.5	4.5				36805-	9432
27374.00	3652.061	3	II	6.5	7.5				31715-	4341
27374.68	3651.970	100	I					4		
27375.46	3651.866	30	I	9.0	8.0				13495-	40871
27376.39	3651.742	30	II							
27376.96	3651.666	3	II							
27378.21	3651.499	0	II							
27379.27	3651.358	3	II							
27379.47	3651.332	10	I							
27380.96	3651.133	30	II							
27381.52	3651.058	3	II							
27382.91	3650.873	10	I							
27384.88	3650.610	1	II							
27385.37	3650.544	10	I							
27385.55	3650.520	1	II							
27386.34	3650.415	30	II							
27386.97	3650.332	1	II							
27387.78	3650.223	0	II							
27388.07	3650.184	3	II							
27388.88	3650.077	0	II							
27389.06	3650.052	300	II					2		
27389.98	3649.930	10	I							
27391.32	3649.751	0								
27392.62	3649.578	3	I							
27393.99	3649.396	10	II							
27395.44	3649.203	10	I							
27396.74	3649.030	10	II							
27397.42	3648.940	300	II	4.5	3.5			2	38351-	10953
27398.06	3648.853	30	II							
27398.58	3648.785	3000	II					3		
27399.33	3648.684	300	II	5.5	6.5				34884-	7485
27399.76	3648.627	100	I							
27400.50	3648.529	100	I							
27401.02	3648.459	1000	II					1		
27401.73	3648.365	300	II							
27402.23	3648.299	30	II							
27403.39	3648.144	1	II							
27404.39	3648.011	100	II					3		
27404.65	3647.977	300	I					1		
27406.24	3647.764	10	I							
27407.47	3647.601	300	I	9.0	8.0			2	9990-	37398
27408.24	3647.498	30	II							
27408.62	3647.447	10	I							
27409.01	3647.396	30	I							

TABLE

CY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	ODD-EVEN
27409.55	3647.324	3	I							
27410.05	3647.258	30	II							
27411.23	3647.101	0	II							
27411.93	3647.008	10	I							
27412.78	3646.895	1000	I	8.0	7.0			1	31547-	4134
27414.90	3646.612	1000	II	4.5	5.5			2		
27416.82	3646.357	1	II							
27417.29	3646.294	30	I							
27418.33	3646.156	10	I							
27418.89	3646.001	1	II							
27419.65	3645.980	10	I							
27420.24	3645.902	100	II							
27420.56	3645.860	1000	II	5.5	5.5			3	34884-	7463
27421.72	3645.705	1	I	6.0	7.0				31555-	4134
27424.03	3645.398	10000 R	II	8.5	7.5			2	28252-	828
27427.21	3644.975	0								
27427.79	3644.899	30	II							
27428.08	3644.860	0	I							
27430.44	3644.546	1	II							
27430.81	3644.498	30	I							
27431.27	3644.437	3	II							
27432.04	3644.334	30	I							
27432.54	3644.267	30	I							
27432.98	3644.209	30	II							
27433.19	3644.181	30	II							
27434.28	3644.036	100	II							
27435.13	3643.923	1000	II	7.5	8.5			1	27435-	0
27435.74	3643.842	300	II					4		
27437.80	3643.568	3	I							
27438.14	3643.524	1000 R	I	0.0	7.0			2	7565-	35003
27438.99	3643.410	3								
27440.92	3643.155	10	II							
27441.69	3643.052	30	I							
27442.29	3642.972	10	II							
27443.14	3642.859	3	II							
27443.50	3642.812	10	II							
27444.15	3642.726	0	II							
27444.92	3642.623	30	I							
27445.47	3642.551	3	II							
27446.05	3642.474	10	I							
27447.22	3642.318	0								
27447.68	3642.258	3	II							
27448.66	3642.127	1	I							
27449.20	3642.055	1	II							
27449.73	3641.984	30	I							

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS ODD-EVEN
				J-C	J-E	G-C G-E TYPE	
27450.01	3641.948	30	I				
27450.56	3641.875	30	I				
27450.90	3641.830	1000 R	I	7.0	6.0	P	8519-35970
27452.38	3641.633	100	II				
27453.03	3641.548	10	I				
27453.43	3641.494	3	I				
27453.80	3641.446	1	II				
27454.12	3641.403	0	II				
27456.00	3641.153	100	II				
27456.61	3641.072	300	II				
27457.12	3641.004	1	II				
27458.44	3640.830	300	II			1	
27458.77	3640.787	30	I				
27459.99	3640.624	10	II				
27460.71	3640.529	10	I				
27460.84	3640.511	3	I				
27462.39	3640.306	100	I				
27462.83	3640.248	3000	II	6.5	6.5	3	32218- 4755
27465.44	3639.902	300	II			A	
27465.54	3639.889	10	II				
27466.10	3639.814	100	II				
27466.64	3639.743	3	I				
27467.07	3639.685	30	II				
27467.33	3639.651	1	II				
27467.97	3639.566	30	II				
27468.67	3639.474	30	II				
27469.67	3639.341	30	I				
27470.36	3639.250	100	I			2	
27471.21	3639.137	1	II				
27471.91	3639.044	10	II				
27472.87	3638.917	300	II			1	
27473.75	3638.801	100	I				
27474.25	3638.735	10	I				
27475.76	3638.535	300	II			2	
27478.36	3638.190	0	II				
27479.05	3638.099	1	II				
27479.53	3638.035	10	II				
27481.45	3637.781	10	II				
27482.14	3637.690	3	II				
27483.97	3637.447	0					
27484.74	3637.345	300	II			3	
27485.27	3637.275	1000	II	7.5	7.5	3	31826- 4341
27486.41	3637.125	100	I				
27486.72	3637.083	1	II				
27487.76	3636.946	100	I			4	

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPF	CCC-EVEN
27487.92	3636.925	1	I	8.0	8.0				7565-35053
27488.46	3636.854	1	II						
27489.30	3636.743	3	I						
27489.95	3636.656	10	I						
27490.74	3636.552	3	II						
27491.29	3636.479	10	II						
27492.53	3636.315	1	I						
27492.99	3636.254	1000	II	5.5	5.5	1.250	0.998	3	37363- 9870
27496.03	3635.853	1	I						
27496.64	3635.772	100	I						
27496.86	3635.742	3	II						
27497.69	3635.633	3	II						
27499.41	3635.405	30	II						
27500.45	3635.267	1000	II	4.5	4.5	1.153	0.754	3	39301-11801
27501.48	3635.132	10	II						
27502.06	3635.056	10	II						
27502.82	3634.955	3	I						
27503.70	3634.838	100	II	4.5	3.5				38457-10953
27503.84	3634.820	10	II						
27504.17	3634.777	3	I						
27504.92	3634.677	1	II						
27506.05	3634.527	3	II						
27506.57	3634.459	30	I						
27506.76	3634.434	100	I						
27506.95	3634.409	30	I						
27507.61	3634.322	300	II	3.5	4.5			1	39308-11801
27508.68	3634.181	300	II					4	
27509.55	3634.065	30	I						
27511.87	3633.758	300	II					2	
27512.11	3633.727	10	II						
27512.65	3633.656	3	I						
27513.08	3633.599	0	I						
27513.39	3633.558	1	II						
27515.08	3633.334	10	II						
27515.54	3633.274	300	II					A	
27516.08	3633.202	10	I						
27516.96	3633.086	30	I						
27517.48	3633.018	1000	II					2	
27519.11	3632.803	100	I	6.0	7.0				10088-37607
27519.32	3632.776	1000	II			1.36	1.36	4	
27519.81	3632.710	3	II						
27520.29	3632.648	100	II						
27520.88	3632.569	1	I						
27522.88	3632.305	3	I						
27523.61	3632.209	3	II						

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA				TYPE	LEVELS CCC-EVEN
				J-C	J-E	G-C	G-E		
27524.19	3632.133	10	II						
27524.71	3632.063	10	II						
27526.38	3631.843	3	I						
27526.76	3631.793	10	II						
27527.02	3631.759	0	II						
27527.62	3631.680	10	I						
27531.28	3631.196	300	II					4	
27531.86	3631.121	1							
27532.39	3631.051	300	II					2	
27533.96	3630.843	300	II						
27534.34	3630.793	10	II						
27534.48	3630.716	3	II						
27535.51	3630.640	1000	II					3	
27536.17	3630.552	300	I	9.0	8.0			2	9990-37527
27536.75	3630.476	1000	II					3	
27538.56	3630.237	3000 R	II	8.5	7.5	1.17	1.22	1	31879- 4341
27541.30	3629.876	30	I						
27541.56	3629.841	1	II						
27542.48	3629.716	10	II						
27542.68	3629.693	3	I						
27543.51	3629.585	100	II						
27544.78	3629.418	3000	II			1.39	1.39	4	
27546.06	3629.248	3	II						
27546.88	3629.141	0	II						
27547.64	3629.040	1	II						
27549.40	3628.808	10	II						
27550.31	3628.688	30	II						
27550.83	3628.620	10	II						
27551.25	3628.565	300	I					2	
27551.73	3628.502	3	II						
27552.29	3628.427	3	II						
27553.17	3628.312	30	II					4	
27554.41	3628.149	1							
27555.07	3628.062	30	II						
27555.40	3628.018	300	I						
27555.92	3627.950	10	II						
27556.32	3627.897	300	I	7.0	8.0			4	27556- 0
27557.80	3627.702	100	I	5.0	5.0			3	36769- 9211
27558.76	3627.576	10	II						
27559.42	3627.489	30	II						
27559.55	3627.472	30	II						
27560.41	3627.359	300	II					2	
27561.75	3627.183	30	II						
27562.17	3627.127	30	I						
27562.48	3627.086	30	II						

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	CCC-EVEN	
27563.06	3627.010	3	I							
27564.10	3626.872	300	I	7.0	7.0			3	31698-	4134
27564.49	3626.822	30	II							
27564.79	3626.783	30	II							
27565.33	3626.711	30								
27565.56	3626.682	10 W	I							
27567.38	3626.441	3								
27567.78	3626.390	C	II							
27568.15	3626.340	30	II							
27568.44	3626.302	10	II							
27568.97	3626.233	1	II							
27569.17	3626.206	3	II							
27569.41	3626.175	1	I							
27569.70	3626.137	30	I							
27570.15	3626.077	3	II							
27572.72	3625.739	300	II							
27572.90	3625.715	1	II							
27573.19	3625.678	0	II							
27573.55	3625.631	100	I							
27574.33	3625.528	300	I	7.0	6.0			2	8519-	36093
27575.50	3625.374	0	II							
27576.64	3625.224	1								
27577.73	3625.081	1	II							
27578.30	3625.006	100	II					4		
27579.10	3624.900	10	II							
27581.52	3624.582	10	II							
27582.37	3624.471	10	II							
27583.92	3624.267	1000	II			1.30	1.30	4		
27584.60	3624.177	3	II							
27585.95	3624.000	3	II							
27586.44	3623.936	1	II							
27587.62	3623.781	0	II							
27589.71	3623.507	1	II							
27590.63	3623.385	300	I	7.0	7.0	1.36	1.28	3	12655-	40245
27592.60	3623.127	300 R	I	5.0	6.0			1	74642-	7050
27593.07	3623.065	0	II							
27595.33	3622.769	300	II					1		
27595.85	3622.700	3	II							
27596.71	3622.588	300	II							
27596.92	3622.560	100	II							
27598.52	3622.349	100	I							
27598.66	3622.331	3	II							
27599.69	3622.196	3								
27599.91	3622.167	30	II							
27600.25	3622.123	300 R	I	7.0	7.0			3	8519-	36119

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
27639.17	3617.023	10	II						
27639.30	3617.005	30	II						
27639.78	3616.942	1							
27640.17	3616.892	10	II						
27640.55	3616.842	10	II						
27641.03	3616.779	0	II						
27641.59	3616.705	30	II						
27641.77	3616.682	10	II						
27643.00	3616.521	3	II						
27643.44	3616.463	3	II						
27644.18	3616.367	300	II	5.5	4.5	1.209	*0.825	2	37076- 9432
27645.38	3616.210	30	II						
27646.38	3616.078	300	II	5.5	5.5			3	37517- 9870
27647.18	3615.974	1	II						
27648.11	3615.852	0	II						
27650.32	3615.564	100	II						
27651.02	3615.472	1							
27651.88	3615.360	3	II						
27652.41	3615.290	3	II						
27653.21	3615.186	30	II						
27654.23	3615.052	300 R	I	8.0	9.0	1.36	1.28	1	7565-35219
27654.43	3615.027	1	II						
27654.87	3614.969	30	II						
27655.03	3614.947	100	II					2	
27655.29	3614.913	1	I						
27655.73	3614.856	1	II						
27656.06	3614.813	30	I						
27656.36	3614.774	100	I					2	
27656.91	3614.702	300	II	4.5	5.5			1	37527- 9870
27657.54	3614.620	0 Q							
27657.91	3614.571	1	II						
27658.33	3614.517	3	II						
27659.13	3614.412	10	II						
27660.87	3614.184	30	II						
27661.10	3614.154	100	II						
27661.71	3614.074	1000	II					2	
27662.53	3613.967	100	I	6.0	7.0				10088-37751
27662.75	3613.939	1	II						
27663.25	3613.874	0	II						
27663.69	3613.817	30	II						
27664.24	3613.744	30	I						
27665.08	3613.635	1	I						
27665.20	3613.618	100	II						
27666.40	3613.462	1	I						
27666.75	3613.417	10	II	8.5	8.5				27666- 0

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
27704.64	3608.474	30	II						
27705.90	3608.311	10							
27706.72	3608.203	10	II						
27707.60	3608.089	100	II						
27707.99	3608.038	30	I	9.C	8.0				13495-41203
27709.87	3607.794	10	II						
27710.68	3607.688	100	II						
27711.21	3607.619	10	II						
27714.08	3607.245	100	II						
27714.35	3607.210			9.C	9.0				13495-41210
27714.35	3607.210	30	II	3.5	3.5				38668-10953
27714.88	3607.141	30	II						
27715.44	3607.068	100	II						
27716.39	3606.744	300	I					3	
27716.77	3606.895	100	II						
27717.28	3606.829	10	II						
27717.93	3606.744	C	II						
27719.69	3606.515	30	I	6.C	6.0				34770- 7050
27720.69	3606.385	300	II					4	
27722.26	3606.180	100	I						
27722.74	3606.118	3000	II	7.5	6.5			4	35207- 7485
27723.89	3605.969	1							
27725.03	3605.821	1	II						
27725.59	3605.748	1							
27725.77	3605.724	3	II						
27726.31	3605.655	30	II						
27726.55	3605.622	C							
27727.51	3605.499	C	II						
27728.80	3605.330	300	II					2	
27729.41	3605.252	100	II						
27730.12	3605.159	3							
27730.41	3605.120	100 B		5.C	5.0			3	36942- 9211
27730.41	3605.120	300 B	II					3	
27731.73	3604.950	3		5.C	6.0				34782- 7050
27732.32	3604.873	100	II					A	
27732.65	3604.830	10	II						
27734.23	3604.624	3	II						
27734.64	3604.571	3	II						
27735.32	3604.482	100 W	I						
27736.40	3604.342	300	I					3	
27738.29	3604.097	3	II	8.5	7.5				32079- 4341
27739.00	3604.004	3							
27740.92	3603.755	300	I	7.C	7.0			3	12655-40396
27741.30	3603.705	1							
27741.69	3603.655	30	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
27742.53	3603.546	1	II						
27742.89	3603.499	30	I						
27743.39	3603.434	3	II	5.5	5.5				37614- 9870
27744.20	3603.329	300	I	7.0	7.0			3	31878- 4134
27744.72	3603.261	100	II						
27745.49	3603.162	300	I					3	
27745.92	3603.106	10	I						
27746.88	3602.981	1							
27748.10	3602.823	1000	II	5.5	4.5	0.953	0.760	2	39549-11801
27749.18	3602.683	3	II						
27750.04	3602.571	100	II						
27750.58	3602.500	3							
27750.97	3602.450	1							
27752.32	3602.275	0							
27752.76	3602.218	10	II						
27753.06	3602.178	30	I						
27753.63	3602.104	1	II						
27754.07	3602.048	3	II						
27755.21	3601.899	1	II	5.5	4.5				37187- 9432
27755.66	3601.841	10	I						
27756.09	3601.785	0	II						
27756.78	3601.695	10	II						
27757.49	3601.604	10	II						
27757.92	3601.548	1	II						
27758.20	3601.511	100	II					2	
27759.28	3601.372	300	II					3	
27760.17	3601.256	30	II						
27760.63	3601.197	0							
27761.20	3601.123	1							
27761.80	3601.044	3	II						
27762.56	3600.946	30	II						
27763.69	3600.799	0							
27764.98	3600.632	3							
27765.63	3600.547	30	II						
27766.22	3600.471	1							
27766.71	3600.408	1000	II					A	
27766.96	3600.376	1000	II	5.5	5.5			3	37637- 9870
27767.56	3600.297	100	II						
27767.91	3600.253	300	II	3.5	4.5			1	37199- 9432
27768.57	3600.167	30	II						
27769.23	3600.081	30	II	8.5	7.5				28597- 828
27769.75	3600.014	1							
27770.49	3599.918	30	I						
27770.85	3599.871	0							
27771.53	3599.782	10							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
27773.29	3599.555	1	II						
27773.94	3599.471	300	II	1.5	1.5			3	
27774.31	3599.423	1							
27774.74	3599.367	1	II						
27775.16	3599.313	1							
27775.51	3599.267	0	II						
27776.22	3599.175	0	II						
27776.71	3599.112	0	II						
27777.28	3599.038	300	II					3	
27778.59	3598.867	3	II						
27779.26	3598.781	3							
27779.69	3598.726	100	I						
27780.45	3598.626	1	II						
27781.43	3598.500	3							
27781.89	3598.441	300	II					2	
27782.82	3598.319	100	I						
27783.31	3598.256	300	II	5.5	6.5			1	35268- 7485
27784.13	3598.151	10	II						
27785.40	3597.986	30	II						
27785.78	3597.936	300	II					2	
27786.49	3597.845	3	II						
27787.29	3597.742	10	II						
27788.34	3597.606	30	II						
27788.87	3597.537	300	I	7.0	8.0			1	8510-36300
27790.12	3597.374	3							
27790.82	3597.284	300 R	I	10.0	9.0	1.30	1.29	2	12892-40683
27791.05	3597.255	30	II						
27793.11	3596.987	30	II						
27793.70	3596.912	3	II						
27795.22	3596.715	1	II						
27796.50	3596.549	10	II						
27797.02	3596.481	300	II	4.5	4.5	1.00	0.75	3	37229- 9432
27798.53	3596.287	1	II						
27799.82	3596.120	10	II						
27800.30	3596.058	1000	II	6.5	5.5	1.320	0.992	2	37671- 9870
27800.85	3595.986	30	II						
27801.19	3595.943	C	II						
27802.41	3595.784	0	II						
27803.47	3595.648	100	II						
27803.65	3595.624	1	II						
27804.51	3595.512	30	II	5.5	5.5				35268- 7463
27805.03	3595.445	0	II						
27805.77	3595.349	10	II						
27806.29	3595.283	1000	II	3.5	4.5			1	39607-11801
27808.20	3595.036	3000	II					3	

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	CCC-EVEN	
27809.50	3594.867	3	I							
27809.68	3594.844	30	II							
27810.47	3594.742	0								
27811.36	3594.626	300	II					3		
27811.88	3594.560	1000 R	I	8.0	8.0	1.36	1.28	3	7565-35377	
27812.50	3594.480	30		7.0	7.0				31946-	4134
27812.81	3594.439	30	II							
27814.02	3594.283	100	II					1		
27814.59	3594.210	1	II							
27815.03	3594.152	3	II							
27815.30	3594.118	30	II							
27815.46	3594.097	30	II							
27816.74	3593.932	1	II							
27817.41	3593.846	10	II							
27817.79	3593.797	1								
27817.97	3593.773	100	I	8.0	8.0			3	27817-	0
27818.72	3593.676	100	II					1		
27819.25	3593.607	3	II							
27819.92	3593.522	1	I							
27820.09	3593.499	3	II							
27821.18	3593.359	10	II							
27822.14	3593.234	0								
27822.72	3593.160	300	II	7.5	6.5			2	32578-	4755
27823.10	3593.111	1								
27823.59	3593.047	30	II							
27824.63	3592.913	0	II							
27826.20	3592.710	10	II							
27826.54	3592.667	10	II							
27827.82	3592.501	1	II							
27828.52	3592.410	3	II							
27828.80	3592.375	1	II							
27829.22	3592.320	0								
27829.72	3592.255	1	II							
27830.35	3592.174	300	I					4		
27830.87	3592.107	1000	II	4.5	5.5			2	35294-	7463
27831.84	3591.982	300	II							
27832.40	3591.910	0	I							
27833.16	3591.811	1000	II					2		
27834.89	3591.588	10	I	7.0	8.0				27834-	0
27836.23	3591.415	1000	II					2		
27837.57	3591.241	3		7.0	8.0				27837-	0
27839.36	3591.011	30	II	3.5	4.5				39640-	11801
27840.08	3590.918	10	II							
27840.97	3590.805	0	II							
27842.10	3590.658	1000	II					4		

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
27842.72	3590.579	30	II							
27843.37	3590.495	100	I							
27845.09	3590.272	3	II							
27845.69	3590.196	10	I							
27845.87	3590.173	10	I							
27846.63	3590.074	1000	II					4		
27847.73	3589.933	30	II							
27848.89	3589.783	100	II	3.5	3.5			3	38802-10953	
27850.12	3589.624	30	I							
27850.87	3589.527	100	I	9.0	8.0			2	9990-37841	
27851.42	3589.457	300 R	I	8.0	8.0	1.24	1.24	4	27851-	0
27852.54	3589.313	3	II							
27853.63	3589.172	10	I							
27854.05	3589.118	100	II							
27854.32	3589.083	10	II							
27855.67	3588.909	10	II							
27856.71	3588.775	10	II							
27857.59	3588.662	3	II							
27857.93	3588.618	0	II							
27858.23	3588.580	0	II							
27859.43	3588.425	30	II	8.5	7.5				32200-	4341
27860.60	3588.274	3	II							
27861.35	3588.178	10	II							
27861.58	3588.147	10	II							
27862.23	3588.065	10	II							
27862.99	3587.966	1	I							
27863.33	3587.922	30	II							
27864.36	3587.790	100	II							
27865.12	3587.691	0	II							
27866.07	3587.570	30	II							
27867.29	3587.412	3	II							
27867.46	3587.390	100	II							
27867.85	3587.341	100	II							
27868.53	3587.253	3	II							
27869.40	3587.141	100	II							
27871.24	3586.904	30	I	7.0	6.0				34921-	7050
27871.74	3586.840	30	II							
27872.53	3586.738	10	I							
27872.89	3586.692	30	I	7.0	8.0				8519-36392	
27872.89	3586.692	30	I	7.0	7.0				32007-	4134
27873.51	3586.612	3	II							
27873.94	3586.556	1	I							
27874.75	3586.452	100	II							
27876.10	3586.278	300	II							
27876.70	3586.202	1	I							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	GCC-EVEN	
27877.39	3586.112	1000	II	6.5	7.5				2	32218- 4341
27878.87	3585.922	0	II							
27879.99	3585.778	1000	II	7.5	6.5				2	35365- 7485
27880.56	3585.705	10								
27882.33	3585.478	0	II							
27882.60	3585.442	30	I							
27883.31	3585.352	10	II							
27884.62	3585.183	0	I							
27885.59	3585.058	3000 R	II	7.5	8.5				2	27885- 0
27886.35	3584.960	1								
27887.03	3504.074	300	I							
27887.22	3584.848	3	II							
27887.77	3584.778	100	I							
27888.33	3584.706	1	I							
27888.62	3584.668	1	II							
27890.58	3584.417	1000	II	4.5	4.5	1.017	0.758	3		39691-11801
27892.58	3584.160	10	II							
27892.92	3584.117	30	II							
27893.73	3584.012	30	I							
27894.64	3583.895	0	II							
27895.32	3583.808	30	II							
27895.87	3583.737	30	II							
27896.78	3583.621	100	II						4	
27898.03	3583.459	300	I						3	
27899.23	3583.306	30	II							
27899.45	3583.277	30	I							
27900.74	3583.111	1	II							
27902.02	3582.947	0	II							
27902.41	3582.897	10	I							
27904.17	3582.671	0								
27904.60	3582.616	0	II							
27905.24	3582.534	3	II							
27906.38	3582.387	3	II							
27907.46	3582.248	3	II							
27908.22	3582.151	0	II							
27909.23	3582.021	300	II						2	
27909.87	3581.939	1	I							
27910.24	3581.891	30	I							
27910.59	3581.847	30	II							
27911.41	3581.742	10	II							
27913.26	3581.505	3	II							
27914.93	3581.290	10	II							
27916.05	3581.146	10	II							
27918.32	3580.855	1	II							
27919.08	3580.758	30	II							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
27919.79	3580.667	0								
27920.00	3580.640	100	II							
27921.53	3580.443	10	II							
27922.90	3580.268	10	I							
27923.24	3580.224	10	II							
27924.71	3580.035	1000	II	5.5	5.5	1.208	0.997	3	37795-	9870
27927.02	3579.739	0	II							
27927.27	3579.707	10	II							
27928.00	3579.614	0	II							
27929.14	3579.468	1	II							
27929.38	3579.437	300	II						A	
27929.69	3579.398	10	II							
27930.15	3579.339	30	I							
27930.40	3579.306	10	II							
27931.04	3579.224	30	II							
27931.43	3579.175	30	I							
27931.91	3579.113	300	II	5.5	4.5			2	37363-	9432
27933.81	3578.870	100	II							
27934.10	3578.832	300	II							
27934.45	3578.788	3	II							
27934.76	3578.747	1	II							
27936.14	3578.571	300	II						A	
27936.69	3578.501	30	I							
27937.59	3578.386	10	II							
27938.34	3578.289	30	II							
27940.74	3577.982	1000	II	8.5	7.5			1	32281-	4341
27942.12	3577.806	300	II					2		
27942.66	3577.737	0	II							
27943.34	3577.649	30	II							
27944.82	3577.460	1	II							
27945.56	3577.365	0								
27945.90	3577.321	30	II							
27947.78	3577.081	300 R	I	6.0	7.0			1	32082-	4134
27948.16	3577.032	3	II							
27948.50	3576.988	3								
27949.46	3576.866	3000	II	6.5	6.5			3	35434-	7485
27950.80	3576.694	30	II							
27951.31	3576.628	100	II							
27951.69	3576.580	300	II							
27954.31	3576.244	3000 R	II	7.5	6.5	1.20	1.13	2	32709-	4755
27956.19	3576.004	300	I	6.5	7.5				28784-	828
27956.29	3575.992	30	II							
27957.19	3575.876	0	I							
27957.48	3575.840	10	II							
27958.23	3575.744	10	II							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
27959.35	3575.600	100	I						A
27960.10	3575.504	10	W II						
27961.08	3575.379	30	II						
27962.63	3575.181	1	II						
27963.38	3575.084	10	II						
27963.78	3575.034	30	I						
27964.81	3574.903	30	II						
27965.73	3574.784	30	II						
27967.01	3574.620	100	II						3
27967.71	3574.531	0	II						
27960.90	3574.368	0							
27969.30	3574.328	1	II						
27969.58	3574.293	3	I						
27970.67	3574.153	1000	II	6.5	5.5				2 35434- 7463
27971.82	3574.005	30	I						
27973.20	3573.830	1000	II						4
27973.99	3573.729	0	II						
27974.78	3573.628	1	II						
27977.21	3573.318	100	I	6.0	7.0				2 32111- 4134
27978.62	3573.137	10	I						
27979.20	3573.063	100	II						2
27979.49	3573.026	10	I						
27980.07	3572.952	10	II						
27981.34	3572.790	3	II						
27982.41	3572.654	10	II						
27983.12	3572.562	10	II						
27984.18	3572.428	1	I						
27984.48	3572.389	30	I	7.0	8.0				27984- 0
27984.89	3572.337	1	II						
27985.37	3572.275	3	II						
27985.99	3572.197	10	II						
27986.79	3572.094	10	II						
27987.93	3571.948	3	II						
27988.13	3571.924	1	II						
27989.57	3571.739	100	I						
27990.14	3571.667	300	II						2
27990.83	3571.579	30	II	8.5	7.5				28819- 828
27991.93	3571.438	1000	R I	6.0	7.0	1.23	1.16	1	32126- 4134
27992.51	3571.365	100	I						
27992.68	3571.342	100	II						
27993.60	3571.226	3	II						
27994.87	3571.063	100	I						
27995.19	3571.023	100	II						
27995.70	3570.958	100	II						
27996.15	3570.900	3	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA				LEVELS CCC-EVEN
				J-C	J-E	G-C	G-E	
27997.81	3570.689	3	II					
27998.27	3570.629	10	I					
27999.25	3570.504	30	II					
27999.53	3570.469	30	II					
28003.75	3569.932	10	II					
28005.87	3569.660	1000	II					2
28007.48	3569.456	100	I					
28008.45	3569.332	300	I					1
28008.65	3569.306	1	II					
28009.07	3569.151	10	II					
28010.64	3569.053	30	II					
28010.98	3569.010	10	II					
28012.87	3568.769	10	II					
28013.10	3568.739	30	I					
28013.20	3568.727	30	I					
28013.98	3568.627	10	II					
28015.23	3568.468	3	II					
28015.70	3568.409	100	II					4
28016.05	3568.363	10	II					
28018.63	3568.035	300	II	4.5	3.5	1.227	0.476	2 38972-10953
28019.21	3567.961	10	II					
28019.83	3567.883	3	II					
28020.45	3567.804	100						
28021.37	3567.686	30	II					
28021.89	3567.620	30	I					
28022.49	3567.543	0						
28023.23	3567.449	3	II					
28024.41	3567.299	0	I					
28025.78	3567.124	1	I					
28025.87	3567.113	1	I					
28026.31	3567.057	3	II					
28027.23	3566.940	3	I					
28027.66	3566.886	100	II					
28028.18	3566.820	1	II					
28028.45	3566.785	10	I					
28028.79	3566.741	3	I					
28029.73	3566.622	10	I	8.0	8.0			28029- 0
28030.21	3566.561	100	II					
28031.11	3566.446	10	II					
28031.68	3566.374	30	II					
28032.02	3566.331	3	II					
28033.19	3566.182	30	II					
28033.84	3566.099	30	II					
28034.19	3566.055	30	II					
28034.63	3565.998	100	I					

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WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA				TYPE	LEVELS ODD-EVEN
				J-G	J-E	G-G	G-E		
28035.57	3565.879	30	I						
28035.95	3565.830	1	I						
28037.08	3565.686	300		4.5	4.5	1.233	0.763	3 39838-11801	
28037.69	3565.610	10	II						
28038.19	3565.546	3	II						
28038.45	3565.513	0	II						
28039.20	3565.417	0	II						
28040.09	3565.304	3	I						
28040.36	3565.269	10	II						
28041.57	3565.116	0	II						
28044.31	3564.768	10	II						
28044.86	3564.697	10	II						
28045.31	3564.640	1	I						
28045.94	3564.561	10	II						
28046.26	3564.520	30	II						
28046.66	3564.469	0	II						
28047.48	3564.364	1	I						
28048.48	3564.237	1000	I			0.281	1.279	3	
28049.54	3564.103	30	II						
28050.08	3564.035	10	II						
28051.43	3563.862	3	I						
28051.75	3563.822	30	II						
28052.78	3563.692	1000	II	5.5	6.5	1.409	1.266	1	
28053.86	3563.554	300	II	4.5	4.5			3 39854-11801	
28054.65	3563.453	100	II						
28055.11	3563.395	100	I						
28055.43	3563.354	10	I						
28057.06	3563.148	10000	R II	7.5	7.5			3 28885- 828	
28058.20	3563.003	30	I						
28059.91	3562.786	30	II						
28060.62	3562.696	300						2	
28063.75	3562.299	100	II						
28064.97	3562.143	30	II						
28065.49	3562.078	10	II						
28066.93	3561.894	10	II						
28067.50	3561.823	10	II						
28069.18	3561.609	30	II						
28069.64	3561.551	10	II						
28071.91	3561.263	30	II						
28072.13	3561.235	10	I						
28074.09	3560.986	0	II						
28074.73	3560.905	3	I						
28074.93	3560.879	1	II						
28075.37	3560.824	10	I						
28076.02	3560.742	100	I					2	

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
28076.23	3560.715	0	II							
28078.64	3560.409	100	II	7.5	6.5			1	32834-	4755
28079.70	3560.274	10	II							
28080.24	3560.207	100	I							
28080.77	3560.139	1000	II							
28081.51	3560.045	3 W	I							
28082.07	3559.974	0	II							
28083.99	3559.731	0								
28084.68	3559.643	0								
28085.30	3559.564	100		5.5	4.5			A	37517-	9432
28085.74	3559.509	10	II							
28086.68	3559.390	100	I							
28087.43	3559.295	1000	II	4.5	5.5	1.150	0.993	1	37958-	9870
28088.27	3559.188	30	I							
28089.32	3559.055	0	II							
28090.00	3558.969	3	II							
28090.27	3558.936	3	II							
28090.60	3558.893	0	II							
28090.89	3558.856	3	II							
28092.49	3558.654	0	II							
28093.14	3558.572	10	I							
28093.62	3558.511	30	I							
28093.62	3558.511	30	II							
28094.99	3558.337	300	II							
28095.82	3558.232	1000		4.5	4.5	1.172	0.828	3	37527-	9432
28096.73	3558.117	300	II					A		
28097.40	3558.031	10	II							
28099.98	3557.705	30	II							
28100.64	3557.621	300	II					1		
28102.85	3557.542	1	II							
28103.29	3557.286	30	II							
28104.12	3557.181	300	I					1		
28104.77	3557.098	3	II							
28105.47	3557.010	100	II							
28106.80	3556.842	100 W	I							
28109.11	3556.550	10	I							
28109.79	3556.463	0	II							
28109.91	3556.448	3 W	II							
28110.14	3556.420	0								
28111.62	3556.232	1	I							
28112.26	3556.152	0	II							
28112.79	3556.084	1	I							
28113.69	3555.970	300	II					2		
28114.43	3555.876	30	II							
28114.98	3555.807	10	II							

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
28116.01	3555.677	100	II						4
28117.56	3555.481	10	II						
28118.09	3555.413	10	II						
28118.41	3555.373	10	II						
28118.77	3555.328	100 W	I						4
28119.44	3555.244	300	II						4
28121.69	3554.959	0							
28122.51	3554.855	300	II						4
28125.02	3554.537	30	I						
28125.99	3554.415	30	I						
28127.31	3554.248	300	II	3.5	3.5				3 39081-10953
28128.22	3554.133	100	II						
28128.83	3554.057	1	II						
28129.55	3553.965	30	II						
28130.14	3553.890	100	I						
28131.19	3553.758	30	II						
28134.12	3553.387	10	II						
28134.33	3553.361	0	II						
28134.80	3553.301	10	I						
28135.14	3553.259	10	II						
28135.55	3553.208	300	II						4
28135.92	3553.160	300	II						3
28136.83	3553.046	300	I	10.0	9.0				2 12892-41029
28137.57	3552.952	3	II						
28140.74	3552.552	30	II						
28141.60	3552.443	0							
28144.95	3552.021	300	II						A
28145.70	3551.926	30	II						
28146.93	3551.771	100	I						
28148.16	3551.616	3000 R	II	5.5	6.5	1.09	1.13		2 32903- 4755
28151.86	3551.148	1000	I						2
28153.15	3550.985	100	II						
28153.33	3550.963	1	II						
28154.05	3550.873	10	II						
28154.23	3550.850	0							
28155.36	3550.708	0	II						
28155.60	3550.677	30	II	8.5	7.5				32496- 4741
28156.09	3550.614	30 W	II						
28156.97	3550.504	3	II						
28159.24	3550.218	10000 R	II	6.5	6.5	1.22	1.13		3 32914- 4755
28159.87	3550.138	300	II						
28161.66	3549.913	30	II						
28161.96	3549.875	10	II						
28162.56	3549.799	3	II						
28163.46	3549.686	1	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
28166.93	3549.248	300						2	
28167.61	3549.163	10	II						
28168.08	3549.104	30	II						
28168.81	3549.011	1	II						
28171.15	3548.717	300	II			0.206	1.352	3	
28172.15	3548.591	30	I						
28172.76	3548.514	3	I						
28172.90	3548.496	0	II						
28173.69	3548.397	0	II						
28174.02	3548.356	30	II						
28174.81	3548.256	30	I						
28175.31	3548.193	1000	II					2	
28175.48	3548.172	10	II	6.0	7.0				10088-38264
28176.31	3548.067	100	I						
28176.56	3548.035	3	I						
28177.14	3547.962	100	I	8.0	8.0			3	28177- 0
28177.54	3547.912	300	II					3	
28178.19	3547.831	30	I	7.0	8.0				12655-40833
28180.16	3547.582	100	II						
28180.51	3547.538	300				0.101	1.347	3	
28180.80	3547.502	10	II						
28182.36	3547.306	3	II	5.5	4.5				37614- 9432
28184.29	3547.063	30	I						
28184.72	3547.008	300	II						
28185.57	3546.901	10	I						
28186.12	3546.831	3000	II	8.5	7.5			2	29014- 828
28187.46	3546.664	10	II						
28188.64	3546.515	0	II						
28190.95	3546.224	0							
28191.90	3546.105	100	II						
28192.72	3546.002	30	II						
28192.58	3545.969	30	I						
28193.82	3545.864	0	I						
28193.97	3545.845	3	I						
28194.34	3545.798	1	II						
28194.58	3545.768	300	II					1	
28195.71	3545.625	100	II					1	
28196.32	3545.549	0							
28196.91	3545.475	10	I	8.0	9.0				7565-35762
28197.19	3545.440	10	I						
28197.67	3545.379	10	I						
28197.89	3545.351	100	II					2	
28198.16	3545.318	10	II						
28198.63	3545.259	100	II					4	
28199.82	3545.109	0							

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA		TYPE	LEVELS
						G-C	G-E		OCC-EVEN
28200.21	3545.059	0	I						
28200.52	3545.021	30	II						
28200.75	3544.992	1000	II	5.5	6.5			1	35685- 7485
28201.41	3544.909	3	II						
28201.72	3544.870	0	II						
28201.99	3544.836	1							
28202.65	3544.754	30	II						
28203.40	3544.659	10	II						
28203.68	3544.623	30	II						
28204.32	3544.544	1 W	II						
28204.89	3544.472	C	II						
28205.47	3544.398	C	II						
28205.88	3544.347	1000	II	5.5	4.5	1.124	0.828	2	37637- 9432
28207.02	3544.204	1000	II					3	
28207.61	3544.130	1	II						
28208.34	3544.038	300	II					1	
28208.90	3543.968	3	II						
28209.12	3543.940	100	I						
28210.03	3543.826	100	II						
28210.56	3543.759	30	II						
28210.76	3543.734	30	II						
28211.73	3543.612	10	II						
28212.07	3543.569	1	I						
28213.37	3543.406	0	II						
28213.92	3543.337	1	II						
28215.55	3543.132	100	II						
28216.98	3542.953	C	II						
28217.68	3542.865	300	II					3	
28218.32	3542.784	30	II						
28218.72	3542.734	1 Q	II						
28218.83	3542.721	30	II						
28219.43	3542.646	3	II						
28221.22	3542.420	100	I						
28221.97	3542.327	3000	B II	5.5	5.5	1.228	1.021	3	35685- 7463
28221.97	3542.327	B	II					2	
28222.37	3542.276	300	II						
28223.44	3542.142	C	II						
28223.80	3542.097	1	II						
28225.97	3541.824	300	II					1	
28226.88	3541.710	1	II						
28227.06	3541.687	30	II						
28227.93	3541.579	10	II						
28228.40	3541.520	30	II						
28229.09	3541.432	3	II						
28229.50	3541.381	30	II						

TABLE

DY LINE LIST

PAGE 471

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
28261.75	3537.341	30	I						
28262.15	3537.290	10	II						
28262.84	3537.204	10	I						
28263.08	3537.174	30	II						
28263.41	3537.132	10	I						
28263.99	3537.059	100	I						
28264.58	3536.986	30	II	5.5	5.5				35728- 7463
28264.84	3536.954	1	II						
28265.58	3536.860	100	II					2	
28267.08	3536.674	3	II						
28267.79	3536.585	300						4	
28268.37	3536.512	3	II						
28269.56	3536.363	10	I						
28271.47	3536.125	10							
28272.31	3536.019	10000 R	II	8.5	7.5			1	32613- 4341
28273.98	3535.810	1	II						
28275.42	3535.630	30	II						
28276.26	3535.525	30	II					A	
28276.78	3535.459	0							
28277.53	3535.367	300	II					4	
28278.55	3535.239	10	II						
28278.97	3535.186	300	I						
28280.79	3534.959	10000 R	II	7.5	7.5			3	29109- 828
28282.00	3534.807	3	II						
28282.79	3534.709	3	II						
28284.06	3534.549	1	II						
28284.40	3534.508	100	I					4	
28284.86	3534.450	100	II					1	
28285.00	3534.433	300	I					3	
28285.72	3534.343	0	II						
28286.07	3534.298	3	II						
28286.47	3534.249	1	II						
28286.98	3534.185	1	I						
28288.19	3534.033	300 R	I	7.0	8.0			4	8519-36807
28289.71	3533.844	30	II						
28290.09	3533.796	1	I						
28290.47	3533.749	300	II	4.5	4.5			3	40091-11801
28290.82	3533.706	0	I						
28291.36	3533.638	30	I						
28291.55	3533.614	0	II						
28292.75	3533.465	3	II						
28293.48	3533.373	1	II						
28294.37	3533.262	100	I	9.0	9.0				9990-38285
28295.26	3533.151	0	II						
28295.95	3533.065	C							

TABLE

DY LINE LIST

PAGE 472

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	OCC-EVEN	
28296.34	3533.016	1	II							
28297.40	3532.884	30	I	6.0	7.0				32431-	4134
28297.67	3532.850	0	II							
28300.18	3532.536	300	II						2	
28301.06	3532.427	300	II						1	
28306.84	3531.706	10000	R II	9.5	8.5	1.26	1.29	2	28306-	0
28311.23	3531.158	1	II							
28312.86	3530.954	30	II							
28314.46	3530.755	3	II							
28315.28	3530.653	10	I	5.0	6.0					35365- 7050
28315.98	3530.566	100	II						2	
28316.58	3530.490	30	II							
28316.88	3530.453	10	II							
28317.54	3530.371	1000	R I	10.0	9.0	1.30	1.25	2	12892-	41210
28318.60	3530.239	3	II							
28320.14	3530.047	0								
28322.22	3529.787	3	II	3.5	4.5				1	37764- 9432
28322.58	3529.693	0								
28323.58	3529.619	1	II							
28324.02	3529.563	30	II							
28324.45	3529.510	0	II							
28325.10	3529.429	1								
28325.48	3529.381	1	II							
28326.09	3529.305	10	II							
28327.35	3529.148	10	II							
28327.53	3529.126	10	I							
28328.30	3529.030	1000	II						2	
28329.37	3528.896	300	II						3	
28329.65	3528.861	10	I	5.0	5.0					37541- 9211
28330.27	3528.784	300	II							
28331.18	3528.671	0	II							
28332.78	3528.472	100	II						1	
28333.48	3528.385	3	II							
28334.27	3528.287	3	I							
28334.94	3528.203	30	I							
28335.91	3528.083	10	I							
28336.62	3527.993	30	II						3	
28338.55	3527.754	100	I						3	
28338.92	3527.707	300	I	9.0	10.0				1	9990-38329
28341.10	3527.436	30	I							
28341.47	3527.390	3	I							
28342.32	3527.284	3	I							
28342.78	3527.228	1	II							
28343.18	3527.178	1000	I						2	
28343.89	3527.088	300	II						A	

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS CCC-EVEN
						G-C	G-E	TYPE	
28344.59	3527.002	30	II						
28345.37	3526.905	300	II					2	
28345.90	3526.839	300	II						
28346.17	3526.805	10	I						
28346.31	3526.788	0	I						
28346.76	3526.731	1	II						
28347.52	3526.637	300	II	4.5	3.5			2	39301-10953
28348.09	3526.566	30	II						
28349.57	3526.382	10	I						
28350.20	3526.303	1							
28352.21	3526.054	1	I						
28353.28	3525.921	10	II						
28353.78	3525.859	10	II						
28354.68	3525.746	1000	II	3.5	3.5	1.021	0.474	3	39308-10953
28357.87	3525.350	1	II						
28358.27	3525.300	1							
28358.64	3525.254	0	II						
28359.39	3525.162	0							
28361.25	3524.930	300	II					1	
28361.73	3524.870	0	II						
28362.11	3524.823	3	II						
28363.64	3524.633	300 B		5.5	4.5	1.210	*0.825	2	37795- 9432
28363.64	3524.633	300 B	I	6.0	7.0				10088-38452
28364.11	3524.574	30	II	6.5	7.5			4	32705- 4341
28365.30	3524.427	100	I	9.0	8.0				9990-38356
28366.70	3524.252	3	II						
28368.88	3523.982	1000 R	II	7.5	7.5			3	32709- 4341
28370.42	3523.790	3	I						
28370.77	3523.747	C							
28373.12	3523.455	300 R	I	8.0	8.0	1.36	1.35	3	7565-35938
28373.94	3523.353	0	II						
28374.25	3523.315	30	I						
28374.74	3523.254	100	I	8.0	9.0				7565-35940
28375.11	3523.208	300	II	3.5	4.5			A	40176-11801
28375.63	3523.143	10	II						
28376.42	3523.046	1	II						
28377.07	3522.964	30	II						
28377.21	3522.947	1	II						
28377.91	3522.861	1000		4.5	5.5			1	35841- 7463
28379.43	3522.672	300	I						
28380.04	3522.596	C	II						
28380.83	3522.498	1	II	6.5	5.5				38251- 9870
28380.96	3522.482	C	II						
28381.93	3522.361	10	II						
28382.61	3522.277	300	II					1	

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	CCC-EVEN	
28383.23	3522.200	1	II							
28384.51	3522.041	1	II							
28385.46	3521.923	0	I							
28385.67	3521.897	10	II							
28385.82	3521.879	3	II							
28388.94	3521.491	100	I	8.0	7.0				4	12007-40396
28389.66	3521.407	1	II							
28391.19	3521.213	10	II							
28391.64	3521.157	1000	I							
28392.78	3521.015	300	II						3	
28393.16	3520.968	30	II							
28394.08	3520.854	10	II							
28394.35	3520.820	10	I							
28395.11	3520.726	1	II							
28395.92	3520.626	0	II							
28396.94	3520.500	0	II							
28398.16	3520.349	1	II							
28400.05	3520.114	10	II							
28401.75	3519.903	300	II	1.5	2.5	1.717	1.451	1		
28402.86	3519.765	300	II					2		
28403.68	3519.665	300	II						4	
28407.41	3519.202	3	II	3.5	4.5					37839- 9432
28408.20	3519.104	3	II							
28408.81	3519.028	0	II							
28410.50	3518.819	10	II							
28411.30	3518.721	10	II							
28411.94	3518.640	30	II							
28412.69	3518.548	10	II							
28413.46	3518.452	10	II							
28414.17	3518.364	3	II							
28415.14	3518.245	10	II							
28415.52	3518.197	1								
28416.48	3518.078	1	II							
28417.65	3517.934	10	II							
28418.00	3517.891	0	II							
28419.16	3517.746	100	II							
28420.14	3517.625	100	I							
28420.37	3517.598	100	II							
28422.27	3517.362	10	II							
28422.83	3517.293	300	II	5.5	4.5	1.075	0.757	2		40223-11801
28423.08	3517.261	1000	II	2.5	3.5	0.701	0.466	1		39377-10953
28424.79	3517.050	1								
28426.48	3516.841	3	I	6.5	5.5					38297- 9870
28427.12	3516.761	3	II							
28428.66	3516.572	0	II							

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TABLE

CY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT°	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
28428.94	3516.537	3	II						
28429.15	3516.511	3	II						
28429.60	3516.455	3	I						
28430.28	3516.371	3	I						
28430.49	3516.345	10	II						
28430.73	3516.315	3	I	7.0	7.0				32564- 4134
28431.87	3516.174	0							
28432.37	3516.112	1							
28435.14	3515.769	1000 R	I	7.0	8.0			1	8519-36954
28435.68	3515.703	100	II						
28436.40	3515.614	300	II					1	
28436.92	3515.550	30	II						
28437.93	3515.425	10	II						
28438.18	3515.394	10	II						
28438.65	3515.336	0							
28439.23	3515.264	1							
28439.68	3515.209	0	II						
28440.04	3515.164	100	II						
28440.58	3515.097	100	I	1.0	2.0			1	
28441.13	3515.030	300	II					3	
28443.02	3514.795	100	II						
28443.54	3514.732	10	I						
28444.10	3514.663	100	II						
28444.68	3514.591	30	I						
28445.12	3514.536	100	II						
28445.47	3514.493	100	II						
28446.71	3514.340	100	II						
28446.92	3514.313	3	I						
28447.20	3514.279	1	I						
28447.98	3514.182	10	II						
28448.40	3514.131	300	II					4	
28448.81	3514.081	10	II						
28449.42	3514.005	3	II						
28450.34	3513.891	300	I					2	
28450.71	3513.846	30	II	7.5	7.5				29279- 828
28451.61	3513.734	30	II						
28453.03	3513.559	10	II						
28453.38	3513.516	100	I	9.0	9.0			3	9990-38444
28454.07	3513.430	0	II						
28454.87	3513.332	0	II						
28455.40	3513.267	3	I						
28455.61	3513.241	0	II						
28455.87	3513.208	10	II						
28456.97	3513.072	0	II						
28457.19	3513.046	100	II						

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA		LEVELS	
				J-C	J-E	G-C	G-E
28458.62	3512.869	30	I				
28459.70	3512.735	10	II				
28460.00	3512.699	1000	II				3
28460.58	3512.627	10	II				
28461.16	3512.556	1000	II				3
28462.73	3512.362	10	II				
28463.21	3512.302	300	II				3
28464.70	3512.118	30	II				
28465.03	3512.078	30	II				
28465.07	3511.974	300	II				3
28466.58	3511.887	1	I				
28466.93	3511.844	100	II				A
28467.54	3511.768	300	II				1
28468.22	3511.685	1000	II				3
28468.81	3511.612	30	I				
28469.56	3511.520	0	II				
28469.71	3511.500	3	II				
28470.08	3511.455	10	II				
28470.79	3511.368	100	II				
28470.91	3511.353	C	II				
28471.63	3511.264	10	II				
28473.65	3511.015	1000 R	I	6.0	7.0		1 32607- 4134
28473.93	3510.981	1	II				
28474.81	3510.872	10	II				
28475.18	3510.826	30	I				
28477.62	3510.526	1	I				
28477.73	3510.512	1	I				
28480.36	3510.188	10	II	4.5	5.5		38351- 9870
28480.62	3510.155	10	II				
28481.30	3510.072	3	II				
28481.45	3510.053	10	II				
28482.36	3509.941	1	II				
28483.46	3509.805	3	I				
28485.16	3509.597	30	I				
28485.48	3509.557	C	II				
28486.47	3509.435	100	II				2
28487.23	3509.341	1	II				
28488.12	3509.231	10	II				
28489.52	3509.059	10	II				
28489.90	3509.012	100	II				1
28492.59	3508.681	0	II				
28493.17	3508.610	3	II	7.5	7.5		32834- 4341
28494.03	3508.503	0					
28494.36	3508.463	3	II				
28496.27	3508.227	0	II				

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	GDD-EVEN	
28497.34	3508.095	3	II							
28497.87	3508.031	10	I							
28498.17	3507.993	1	II							
28499.35	3507.849	1	II							
28499.78	3507.796	0	II							
28500.61	3507.693	100	I							
28501.91	3507.534	300	II							
28503.94	3507.284	3	II							
28505.04	3507.149	30	II							
28506.38	3506.984	0	II							
28507.76	3506.813	3000	R II	8.5	7.5			2	29336-	828
28508.69	3506.699	3	II							
28509.19	3506.638	100	II							
28510.36	3506.493	3	II							
28511.39	3506.367	30	II							
28512.36	3506.247	300	II					1		
28513.69	3506.085	10	II							
28514.07	3506.038	300	II					2		
28514.37	3506.001	3	Q I							
28515.39	3505.875	3	I							
28515.64	3505.844	300	II					P		
28516.48	3505.741	10	II							
28516.70	3505.714	0								
28517.95	3505.561	100	II							
28518.30	3505.518	30	I	8.0	8.0				28518-	0
28518.82	3505.453	1000	II	6.5	6.5			3	36003-	7485
28519.09	3505.420	300	II					3		
28521.12	3505.171	300	II					1		
28521.79	3505.089	100	II							
28523.03	3504.936	300	II	5.5	6.5			A	33278-	4755
28523.94	3504.824	0	II							
28524.37	3504.771	3	II							
28524.60	3504.743	10	II							
28525.90	3504.584	1	II							
28526.34	3504.529	1000	II	4.5	4.5	1.173	0.835	3	37958-	9432
28526.59	3504.498	1000	II			1.32	1.32	4		
28529.11	3504.190	10	II							
28529.70	3504.117	30	II							
28530.56	3504.011	3	II							
28531.07	3503.948	1	II							
28531.70	3503.871	100	II							
28532.23	3503.806	1	Q I							
28532.41	3503.784	100	II							
28533.39	3503.663	300	II					A		
28533.79	3503.614	1	II							

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
28535.82	3503.365	300	II						
28536.45	3503.288	10	II						
28536.86	3503.238	300							
28537.38	3503.174	1000	I	4.5	5.5			P	36001- 7463
28538.59	3503.025	300	II					3	
28539.16	3502.955	0	II						
28540.04	3502.847	300	I	6.5	5.5			2	36003- 7463
28541.72	3502.640	300	I					A	
28541.98	3502.609	30	I						
28542.70	3502.520	1	II						
28543.72	3502.395	0	II						
28545.12	3502.224	100	II						
28545.78	3502.143	300	II	3.5	3.5			3	39499-10953
28546.20	3502.091	300	I					2	
28546.78	3502.020	10	II						
28547.35	3501.951	100	I						
28548.09	3501.859	300	II					2	
28548.76	3501.777	3	I	7.0	8.0				12655-41203
28549.30	3501.711	10	I						
28549.94	3501.632	0	II						
28551.06	3501.495	100	I	9.9	6.5				33306- 4755
28551.60	3501.429	1000	II					1	
28552.06	3501.373	10	II						
28552.75	3501.288	100	II						
28553.29	3501.222	0	II						
28553.84	3501.154	30	I	8.0	7.0				7565-36119
28556.63	3500.812	10	II						
28557.50	3500.705	0	II						
28558.29	3500.609	3	I						
28558.58	3500.573	10	II						
28559.08	3500.512	300	II					3	
28560.35	3500.356	30	II						
28561.50	3500.215	30	II						
28563.55	3499.964	1000		6.5	6.5			3	33319- 4755
28564.38	3499.862	300	II					2	
28565.54	3499.721	30	II						
28566.36	3499.620	100	II					2	
28566.55	3499.597	30	II						
28568.01	3499.417	30	II						
28569.04	3499.291	10	II						
28570.06	3499.167	0	II						
28570.76	3499.081	1	II						
28570.97	3499.055	1	I						
28571.96	3498.934	1000	II	5.5	6.5			1	36057- 7485
28572.27	3498.897	100	I	6.0	7.0				11673-40245

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	CCC-EVEN	
28573.81	3498.707	3000	II	6.5	7.5			2	32914-	4341
28574.46	3498.628	1	II							
28575.13	3498.546	30	W II							
28576.32	3498.399	10	I							
28578.18	3498.172	3	I							
28578.53	3498.129	10	II							
28579.00	3498.072	3	I							
28580.22	3497.922	100	II							
28581.11	3497.813	1000	II					1		
28582.20	3497.680	3	II							
28582.92	3497.592	100	II							
28584.50	3497.399	30	II							
28584.67	3497.378	0	I							
28584.96	3497.343	30	II							
28585.87	3497.231	0	II							
28586.66	3497.134	300	II	4.5	5.5			1	38457-	9870
28586.83	3497.113	10	I							
28587.21	3497.067	10	II							
28589.01	3496.847	30	II							
28590.11	3496.712	100	II					3		
28590.45	3496.671	30	II							
28591.95	3496.487	0	II							
28593.16	3496.339	1000	II	5.5	5.5			3	36057-	7463
28594.07	3496.228	100	II					4		
28596.17	3495.971	1	II							
28596.43	3495.939	10	I							
28597.57	3495.800	1	II	8.5	8.5				28597-	0
28599.22	3495.598	3	II							
28600.54	3495.437	30	II							
28600.76	3495.410	3	II							
28601.48	3495.322	10	II							
28602.49	3495.199	0	I							
28602.94	3495.144	3	II							
28603.56	3495.068	0	I							
28604.26	3494.982	1	II							
28605.50	3494.831	100	II					4		
28605.75	3494.801	10	II							
28606.23	3494.742	300	I	7.0	6.0			4	8519-	37125
28608.28	3494.491	10000	R II	7.5	7.5			3	29436-	828
28611.26	3494.127	1000	II	4.5	5.5			1		
28612.08	3494.027	30	I							
28612.75	3493.946	100	II					4		
28613.34	3493.873	0	II							
28614.17	3493.773	1	II							
28615.28	3493.637	1	II							

TABLE

DY LINE LIST

PAGE 480

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS	
				J-C	J-E	G-C	G-E	TYPE
28616.17	3493.529	1	I					
20616.85	3493.445	0	II					
28617.08	3493.417	0	II					
28618.04	3493.300	100	I					
28618.13	3493.289	3	II					
28618.51	3493.243	30	I					
28619.28	3493.149	0	II					
28619.51	3493.120	0	II					
28619.79	3493.007	30	II					
28620.91	3492.950	1	II					
28622.13	3492.801	0	II					
28623.62	3492.619	0	II					
28624.10	3492.560	0	II	5.5	5.5			38495- 9870
28624.57	3492.503	100	II					
28624.89	3492.464	0	II					
28626.24	3492.299	30	I					
28626.59	3492.257	3	II	5.5	4.5			40427-11801
28628.27	3492.052	10	II					
28628.67	3492.247	0	II					
28631.21	3491.693	3	II					
28631.71	3491.632	0	II					
28632.22	3491.570	30	I					
28632.53	3491.531	3	II					
28633.02	3491.472	3	I					
28634.54	3491.287	30	II					
28634.94	3491.239	10	II					
28637.34	3490.945	100	II					
28637.87	3490.880	100	II					
28638.48	3490.807	10	I					
28639.77	3490.649	300	II					3
28641.49	3490.439	30	II					
28641.81	3490.401	100	II					3
28643.00	3490.256	30	II					
28643.94	3490.141	10	I					
28645.09	3490.001	0	II					
28645.94	3489.897	100	II					
28647.10	3489.756	30	II					
28647.57	3489.698	3	II					
28648.85	3489.543	300	I	6.0	7.0			1 10088-38737
28649.28	3489.490	100	II					
28650.16	3489.383	10	II					
28650.96	3489.285	0	II					
28651.20	3489.257	1	II					
28651.89	3489.172	3	II					
28653.04	3489.033	100	II					

TABLE

DY LINE LIST

PAGE 481

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
28653.35	3488.994	300	II	3.5	3.5			3	39607-10953
28654.46	3488.859	3	II						
28655.62	3488.718	C	II						
28656.43	3488.620	100	I	6.0	7.0				32790- 4134
28657.53	3488.486	3	II						
28658.11	3488.416	100	II						
28658.59	3488.308	100	II						
28659.59	3488.235	30	II						
28659.94	3488.192	300	I					3	
28660.62	3488.110	0	I						
28661.26	3488.032	3	I						
28662.17	3487.921	30	II						
28663.29	3487.784	1	II						
28664.45	3487.643	30	II						
28664.77	3487.605	300	II					3	
28665.06	3487.569	300	II					4	
28666.68	3487.372	30	II						
28667.78	3487.238	100	II						
28668.12	3487.197	300	II					2	
28669.33	3487.050	30	II						
28670.19	3486.945	100	II					4	
28671.21	3486.821	3	II						
28673.44	3486.550	C	II						
28674.47	3486.424	C	II						
28674.82	3486.383	30	I						
28675.27	3486.328	0	II						
28675.84	3486.258	30	II						
28676.14	3486.222	10	II						
28676.76	3486.146	300	II					A	
28677.57	3486.047	C	II						
28678.14	3485.978	1	I						
28678.64	3485.918	300	II					1	
28680.41	3485.703	0	II						
28680.76	3485.660	100	II						
28681.53	3485.567	1							
28682.08	3485.499	1	II						
28682.61	3485.436	100	II					3	
28682.84	3485.408	30	II	6.5	6.5				33438- 4755
28683.31	3485.350	30	II						
28683.93	3485.275	10	II						
28685.53	3485.081	0	II						
28686.43	3484.971	3	II	3.5	3.5				39640-10953
28687.17	3484.881	300	II					1	
28688.44	3484.727	100	II						
28688.86	3484.677	1000	II					4	

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
28689.64	3484.582	30	I						
28689.76	3484.567	1	I						
28690.12	3484.523	100	II					4	
28691.19	3484.394	1	II						
28691.61	3484.342	1							
28692.86	3484.190	300 R	I	7.0	7.0			3	8519-37212
28693.41	3484.123	30	II						
28694.34	3484.011	0	II						
28694.60	3483.978	30	I						
28695.81	3483.832	10	II						
28698.08	3483.556	3	II						
28700.07	3483.315	100	I	6.0	7.0			1	32834- 4134
28700.39	3483.277	30	II						
28701.54	3483.137	1	II						
28702.07	3483.073	30	II						
28703.83	3482.859	10	I						
28704.55	3482.772	300	II					2	
28705.65	3482.639	3	II						
28706.22	3482.569	0	II						
28706.75	3482.504	100	II						
28707.34	3482.433	30	I						
28707.61	3482.400	100	II						
28709.09	3482.221	30	II						
28709.72	3482.144	30	I						
28710.06	3482.102	100	II						
28710.41	3482.061	100	I						
28710.99	3481.989	1	II						
28711.08	3481.978	10	II	5.5	6.5				33466- 4755
28712.00	3481.868	3	I						
28712.26	3481.836	3	I						
28712.58	3481.797	3	II						
28713.13	3481.731	3	II						
28713.56	3481.678	3	II						
28714.02	3481.623	100	II						
28714.18	3481.604	3	I						
28715.85	3481.401	3	II						
28716.19	3481.359	1	I						
28716.55	3481.315	1	II						
28717.70	3481.177	30	II						
28717.97	3481.144	30	II						
28718.67	3481.059	10	II						
28719.58	3480.948	100	II						
28720.72	3480.811	300	II					3	
28721.78	3480.682	10	II						
28722.10	3480.643	3	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
28722.62	3480.580	10	II						
28723.95	3480.419	300	II					2	
28726.16	3480.152	0	II						
28726.99	3480.050	30	II						
28729.39	3479.761	300	II	5.5	5.5			3	
28730.72	3479.598	10	II						
28731.92	3479.454	0	II						
28732.22	3479.417	10 W	II						
28733.52	3479.260	10	II						
28734.62	3479.126	1 W	II						
28735.52	3479.018	0	II						
28735.79	3478.985	1	II						
28736.44	3478.906	3	I						
28736.68	3478.877	100	I						
28737.64	3478.761	300	II	4.5	3.5			2	39691-10953
28738.68	3478.635	10	II						
28739.63	3478.520	0							
28739.98	3478.477	300	II	4.5	4.5			3	40541-11801
28740.64	3478.398	1	II						
28741.00	3478.355	1	II						
28741.58	3478.283	3	II						
28741.75	3478.263	3	II						
28741.85	3478.251	3	II						
28742.47	3478.177	1000 R	I	8.0	8.0			3	7565-36308
28743.50	3478.052	10	I						
28743.97	3477.994	3	I						
28744.53	3477.927	300	II					4	
28745.79	3477.774	10	I						
28746.16	3477.730	0	II						
28746.88	3477.643	0							
28747.82	3477.528	300	II					3	
28748.40	3477.459	1	II						
28748.89	3477.400	100	II					A	
28751.64	3477.067	3000	II	5.5	6.5			4	33507- 4755
28753.08	3476.893	3	II						
28754.48	3476.723	30	II						
28757.46	3476.363	100	II	3.5	4.5			2	
28757.73	3476.331	3	II						
28758.46	3476.243	3	I						
28758.91	3476.187	1	II						
28759.85	3476.074	3	II						
28760.31	3476.018	0	II						
28760.88	3475.950	1	II						
28762.77	3475.721	30	II						
28763.30	3475.657	100	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	CCC-EVEN	
28764.08	3475.563	3	II							
28765.31	3475.414	3C	II							
28765.96	3475.337	1CC	II						3	
28766.78	3475.237	100	II							
28770.29	3474.813	1C	II							
28770.84	3474.746	C	II							
28771.20	3474.703	3C	II							
28771.55	3474.661	C	II							
28772.23	3474.579	1	II							
28772.75	3474.516	3C	I							
28773.73	3474.397	1C	II							
28774.57	3474.295	300	II						3	
28774.80	3474.269	30C	II						3	
28776.76	3474.031	300 R	I	7.0	7.0				3	8519-37295
28777.55	3473.936	C	II							
28779.54	3473.696	1000	II	5.5	6.5				4	36264- 7485
28780.49	3473.581	1C	I							
28781.16	3473.501	1C	I							
28782.10	3473.387	3	II							
28782.32	3473.360	3	I							
28782.82	3473.300	300	II	4.5	4.5				3	
28783.59	3473.208	C	II							
28783.89	3473.171	3	II							
28784.39	3473.111	10	I							
28784.89	3473.051	1	II							
28785.76	3472.946	100	II							
28785.92	3472.927	30	I							
28787.11	3472.782	1	I							
28787.74	3472.707	1	II							
28788.52	3472.612	3	II							
28788.67	3472.595	3	II							
28789.21	3472.529	3C	II							
28790.34	3472.393	1C	II							
28790.88	3472.328	1	I							
28791.59	3472.242	300	II						2	
28792.07	3472.184	0								
28792.91	3472.083	3C	II							
28793.48	3472.014	3C	II							
28794.01	3471.951	300	II	6.5	6.5				3	36279- 7485
28795.23	3471.803	30C R	I	8.0	8.0	1.22	1.24		3	28795- 0
28796.87	3471.606	1000	II	4.5	5.5				2	36260- 7463
28797.52	3471.527	1000	II	6.5	6.5				3	36282- 7485
28798.45	3471.415	10	II							
28799.15	3471.331	10	II							
28799.76	3471.257	10	II							

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-G		ZEEMAN DATA			LEVELS	
				J-E	G-G	G-E	TYPE	ODD-EVEN		
28800.34	3471.187	10	I							
28800.75	3471.138	1000	II	5.5	5.5			3	36264-	7463
28801.26	3471.077	30C	II					2		
28802.10	3470.974	10	I							
28802.35	3470.944	1	II							
28802.89	3470.880	30	I							
28803.49	3470.807	1	II							
28805.40	3470.577	30	I							
28806.22	3470.478	10	II							
28806.53	3470.442	3	I							
28806.82	3470.406	3	II							
28807.30	3470.348	0	II							
28808.05	3470.258	30	I							
28808.55	3470.198	30C	II					2		
28808.73	3470.176	300	II					3		
28809.96	3470.028	0	I							
28811.17	3469.882	30C	II							
28812.09	3469.772	30	II							
28812.94	3469.670	3	II							
28814.31	3469.504	3	II							
28815.19	3469.398	0	II	6.5	5.5				36279-	7463
28816.91	3469.192	10	II							
28817.27	3469.148	10	II							
28817.40	3469.132	10	II							
28818.03	3469.056	100	I							
28818.73	3468.971	100	II	6.5	5.5				36282-	7463
28818.86	3468.956	0	I							
28819.17	3468.920	3	II	8.5	8.5				28819-	0
28820.29	3468.784	300	II					2		
28820.65	3468.740	10	I							
28821.55	3468.633	0								
28822.14	3468.562	100	II							
28822.41	3468.529	30	I							
28823.23	3468.430	1000	II	3.5	4.5			1	38255-	9432
28824.96	3468.222	3	II							
28825.50	3468.158	10	II							
28826.16	3468.078	0	I	8.0	8.0				12007-	40833
28827.96	3467.861	300	II					2		
28828.83	3467.757	30	II							
28829.83	3467.636	3	II							
28829.95	3467.622	0	II							
28830.62	3467.541	3	II							
28831.03	3467.492	300	II					A		
28832.08	3467.366	0	II							
28833.81	3467.157	0	II							

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS	
				J-C	J-E	G-C	G-E	TYPE
28834.57	3467.066	300	II					2
28834.94	3467.022	1	II					
28835.18	3466.993	0						
28836.C1	3466.893	3	I					
28836.08	3466.885	0						
28836.40	3466.847	0	II					
28836.65	3466.816	3	I	6.0	7.0			32970- 4134
28836.98	3466.776	3	II					
28838.20	3466.690	3	II					
28839.51	3466.472	1	II					
28840.03	3466.410	1	II					
28840.92	3466.303	1						
28841.40	3466.245	1	II					
28842.02	3466.171	1						
28842.46	3466.118	30	II					
28843.22	3466.027	3	II					
28845.96	3465.697	30	II					
28846.11	3465.679	3	I					
28846.38	3465.647	1	II					
28846.89	3465.586	300 R	I	7.0	7.0			3 8519-37366
28846.89	3465.586	0		6.5	6.5			33602- 4755
28847.70	3465.488	1						
28848.40	3465.404	0	II					
28849.18	3465.311	100	II					
28849.64	3465.256	3	II					
28850.94	3465.099	0	II					
28851.90	3464.984	100	I					
28852.17	3464.952	10	II					
28852.81	3464.875	30	I					
28853.27	3464.819	0	II					
28854.28	3464.698	3	I					
28854.95	3464.617	1	I					
28855.61	3464.539	1	II					
28856.19	3464.469	100	II					
28857.15	3464.353	3	II					
28857.98	3464.253	0						
28861.15	3463.873	1000	II	6.5	6.5			3 33616- 4755
28861.87	3463.786	3	II					
28862.56	3463.704	10	II					
28862.69	3463.689	30	II					
28863.11	3463.637	0						
28863.37	3463.607	10	II					
28864.84	3463.431	100	II					
28865.21	3463.386	300	I					1
28865.41	3463.362	100	II					3

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C		ZEEMAN DATA			LEVELS	
				J-C	J-E	G-C	G-E	TYPE	GCC-EVEN	
28865.58	3463.341	100		5.5	6.5					36350- 7485
28867.49	3463.112	3	I							
28869.04	3462.927	1	II							
28869.36	3462.888	3	II							
28870.61	3462.738	1	II							
28871.09	3462.681	C	II							
28872.32	3462.533	1								
28872.77	3462.479	3	II							
28873.40	3462.404	1								
28874.38	3462.287	100	II						4	
28875.13	3462.197	0								
28875.88	3462.106	100	I							
28876.21	3462.067	100	II	4.5	5.5					36340- 7463
28876.49	3462.033	100	I							
28877.07	3461.963	30	II							
28877.54	3461.907	300	II							
28878.35	3461.810	1	II							
28878.51	3461.791	1	II							
28878.82	3461.754	10	II							
28879.24	3461.703	100	I	7.0	8.0					8519-37398
28879.46	3461.677	10	II							
28879.96	3461.617	1	II							
28880.52	3461.550	3	II							
28882.53	3461.309	300	II						3	
28885.37	3460.968	10000 R	II	7.5	8.5				2	28885- 0
28886.83	3460.793	30	I	5.5	5.5					36350- 7463
28887.90	3460.666	30		6.5	5.5					38758- 9870
28888.17	3460.634	100	II						3	
28888.46	3460.558	100	I							
28890.12	3460.399	1000	II	3.5	4.5				A	38322- 9432
28891.02	3460.291	10	I							
28891.92	3460.184	3	I							
28892.73	3460.087	1000	II						2	
28893.77	3459.963	10	II							
28893.94	3459.943	100	II						3	
28895.34	3459.774	3	I							
28895.68	3459.734	10	II							
28896.83	3459.596	30	II							
28897.40	3459.527	30	I							
28897.74	3459.488	10	I							
28897.89	3459.470	100 W	II						1	
28899.29	3459.302	100	II						2	
28900.24	3459.187	1	I							
28901.63	3459.021	1	II							
28901.94	3458.985	300	II	6.5	6.5				3	36387- 7485

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
28902.91	3458.868	3	II						
28904.11	3458.724	1	II						
28905.31	3458.581	30	II						
28905.84	3458.518	1	II						
28906.77	3458.407	100	II						4
28907.42	3458.328	1	I						
28908.76	3458.169	1	II						
28909.76	3458.049	1	I						
28910.21	3457.995	10	II						
28910.81	3457.923	10	II						
28912.80	3457.686	30	II						
28913.56	3457.594	30	II						
28913.71	3457.576	0							
28916.66	3457.223	30	II						
28917.23	3457.155	1	II						
28917.66	3457.104	3	II						
28918.54	3456.999	0	II						
28919.28	3456.911	10	II	4.5	4.5			38351- 9432	
28921.58	3456.635	300	I	8.0	9.0			7565-36487	
28922.22	3456.559	3000	II	5.5	6.5			33677- 4755	4
28923.13	3456.450	300	II	6.5	5.5			36387- 7463	
28924.09	3456.336	30	I						
28925.27	3456.195	1	II						
28926.21	3456.082	3	I						
28926.65	3456.030	3	II						
28926.97	3455.991	1	II						
28927.71	3455.904	3	I						
28930.05	3455.624	30	II						
28930.63	3455.554	1							
28931.56	3455.443	3	I						
28931.81	3455.413	1	II						
28932.94	3455.278	1	II						
28933.15	3455.254	0	II						
28933.64	3455.195	10	II						
28934.03	3455.148	1	I						
28934.42	3455.101	1	II						
28934.57	3455.084	100	W II						4
28934.94	3455.039	0	II						
28936.50	3454.853	10	I						
28937.43	3454.742	100	I						
28938.95	3454.561	1	II						
28939.38	3454.510	1000	II						3
28939.84	3454.454	1	II						
28940.31	3454.399	100	II						
28940.98	3454.318	10000	R II	6.5	7.5			29769- 828	1

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS
				J-C	J-E	G-C	G-E
28942.79	3454.102	1	II				
28943.15	3454.060	30	I				
28943.70	3453.993	100	II				
28943.94	3453.965	1	II				
28944.36	3453.915	1	II				
28944.83	3453.858	1	I				
28945.23	3453.811	3	II				
28947.46	3453.545	0	II				
28949.63	3453.287	0	II				
28950.01	3453.241	3	I				
28950.39	3453.195	3	II				
28951.11	3453.110	30	II				
28951.59	3453.052	3	II				
28953.03	3452.880	0					
28953.57	3452.817	3	II				
28954.86	3452.662	10 W	II				
28955.60	3452.574	30	II				
28955.97	3452.530	3	I				
28957.33	3452.368	30	II				
28957.59	3452.337	1					
28958.47	3452.231	10	II				
28959.04	3452.165	10	II				
28959.36	3452.126	10	I				
28960.13	3452.034	1 W	II				
28961.73	3451.843	30	II				
28961.96	3451.816	30	II				
28962.91	3451.703	100	II				
28963.08	3451.683	10	II				
28963.42	3451.643	0					
28964.06	3451.565	3	II				
28964.49	3451.514	3	I				
28965.15	3451.436	3	II				
28965.32	3451.415	0	II				
28966.20	3451.310	30	II				
28966.60	3451.263	1	II				
28966.98	3451.218	0					
28967.55	3451.149	0	II				
28967.83	3451.117	10	II				
28968.54	3451.032	1	II				
28971.03	3450.735	10	II				
28971.71	3450.654	3	I				
28972.06	3450.613	10	II				
28972.35	3450.577	0	I				
28973.47	3450.444	0	II				
28973.74	3450.412	1	II				

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
28974.55	3450.316	3	II							
28974.70	3450.298	1	II							
28975.31	3450.226	300	II					3		
28975.71	3450.178	1	II							
28976.64	3450.067	1	II							
28977.70	3449.940	100	I							
28978.11	3449.892	1000	II	6.5	7.5			2	33319-	4341
28979.24	3449.757	3	II							
28979.61	3449.713	10	II							
28980.42	3449.617	30	II							
28981.18	3449.526	3	I							
28982.35	3449.387	300	I							
28983.33	3449.271	3	I							
28983.47	3449.254	3	II							
28984.40	3449.143	3	II							
28984.85	3449.090	1	II							
28985.21	3449.048	10	II							
28985.73	3448.985	3	II							
28986.28	3448.920	3	II							
28986.95	3448.840	10	II							
28987.92	3448.724	0	II							
28988.22	3448.689	30	I							
28988.86	3448.613	1	II							
28988.99	3448.597	1	I							
28989.34	3448.556	10	I							
28989.84	3448.496	100	II					3		
28990.82	3448.379	0	II							
28991.08	3448.349	1	II							
28991.48	3448.301	0	II							
28993.24	3448.092	30	II							
28993.39	3448.074	30	II							
28994.50	3447.942	10	I							
28994.87	3447.897	10	I							
28995.39	3447.836	300	II	5.5	6.5			1		
28995.74	3447.795	3	I							
28996.29	3447.729	300	II					4		
28996.80	3447.669	100	I							
28999.87	3447.303	3	II							
29000.19	3447.265	300	II					3		
29002.48	3446.993	3000	II	4.5	5.5			1	36466-	7463
29003.47	3446.875	300	II	2.5	3.5			A		
29005.09	3446.682	10	II							
29006.54	3446.511	3	II							
29007.29	3446.422	10	I							
29007.93	3446.345	100	I	7.0	8.0				8519-	37527

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	CCC-EVEN	
29008.47	3446.282	3	II							
29008.65	3446.261	1	I							
29009.93	3446.108	10	II							
29010.76	3446.010	30	II							
29011.15	3445.963	3	II							
29013.60	3445.673	100	II							
29014.43	3445.574	10000 R	II	8.5	8.5	1.25	1.29	3	29014-	0
29016.13	3445.372	1 W	II							
29017.04	3445.264	3	II							
29017.71	3445.183	30	II							
29018.56	3445.083	3	II							
29018.79	3445.056	0	I							
29019.23	3445.004	1	II							
29019.77	3444.939	30	II							
29020.51	3444.851	3	I							
29020.84	3444.812	10	I							
29021.03	3444.789	3	I							
29021.68	3444.713	3	II							
29022.04	3444.670	C	II							
29022.47	3444.618	30	I	8.0	9.0				12007-41029	
29022.80	3444.579	10	I							
29023.36	3444.513	10	II							
29024.32	3444.400	30	II							
29025.58	3444.250	300	II	4.5	4.5	1.203	0.830	3	38457-	9432
29028.70	3443.879	1	II							
29030.08	3443.716	100	II							
29031.53	3443.544	30	I	8.0	7.0				33165-	4134
29031.98	3443.490	100	I							
29032.09	3443.477	100	II					3		
29032.69	3443.406	0	II							
29033.16	3443.351	1	II							
29033.83	3443.271	3	I							
29034.47	3443.195	10	I							
29035.31	3443.095	3	II							
29035.72	3443.047	3	II							
29035.90	3443.025	10	I							
29036.97	3442.899	10	II							
29037.12	3442.881	10	II							
29037.41	3442.847	10	II							
29037.66	3442.817	1	I							
29038.76	3442.686	100	II						4	
29039.41	3442.610	10	II							
29039.91	3442.550	300	II						2	
29040.31	3442.503	300	II						4	
29040.79	3442.446	10	I							

TABLE

CY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
29041.83	3442.322	1	II						
29042.22	3442.276	3	II						
29042.66	3442.225	C	I						
29044.11	3442.052	30	II						
29044.37	3442.021	0	II						
29044.88	3441.961	10	I	9.0	9.0			3	9990-39035
29046.09	3441.817	10	I						
29046.25	3441.799	10	II						
29046.81	3441.732	30	II						
29047.69	3441.628	C	II						
29047.86	3441.607	30	II						
29048.58	3441.523	100	II						
29049.22	3441.447	300C R	II	6.5	7.5	1.406	1.201	1	29877- 828
29050.16	3441.336	3 W	II						
29051.43	3441.185	10	II						
29051.58	3441.167	30	II						
29052.35	3441.076	300	II					A	
29052.94	3441.006	100 C	II						
29053.27	3440.967	C	I						
29053.59	3440.928	1000	II					3	
29057.22	3440.499	10	II						
29057.66	3440.447	300	II			1.33	1.33	4	
29058.35	3440.366	3	I						
29058.49	3440.349	1	I						
29060.24	3440.142	1	II						
29060.54	3440.106	30	II						
29060.80	3440.075	10	II						
29061.98	3439.936	100	II	6.5	6.5			3	33817- 4755
29062.95	3439.821	10	II	5.5	4.5				38495- 9432
29063.61	3439.742	0	II						
29063.64	3439.739	10	II						
29063.86	3439.713	C	II						
29064.32	3439.659	C							
29064.95	3439.584	0	II						
29065.64	3439.503	C	I						
29065.90	3439.472	3	II						
29066.71	3439.376	10	II						
29067.10	3439.329	300	II					1	
29067.93	3439.232	1	II						
29068.47	3439.167	3	II						
29069.95	3438.992	30	II						
29070.36	3438.944	1000	II					3	
29071.71	3438.784	300	II					1	
29072.45	3438.697	30	II						
29072.77	3438.659	10	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
29073.23	3438.605	0	II						
29073.52	3438.523	30	II						
29074.41	3438.465	1	II						
29076.06	3438.270	3	II						
29077.51	3438.098	30	II						
29079.25	3437.893	0	II						
29079.84	3437.822	10	II						
29080.23	3437.777	1	I						
29080.72	3437.719	10	II						
29081.33	3437.647	30	II						
29081.73	3437.600	100	II					A	
29082.09	3437.557	300	II	3.5	3.5			3	40036-10953
29082.67	3437.489	10	I						
29083.19	3437.427	300	II					A	
29083.73	3437.363	1	II						
29084.19	3437.308	3	II						
29085.68	3437.133	1	II						
29086.26	3437.064	3	II						
29086.68	3437.014	10	II						
29086.87	3436.991	3	II						
29087.50	3436.918	300	II			1.31	1.31	4	
29088.68	3436.779	10	I	7.0	7.0				8519-37607
29089.47	3436.685	0	II						
29090.47	3436.567	1	I						
29090.95	3436.510	0	II						
29091.59	3436.434	100	I						
29091.97	3436.390	0	II						
29092.80	3436.292	10	II						
29093.36	3436.225	0	II						
29093.92	3436.159	1	II						
29094.47	3436.094	300	II					1	
29094.86	3436.048	3	II						
29095.50	3435.972	100	II						
29095.78	3435.939	30	II						
29096.14	3435.897	300	II					1	
29096.42	3435.864	10	I						
29096.94	3435.802	10	II						
29098.50	3435.618	1	II						
29098.89	3435.572	1	I						
29099.32	3435.522	1	II						
29099.81	3435.464	30	II						
29101.38	3435.278	100	II					1	
29101.58	3435.255	100	II	4.5	5.5			A	38972- 9870
29102.09	3435.195	1	I						
29102.92	3435.096	0	II						

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	CCC-EVEN	
29103.63	3435.012	I	II							
29104.88	3434.866	C	II							
29105.08	3434.841	100	I	9.0	8.0					999C-39096
29105.92	3434.743	C	II							
29106.41	3434.685	10	I							
29107.09	3434.604	1 W	II							
29107.62	3434.542	1 W	II							
29108.12	3434.483	I	II							
29109.10	3434.367	3000 R	II	7.5	8.5			2	29109-	C
29110.97	3434.147	C	II							
29112.33	3433.986	30	I							
29112.55	3433.961	C	II							
29113.12	3433.893	C	II							
29113.58	3433.839	0	II							
29114.64	3433.714	C								
29115.19	3433.649	30	II							
29115.81	3433.575	C	II							
29116.36	3433.511	1	II							
29116.81	3433.458	1	II							
29118.19	3433.296	C	II							
29118.73	3433.231	0	II							
29119.12	3433.186	300 R	I	9.0	8.0	1.20	1.24	1	29119-	0
29120.03	3433.078	1	II							
29120.41	3433.033	1	II							
29121.10	3432.952	1	II							
29121.89	3432.859	300	II							3
29122.46	3432.792	300	II							A
29124.30	3432.575	1000	II							3
29125.90	3432.386	1	I							
29126.44	3432.323	10	I							
29127.35	3432.215	100	II							
29127.99	3432.140	3	I							
29128.52	3432.078	1	II							
29129.14	3432.004	1								
29129.64	3431.946	100	I							
29130.22	3431.877	3	II							
29130.98	3431.788	1000	II			1.29	1.29	4		
29131.76	3431.696	300	I							
29132.11	3431.654	30	II							
29132.31	3431.631	10	II							
29132.69	3431.586	C	I							
29133.24	3431.522	C	I							
29133.69	3431.468	10	I							
29135.17	3431.294	1	II							
29135.34	3431.274	0	II							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
29135.82	3431.217	3	I						
29136.42	3431.147	3	II						
29137.56	3431.012	300	II	4.5	3.5			2	40091-10953
29138.20	3430.937	C	I						
29138.83	3430.863	1	II						
29139.65	3430.766	1	II						
29140.20	3430.702	1	II						
29141.90	3430.501	3	II						
29142.55	3430.425	10	I	8.0	9.0				7565-36708
29142.71	3430.407	C	II						
29144.41	3430.207	30	II	5.5	4.5				40945-11801
29144.95	3430.140	C	II						
29146.01	3430.018	C	II						
29148.87	3429.682	10	II						
29150.90	3429.443	1000	II					2	
29151.03	3429.427	300	II	3.5	4.5	1.197	0.811	1	38583- 9432
29151.32	3429.393	1	II						
29152.87	3429.210	10	II						
29153.48	3429.139	10	II						
29154.07	3429.070	100	II						
29154.76	3428.989	300	II					4	
29155.06	3428.953	3	II						
29155.73	3428.874	3	II						
29156.76	3428.754	1	II						
29157.68	3428.645	100	I	7.0	8.0				8519-37676
29158.31	3428.571	1	II						
29159.23	3428.462	100	II						
29159.85	3428.390	1	I						
29162.45	3428.085	1	II						
29163.37	3427.976	10	II						
29164.37	3427.858	1	II						
29164.91	3427.795	C							
29166.47	3427.612	10	II						
29167.84	3427.451	C	II						
29168.70	3427.350	1	I						
29169.59	3427.245	100	II					3	
29170.37	3427.153	10	II						
29170.72	3427.112	10	I						
29171.91	3426.972	100	II						
29174.03	3426.723	3	II						
29174.41	3426.679	3	I						
29175.04	3426.605	100	I						
29175.65	3426.533	100	II						
29176.16	3426.473	100	II	A					
29176.89	3426.387	10	I						

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
29177.29	3426.341	10	I	7.0	7.0				33311- 4134
29178.87	3426.155	3	II						
29179.03	3426.136	30	I						
29179.69	3426.058	100	II						
29181.90	3425.799	1	II						
29183.60	3425.599	10	II						
29184.07	3425.544	C	II						
29185.32	3425.398	30	II						
29185.54	3425.372	10	I						
29185.85	3425.335	10	II						
29187.15	3425.184	3	II						
29188.23	3425.056	1000	II					2	
29189.75	3424.876	10	II						
29190.59	3424.779	1	II						
29192.05	3424.609	3	II						
29193.11	3424.484	0	II						
29193.74	3424.410	1	II						
29194.31	3424.342	1	II						
29194.52	3424.318	10	II						
29194.96	3424.267	1	I						
29196.24	3424.117	30	II						
29196.80	3424.051	1	I	8.0	8.0				12007-41203
29197.06	3424.020	0	I						
29197.40	3423.981	1	I						
29198.03	3423.907	10	II						
29198.54	3423.847	3	II						
29198.81	3423.815	30	II					3	
29199.24	3423.765	3	II						
29199.82	3423.696	1	I						
29200.00	3423.676	C	II						
29200.64	3423.601	1	II						
29203.26	3423.294	3	I	8.0	9.0				12007-41210
29203.79	3423.231	300	II	3.5	4.5				38635- 9432
29203.79	3423.231	300	II					3	
29205.10	3423.077	100	II					3	
29205.52	3423.028	10	II						
29206.93	3422.864	1000	II			0.162	1.330	3	
29208.91	3422.631	3	I						
29209.18	3422.599	300	II					3	
29210.54	3422.441	30	II					4	
29210.94	3422.394	0	I						
29211.32	3422.349	10	II						
29211.65	3422.311	10	II						
29212.04	3422.265	3	II						
29213.81	3422.057	30	II			1.28	1.28	4	

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS ODD-EVEN
						G-C	G-E	TYPE	
29214.33	3421.996	10	I						
29214.68	3421.956	1	I						
29215.37	3421.875	10	II						
29216.52	3421.739	10	II						
29216.85	3421.701	1	I						
29217.50	3421.625	30	II						
29219.40	3421.403	1							
29219.75	3421.362	3	II						
29220.20	3421.309	300	II			0.143	1.285	3	
29221.20	3421.191	3	II						
29222.15	3421.080	30	II	3.5	3.5				40176-10953
29222.48	3421.042	30	II						
29223.48	3420.924	10	I						
29224.60	3420.794	300	I	8.0	7.0			2	33358- 4134
29226.11	3420.616	1	I						
29226.34	3420.590	30	II						
29227.19	3420.490	3	II						
29227.44	3420.461	10	II						
29228.01	3420.395	3	II						
29228.53	3420.333	10	II						
29229.13	3420.264	0	II						
29229.51	3420.219	0	II						
29230.95	3420.051	3	II						
29231.50	3419.986	100	II						
29232.14	3419.912	30	I	7.0	7.0				8519-37751
29232.90	3419.823	30	II	8.5	7.5				30061- 828
29233.36	3419.769	3	II						
29234.54	3419.631	3000	II					2	
29235.21	3419.553	300	I					3	
29236.25	3419.431	30	II	3.5	4.5				38668- 9432
29237.20	3419.319	10	II						
29238.31	3419.190	10	II						
29239.09	3419.099	0							
29239.42	3419.060	10	II						
29240.16	3418.973	1	B II						
29240.20	3418.969	30	B I						
29240.77	3418.902	30	I						
29241.11	3418.862	0	II						
29241.78	3418.784	1000	R I	8.0	8.0			3	7565-36807
29243.39	3418.596	10	I						
29244.15	3418.506	100	I						A
29245.18	3418.387	1	II						
29246.35	3418.249	10	I						
29246.75	3418.203	30	I						
29247.60	3418.103	1000	II			1.31	1.31	4	

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
29248.16	3418.038	0	II							
29248.36	3418.014	30	II							
29249.37	3417.896	30	II							
29249.52	3417.879	30	II							
29251.47	3417.651	30	II							
29252.51	3417.530	30	II							
29252.74	3417.503	3	II							
29254.90	3417.250	0	II							
29255.94	3417.129	300	II	7.5	7.5	0.832	0.470	1	40209-10959	
29256.61	3417.050	10	I	8.0	9.0				7565-36822	
29256.87	3417.021	30	II							
29257.36	3416.963	30	II							
29258.28	3416.855	1	I							
29258.63	3416.815	1	II							
29259.27	3416.741	3	II							
29260.88	3416.552	3	I							
29261.47	3416.484	30	II	6.5	7.5				33602- 4341	
29262.68	3416.342	30	II							
29263.58	3416.237	1	II							
29264.35	3416.147	1	II							
29264.98	3416.074	1	II							
29266.14	3415.938	0	I							
29266.40	3415.908	10	II							
29268.12	3415.707	300	II					2		
29268.69	3415.641	100	II	8.5	7.5			A	30097- 828	
29270.80	3415.394	300	II					3		
29272.31	3415.218	300	II					1		
29272.62	3415.182	0	II							
29274.03	3415.018	3	II							
29274.33	3414.983	10	II							
29275.71	3414.821	3000	II	6.5	7.5			1	33616- 4341	
29279.07	3414.430	10	II	7.5	8.5				29279- 0	
29279.91	3414.332	30	II							
29280.31	3414.285	100	II							
29281.06	3414.198	1	II							
29281.95	3414.093	30	II							
29284.60	3413.785	3000 R	II	7.5	7.5	1.20	1.19	3	30112- 828	
29285.33	3413.699	30	II							
29286.09	3413.611	3	II							
29286.54	3413.558	100	II							
29286.94	3413.511	3	II							
29287.13	3413.490	1	II							
29288.57	3413.322	1	II							
29289.04	3413.267	10	I							
29289.72	3413.187	1	I							

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA				LEVELS	
				J-C	J-E	G-C	G-E	TYPE	CCC-EVEN
29290.62	3413.083	10	I						
29292.03	3412.919	10	W I						
29293.92	3412.698	3	II						
29295.32	3412.535	10	II						
29295.87	3412.471	100	II						
29296.91	3412.350	1	II						
29297.29	3412.306	0	I						
29298.03	3412.220	C	II						
29298.82	3412.128	0	II						
29299.78	3412.016	100	I						
29301.98	3411.760	0	II						
29304.03	3411.521	300	II	5.5	5.5			3	39175- 9870
29304.58	3411.457	1	II						
29305.66	3411.332	1	II						
29305.96	3411.296	0	I						
29306.08	3411.282	3	II						
29306.62	3411.219	30	II						
29307.37	3411.132	1	II						
29308.57	3410.992	100	I						
29309.28	3410.910	3	II						
29310.13	3410.811	10	II						
29310.39	3410.781	1	II						
29310.61	3410.755	3	I						
29310.96	3410.714	300	II	2.5	3.5	1.151	0.469	1	40264-10953
29311.78	3410.620	10	II						
29312.56	3410.528	3	II						
29313.98	3410.363	1	II						
29314.15	3410.344	1	II						
29314.52	3410.300	3	II						
29315.25	3410.216	30	II						
29315.72	3410.161	1	II						
29317.09	3410.001	0	II						
29317.67	3409.933	1	II						
29318.56	3409.830	0	II						
29318.92	3409.789	1	II						
29319.22	3409.753	0	II						
29319.63	3409.706	0	I						
29320.66	3409.586	3	II						
29321.15	3409.530	3	II						
29321.76	3409.458	300	II					3	
29322.19	3409.408	30	I						
29322.69	3409.350	100	I	7.0	8.0				8519-37841
29323.67	3409.236	0	II						
29324.25	3409.168	10	II						
29325.06	3409.075	3	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA				LEVELS	
				J-C	J-E	G-C	G-E	TYPE	ODD-EVEN
29325.58	3409.014	10	II						
29326.01	3408.962	10	I						
29327.90	3408.745	1	II						
29329.58	3408.550	30	I						
29330.87	3408.399	1	II						
29333.07	3408.144	1000	II					2	
29333.67	3408.074	30	II						
29336.07	3407.795	10000 R	II	8.5	8.5	1.26	1.29	3	29336- 0
29337.78	3407.596	30	II						
29338.61	3407.500	1	II						
29339.17	3407.436	3	II						
29341.55	3407.159	1000	II	4.5	5.5	1.225	1.020	1	36805- 7463
29342.15	3407.089	3	II						
29342.78	3407.015	100	II						
29343.68	3406.911	300	II					1	
29344.48	3406.818	100	II						
29345.00	3406.758	300	II					4	
29345.92	3406.651	10	II						
29346.41	3406.595	0	II						
29346.64	3406.568	10	II						
29347.33	3406.488	1	II						
29347.76	3406.438	1	II						
29348.03	3406.406	3	I						
29348.77	3406.321	10	I						
29349.15	3406.276	0	I						
29351.31	3406.026	1	II						
29351.55	3405.997	3	II						
29352.10	3405.934	0	II						
29352.74	3405.860	10	II						
29354.52	3405.653	1000	II	6.5	6.5	1.310	1.130	3	34110- 4755
29355.67	3405.519	1	II						
29355.88	3405.496	100	II						
29356.59	3405.413	1	I						
29357.45	3405.314	100	II						
29358.21	3405.225	1	II						
29358.93	3405.142	3	I						
29359.46	3405.080	3	II						
29360.26	3404.987	300	II					2	
29360.64	3404.944	300	I					3	
29360.99	3404.903	300	II					4	
29361.71	3404.819	30	I						
29362.32	3404.748	0	II						
29363.06	3404.663	10	I						
29363.60	3404.601	3	II						
29364.73	3404.469	0	II						

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DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
29365.43	3404.388	3	I						
29365.99	3404.323	1	II						
29368.02	3404.088	3	I						
29368.73	3404.005	1	II						
29369.45	3403.922	3	II						
29369.92	3403.868	1	II						
29370.41	3403.811	1	II						
29370.79	3403.767	1	II	3.5	4.5				38802- 9432
29371.20	3403.718	1C	II						
29372.91	3403.522	0	II						
29373.25	3403.482	0	II						
29373.71	3403.428	300	II					3	
29374.36	3403.353	3	II						
29375.30	3403.244	300	II	5.5	6.5	1.411	1.203	1	
29375.88	3403.177	100 W	I						
29377.58	3402.979	0	II						
29378.08	3402.921	0	II						
29378.53	3402.870	100	II						
29378.82	3402.836	3C	II						
29379.72	3402.732	300	II					2	
29380.35	3402.658	0	II						
29381.27	3402.552	1 Q	II						
29382.06	3402.461	10	II						
29383.36	3402.311	0	II						
29383.76	3402.264	3C	II						
29385.96	3402.009	1000	I	9.0	8.0			4	9990-39376
29386.21	3401.980	300	II	3.5	4.5	1.178	0.809	1	
29388.74	3401.687	1000 R	I	8.0	8.0			3	7565-36954
29391.00	3401.426	10	I						
29392.28	3401.278	100	II			1.33	1.33	4	
29393.48	3401.139	1	II						
29393.76	3401.106	1	I						
29393.93	3401.087	0	II						
29395.44	3400.913	100	II						
29396.20	3400.825	0	II						
29397.06	3400.724	3	II						
29397.37	3400.689	0	I						
29397.83	3400.636	10	II						
29398.05	3400.610	0	II						
29399.59	3400.432	100	II	6.5	6.5				36884- 7485
29399.90	3400.396	3	II						
29400.23	3400.357	3	II						
29401.04	3400.265	1	I						
29402.51	3400.094	1	II						
29402.66	3400.077	1	II	6.5	6.5				36887- 7485

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
29403.73	3399.954	30	I							
29405.32	3399.769	0	II							
29405.66	3399.730	3	II							
29406.90	3399.586	30	II							
29407.41	3399.528	1	II							
29408.16	3399.442	1	II							
29408.89	3399.357	300	II					4		
29410.46	3399.175	10	II							
29411.49	3399.057	300	I	6.0	6.0			3	36462	7050
29412.11	3398.985	3	II							
29412.28	3398.965	0	II							
29412.83	3398.901	0	II							
29413.38	3398.837	10	II							
29413.80	3398.789	30	II							
29417.12	3398.405	3	II							
29417.46	3398.366	1	II							
29417.82	3398.324	300						2		
29419.21	3398.164	0	II							
29419.61	3398.118	10	II							
29420.53	3398.011	1	I							
29420.82	3397.979	300	II	6.5	5.5			2	36884-	7463
29420.96	3397.962	30	I							
29421.55	3397.894	0								
29422.35	3397.802	10 W	I							
29422.41	3397.795	1	II							
29422.74	3397.756	10	II							
29423.00	3397.726	3 Q	I							
29423.86	3397.627	10	II	6.5	5.5				36887-	7463
29425.44	3397.445	30	I							
29425.92	3397.389	100	II							
29426.26	3397.350	1	II							
29427.67	3397.187	1	II							
29428.06	3397.142	10	I							
29430.12	3396.904	3	II							
29430.48	3396.863	100		4.5	5.5				39301-	9870
29431.03	3396.800	10	II							
29431.43	3396.753	30	II	3.5	4.5				41232-	11801
29431.84	3396.706	0	II							
29432.87	3396.587	1	II							
29433.09	3396.562	30	I							
29433.45	3396.520	0	I							
29433.85	3396.474	1	II							
29436.60	3396.157	10000 R	II	7.5	8.5			2	29436-	0
29438.01	3395.994	10	II							
29438.69	3395.916	1	II							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	OCC-EVEN	
29439.78	3395.790	1	II							
29440.73	3395.680	3	I							
29441.60	3395.580	0	I							
29441.84	3395.553	10	II							
29442.36	3395.493	30	II							
29443.95	3395.309	0	II							
29446.16	3395.054	3	II							
29446.78	3394.982	1	II							
29448.01	3394.841	100	II							
29448.34	3394.803	0	II							
29448.80	3394.750	1	II							
29449.61	3394.656	1	II							
29451.46	3394.443	1	II							
29453.24	3394.238	3	I							
29455.49	3393.979	300	II						2	
29456.15	3393.903	1	II							
29457.97	3393.692	1	II							
29458.25	3393.660	3	II							
29459.05	3393.568	10000 R	II	6.5	7.5	1.23	1.21	1	30287-	828
29460.84	3393.363	1000		5.5	6.5			4	34216-	4755
29460.84	3393.363	1000 B		7.0	7.0			4	8519-	37980
29461.43	3393.294	30	II							
29462.62	3393.157	100	II							
29463.36	3393.072	30	II							
29464.22	3392.973	100	II							
29464.68	3392.920	3	II							
29464.85	3392.901	30	I							
29465.53	3392.822	100								
29465.97	3392.772	30	II							
29466.86	3392.670	0	II							
29467.74	3392.567	1	II							
29468.18	3392.517	30 W	I							
29468.88	3392.436	0	II							
29469.80	3392.331	3	I							
29471.24	3392.164	100	II							
29472.05	3392.072	10	II							
29472.32	3392.041	3	II							
29472.07	3391.966	300	II			0.150	1.246	3		
29473.35	3391.922	1	I							
29475.50	3391.675	10	I							
29475.97	3391.620	30	II							
29476.58	3391.550	3	II	6.5	7.5				33817-	4341
29477.33	3391.464	0	II							
29478.93	3391.280	30	II							
29479.96	3391.162	300	II						A	

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DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA		TYPE	LEVELS
						G-C	G-E		CCC-EVEN
29480.87	3391.057	300	II					2	
29482.03	3390.923	1	II						
29483.22	3390.786	100	II						
29483.88	3390.710	3	I						
29485.60	3390.513	100	II	5.5	6.5				36970- 7485
29486.36	3390.425	0	I						
29488.00	3390.237	10	I						
29489.33	3390.084	10	II						
29490.86	3389.908	30	II						
29491.52	3389.833	10	II						
29492.38	3389.733	0	II						
29492.57	3389.711	30	I						
29493.58	3389.595	1	II						
29494.90	3389.444	300	II			1.29	1.29	4	
29495.55	3389.369	10	II						
29496.06	3389.310	3	I						
29496.66	3389.242	10	II						
29497.78	3389.112	1	II						
29499.39	3388.928	30	I						
29500.06	3388.850	3000	II	6.5	6.5	1.276	1.133	3	34255- 4755
29500.75	3388.771	3	II						
29501.24	3388.715	100	II						
29502.52	3388.568	3	II						
29503.23	3388.486	0	II						
29504.28	3388.366	30	II						
29505.66	3388.208	30	II						
29506.81	3388.076	300	II	5.5	5.5			3	36970- 7463
29507.17	3388.034	3	I						
29508.42	3387.891	10	I						
29509.38	3387.780	300	II					2	
29510.11	3387.696	0	II						
29510.88	3387.608	1	II						
29512.42	3387.431	1	I						
29513.06	3387.358	1	II						
29513.81	3387.272	30	II						
29514.33	3387.212	300	II					1	
29515.52	3387.075	0	I						
29515.93	3387.029	1	II						
29516.47	3386.967	10	I						
29517.13	3386.891	30	II						
29517.81	3386.812	3	I						
29518.24	3386.764	1	I						
29519.57	3386.611	30	II						
29519.94	3386.568	300	II						
29521.28	3386.414	10	I						

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
29521.86	3386.348	100	I	8.0	8.0				7565-37087
29523.68	3386.140	0	I						
29524.18	3386.083	1	II						
29526.16	3385.855	10	II						
29527.23	3385.732	1							
29527.74	3385.674	1	II						
29529.03	3385.526	0	II						
29529.93	3385.423	1	II						
29530.68	3385.337	30	I						
29533.24	3385.044	100							
29533.49	3385.015	10000 R	II	6.5	7.5			4	30361- 828
29534.63	3384.883	1	II						
29535.09	3384.831	3	II						
29535.39	3384.797	300	I					4	
29535.80	3384.750	1	I						
29536.70	3384.647	10	II						
29537.79	3384.522	3	II						
29538.11	3384.485	0	II						
29538.42	3384.449	0	II						
29538.82	3384.404	1	II						
29539.49	3384.327	3	I						
29540.08	3384.259	1	II						
29540.52	3384.209	30	II	4.5	4.5			A	38972- 9432
29541.25	3384.126	3	II						
29541.54	3384.092	30	II						
29542.20	3384.017	300						4	
29542.52	3383.980	30	II						
29543.13	3383.910	3	II						
29545.22	3383.670	30	II	5.5	5.5				39416- 9870
29546.03	3383.578	30	II						
29547.51	3383.409	300	I					A	
29548.55	3383.290	0	II						
29548.89	3383.250	3	II						
29549.45	3383.186	3	II						
29549.97	3383.127	1	II						
29550.35	3383.083	1	II						
29550.95	3383.015	3	II						
29553.54	3382.718	0							
29553.90	3382.677	0	II						
29555.03	3382.548	1	II	3.5	4.5				41356-11801
29555.34	3382.512	1	I						
29556.33	3382.399	0	II	8.0	9.0				7565-37121
29556.80	3382.345	30	II						
29557.87	3382.222	0	II						
29558.30	3382.174	10	II						

TABLE

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WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA		LEVELS			
				J-C	J-E	G-C	G-E	TYPE	CCC-EVEN
29559.23	3382.067	1	II						
29559.88	3381.992	10	II						
29560.30	3381.944	1	II						
29560.54	3381.917	100	II						
29561.34	3381.826	1	II						
29562.89	3381.648	30	I						
29563.65	3381.561	1	II						
29563.85	3381.538	300	II					1	
29565.09	3301.305	9	II						
29566.56	3381.228	0	II	3.5	4.5				41367-11801
29569.32	3380.912	0							
29570.39	3380.790	0	II						
29570.79	3380.744	30	II	7.5	7.5				30399- 828
29574.03	3380.374	3	I						
29574.62	3300.307	3	II						
29575.15	3380.246	3	II						
29575.87	3380.164	100	II						
29576.85	3380.055	1	II						
29577.06	3380.028	0							
29578.13	3379.906	100	II						
29579.40	3379.761	3	II						
29580.11	3379.680	1	II						
29580.86	3379.594	3	II						
29581.02	3379.576	10	I						
29581.67	3379.501	3	II						
29582.05	3379.458	100	I						
29584.42	3379.187	3	II						
29585.32	3379.085	10	II						
29586.34	3378.968	3	II						
29587.12	3378.879	300	II	4.5	3.5			A	40541-10953
29587.28	3378.860	10	I	8.0	7.0				33721- 4134
29588.14	3378.762	3	II						
29591.17	3378.416	300	II	5.5	6.5			1	37076- 7485
29593.00	3378.207	300	II					3	
29593.26	3378.177	1	II						
29593.98	3378.095	0	II						
29595.41	3377.932	3	II						
29596.46	3377.812	1	II						
29596.67	3377.788	10	I						
29597.06	3377.744	30	II						
29597.82	3377.657	1	II						
29598.52	3377.577	3	II						
29601.51	3377.236	30	II						
29602.69	3377.101	300	II	4.5	5.5			1	37066- 7463
29604.08	3376.943	3	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA		LEVELS GDC-EVEN
						G-C	G-E	
29604.22	3376.927	3	II					
29605.92	3376.733	1	I					
29606.91	3376.620	300	II				4	
29607.54	3376.548	30	I					
29609.11	3376.370	300	II				3	
29609.75	3376.296	30	II					
29610.35	3376.227	1	I					
29610.74	3376.183	10	II					
29611.67	3376.077	3	I					
29612.36	3375.998	300	II	5.5	5.5		3	37076- 7463
29613.03	3375.923	1	I					
29613.69	3375.846	3	II					
29614.37	3375.769	1	II					
29614.64	3375.739	300	II				4	
29615.83	3375.603	10	II					
29617.04	3375.465	1	II					
29618.33	3375.318	0	II					
29618.89	3375.254	0	II					
29619.83	3375.147	1	II					
29621.49	3374.958	1	II					
29622.01	3374.899	0	II					
29622.44	3374.850	1	I					
29623.88	3374.686	3	II					
29627.35	3374.291	300	II				3	
29628.31	3374.182	30	I					
29629.33	3374.065	0	II					
29630.05	3373.983	3	II					
29631.32	3373.838	1	II					
29631.82	3373.781	30	II					
29632.99	3373.649	3	II					
29633.10	3373.636	3	I					
29633.71	3373.566	10	II					
29634.47	3373.480	10	I					
29635.44	3373.369	0	II					
29635.85	3373.322	10	II					
29636.53	3373.246	1	II					
29637.35	3373.152	3	II					
29639.61	3372.895	0	II					
29640.62	3372.779	300	II				3	
29641.22	3372.712	0	II					
29641.69	3372.658	10	I					
29643.24	3372.482	0	II					
29643.83	3372.414	10	I					
29644.73	3372.312	30	II					
29646.45	3372.116	300	I	8.0	7.0		2	7565-37212

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA		TYPE	LEVELS
						G-C	G-E		CCC-EVEN
29647.19	3372.032	10	II						
29647.69	3371.976	C	I						
29649.18	3371.807	300	II	3.5	4.5			1	39081- 9432
29650.18	3371.693	300	II					3	
29650.83	3371.619	3	II						
29651.77	3371.511	30	II						
29654.31	3371.223	30	II						
29655.16	3371.126	0	II						
29655.90	3371.042	1	I						
29656.74	3370.947	1	I						
29657.08	3370.908	1	II						
29657.58	3370.851	300	II					3	
29660.00	3370.576	1	I						
29661.78	3370.373	3	II						
29663.12	3370.221	1	II						
29663.69	3370.156	3	II						
29664.20	3370.098	30	II						
29664.81	3370.030	30	II						
29665.29	3369.975	1	I						
29665.64	3369.935	30	I						
29667.26	3369.751	10	II						
29667.74	3369.697	10	II						
29668.25	3369.638	100							A
29668.84	3369.572	1	II						
29669.20	3369.531	1							
29671.38	3369.283	100							3
29673.15	3369.082	3	II						
29674.09	3368.975	1	II						
29674.68	3368.909	1	II						
29675.49	3368.816	1	II						
29675.84	3368.777	3	II						
29677.05	3368.640	3 W	II						
29678.07	3368.524	30	II	5.5	5.5				39549- 9870
29679.72	3368.337	1	II						
29680.30	3368.270	1	II						
29681.75	3368.106	3000 R	II	9.5	8.5	1.21	1.29	1	29681- 0
29683.14	3367.948	0	II						
29683.72	3367.883	1	II						
29684.19	3367.830	1							
29684.88	3367.751	3	II						
29685.89	3367.636	1	II						
29686.85	3367.527	300	II						
29688.80	3367.306	30	I						
29689.68	3367.207	30	II						2
29691.34	3367.018	10	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
29694.11	3366.703	30	II						
29694.20	3366.694	10	I						
29695.57	3366.538	3	I						
29696.02	3366.488	10	II						
29696.47	3366.436	0	II						
29697.50	3366.319	3	I						
29697.86	3366.279	1	I						
29698.25	3366.235	30	II						
29698.93	3366.158	0	I						
29699.53	3366.090	30	II						
29702.03	3365.806	300	II					4	
29702.18	3365.790	30	II	5.5	6.5				37187- 7485
29702.43	3365.761	10	II						
29702.87	3365.711	30	II	7.5	6.5				37188- 7485
29705.04	3365.465	1	I						
29705.45	3365.418	3	II						
29706.75	3365.272	10 W	I						
29707.78	3365.155	3	II						
29707.99	3365.130	C	II						
29708.97	3365.020	30	II						
29709.29	3364.984	0	I						
29709.98	3364.905	1	II						
29710.36	3364.863	1	I						
29710.98	3364.792	10	I						
29711.62	3364.720	C	II						
29712.46	3364.624	30	II						
29712.66	3364.602	0	II						
29713.29	3364.531	1	II						
29713.93	3364.458	30	II						
29714.46	3364.398	30	II						
29715.00	3364.337	30	II						
29715.56	3364.273	30	II						
29715.87	3364.238	10	II						
29716.16	3364.205	1	I						
29717.10	3364.099	300	I						
29717.37	3364.069	1	II						
29718.46	3363.946	10	II						
29718.78	3363.909	3	I	5.0	6.0				36769- 7050
29721.11	3363.645	C	II						
29722.57	3363.481	100	II						
29723.44	3363.382	300		5.5	5.5			3	37187- 7463
29725.05	3363.200	1	II						
29725.57	3363.141	C	II						
29725.92	3363.101	0	II						
29727.60	3362.911	10	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA		LEVELS	
				J-C	J-E	G-C	G-E
29729.34	3362.714	30	I				
29730.35	3362.600	30	I	8.0	7.0		7565-37295
29730.63	3362.568	30	II				
29731.82	3362.433	10	II				
29732.96	3362.305	1	II				
29734.16	3362.170	100	II				
29735.64	3362.002	10	II				
29737.01	3361.846	30	II				
29738.20	3361.712	10	II				
29738.78	3361.647	30	II				
29739.09	3361.612	30	II				
29739.67	3361.545	0	I				
29740.35	3361.470	1	I				
29740.84	3361.414	100	II				
29743.26	3361.141	0	II				
29745.07	3360.936	100	I	7.0	7.0		8519-38264
29745.52	3360.885	0	II				
29746.08	3360.821	0	I				
29746.33	3360.793	1	II				
29746.97	3360.721	3	II				
29747.56	3360.655	100	II				
29748.40	3360.560	10	II				
29750.15	3360.362	1	II				
29750.70	3360.299	1	II				
29751.43	3360.217	10	II				
29752.26	3360.124	10	I				
29754.25	3359.899	3	II				
29755.71	3359.734	1	II				
29755.98	3359.703	1	II				
29756.77	3359.615	10	II				
29757.18	3359.568	30	II				
29757.55	3359.526	3	II				
29758.11	3359.462	300	II				
29759.06	3359.355	10	I				
29760.51	3359.192	3	I				
29760.99	3359.137	10	I				
29761.37	3359.095	30	II				
29762.22	3359.000	1	II				
29762.64	3358.952	30	II				
29762.95	3358.916	0	II				
29765.03	3358.682	0	II				
29765.74	3358.602	1000	II				
29766.72	3358.491	10	I				
29767.65	3358.386	1	II				
29768.42	3358.300	300		5.5	6.5		A 34524- 4755

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WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LFVELS	
				J-C	J-E	G-C	G-E	TYPE
29769.09	3358.224	300		6.5	7.5			1 34110- 4341
29770.86	3358.024	3	II					
29771.77	3357.922	100	II					
29773.72	3357.701	0						
29774.62	3357.600	100	II					
29775.32	3357.522	10	I					
29776.22	3357.420	0	II					
29777.19	3357.311	100	I					
29778.34	3357.181	3	I					
29779.02	3357.104	1	II					
29779.58	3357.041	0	I					
29781.13	3356.866	1	II					
29781.49	3356.826	1	I					
29781.88	3356.781	0	I					
29782.14	3356.752	1	II					
29782.92	3356.664	1 W	I					
29783.83	3356.561	10	I					
29784.40	3356.498	3	I					
29784.58	3356.478	10	II					
29786.94	3356.212	300	II					1
29789.52	3355.920	10	I					
29791.55	3355.692	1	II					
29792.43	3355.593	100	II					
29793.16	3355.511	1 W	I					
29794.67	3355.340	100	II					
29796.20	3355.169	10	II					
29797.14	3355.063	300	II					4
29797.56	3355.015	3	II					
29797.82	3354.986	1	II					
29798.64	3354.893	1	II					
29798.91	3354.863	1	II					
29799.14	3354.838	1	I					
29799.87	3354.755	3	II					
29800.49	3354.686	100	I	8.0	7.0			7565-37366
29800.64	3354.668	30	II					
29802.35	3354.475	10	I					
29804.10	3354.278	10	I					
29804.70	3354.211	30	II					
29805.05	3354.173	10	II					
29806.12	3354.052	10	I					
29806.30	3354.032	1	II					
29806.79	3353.977	1	I					
29807.09	3353.943	0	I					
29807.35	3353.913	1	II					
29809.14	3353.712	10	II					

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS	
				J-C	J-E	G-C	G-E	TYPE
29810.26	3353.586	1000	II					4
29811.35	3353.463	10	II					
29812.08	3353.382	C	II					
29812.82	3353.298	1	II					
29813.39	3353.234	3C	II					
29814.69	3353.087	C	II					
29815.18	3352.920	3	I					
29816.37	3352.899	C	II					
29817.19	3352.806	10 W	I					
29818.24	3352.688	1000	II					
29820.63	3352.419	3	II					
29821.11	3352.365	C	II					
29822.44	3352.217	1C	II					
29823.12	3352.140	1	I					
29823.47	3352.101	1	II					
29823.99	3352.042	C	II					
29826.42	3351.768	1C	II					
29826.71	3351.736	100	I					
29827.68	3351.628	C	I					
29828.03	3351.588	C	II					
29828.38	3351.548	C	II					
29828.89	3351.491	C	II					
29830.72	3351.286	1C	II					
29830.92	3351.263	1C	I					
29831.60	3351.187	0						
29832.04	3351.137	1						
29832.44	3351.092	1C	II					
29832.88	3351.043	1C	I	8.0	8.0			7565-37398
29833.57	3350.965	10C	II					
29835.04	3350.800	3	II					
29835.48	3350.751	1	I					
29836.30	3350.659	1C	II					
29837.10	3350.568	3C	I	7.0	8.0			8519-38356
29837.34	3350.542	3	I					
29838.08	3350.459	1	II					
29839.52	3350.298	1C	II					
29840.84	3350.149	C	II					
29842.19	3349.998	3	II					
29842.46	3349.967	1	I					
29844.03	3349.791	0	II					
29845.83	3349.589	1	II					
29849.19	3349.212	0						
29850.08	3349.112	C						
29852.19	3348.876	30	II					
29853.11	3348.772	3	II					

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WAVE NUMPR	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
29853.52	3348.726	1C	II						
29854.12	3348.654	C	II						
29856.06	3348.441	0	II						
29858.13	3348.209	1	II						
29858.96	3348.115	0	II						
29859.43	3348.063	1							
29859.76	3348.027	10	II						
29860.86	3347.903	0	I						
29861.53	3347.828	100C	II					3	
29863.17	3347.644	0							
29864.11	3347.539	1	II						
29866.62	3347.258	3	II						
29867.21	3347.191	0	II						
29867.54	3347.154	0							
29867.91	3347.113	1	II						
29868.74	3347.019	1	I						
29869.03	3346.987	0	II						
29869.38	3346.947	3	II	4.5	4.5				39301- 9432
29870.57	3346.814	3	II						
29871.13	3346.752	3	II						
29871.93	3346.662	3	II						
29872.12	3346.641	1C	I						
29874.26	3346.401	1	II						
29874.56	3346.368	3	II						
29875.40	3346.274	1C	II						
29876.19	3346.185	1	II						
29876.55	3346.144	10C	II	3.5	4.5				39308- 9432
29878.16	3345.965	1	II						
29878.99	3345.871	1	I						
29879.65	3345.798	3C	II						
29880.06	3345.752	1	II						
29880.77	3345.672	0	II						
29882.09	3345.524	1							
29882.91	3345.433	0	II						
29883.44	3345.372	3C	II						
29884.60	3345.243	1	II						
29885.89	3345.099	1	II						
29887.24	3344.947	3	II						
29887.61	3344.906	3	II						
29888.33	3344.826	30	II						
29889.10	3344.740	3	II						
29889.86	3344.654	100	I						
29890.09	3344.629	3 Q	I						
29891.17	3344.508	3	II						
29891.39	3344.483	100	I	5.0	6.0				36942- 7050

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA		LEVELS		
				J-C	J-E	G-C	G-E	TYPE
29892.51	3344.358	C	II					
29894.C6	3344.184	C	II					
29894.57	3344.128	C						
29894.86	3344.095	3C	I					
29895.31	3344.C45	C	II					
29895.93	3343.976	1	II					
29896.37	3343.926	1C	II					
29896.64	3343.897	3	II					
29897.C6	3343.849	3	II					
29898.26	3343.715	C						
29899.55	3343.571	C						
29899.96	3343.524	1C	I					
29900.C9	3343.510	3C	II	5.5	5.5			37363- 7463
29901.37	3343.367	3C	II					
29902.87	3343.199	1	II					
29903.17	3343.166	3C	II					
29904.43	3343.025	1C						
29904.8C	3342.984	C						
29905.83	3342.868	1		9.C	9.0			9990-39895
29907.84	3342.644	1CC	II					
29908.C9	3342.616	1C	I					
29909.C2	3342.512	1						
29910.81	3342.311	3	II					
29913.02	3342.065	1C W	II					
29914.63	3341.885	10CC	II	6.5	7.5			1 34255- 4341
29915.66	3341.770	1	I					
29916.22	3341.707	1	II					
29917.32	3341.585	3	II					
29917.67	3341.545	3	II					
29918.57	3341.445	3C	II					
29918.71	3341.429	3CC	II	7.5	7.5			3 30747- 828
29918.96	3341.401	1C	I					
29919.76	3341.312	1						
29920.34	3341.248	1						
29920.75	3341.201	1						
29922.60	3340.995	3C00	II					2
29923.15	3340.933	3	II					
29926.C1	3340.614	10C W	II					
29927.51	3340.447	1						
29927.89	3340.404	1	II					
29928.76	3340.307	1C	I					
29929.30	3340.247	1	I					
29931.97	3339.949	C	II					
29932.36	3339.905	C	II					
29933.25	3339.806	1C	I	7.C	7.0			8519-38452

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA		LEVELS	
				J-C	J-E	G-C	G-E
29934.13	3339.708	1	W II				
29935.13	3339.596	1	II				
29935.92	3339.509	300	II	5.5	6.5		4 34691- 4755
29936.69	3339.422	10	II				
29937.49	3339.333	C					
29938.34	3339.239	1	II				
29938.71	3339.197	1	II				
29939.88	3339.066	3	II				
29940.09	3339.043	3	I				
29941.13	3338.928	1	II				
29941.80	3338.852	0					
29941.96	3338.834	1	II				
29942.52	3338.772	0	II				
29943.94	3338.613	100	I				2
29945.22	3338.471	1	II				
29946.55	3338.323	30	II				
29946.84	3338.290	1					
29947.44	3338.224	10	II				
29947.84	3338.179	1	II				
29948.45	3338.110	0					
29949.21	3338.026	10	II				
29949.72	3337.970	0		7.0	8.0		29949- 0
29951.34	3337.789	10	II				
29951.72	3337.746	3	I				
29952.57	3337.652	0					
29953.03	3337.600	30	II				
29953.68	3337.528	30	I				
29955.50	3337.325	3	II				
29956.99	3337.160	3	II				
29957.40	3337.114	30	II				
29958.06	3337.041	0	Q				
29958.95	3336.941	0	Q				
29959.92	3336.833	30	II				
29960.50	3336.769	3	II				
29961.52	3336.655	100	I	8.0	8.0		7565-37527
29962.32	3336.566	1	I				
29962.77	3336.515	3	II				
29963.80	3336.401	0	II				
29964.20	3336.356	3	II				
29965.89	3336.168	1	II				
29967.14	3336.029	10	II	4.5	5.5		39838- 9870
29967.64	3335.973	3	II				
29967.84	3335.951	1					
29968.39	3335.890	1	II				
29968.53	3335.874	3	I				

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
29968.96	3335.826	10C	II						3
29970.16	3335.693	3	II						
29970.64	3335.640	C							
29971.49	3335.545	10	II						
29971.83	3335.507	1							
29972.25	3335.460	3	II						
29972.94	3335.383	3	II						
29973.30	3335.343	1	II						
29974.25	3335.230	0	II						
29976.63	3334.973	10	I	6.0	5.0				39188- 9211
29977.63	3334.861	100	I						
29977.80	3334.843	30	II						
29978.53	3334.761	C							
29981.08	3334.478	1	II						
29981.34	3334.448	100	II						1
29982.08	3334.367	1							
29982.44	3334.326	3	II						
29983.91	3334.163	30	II	4.5	5.5				39854- 9870
29984.15	3334.137	300	II	5.5	4.5				A 39416- 9432
29985.55	3333.981	100	I						
29989.19	3333.576	1	II						
29989.45	3333.547	3	II						
29989.71	3333.518	1	I						
29990.27	3333.456	10	I						
29992.53	3333.205	1	II						
29992.93	3333.161	1	I						
29994.04	3333.037	10	II						
29994.59	3332.976	0							
29996.14	3332.804	C	I						
29996.37	3332.778	30	II						
29997.77	3332.622	1	II						
29998.30	3332.564	1	I						
30000.11	3332.363	0	II						
30000.54	3332.314	1							
30000.94	3332.270	1							
30001.58	3332.199	1	II						
30001.88	3332.166	3	II						
30002.96	3332.046	30	II						
30003.48	3331.989	3	I						
30004.00	3331.931	10	II						
30004.78	3331.844	10	II						
30005.33	3331.782	10	I						
30006.23	3331.683	1							
30007.86	3331.502	30	II	3.5	4.5				41808-11801
30008.28	3331.456	C							

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
30009.91	3331.275	100	II							
30010.62	3331.196	30	II							
30010.93	3331.162	10	I							
30011.68	3331.078	C								
30012.93	3330.939	C								
30013.41	3330.886	1	II							
30014.00	3330.820	C								
30014.51	3330.764	C	II							
30014.83	3330.728	10	I	9.C	10.0					9990-40005
30015.60	3330.643	10	II							
30015.99	3330.599	100	II							
30016.56	3330.536	1	II							
30017.15	3330.470	C								
30017.69	3330.411	1	II							
30019.19	3330.245	0	II							
30019.56	3330.204	10	II							
30020.44	3330.106	1	II							
30021.98	3329.935	1	II							
30023.21	3329.798	3	II							
30026.05	3329.484	1	II	6.5	7.5					30854- 828
30027.63	3329.308	10	II							
30027.95	3329.273	0								
30028.95	3329.162	3	II							
30029.63	3329.087	C	II							
30030.81	3328.956	10	II							
30031.13	3328.921	1	I							
30031.40	3328.890	3	II							
30032.25	3328.796	100	II	5.5	6.5			2		37517- 7485
30032.25	3328.796	100		7.0	8.0					8519-38551
30036.61	3328.313	3								
30037.49	3328.215	1	I							
30037.61	3328.203	C	II							
30038.18	3328.139	1	II							
30038.84	3328.065	0								
30040.05	3327.932	30	II							
30040.75	3327.854	1	II							
30041.30	3327.793	10	II							
30041.90	3327.727	1	II							
30042.27	3327.686	3	I	8.C	7.C					7565-37607
30042.64	3327.645	3	I							
30044.56	3327.432	0								
30045.00	3327.384	1	II							
30045.78	3327.297	100	II					3		
30047.37	3327.121	1	II							
30047.71	3327.083	300	II					2		

TABLE

DY LINE LIST

PAGE 518

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C		ZEEMAN DATA			LEVELS	
				J-C	J-E	G-C	G-E	TYPE	CCC-EVEN	
30048.58	3326.987	30	II							
30052.79	3326.521	100	II							
30053.71	3326.419	100	II							
30055.12	3326.264	C								
30055.76	3326.192	1000	II	8.5	7.5			2	34396-	4341
30058.70	3325.867	3	II							
30060.06	3325.716	3	I							
30060.41	3325.677	0								
30061.20	3325.590	10	II	8.5	8.5				30061	0
30061.97	3325.505	3	II							
30062.31	3325.468	1	II							
30064.04	3325.277	30	II	4.5	5.5				37527-	7463
30067.69	3324.872	C	II	3.5	4.5				39499-	9432
30067.84	3324.856	C	I							
30068.50	3324.783	3 W	I							
30071.09	3324.497	0	II							
30071.21	3324.483	3	I							
30073.03	3324.282	10	II							
30073.30	3324.252	1	II							
30073.63	3324.215	3	II							
30074.01	3324.174	100	II							
30075.93	3323.962	3	II							
30076.20	3323.932	3 W	II							
30077.11	3323.831	1	II							
30077.57	3323.781	1	II							
30078.16	3323.715	10	II							
30079.41	3323.577	10	I	7.0	7.0				34213-	4134
30080.31	3323.478	30	I							
30081.05	3323.396	1	I							
30082.14	3323.275	100	II					3		
30083.41	3323.135	1	I							
30083.58	3323.116	1	I							
30084.40	3323.025	1 B	II							
30084.53	3323.011	10	II							
30085.31	3322.925	30	II							
30086.57	3322.785	10	II							
30087.32	3322.703	10	I							
30088.03	3322.623	C	II							
30088.68	3322.553	C	II							
30089.06	3322.511	1	I							
30090.89	3322.309	1	II							
30091.43	3322.249	C	II							
30093.57	3322.013	1	I							
30093.80	3321.988	1	II							
30094.48	3321.913	C	II							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
30094.80	3321.878	3	II							
30095.29	3321.824	0	II							
30097.03	3321.631	1	II	8.5	8.5				30097-	0
30097.49	3321.580	0								
30097.94	3321.531	1	I							
30098.81	3321.435	3	W II							
30100.78	3321.218	0	II							
30101.91	3321.093	3	II							
30102.45	3321.033	10	II							
30102.81	3320.993	1	II							
30103.85	3320.878	1	I							
30104.19	3320.841	3	I							
30106.17	3320.623	1	II							
30107.90	3320.432	0	II							
30109.85	3320.216	1								
30111.28	3320.060	300	I	8.0	8.0			3	7565-37676	
30111.69	3320.014	3	II							
30112.12	3319.967	10	II							
30112.92	3319.878	10000	R II	7.5	8.5			2	30112-	0
30114.32	3319.723	100	II							
30114.70	3319.682	30	II							
30115.34	3319.612	1	II							
30115.61	3319.582	3	II							
30117.05	3319.424	100	II	5.5	4.5				39549-	9432
30117.78	3319.343	1	II							
30119.73	3319.128	1	II							
30120.54	3319.038	3	II							
30121.27	3318.958	0								
30121.86	3318.893	3	I							
30122.17	3318.859	1	II							
30122.88	3318.781	3	II							
30123.35	3318.728	10	II							
30124.14	3318.641	0	Q							
30124.68	3318.582	3	II							
30124.93	3318.555	0	Q							
30125.58	3318.483	30	II							
30126.11	3318.424	100	II					3		
30126.54	3318.378	1								
30128.09	3318.206	10	II							
30128.39	3318.174	3	II							
30128.80	3318.129	300	I	5.5	6.5			1	34884-	4755
30129.33	3318.070	0	II	5.5	6.5				37614-	7485
30130.57	3317.934	0	II							
30131.02	3317.884	0	II							
30131.87	3317.791	1	II							

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	GCC-EVEN
30171.76	3313.404	1	II						
30172.60	3313.312	100	II					1	
30174.07	3313.151	100	II	5.5	5.5			3	37637- 7463
30175.23	3313.023	30	II	3.5	4.5				39607- 9432
30175.83	3312.957	1							
30176.07	3312.931	30	I						
30177.99	3312.719	3000	II	8.5	7.5			4	34519- 4341
30179.44	3312.561	0							
30180.54	3312.440	10	I						
30181.56	3312.328	30	II						
30183.62	3312.102	3	II						
30184.23	3312.035	1							
30185.29	3311.919	0	I						
30185.39	3311.908	3	I						
30185.70	3311.873	3	I	8.0	7.0				7565-37751
30186.18	3311.821	1		6.5	6.5				37671- 7485
30187.31	3311.697	0	II						
30188.99	3311.513	100	II					1	
30190.62	3311.334	1	II						
30191.27	3311.263	10	II						
30192.32	3311.147	1	II						
30193.96	3310.967	100	II					3	
30194.64	3310.893	1	II						
30195.83	3310.762	3	I						
30196.11	3310.732	1	II						
30196.46	3310.693	0	II						
30196.74	3310.663	3	I						
30197.56	3310.572	1	II						
30198.14	3310.510	0							
30198.94	3310.421	1							
30199.67	3310.342	0	II						
30200.69	3310.230	0							
30201.07	3310.188	1	II						
30202.10	3310.075	0	II						
30202.45	3310.037	1	I						
30203.40	3309.933	1	II						
30204.04	3309.863	3	II						
30204.32	3309.832	1	II						
30208.33	3309.392	1	II	3.5	4.5				39640- 9432
30208.54	3309.370	1							
30210.91	3309.110	3 W	I						
30212.98	3308.884	3000	II					1	
30213.79	3308.795	1000	II					4	
30218.43	3308.287	300	I	7.0	7.0			3	8519-38737
30218.74	3308.252	3	II						

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
30219.55	3308.163	1	II						
30220.12	3308.102	1							
30220.52	3308.057	30	II	4.5	5.5			40091- 9870	
30221.34	3307.968	10	II						
30221.96	3307.900	1	II						
30222.41	3307.851	30	II						
30223.39	3307.743	1	II						
30224.64	3307.607	1	II						
30225.34	3307.530	3	I						
30226.11	3307.446	0	II						
30226.28	3307.427	3	I						
30227.09	3307.338	0	II						
30228.82	3307.149	1	II						
30229.47	3307.078	1	II						
30230.62	3306.953	1	II						
30231.63	3306.842	3	I						
30232.07	3306.794	30	II						
30232.23	3306.776	1	II						
30233.30	3306.659	3	I						
30235.69	3306.398	10	I						
30236.40	3306.320	10	I						
30237.61	3306.188	300	II					2	
30238.35	3306.106	0							
30240.41	3305.882	10	I						
30240.87	3305.831	1							
30241.21	3305.795	0							
30241.88	3305.721	0							
30242.40	3305.664	10	II						
30243.35	3305.560	30	I						
30243.78	3305.513	300	II					3	
30244.81	3305.401	300	II					2	
30244.95	3305.386	30 B	I						
30245.87	3305.285	1	II						
30247.08	3305.153	1	I						
30248.48	3305.000	1	II						
30249.64	3304.873	0	II						
30249.86	3304.848	0							
30250.44	3304.785	1	II						
30251.17	3304.706	30	II						
30251.83	3304.634	3 W	I						
30252.91	3304.516	0	II						
30254.27	3304.367	0	II						
30254.63	3304.328	3 W	I						
30254.94	3304.294	100	II						
30256.85	3304.085	0	II						

TABLE

DY LINE LIST

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WAVE NUMBR	WAVE LENGTH	INT	SA	ZEEMAN DATA		LEVELS	
				J-C	J-E	G-C	G-E
30257.00	3304.069	10	II				
30257.52	3304.012	1					
30257.89	3303.972	3	II				
30259.51	3303.795	3	II	4.5	4.5		39691- 9432
30260.24	3303.715	3	II				
30260.68	3303.667	10	II				
30261.12	3303.619	1	II				
30261.28	3303.602	30	I				
30262.17	3303.504	1	II				
30263.72	3303.335	0	II				
30264.51	3303.249	1	II				
30265.11	3303.183	3 W	II				
30265.23	3303.170	1 B	II				
30266.13	3303.073	1	II				
30266.66	3303.015	0	I				
30267.20	3302.955	0	II				
30269.25	3302.731	1	II				
30270.04	3302.646	0	II				
30270.54	3302.591	1	II				
30270.78	3302.564	3	II				
30271.65	3302.470	100	II				3
30272.28	3302.401	30	II				
30272.73	3302.353	1	I				
30274.08	3302.205	0	II				
30274.78	3302.128	100	I				A
30275.39	3302.062	3	I				
30275.81	3302.016	10	II				
30276.23	3301.970	100	I	8.0	8.0		3 7565-37841
30278.15	3301.761	1					
30278.44	3301.730	10	II				
30278.50	3301.723	10	II	3.5	3.5		41232-10953
30278.88	3301.681	1	II				
30279.96	3301.563	3	II				
30280.64	3301.490	10	II				
30283.40	3301.189	0	II				
30283.62	3301.165	1	II				
30284.75	3301.042	1	II				
30285.84	3300.923	100	II				3
30286.47	3300.854	0	II				
30286.69	3300.830	1	II	3.5	4.5		42087-11801
30288.39	3300.644	0	II				
30289.11	3300.566	3	II				
30289.89	3300.482	3	II				
30290.64	3300.400	1	II				
30291.47	3300.310	1	II				

TABLE

DY LINE LIST

PAGE 524

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	OCC	EVEN
30292.16	3300.234	0								
30292.84	3300.159	10	I							
30293.56	3300.081	3	II							
30293.81	3300.054	0	II							
30295.63	3299.856	3	II							
30297.98	3299.600	1	II							
30298.90	3299.500	10	I							
30301.58	3299.208	10	I							
30302.12	3299.149	30	II							
30302.46	3299.112	1								
30303.03	3299.050	10	II							
30304.98	3298.838	1	II							
30306.41	3298.682	3	I							
30307.25	3298.591	30	I	6.0	7.0				10088-40396	
30307.86	3298.524	0	II							
30308.92	3298.409	3	II							
30309.35	3298.362	10	I							
30310.42	3298.245	30	II							
30310.58	3298.228	30	I	5.5	6.5				37795- 7485	
30312.32	3298.038	10	II							
30314.25	3297.829	1	I							
30314.58	3297.793	0	II							
30315.34	3297.710	0	II							
30315.67	3297.653	1	II							
30316.33	3297.603	100	II					4		
30316.68	3297.565	10	I							
30317.55	3297.470	1	II							
30319.08	3297.303	1	II							
30319.15	3297.296	3	I							
30319.83	3297.222	3	II							
30320.26	3297.175	30		5.5	6.5				35075 4755	
30321.39	3297.052	10	I							
30323.08	3296.868	10	II							
30324.82	3296.679	0	II							
30326.55	3296.492	0	II							
30326.55	3296.492	0	II	8.5	7.5				34667- 4341	
30327.07	3296.434	1	II							
30328.29	3296.302	300	II					4		
30328.80	3296.247	3	II							
30329.47	3296.174	3	I							
30330.92	3296.016	1	I							
30331.31	3295.974	10	II							
30331.85	3295.916	1		5.5	5.5				37795- 7463	
30332.22	3295.875	100	II							
30332.63	3295.830	1	I							

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS	
				J-C	J-E	G-C	G-E	TYPE
30333.12	3295.777	1	II					
30334.35	3295.643	1	II					
30334.69	3295.606	10	II					
30335.84	3295.482	0	II					
30336.54	3295.405	30	II					
30338.41	3295.202	100	II					3
30339.15	3295.122	10						
30339.58	3295.076	1	I					
30340.09	3295.020	0						
30340.49	3294.976	30	II					
30341.04	3294.917	100	II					1
30342.32	3294.777	30	I					3
30342.82	3294.723	1	II					
30343.31	3294.670	100	II					A
30343.91	3294.605	30	II					
30344.97	3294.490	1	I					
30346.78	3294.294	1	II					
30347.23	3294.245	1	II					
30347.62	3294.203	3	II					
30348.58	3294.099	0						
30349.10	3294.042	1	II					
30349.63	3293.984	0	II					
30350.25	3293.917	3	II					
30350.62	3293.876	10	II					
30351.28	3293.805	1000	II					3
30352.00	3293.727	3						
30352.67	3293.654	0	II					
30352.83	3293.637	10	II	5.5	5.5			40223- 9870
30353.14	3293.603	3	II					
30353.47	3293.568	1	II					
30353.81	3293.531	1	II					
30354.29	3293.479	0	II					
30354.78	3293.426	100	II	6.5	7.5			2 31183- 828
30355.47	3293.351	1	II					
30356.95	3293.189	1	II					
30357.51	3293.129	0						
30357.98	3293.078	0						
30359.00	3292.967	30	I					A
30360.17	3292.841	1	II					
30361.79	3292.665	0						
30362.25	3292.615	30	II					
30363.25	3292.506	3	II					
30363.52	3292.477	3	II					
30364.17	3282.407	0	II					
30364.40	3292.383	1 W	II					

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	GCC-EVEN	
30365.28	3292.287	0								
30365.61	3292.250	C	II							
30366.37	3292.168	10	I							
30366.81	3292.121	10	II							
30368.02	3291.990	0	I							
30370.31	3291.742	C								
30371.29	3291.635	0	II							
30371.52	3291.610	1	II							
30372.12	3291.545	1	II							
30372.78	3291.473	0	II							
30372.98	3291.451	C	II							
30373.63	3291.381	C	II							
30374.08	3291.332	3	II							
30374.78	3291.257	1								
30376.03	3291.121	100	II						3	
30376.65	3291.054	3	II							
30378.10	3290.898	0								
30378.38	3290.867	1	II							
30380.18	3290.673	C	II							
30380.41	3290.647	C	II							
30381.51	3290.520	10	II							
30384.42	3290.213	10	II							
30386.33	3290.005	C	II							
30386.67	3289.969	100	I							
30388.14	3289.810	10	II							
30390.52	3289.552	3	II							
30390.69	3289.534	3	II							
30392.02	3289.390	3	II							
30392.51	3289.337	30	II							
30392.77	3289.309	1	II							
30393.44	3289.236	3	II							
30394.29	3289.144	10	II							
30394.67	3289.103	100	I						4	
30395.29	3289.036	10	II							
30396.09	3288.949	0	II							
30396.42	3288.914	1	II							
30397.47	3288.800	3	II							
30398.00	3288.742	C								
30399.10	3288.624	1000	II	7.5	8.5				2	30399- 0
30400.10	3288.515	1	II							
30400.93	3288.426	1	II							
30402.10	3288.299	3	II	3.5	3.5					41356-10953
30402.68	3288.237	3	I							
30404.43	3288.047	1								
30405.38	3287.944	1000	II						4	

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
30406.04	3287.874	30	II	4.5	4.5				39838- 9432
30406.65	3287.807	1	II						
30408.37	3287.621	1	I						
30408.82	3287.572	1	II						
30409.17	3287.534	10	I						
30411.04	3287.333	1	II						
30411.71	3287.260	0	II						
30412.55	3287.170	3	II						
30412.69	3287.154	1	II						
30413.23	3287.096	3							
30413.60	3287.056	3	II	3.5	3.5				41367-10953
30414.17	3286.994	1	II						
30414.40	3286.970	30	I	8.0	7.0				7565-37980
30415.48	3286.852	10	II						
30416.57	3286.735	0	II						
30416.85	3286.704	3	II						
30418.05	3286.575	300	II					1	
30419.38	3286.431	0	II						
30420.35	3286.326	3	II						
30420.60	3286.299	3	II						
30421.12	3286.243	30	II						
30421.98	3286.151	30	II						
30422.81	3286.060	30	II	4.5	4.5				39854- 9432
30423.91	3285.942	30	II						
30424.16	3285.915	10	I						
30426.75	3285.635	10	II						
30427.16	3285.591	3	I						
30428.53	3285.443	10	II						
30429.31	3285.358	1	II						
30429.69	3285.317	1	II						
30430.48	3285.232	10 W	I						
30431.18	3285.157	3	II	4.5	5.5				37895- 7463
30431.66	3285.105	10	I						
30432.60	3285.004	10	II						
30432.90	3284.972	10	II						
30433.77	3284.878	30	II						
30433.91	3284.862	30	I					A	
30434.19	3284.832	3	II						
30434.77	3284.769	100	I					3	
30438.51	3284.365	300	II					4	
30439.53	3284.256	30	II						
30440.13	3284.191	3	II						
30441.82	3284.008	100	II					A	
30443.15	3283.866	C							
30444.28	3283.743	30	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
30444.56	3283.713	30	II						A
30446.02	3283.556	100	I						3
30447.56	3283.389	0	II						
30448.37	3283.302	1							
30448.77	3283.259	1							
30449.71	3283.158	300	II						3
30450.40	3283.083	100	I						3
30452.16	3282.894	300	II	7.5	6.5				4 35207- 4755
30453.26	3282.775	1000	II						4
30454.21	3282.673	30	I	7.0	8.0				8519-38973
30455.38	3282.546	10	II						
30455.52	3282.531	30	I						
30455.77	3282.504	30	II						
30456.64	3282.411	1	II						
30457.15	3282.356	3	II						
30459.51	3282.101	1	II						
30459.90	3282.059	3	II						
30460.44	3282.001	10	I						
30461.83	3281.852	0	II						
30462.46	3281.783	30	II						
30463.69	3281.651	100	II						4
30464.77	3281.534	10	II						
30465.50	3281.456	0	II						
30466.47	3281.352	0	I						
30467.25	3281.268	0	II						
30468.74	3281.107	1	II						
30469.90	3280.982	3	II						
30470.74	3280.891	1	I						
30471.15	3280.847	3	I						
30472.85	3280.664	30	II						
30473.13	3280.634	1							
30473.48	3280.597	1	II						
30474.60	3280.478	0							
30474.92	3280.442	10							
30475.18	3280.413	1							
30475.75	3280.352	1	I						
30476.60	3280.261	0	II						
30478.17	3280.092	10000	II	7.5	7.5				3 31306- 828
30480.15	3279.879	1							
30481.84	3279.696	300	II						
30482.00	3279.679	30	B						
30482.84	3279.589	10	I						
30483.57	3279.511	30	II						
30484.10	3279.453	100	II						
30485.32	3279.322	3	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
30486.28	3279.219	3	I						
30487.48	3279.091	C							
30488.26	3279.006	C							
30489.65	3278.857	10	II						
30490.67	3278.747	3	I	5.0	6.0				37541- 7050
30491.64	3278.643	1	II						
30492.90	3278.507	1	II						
30493.93	3278.397	10	II						
30494.55	3278.330	100	II						
30494.55	3278.330	100	II	4.5	5.5				37958- 7463
30495.24	3278.256	3	II						
30496.77	3278.091	C	I						
30497.00	3278.061	C	II						
30498.36	3277.920	1 Q							
30498.51	3277.905	10	II						
30499.19	3277.831	3	II						
30499.76	3277.770	3C	I						
30500.91	3277.646	100	II						
30501.45	3277.588	10C	II						
30501.99	3277.530	1	II						
30502.70	3277.454	3	II						
30503.01	3277.421	3	I						
30504.31	3277.281	10	II						
30506.02	3277.097	C	II						
30506.62	3277.032	1	II						
30506.70	3277.024	3	II						
30508.43	3276.839	1	II						
30509.53	3276.720	1							
30510.07	3276.662	1	II						
30511.03	3276.558	1	II						
30512.52	3276.399	10	I						
30512.76	3276.374	1	II	5.5	6.5				35268- 4755
30513.79	3276.263	1	II						
30514.19	3276.220	3	I						
30514.59	3276.176	3	II						
30514.83	3276.151	3	I						
30515.96	3276.030	10	I						
30516.60	3275.961	0	II						
30516.90	3275.928	10C							
30518.45	3275.762	3C	I						
30518.63	3275.743	10	II						
30519.18	3275.684	1							
30519.67	3275.632	10	I						
30520.68	3275.523	C	II						
30521.26	3275.460	C							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
30522.C1	3275.380	C	II							
30524.69	3275.092	1	I							
30525.90	3274.962	3	II							
30526.14	3274.937	1 W	I							
30526.76	3274.870	1 W	I							
30527.46	3274.796	C								
30528.58	3274.675	C W	II							
30529.20	3274.609	1	II							
30529.56	3274.570	1	II							
30530.57	3274.461	C	II							
30532.41	3274.264	3	II							
30532.94	3274.208	10	II							
30534.45	3274.045	0	II							
30534.66	3274.023	1								
30535.38	3273.946	3	II							
30535.77	3273.905	3	II							
30535.88	3273.893	3	II							
30536.25	3273.852	0								
30536.97	3273.776	10	I							
30538.38	3273.624	1	II							
30538.84	3273.575	1	II							
30540.37	3273.411	3	I							
30540.66	3273.380	3	I							
30541.27	3273.315	C	I							
30542.36	3273.197	C	II							
30542.68	3273.163	0								
30544.57	3272.961	1000 R	I	8.C	8.0	1.22	1.24	3	30544-	0
30546.73	3272.730	300	II					1		
30547.26	3272.673	3	I							
30548.32	3272.559	3	II							
30548.96	3272.490	1	II							
30552.70	3272.090	100	II					2		
30553.25	3272.031	30	II							
30554.74	3271.871	1								
30556.66	3271.666	3	II							
30557.65	3271.560	10	I							
30558.36	3271.484	1 Q								
30558.91	3271.425	100	I					3		
30560.01	3271.307	10	II							
30560.56	3271.249	1								
30560.90	3271.212	3	I							
30561.15	3271.186	1	I							
30563.04	3270.983	3	I							
30563.45	3270.939	10	II							
30564.48	3270.829	3	II							

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA		LEVELS			
				J-C	J-E	G-C	G-E	TYPE	ODD-EVEN
30564.76	3270.799	1	II						
30566.06	3270.659	10	I	7.0	8.0				30566- 0
30566.95	3270.565	3	I						
30567.41	3270.516	0							
30568.C7	3270.444	1	II						
30569.C4	3270.341	0	II						
30569.35	3270.308	1	II						
30570.15	3270.223	1	II						
30570.76	3270.157	0	II						
30571.69	3270.057	1	II						
30572.73	3269.947	1	II						
30572.94	3269.923	1	II						
30575.37	3269.664	3	II						
30576.53	3269.540	10	II						
30576.87	3269.504	3	I	7.0	8.0				8519-39096
30577.87	3269.396	0							
30578.26	3269.354	10	I						
30578.80	3269.298	3	II						
30579.20	3269.254	1							
30579.60	3269.211	3	I						
30580.57	3269.108	3000	II						3
30584.91	3268.644	30	I						3
30585.54	3268.577	10	II						
30586.79	3268.443	10	I						
30587.03	3268.418	3							
30587.70	3268.345	3							
30587.91	3268.324	1	II						
30588.33	3268.278	30	II						
30589.22	3268.184	1							
30589.66	3268.136	0 Q							
30590.23	3268.075	30	II						
30592.63	3267.819	1	II						
30592.93	3267.787	30	II						
30593.21	3267.757	30	II						
30593.81	3267.693	3	II						
30594.43	3267.627	1	II						
30596.46	3267.410	1	II						
30597.37	3267.313	0							
30597.87	3267.259	3	II						
30599.00	3267.139	1	II						
30599.73	3267.060	0	II						
30600.42	3266.988	0	II						
30603.97	3266.609	10	II	3.5	4.5				40036- 9432
30604.71	3266.529	0	II						
30605.01	3266.497	3	I						

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
30605.81	3266.412	1	II						
30607.70	3266.210	300	II					1	
30609.44	3266.024	100	II	7.5	6.5			2	35365- 4755
30609.69	3265.998	100	II					1	
30612.54	3265.651	C							
30613.79	3265.560	3	II						
30614.14	3265.523	100	II					3	
30615.96	3265.329	0	II						
30617.55	3265.159	30	II						
30619.20	3264.984	0							
30620.14	3264.884	1	I						
30620.83	3264.810	3	I						
30621.44	3264.744	30	II						
30621.74	3264.712	10	II						
30622.51	3264.630	1							
30622.78	3264.602	1	II						
30623.40	3264.535	1	II						
30625.60	3264.300	100	II					3	
30626.33	3264.223	1							
30628.14	3264.030	1	II						
30628.69	3263.972	0	G						
30629.28	3263.908	1	II						
30629.78	3263.855	1	II						
30630.51	3263.778	1	I						
30630.81	3263.746	1	I						
30632.35	3263.581	10	II						
30634.63	3263.339	1	II						
30636.06	3263.186	3000	R I	6.0	7.0			4	34770- 4134
30637.10	3263.076	10	II						
30637.86	3262.994	0	II						
30638.35	3262.943	10	II						
30639.07	3262.866	1							
30639.46	3262.825	1	II						
30640.37	3262.728	1	II						
30641.19	3262.640	1	I						
30641.83	3262.572	0							
30644.59	3262.278	30	II						
30645.12	3262.222	10	II	6.5	6.5				38130- 7485
30646.25	3262.101	0							
30646.81	3262.042	30	II						
30647.63	3261.954	10	II						
30649.17	3261.791	0							
30649.79	3261.725	0	II						
30650.31	3261.669	1							
30650.89	3261.607	10	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
30651.91	3261.499	3	II						
30653.60	3261.319	1	II						
30654.58	3261.215	100	II					3	
30656.16	3261.047	C							
30656.53	3261.008	10	II						
30657.65	3260.888	3	II						
30659.25	3260.718	300	I					1	
30659.41	3260.701	1000	II	4.5	4.5			3	40091- 9432
30661.23	3260.508	3	I						
30662.05	3260.420	10	II						
30662.97	3260.322	10	I						
30663.80	3260.234	10	II						
30664.75	3260.134	1	II						
30665.81	3260.021	300	II					2	
30666.68	3259.928	30	II					4	
30667.01	3259.893	10	I						
30668.15	3259.772	10	II						
30669.74	3259.602	3	I						
30670.36	3259.537	C							
30670.93	3259.477	1							
30671.76	3259.388	1	II						
30672.25	3259.336	3	II						
30672.72	3259.286	3	II						
30674.77	3259.068	30	I						
30676.44	3258.890	10 W	II						
30678.10	3258.714	C							
30678.39	3258.683	1	I						
30678.64	3258.657	3	II						
30680.65	3258.443	3	I						
30681.12	3258.393	1	I						
30682.16	3258.203	10	II						
30682.98	3258.196	1	II						
30684.46	3258.039	10	II						
30685.48	3257.930	3	II						
30685.92	3257.884	3	I						
30686.52	3257.821	C							
30687.88	3257.676	3	I						
30689.36	3257.518	10	I						
30689.80	3257.473	C							
30690.40	3257.409	3	II						
30690.80	3257.366	100	II					3	
30692.12	3257.226	100	II						
30692.61	3257.174	300	I	9.0	9.0			3	9990-40683
30693.30	3257.101	0							
30693.96	3257.031	3	II						

TABLE

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
30694.73	3256.948	3	II						
30695.75	3256.841	1	II						
30696.48	3256.763	0	II						
30697.20	3256.687	10 W	I						
30698.09	3256.593	1							
30698.67	3256.531	1		8.0	7.0				7565-38264
30700.05	3256.384	10	II						
30700.95	3256.289	1							
30701.23	3256.259	300	II					3	
30701.50	3256.231	3 B							
30702.68	3256.106	1 W	I						
30703.64	3256.004	0	II						
30704.77	3255.884	10	II						
30705.30	3255.828	1	II						
30706.83	3255.666	1000	I					3	
30707.60	3255.583	10	I						
30708.16	3255.524	3	II						
30708.52	3255.487	1	II						
30709.11	3255.423	1							
30709.71	3255.360	1	II						
30710.83	3255.241	10	II						
30711.71	3255.148	10	I	7.0	8.0				30711- U
30713.00	3255.011	3	II						
30714.14	3254.891	0							
30714.78	3254.823	0							
30715.66	3254.729	1							
30716.28	3254.663	0							
30717.99	3254.483	100	II					1	
30719.27	3254.347	1	II						
30720.30	3254.238	3	I						
30720.74	3254.191	0							
30721.80	3254.079	0							
30722.22	3254.035	1							
30723.40	3253.910	30	II					A	
30723.90	3253.856	10	II						
30726.58	3253.573	0							
30727.57	3253.468	3	II						
30728.53	3253.366	1	II						
30729.27	3253.288	3	I						
30729.61	3253.252	3	II						
30729.89	3253.223	3	II						
30730.94	3253.111	1 W	II						
30731.77	3253.023	10	II						
30733.36	3252.854	1 W							
30734.00	3252.788	1	I						

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
30735.41	3252.639	30	II						
30736.04	3252.572	0	II						
30736.88	3252.483	1	II						
30737.82	3252.383	3	II						
30738.40	3252.322	1	II						
30739.66	3252.189	300	II					3	
30740.44	3252.106	1							
30741.18	3252.027	0							
30741.99	3251.942	30	II						
30742.40	3251.898	300	II					2	
30744.00	3251.730	3	II	3.5	4.5				40176- 9432
30744.61	3251.664	0	I						
30747.04	3251.407	100	II	7.5	8.5			1	30747- 0
30747.34	3251.376	10							
30748.36	3251.268	3000	II					1	
30750.10	3251.084	3 W	I						
30751.02	3250.987	100	II					1	
30751.95	3250.888	1							
30754.54	3250.614	10	I						
30755.17	3250.548	1	II						
30755.77	3250.484	30 W	I						
30756.24	3250.435	0							
30757.09	3250.345	1	II						
30757.56	3250.296	1	II						
30760.06	3250.031	0							
30760.41	3249.994	3	II						
30761.27	3249.904	3	II						
30762.78	3249.744	3	II						
30763.34	3249.685	1	II						
30764.75	3249.536	1	II						
30765.90	3249.414	10	II						
30766.69	3249.331	10	II	6.5	6.5				38251- 7485
30766.88	3249.311	3 B	I						
30768.04	3249.188	3 W	II						
30770.27	3248.953	3	I						
30770.84	3248.893	10	II						
30771.40	3248.833	3							
30771.93	3248.778	0							
30774.50	3248.506	0							
30775.10	3248.443	1	I						
30775.90	3248.359	300	II					4	
30777.02	3248.240	1	II						
30777.83	3248.155	1							
30782.56	3247.655	1							
30782.95	3247.614	3	II						

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
30784.13	3247.490	3	II						
30785.38	3247.358	0							
30786.20	3247.272	1	II						
30787.63	3247.121	3	I	7.0	7.0				34921- 4134
30787.84	3247.098	1	II						
30788.71	3247.007	3	I						
30789.34	3246.940	3	II						
30789.69	3246.903	1	II						
30790.66	3246.802	300	I	8.0	8.0	1.36	1.36	4	7565-38356
30791.76	3246.685	100	II	5.5	4.5			2	40223- 9432
30792.51	3246.606	1							
30793.06	3246.549	C							
30794.18	3246.430	1	II						
30795.00	3246.344	C							
30795.50	3246.291	1							
30796.58	3246.178	3 W	II						
30797.80	3246.048	C							
30799.43	3245.877	30	II						
30799.81	3245.837	1 W	I						
30800.71	3245.742	1	I						
30801.43	3245.666	3	II						
30802.33	3245.571	C							
30804.05	3245.390	300	I						1
30804.53	3245.340	0							
30805.13	3245.276	1							
30806.57	3245.124	1000	II						1
30807.40	3245.037	1 W							
30808.05	3244.968	1	II						
30809.28	3244.839	1							
30809.68	3244.797	30	I						A
30810.22	3244.740	10	II						
30811.84	3244.569	1	II						
30812.31	3244.520	10	II	6.5	6.5				38297- 7485
30813.33	3244.413	0							
30813.80	3244.363	100	I						3
30813.91	3244.352	3	II						
30815.46	3244.189	1	II						
30816.09	3244.122	C							
30816.69	3244.059	C	II						
30818.17	3243.903	10	II						
30819.30	3243.784	30	II						2
30819.88	3243.723	30	II						2
30820.65	3243.643	3	II						
30823.62	3243.330	C							
30825.62	3243.119	30	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
30826.33	3243.044	10	II						
30826.83	3242.992	3	II						
30827.31	3242.941	3	II						
30828.20	3242.848	1	II						
30830.02	3242.656	3	II						
30831.52	3242.498	300	II					4	
30833.33	3242.308	3 B							
30833.48	3242.292	10	II	6.5	5.5				38297- 7463
30834.07	3242.230	1							
30835.42	3242.088	3	II						
30835.84	3242.044	3	II						
30837.25	3241.896	1 Q							
30837.99	3241.818	0	II						
30838.95	3241.717	3	II						
30839.66	3241.643	3	II						
30840.76	3241.527	10	I						
30842.32	3241.363	10	I	9.0	8.0				9990-40833
30842.84	3241.309	30	II						
30845.91	3240.985	1							
30846.54	3240.919	1 W							
30847.10	3240.861	100	II					2	
30847.76	3240.792	1	I						
30848.43	3240.721	30	II					4	
30850.41	3240.512	1	I						
30850.71	3240.482	0 Q							
30851.63	3240.385	10	II						
30853.08	3240.233	1	I						
30853.21	3240.219	1							
30854.03	3240.133	1	II	6.5	7.5				31682- 828
30854.94	3240.037	100	II	3.5	3.5			3	41808-10953
30856.42	3239.882	3 W	II						
30857.71	3239.746	100	I	7.0	8.0			A	8519-39376
30859.24	3239.585	100	II					2	
30860.46	3239.457	10	II						
30862.30	3239.264	0	II						
30863.01	3239.190	10	II						
30866.36	3238.838	0	II						
30866.73	3238.800	100	II	7.5	7.5			3	35207- 4341
30867.75	3238.693	100	II					2	
30869.10	3238.550	3	II						
30870.32	3238.422	3 W	I						
30871.59	3238.290	30	II						
30871.84	3238.263	1	II						
30872.72	3238.170	30	II						
30873.06	3238.136	1	II						

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	CCC-EVEN	
30873.38	3238.102	C								
30873.76	3238.062	C								
30874.22	3238.014	1	II							
30874.42	3237.993	3	I							
30875.71	3237.857	3 W	II							
30877.38	3237.683	1 W	II							
30879.01	3237.512	0	II							
30880.42	3237.364	10	I	9.0	8.0				9990-40871	
30881.40	3237.261	1								
30881.62	3237.238	1	II							
30882.15	3237.182	3	II							
30883.04	3237.089	100	II					3		
30884.86	3236.898	0								
30886.26	3236.752	3								
30886.82	3236.693	1000	II	6.5	7.5			1	31715-	828
30886.82	3236.693		R	8.0	7.0				7565-38452	
30887.41	3236.631	100	II	4.5	5.5			1	38351-	7463
30888.35	3236.532	3	II							
30889.51	3236.411	10	II							
30890.28	3236.330	10	I							
30890.81	3236.274	10	II							
30891.37	3236.216	1	II							
30891.91	3236.160	0	II							
30892.69	3236.078	100	II							
30894.45	3235.894	3000 R	II	9.5	8.5	1.32	1.29	2	30894-	0
30895.18	3235.817	100	II					4		
30896.37	3235.693	3	I							
30897.80	3235.543	30	I							
30899.54	3235.360	1	II							
30901.74	3235.129	3	II							
30902.17	3235.085	100	II					A		
30905.26	3234.762	10	I							
30905.59	3234.726	1								
30906.08	3234.676	1	II							
30906.74	3234.607	10	I							
30907.45	3234.532	300	I					A		
30908.08	3234.467	10	II							
30908.56	3234.416	100	I					A		
30910.66	3234.196	1 W	I							
30911.65	3234.093	30	II					3		
30913.52	3233.897	3	II							
30913.97	3233.850	3	I							
30915.03	3233.740	C	II							
30916.65	3233.570	3	II							
30917.18	3233.514	1	II							

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS	
				J-C	J-E	G-C	G-E	TYPE
30967.21	3228.290	3	II					
30968.52	3228.154	30	II					
30969.78	3228.022	0	II					
30970.18	3227.980	1	II					
30970.71	3227.925	1	II					
30971.48	3227.845	3	II					
30972.32	3227.758	30	II					
30972.76	3227.712	100	II	5.5	6.5		2	35728- 4755
30974.14	3227.568	0						
30974.46	3227.534	1	II					
30974.80	3227.499	10	II					
30975.56	3227.419	10	II					
30976.47	3227.325	0	II					
30977.85	3227.181	3	II					
30978.38	3227.126	3	II					
30978.88	3227.074	1						
30979.27	3227.033	10	II					
30980.39	3226.917	3						
30981.20	3226.833	3	I					
30981.96	3226.753	1	II					
30982.77	3226.669	0	G					
30983.15	3226.629	0						
30983.69	3226.573	1						
30984.23	3226.517	1	II					
30985.55	3226.380	100	II				3	
30987.50	3226.176	1						
30988.50	3226.072	100	II				4	
30989.70	3225.947	3000	II				3	
30990.29	3225.886	10	II					
30990.99	3225.813	0	G					
30991.44	3225.766	30	II					
30993.80	3225.521	3	II	4.5	5.5			38457- 7463
30994.09	3225.490	1						
30994.85	3225.411	3	II					
30995.28	3225.367	3	II					
30995.52	3225.342	3	II	5.5	4.5			40427- 9432
30996.03	3225.200	1						
30997.33	3225.153	100	II					
30997.67	3225.117	30						
30998.04	3225.079	1000	II	7.5	7.5		3	31826- 828
30999.78	3224.898	3	II					
31000.36	3224.837	0						
31000.88	3224.784	1	II					
31001.94	3224.674	1	II					
31002.69	3224.595	3	II					

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS	
				J-C	J-E	G-C	G-E	TYPE
31004.01	3224.459	0	II					
31004.51	3224.406	3	I					
31006.95	3224.152	1	I					
31007.70	3224.075	10	II					
31008.45	3223.996	1						
31008.81	3223.959	10	I					
31009.35	3223.903	3	II					
31009.96	3223.840	30	II	5.5	6.5			38495- 7485
31010.64	3223.769	1	I					
31011.00	3223.732	1						
31011.47	3223.682	10	II					
31011.87	3223.640	3 G						
31015.30	3223.284	300	II				1	
31015.55	3223.258	30					4	
31017.56	3223.050	1						
31019.24	3222.875	10	II					
31019.95	3222.801	1	II					
31020.16	3222.779	1	II					
31020.51	3222.743	1 W						
31021.95	3222.593	3	II					
31022.37	3222.549	1	II					
31022.88	3222.497	1 W	II					
31023.72	3222.410	3	II					
31024.30	3222.349	1	I					
31025.71	3222.203	0	II					
31026.06	3222.167	1	II					
31027.02	3222.067	1	II					
31028.78	3221.883	100	II				4	
31030.21	3221.736	1	II					
31031.16	3221.637	300	II	5.5	5.5		3	38495- 7463
31031.58	3221.593	30	II					
31032.54	3221.494	300	II				1	
31036.17	3221.116	1	II					
31036.63	3221.069	30	I				3	
31037.52	3220.977	0						
31038.64	3220.860	100	I	9.0	9.0		3	9990-41029
31040.62	3220.655	1	I					
31041.16	3220.599	1	II					
31042.46	3220.463	300	II				3	
31045.24	3220.175	1	II					
31045.70	3220.128	3	II					
31046.26	3220.070	3	I					
31046.64	3220.030	0						
31046.97	3219.996	1	II					
31047.88	3219.907	1	II					

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	CCC-EVEN	
31048.73	3219.814	1	II							
31049.84	3219.698	10	I							
31050.48	3219.632	1	II							
31051.35	3219.542	300	II	8.5	7.5			1	31879-	828
31053.18	3219.353	1	II							
31053.46	3219.323	1	I							
31055.59	3219.103	0	I							
31058.13	3218.839	1	II							
31058.71	3218.779	3	II							
31058.99	3218.750	1								
31059.35	3218.712	0								
31060.14	3218.631	0								
31062.79	3218.357	1	I							
31063.94	3218.238	0								
31066.11	3218.017	1	II							
31067.32	3217.887	1	II							
31068.21	3217.794	0	II							
31068.62	3217.752	0								
31068.92	3217.721	1								
31070.08	3217.601	3	II							
31070.54	3217.554	30	II							
31072.24	3217.377	30	II					3		
31072.45	3217.355	10								
31074.43	3217.151	30	II	5.5	5.5			3	40945-	9870
31074.57	3217.136	10								
31076.83	3216.903	10	II							
31077.86	3216.795	1								
31078.46	3216.734	1	II							
31079.49	3216.627	3000	II					1		
31080.29	3216.544	300	II					2		
31081.86	3216.384	1	II							
31082.77	3216.288	1								
31083.26	3216.237	10	II							
31083.41	3216.221	1								
31084.05	3216.155	1								
31085.10	3216.046	10	I							
31085.33	3216.023	1								
31085.77	3215.977	100	II					2		
31086.79	3215.872	1								
31091.03	3215.433	3								
31091.49	3215.385	3								
31093.35	3215.193	3000	II					3		
31095.55	3214.965	10	II							
31096.52	3214.865	1	II							
31097.33	3214.781	100	II							

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEAMAN DATA		LEVELS			
				J-C	J-E	G-C	G-E	TYPE	GCC-EVEN
31098.07	3214.705	0	II						
31098.77	3214.633	300	II					1	
31099.72	3214.534	3							
31100.75	3214.428	1	II						
31103.81	3214.112	0	II						
31105.55	3213.932	1	II						
31106.56	3213.828	1							
31106.76	3224.172	0	I						
31107.28	3213.753	30	II						
31107.73	3213.706	100	I						
31108.51	3213.626	3	II						
31108.89	3213.587	10	II	4.5	4.5				40541- 9432
31110.39	3213.432	1 W	II						
31111.80	3213.287	1							
31112.59	3213.205	10	II						
31112.90	3213.173	10	II						
31114.03	3213.056	1							
31116.35	3212.816	1 G							
31117.64	3212.683	100	II					4	
31118.68	3212.576	0							
31119.16	3212.527	10	I						
31119.65	3212.476	10	II						
31119.96	3212.443	100	II					1	
31120.88	3212.349	3	II						
31122.12	3212.224	3	II						
31122.99	3212.131	10	II						
31123.82	3212.045	300	II					2	
31125.40	3211.883	3	I						
31126.10	3211.810	1	II						
31127.41	3211.674	1							
31129.31	3211.479	1							
31130.05	3211.402	1	I						
31130.88	3211.317	1	I						
31132.32	3211.169	100	I	7.0	8.0			A	31132- 0
31132.68	3211.132	100	I					3	
31133.76	3211.020	3	II	3.5	3.5				42087-10953
31134.47	3210.947	0 G							
31134.97	3210.894	1	II						
31135.60	3210.830	1							
31136.63	3210.724	10	II						
31138.10	3210.572	0							
31139.28	3210.450	0 G							
31139.97	3210.379	3	I						
31140.42	3210.333	30						3	
31140.94	3210.279	1	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
31141.63	3210.209	0								
31143.01	3210.066	3	II							
31143.35	3210.031	1	I							
31143.71	3209.994	1	Q							
31144.47	3209.916	0	II							
31145.40	3209.819	10	II							
31146.24	3209.733	10	II							
31147.81	3209.571	10	I							
31148.20	3209.531	0								
31149.10	3209.438	3	II							
31149.90	3209.356	3	I							
31150.59	3209.284	100	II	6.5	7.5			1	31978-	828
31151.06	3209.237	3	II							
31153.03	3209.033	1	I							
31154.00	3208.934	1	II							
31154.84	3208.847	300	II	8.5	7.5			4	35495-	4341
31155.17	3208.813	300	II					3		
31156.43	3208.683	10	I							
31158.13	3208.508	1	II							
31158.50	3208.470	0								
31160.04	3208.312	30	II					4		
31161.05	3208.207	0								
31161.73	3208.137	1	II							
31163.26	3207.980	0	Q							
31163.78	3207.926	10	I							
31165.26	3207.774	3	II							
31165.96	3207.702	1								
31167.22	3207.572	0	II							
31167.60	3207.533	1	II							
31168.76	3207.414	30	II							
31169.48	3207.340	30	II							
31170.76	3207.208	3	II							
31171.59	3207.123	300	II					1		
31172.03	3207.078	30	I	8.0	7.0				7565-	38737
31173.87	3206.888	1	I							
31175.23	3206.748	3	II							
31176.26	3206.642	100	II					3		
31178.15	3206.448	10	II							
31178.57	3206.405	300	II					3		
31180.00	3206.258	1	II							
31182.30	3206.021	0								
31182.81	3205.969	0								
31183.48	3205.900	1	II							
31185.45	3205.697	0								
31185.65	3205.677	1	II							

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
31187.15	3205.522	30	II						
31187.77	3205.459	100	II					2	
31189.88	3205.242	1	II						
31191.04	3205.123	1	II						
31191.79	3205.045	0							
31192.78	3204.944	30	II					3	
31193.60	3204.860	1	II						
31194.73	3204.743	0	II						
31196.54	3204.558	1	II						
31197.52	3204.457	1	I						
31198.49	3204.357	100	II					3	
31199.05	3204.299	10 W	I						
31199.50	3204.245	30	II					A	
31200.93	3204.106	1	I	7.0	6.0				38251- 7050
31201.28	3204.071	10	II						
31202.14	3203.982	3	II						
31202.72	3203.923	1	II						
31203.51	3203.842	30	II						
31203.85	3203.807	10	II						
31204.69	3203.721	0 Q							
31206.03	3203.584	3	II						
31207.16	3203.467	1	II						
31207.57	3203.425	0	II						
31208.41	3203.339	0							
31208.64	3203.315	1	I						
31209.61	3203.216	3	II						
31210.59	3203.115	1							
31211.77	3202.993	3 W	I						
31212.58	3202.911	1							
31213.20	3202.848	10	II						
31213.83	3202.782	1	I						
31214.95	3202.667	3	I						
31215.64	3202.597	30	II					1	
31216.62	3202.496	3	II						
31219.05	3202.247	3							
31219.33	3202.218	300 W	I	9.0	9.0			3	999C-41210
31220.64	3202.084	1	I						
31221.64	3201.981	3 W	I						
31222.07	3201.937	10	I						
31224.77	3201.660	100	II						
31225.06	3201.631	10	II						
31225.74	3201.561	3	II						
31226.96	3201.435	1	II						
31228.02	3201.327	3	II						
31228.28	3201.301	10	II						

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
31228.49	3201.279	3	II							
31229.29	3201.197	10	I	7.0	8.0				31229-	0
31231.93	3200.926	10	II							
31233.93	3200.721	3	II							
31234.81	3200.632	1	II							
31235.90	3200.520	1	W							
31236.79	3200.429	1								
31237.84	3200.321	100	W I						A	
31238.89	3200.213	1	II							
31239.57	3200.143	1	II							
31240.97	3200.000	30	I							
31245.00	3199.587	300	I						3	
31246.99	3199.383	3	W I							
31248.30	3199.250	30	II	6.5	6.5				36003-	4755
31248.46	3199.233	10	II							
31248.96	3199.181	3	II							
31249.65	3199.111	3	II							
31250.22	3199.053	1								
31251.05	3198.968	1	II	8.5	7.5				32079-	828
31251.34	3198.938	1	II							
31252.29	3198.841	3								
31252.81	3198.787	10	II							
31253.57	3198.710	3	W							
31255.34	3198.529	1								
31255.87	3198.475	1								
31258.35	3198.221	1	W II							
31259.06	3198.148	30	I						A	
31259.78	3198.074	0	II							
31260.62	3197.988	0	W							
31260.83	3197.967	1	II							
31262.11	3197.836	0								
31262.72	3197.774	1								
31263.33	3197.711	1	II							
31264.46	3197.595	30	II						1	
31265.70	3197.469	0								
31268.09	3197.225	1	W I							
31269.63	3197.067	3	II							
31270.99	3196.928	1								
31271.98	3196.827	1								
31272.67	3196.756	1								
31273.79	3196.642	1		6.5	6.5				38758-	7485
31275.44	3196.473	1	II							
31275.87	3196.429	10	W II							
31276.57	3196.357	1	II							
31277.34	3196.279	10	I							

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS CCC-EVEN
				J-C	J-E	G-C G-E TYPE	
31278.91	3196.119	0					
31279.86	3196.022	1					
31280.45	3195.961	3	II				
31280.90	3195.915	1					
31281.19	3195.886	3	II				
31281.65	3195.838	1					
31282.68	3195.733	1 W	I				
31283.82	3195.616	1					
31284.82	3195.514	1	II				
31285.44	3195.452	3	I				
31286.28	3195.365	3					
31288.51	3195.137	0					
31289.45	3195.042	0					
31290.68	3194.916	1	I				
31291.83	3194.799	10	II				
31293.99	3194.578	1	I				
31295.02	3194.473	1		6.5	5.5		38758- 7463
31295.29	3194.445	3	II				
31295.94	3194.379	10	I				
31296.53	3194.319	0	II				
31296.80	3194.291	0					
31297.66	3194.203	0					
31298.68	3194.099	1	II				
31300.25	3193.939	1					
31300.95	3193.867	30	II				
31301.82	3193.779	1	II				
31302.64	3193.695	10	II				
31303.00	3193.659	3	II				
31303.41	3193.617	3 W	I				
31304.39	3193.517	1	I	8.0	8.0		7565-38870
31305.05	3193.450	1	II				
31306.48	3193.304	1000	II	7.5	8.5	2	31306- 0
31309.73	3192.972	100	II			1	
31310.58	3192.886	0					
31312.03	3192.738	10	I	7.0	6.0		38362- 7050
31312.45	3192.695	0	II				
31315.06	3192.428	1 W	I				
31315.40	3192.394	1	II				
31315.78	3192.356	3	I				
31316.74	3192.257	10	II				
31317.08	3192.222	3	II				
31317.90	3192.139	10	I				
31318.93	3192.035	100	II	7.5	6.5		38804- 7485
31320.27	3191.898	3	II				
31321.61	3191.761	3					

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
31322.10	3191.711	0								
31322.73	3191.647	3	II							
31323.57	3191.561	3	II							
31324.31	3191.486	10	II							
31325.22	3191.393	1	II							
31326.61	3191.251	10	II							
31330.59	3190.846	30	I							
31331.58	3190.745	0	II							
31332.46	3190.656	10	II							
31335.19	3190.377	1	II							
31337.14	3190.180	30	II							
31337.84	3190.108	3	II							
31338.07	3190.085	1								
31338.53	3190.038	30 w	I							
31340.83	3189.803	30	II							
31341.44	3189.742	1								
31343.25	3189.558	0 w								
31345.10	3189.369	3	II							
31345.45	3189.333	1	II							
31346.77	3189.200	30	II							
31347.34	3189.141	1	I							
31348.07	3189.067	30	II							
31348.75	3188.998	10	II							
31349.53	3188.919	0								
31349.98	3188.974	3	I							
31350.34	3188.876	1								
31351.36	3188.732	3	I							
31352.01	3188.666	100	II						3	
31352.88	3188.578	3	I							
31353.30	3188.535	1	II							
31354.90	3188.372	10	II							
31356.30	3188.230	1 w								
31361.71	3187.680	300	II						3	
31362.40	3187.610	1 w								
31363.19	3187.530	10	I							
31363.64	3187.484	3	II							
31365.38	3187.307	3 w								
31365.98	3187.246	100	II						3	
31366.35	3187.209	1	II							
31367.42	3187.100	1	II							
31367.66	3187.076	3	I							
31369.09	3186.929	3	II							
31369.50	3186.889	1	II							
31369.75	3186.863	3	I							
31370.35	3186.802	3	II							

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA		LEVELS	
				J-C	J-E	G-C	G-E
31370.69	3186.768	1	I	7.0	6.0		38421- 7050
31371.05	3186.731	3	I				
31371.25	3186.710	3	II				
31372.18	3186.616	10	II	8.5	7.5		322CC- 828
31374.53	3186.377	300	II				3
31375.05	3186.325	3	I				
31375.72	3186.256	30	I				
31376.21	3186.206	1	Q				
31376.27	3186.200	3	w				
31378.57	3185.967	10	II				
31381.29	3185.691	0					
31381.74	3185.645	10	I				
31382.28	3185.591	1	I				
31382.94	3185.523	3	II				
31383.53	3185.464	3	II				
31384.11	3185.405	3	w	I			
31386.01	3185.212	1					
31388.42	3184.967	30	I				
31390.19	3184.787	1000	II	6.5	7.5		2 32218- 828
31390.51	3184.755	30	II				
31391.25	3184.680	3	w	II			
31392.04	3184.600	100	I				
31392.51	3184.552	100	II				4
31393.15	3184.487	1					
31394.68	3184.333	1					
31395.28	3184.271	30	II				
31395.39	3184.260	10					
31395.90	3184.209	3					
31396.08	3184.190	30	II				
31396.62	3184.135	3	II				
31397.22	3184.075	1	I				
31397.83	3184.012	1					
31398.49	3183.946	10	II				
31399.24	3183.869	3	II				
31400.69	3183.722	1	II				
31402.27	3183.563	1	II				
31402.64	3183.525	1	II				
31403.77	3183.410	1	I				
31404.37	3183.349	3	II				
31405.90	3183.195	100	II				3
31407.82	3183.000	30	w	I	8.0	8.0	7565-38973
31409.38	3182.842	1	II				
31410.93	3182.685	3	II				
31412.94	3182.481	10	II				
31413.94	3182.379	1					

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	CCC-EVEN	
31414.56	3182.318	C								
31418.29	3181.939	1000	II					4		
31421.29	3181.636	3C	II							
31421.57	3181.607	3								
31422.00	3181.563	3C Q								
31422.43	3181.520	3	I							
31423.04	3181.458	10	I	7.C	8.0				31423-	0
31424.49	3181.311	1								
31425.56	3181.203	C								
31426.69	3181.089	3C	II							
31427.26	3181.030	1								
31428.05	3180.951	0								
31428.59	3180.896	1	II							
31428.93	3180.862	1								
31429.94	3180.759	1								
31430.60	3180.692	30	II							
31432.21	3180.530	1	II							
31433.91	3180.358	10	II							
31434.74	3180.274	3	II							
31436.05	3180.141	1								
31436.99	3180.046	3	I							
31438.78	3179.865	10	I							
31440.52	3179.689	1	II							
31442.55	3179.484	30								
31443.31	3179.407	0								
31444.87	3179.249	C								
31445.96	3179.139	30	II							
31446.49	3179.085	3	II							
31447.04	3179.030	100	II					3		
31447.34	3178.999	3								
31447.77	3178.956	1								
31448.40	3178.893	1	II							
31449.17	3178.815	1								
31450.83	3178.647	1								
31451.43	3178.587	10	II							
31451.64	3178.565	1	I							
31452.40	3178.488	30	I							
31452.81	3178.447	3	II							
31453.53	3178.374	1000	II	8.5	7.5			4	32281-	828
31454.38	3178.288	3	II							
31455.34	3178.192	3	II							
31456.11	3178.113	3	I							
31457.62	3177.960	10								
31458.06	3177.916	100	II					3		
31458.34	3177.888	300	II					1		

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	GCC-EVEN
31459.32	3177.789	30	II						A
31460.89	3177.631	3	I						
31461.69	3177.549	10	II						
31461.96	3177.522	30	II						3
31462.58	3177.459	0							
31465.02	3177.213	3	II						
31465.41	3177.174	1	II						
31466.84	3177.029	1	II						
31467.16	3176.997	1							
31467.92	3176.921	1	II						
31468.63	3176.849	10	II						
31469.51	3176.760	0	II						
31470.02	3176.709	10	II						
31470.20	3176.690	1		8.C	9.0				7565-39035
31470.55	3176.655	3	II						
31471.03	3176.607	1	II						
31472.13	3176.496	10	II						
31472.46	3176.462	3	II						
31474.33	3176.274	1	II						
31474.58	3176.248	1	II						
31475.80	3176.125	3	II						
31476.03	3176.102	1	II						
31478.92	3175.810	10	I						
31480.C2	3175.699	1							
31481.45	3175.555	10	I						
31481.62	3175.538	3	II						
31482.17	3175.483	10	I						
31483.42	3175.356	1	II						
31484.76	3175.221	1	I						
31486.C4	3175.092	10	II						
31487.C1	3174.995	10	I						
31487.50	3174.945	1	II						
31488.11	3174.883	100	II						4
31489.43	3174.750	1	II						
31489.84	3174.709	0	II						
31490.48	3174.644	C							
31492.97	3174.393	3	II						
31494.C5	3174.284	10	II						
31496.C4	3174.084	1	I						
31496.70	3174.017	10	II						
31497.32	3173.955	1	I						
31498.16	3173.871	0							
31500.42	3173.643	10	I						
31500.83	3173.601	3	I						
31501.49	3173.535	1							

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
31503.16	3173.366	3	II							
31504.05	3173.277	1	II							
31506.63	3173.017	10	II							
31508.72	3172.806	3	II	4.5	5.5			38972-	7463	
31508.97	3172.781	10	I	5.5	6.5			36264-	4755	
31509.84	3172.693	30	II							
31511.35	3172.542	1	II							
31512.50	3172.426	100	I							
31513.34	3172.342	10	II	5.5	4.5			40045	0432	
31514.82	3172.192	10	II							
31515.88	3172.086	10	II							
31517.96	3171.876	1	II							
31518.85	3171.786	3	II							
31519.55	3171.716	3	I							
31520.28	3171.643	3	I							
31521.24	3171.546	3								
31521.81	3171.489	3								
31521.99	3171.471	100	II							
31523.85	3171.284	1								
31524.92	3171.176	3	II							
31526.03	3171.064	C								
31526.37	3171.030	3	II							
31526.96	3170.971	300	II	6.5	6.5			36282-	4755	
31528.07	3170.859	10	II							
31529.16	3170.750	300	II							
31530.46	3170.619	3	I	8.0	8.0			7565-	30006	
31531.32	3170.532	1	II							
31531.83	3170.481	10	II							
31532.16	3170.448	1								
31532.95	3170.369	10	I							
31533.47	3170.316	1	II							
31534.18	3170.244	10	II							
31534.88	3170.174	1	Q							
31535.23	3170.139	1								
31535.60	3170.102	100	II							
31536.67	3169.994	3000 R	II	9.5	8.5	1.26	1.29	1	31536-	0
31538.08	3169.852	3	II							
31538.64	3169.797	C	II							
31539.93	3169.667	3	II							
31541.01	3169.558	100	II							
31542.05	3169.454	1	II							
31542.31	3169.428	1	II							
31543.03	3169.356	10	I							
31543.41	3169.317	1								
31544.15	3169.243	1	II							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
31545.03	3169.154	10	W	II					
31545.53	3169.104	1		II					
31547.02	3168.954	300	R	I	8.0	8.0	3	31547- 0	
31547.90	3168.867	1							
31548.61	3168.795	1							
31550.18	3168.637	10		II					
31554.57	3168.196	100	I	5.0	4.0		A	42479-10925	
31555.02	3168.151	300		II			A		
31556.07	3168.045	3		II					
31556.87	3167.965	10		II					
31557.42	3167.910	1							
31558.02	3167.850	100		II			2		
31558.86	3167.765	10		II					
31559.34	3167.717	3		II					
31560.44	3167.607	1							
31561.79	3167.471	100		II			4		
31562.52	3167.398	30		II					
31563.14	3167.336	1							
31563.68	3167.282	3		II					
31564.53	3167.197	1		II					
31566.45	3167.004	0							
31568.16	3166.832	3		II					
31570.21	3166.626	3		I					
31571.44	3166.503	3		I					
31571.82	3166.465	3		II					
31573.42	3166.304	30		II					
31574.93	3166.154	1		II					
31575.75	3166.071	3		I					
31577.13	3165.933	3		I					
31578.10	3165.836	10		II					
31578.41	3165.805	3		II					
31579.24	3165.721	1							
31579.57	3165.688	1							
31580.28	3165.617	300		I			2		
31581.20	3165.525	0							
31582.14	3165.430	3		II					
31582.39	3165.405	3							
31583.80	3165.264	1							
31584.80	3165.163	10		II					
31585.86	3165.057	0							
31586.82	3164.962	10		II					
31587.27	3164.917	30		II					
31588.41	3164.802	0							
31590.06	3164.637	1							
31590.31	3164.612	1		II					

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
31591.79	3164.464	1							
31592.69	3164.374	C							
31594.60	3164.182	3							
31595.08	3164.134	30C	II	5.5	6.5			1	3635C- 4755
31596.01	3164.041	3C W	II					A	
31597.44	3163.898	1	II						
31601.42	3163.499	3	II						
31601.84	3163.457	1	II						
31602.69	3163.371	1	II						
31603.21	3163.320	30	II						
31605.34	3163.107	1	II						
31605.95	3163.045	C							
31606.80	3162.961	3	II						
31607.69	3162.873	3							
31608.07	3162.833	300C	II					3	
31609.67	3162.673	1	I						
31610.96	3162.544	1	II						
31611.23	3162.517	3	II						
31611.80	3162.460	3	I						
31613.15	3162.325	1	II						
31615.14	3162.126	1	II						
31618.09	3161.831	1 W							
31618.80	3161.761	C	II						
31621.51	3161.490	C	II						
31622.20	3161.420	3	II						
31622.75	3161.366	3	II						
31623.26	3161.314	3	II						
31625.40	3161.100	1	II						
31626.10	3161.031	300	II					4	
31626.67	3160.974	1	II						
31626.94	3160.946	1							
31627.89	3160.852	0							
31629.32	3160.708	3	II						
31629.94	3160.646	3	II						
31630.55	3160.586	3	II						
31630.95	3160.546	1							
31631.37	3160.503	30C	II	6.5	6.5			3	3638E- 4755
31632.08	3160.433	1							
31632.73	3160.368	1							
31633.69	3160.272	1							
31636.26	3160.015	10 W	I						
31636.79	3159.962	0	II						
31638.92	3159.750	3	II						
31639.17	3159.724	1	I						
31640.09	3159.633	1 W	II						

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WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA				LEVELS ODD-EVEN
				J-C	J-E	G-C	G-E	
31641.61	3159.481	1	II					
31642.15	3159.427	10	II					
31642.54	3159.389	1	II					
31643.38	3159.304	3	II					
31643.53	3159.289	30	I					
31644.29	3159.213	0						
31647.57	3158.886	100	I					
31648.13	3158.830	3						
31649.11	3158.732	10	II					
31649.96	3158.647	3	II					
31652.03	3158.440	1	II					
31652.22	3158.422	10	II					
31652.55	3158.389	3	I					
31653.45	3158.249	30	II					
31654.79	3158.166	1 W	I					
31655.36	3158.109	3	II					
31655.83	3158.061	1						
31656.68	3157.976	30	II					
31657.36	3157.909	1	II					
31657.54	3157.891	0						
31658.46	3157.799	0						
31660.34	3157.611	0						
31660.94	3157.551	100	II					1
31662.28	3157.418	1	II					
31663.38	3157.308	1	II					
31664.41	3157.206	10	II					
31664.62	3157.185	3						
31668.33	3156.815	0	II	8.5	7.5			32496- 828
31668.70	3156.778	1	II					
31669.41	3156.708	1	II					
31669.83	3156.665	1	II					
31671.27	3156.522	3000	II					1
31673.44	3156.305	0						
31674.46	3156.204	1	II					
31674.69	3156.181	1	II					
31674.91	3156.159	1	II					
31675.24	3156.126	1						
31675.62	3156.088	1	II					
31676.21	3156.030	0						
31676.63	3155.987	1						
31677.89	3155.863	3	II					
31682.73	3155.380	3	II					
31683.12	3155.341	0						
31684.33	3155.220	0 W						
31688.09	3154.846	10	I					

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-O	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
31688.23	3154.832	1	II						
31689.29	3154.727	1	II						
31689.97	3154.659	10	II	5.5	6.5				39175- 7485
31690.18	3154.639	1	Q						
31690.53	3154.604	1	Q						
31691.31	3154.526	10	II						
31691.99	3154.458	1	W	I					
31693.60	3154.298	3	II						
31695.41	3154.117	3	I						
31695.91	3154.068	10	II						
31696.47	3154.012	1	II						
31697.11	3153.948	1	I						
31698.33	3153.827	300	R	I	7.0	8.0		1	31698- 0
31702.28	3153.434	1	II						
31702.69	3153.393	1	II						
31703.51	3153.312	100	II					1	
31704.33	3153.230	1	II						
31706.08	3153.056	3	I						
31706.29	3153.036	1							
31708.14	3152.852	3	II						
31710.30	3152.637	0							
31711.18	3152.549	3	II	5.5	5.5				39175- 7463
31711.93	3152.474	0	II						
31712.94	3152.374	300	II					2	
31714.46	3152.223	100	II						
31715.39	3152.130	1	II						
31717.81	3151.890	300	II					1	
31719.68	3151.704	1							
31720.44	3151.629	0							
31720.91	3151.582	1	II						
31721.46	3151.527	30	I					3	
31721.63	3151.511	10							
31723.32	3151.343	1							
31723.65	3151.310	3	II						
31724.40	3151.235	3	II						
31724.80	3151.195	1	II						
31725.76	3151.100	0							
31726.58	3151.018	1		7.0	7.0				8519-40245
31727.35	3150.943	3	B	I					
31727.48	3150.929	1	B	II					
31729.14	3150.764	10	I	7.0	6.0				38775- 7050
31729.39	3150.739	3	II						
31730.16	3150.663	30	I					3	
31730.45	3150.634	10	II						
31731.90	3150.490	10							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA		TYPE	LEVELS	
						G-C	G-E		CCC-EVEN	
31732.11	3150.470	10	II							
31735.10	3150.173	100	II					4		
31737.12	3149.972	1								
31738.13	3149.872	30	II					4		
31741.61	3149.527	3	II							
31741.91	3149.496	1	II							
31743.43	3149.347	1								
31744.13	3149.277	10	II							
31745.33	3149.157	1	II							
31745.92	3149.099	1								
31746.16	3149.075	30	II							
31746.81	3149.011	1	I							
31747.88	3148.904	3	I							
31750.07	3148.688	1	II	7.5	7.5				32578-	828
31752.07	3148.489	1								
31753.49	3148.348	1								
31755.35	3148.164	1	II							
31755.97	3148.102	1	I							
31756.46	3148.053	0								
31757.73	3147.927	1	Q							
31758.03	3147.898	3								
31758.50	3147.852	3	II							
31760.09	3147.694	300 R	I	8.0	7.0			2	35894-	4134
31761.73	3147.531	100	II					1		
31762.15	3147.490	1								
31763.19	3147.387	10	II	6.5	7.5				32591-	828
31764.33	3147.274	3								
31765.03	3147.205	1	II							
31765.65	3147.144	0								
31766.32	3147.076	1								
31767.40	3146.970	30	II					2		
31768.26	3146.885	10	II							
31768.87	3146.824	1								
31771.70	3146.544	10	II							
31772.22	3146.492	1								
31772.87	3146.428	0	II							
31774.25	3146.291	1	II							
31774.90	3146.227	1								
31775.58	3146.159	300	II					4		
31775.97	3146.120	3								
31779.23	3145.798	10	I							
31779.98	3145.723	1	II							
31781.93	3145.531	1	II							
31782.53	3145.471	10	I							
31784.49	3145.277	1	II							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
31890.93	3134.779	1								
31893.46	3134.530	1	II							
31893.76	3134.501	1								
31894.04	3134.474	1	W II							
31895.66	3134.314	1	II							
31895.99	3134.282	3	II							
31897.64	3134.120	1	II							
31898.85	3134.001	1	II							
31899.34	3133.953	3	I							
31900.74	3133.815	1000	R I	9.0	8.0	1.24	1.24	4	31900-	0
31903.37	3133.557	3	II							
31903.96	3133.499	1	II							
31904.58	3133.438	1								
31905.72	3133.326	1								
31906.56	3133.243	3	I							
31907.78	3133.124	10	II							
31908.77	3133.027	100	II					3		
31910.04	3132.902	0								
31911.68	3132.741	1	II							
31912.48	3132.663	10	II							
31913.11	3132.601	3	II							
31913.54	3132.559	3	II							
31913.80	3132.533	1								
31914.80	3132.434	1								
31915.71	3132.345	3	I							
31918.00	3132.121	100	II					A		
31920.92	3131.834	3	W II							
31921.42	3131.785	3	I							
31923.53	3131.578	1	II							
31923.98	3131.534	10	II	3.5	4.5				41356-	9432
31924.66	3131.467	3	II							
31925.36	3131.398	1								
31927.34	3131.204	10	II							
31931.16	3130.830	3	II	5.5	6.5				39416-	7485
31931.94	3130.753	1	II							
31933.52	3130.598	0								
31933.90	3130.561	10	II							
31934.71	3130.482	3	II							
31935.46	3130.408	1	II	3.5	4.5				41367-	9432
31936.16	3130.339	1	II							
31938.06	3130.154	100	II	6.5	7.5			4	36279-	4341
31938.86	3130.075	1								
31940.39	3129.925	3	I							
31941.54	3129.813	1	II	6.5	7.5				36282-	4341
31942.02	3129.764	3	II							

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-G	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
31942.30	3129.738	1								
31945.96	3129.379	0	I							
31946.74	3129.302	300 R	I	7.0	8.0			4	31946-	0
31949.35	3129.047	1								
31950.02	3128.981	3	I							
31951.27	3128.859	10	I							
31952.31	3128.757	30	II	5.5	5.5			2	39416-	7463
31952.90	3128.699	1								
31954.91	3128.502	10	I							
31955.32	3128.462	30								
31955.89	3128.406	3000	II					2		
31958.32	3128.169	1	II							
31958.68	3128.133	3	II							
31959.55	3128.049	C Q								
31960.32	3127.973	1								
31962.24	3127.785	0								
31963.38	3127.673	0								
31964.00	3127.613	30	II					2		
31965.41	3127.475	30	II					4		
31965.95	3127.423	3								
31966.64	3127.355	1								
31967.62	3127.259	1	II							
31968.90	3127.133	1								
31969.17	3127.107	3 W	II							
31972.30	3126.801	30	II					1		
31973.19	3126.714	10	I							
31973.98	3126.637	1	II							
31975.17	3126.520	1	II							
31975.67	3126.472	1	II							
31976.47	3126.393	1								
31976.79	3126.362	3	II							
31977.12	3126.329	1	I							
31978.24	3126.220	3								
31978.49	3126.196	300	II					1		
31979.33	3126.113	1								
31979.76	3126.072	10	II							
31980.49	3126.000	0								
31980.91	3125.959	1	II							
31981.68	3125.884	1 W	II							
31983.04	3125.751	1								
31985.39	3125.521	0								
31987.99	3125.267	3	I							
31989.67	3125.103	C								
31991.39	3124.935	1	II							
31991.79	3124.896	10	II							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA		LEVELS ODD-EVEN
						G-C	G-E	
32040.94	3120.103	3	W	I				
32041.82	3120.016	3		I				
32043.26	3119.876	1		I				
32043.59	3119.844	1		II				
32044.19	3119.786	3		II				
32045.33	3119.675	1						
32045.97	3119.613	10		II	6.5	7.5		36387- 4341
32046.18	3119.592	1		I				
32046.97	3119.515	1		II				
32047.64	3119.450	3		II				
32047.89	3119.426	1		II				
32049.04	3119.314	1						
32052.30	3118.997	1		II				
32052.64	3118.963	3		II				
32053.55	3118.875	3		II				
32054.97	3118.737	0						
32055.88	3118.648	3		II				
32056.70	3118.568	1		II				
32058.61	3118.382	3		II				
32060.36	3118.212	1		II				
32061.26	3118.125	1		II				
32061.76	3118.076	1		I				
32062.69	3117.986	30		II				
32062.95	3117.960	3						
32063.38	3117.919	1		II				
32063.72	3117.885	3		II				
32066.65	3117.600	0						
32067.16	3117.551	3		II				
32067.64	3117.504	100		II				
32068.48	3117.423	10		II				
32068.71	3117.400	3		II				
32070.05	3117.270	3		I				
32071.68	3117.111	1						
32072.16	3117.065	1						
32074.20	3116.867	30		II				
32074.99	3116.790	1						
32076.87	3116.607	0						
32077.96	3116.501	1		II				
32078.27	3116.471	1						
32078.74	3116.426	1		II				
32079.39	3116.363	1		II	8.5	8.5		32079- 0
32079.39	3116.363	1		II				
32081.71	3116.137	1	W	I				
32082.14	3116.095	0	W					
32083.00	3116.012	3		II				

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	CCC-EVEN	
32083.94	3115.921	10	II							
32084.57	3115.859	3	I							
32085.26	3115.792	30	II	5.5	5.5				39549-	7463
32085.96	3115.724	0	I							
32086.62	3115.660	10	II	6.5	7.5				32914-	828
32088.32	3115.495	1								
32092.03	3115.135	1	I							
32093.39	3115.003	C								
32095.37	3114.811	10	I							
32095.98	3114.752	1	II							
32098.39	3114.518	1								
32099.24	3114.435	1								
32099.91	3114.371	1	II							
32100.67	3114.297	10	I							
32101.42	3114.223	1	I							
32102.27	3114.141	0								
32103.41	3114.031	1	II							
32104.66	3113.909	1	II							
32105.07	3113.870	0								
32105.54	3113.824	1	II							
32106.14	3113.766	3	I							
32109.03	3113.486	1	II							
32109.48	3113.441	3	II							
32112.19	3113.179	3	I							
32112.96	3113.104	30	II					3		
32113.44	3113.058	1	I							
32114.56	3112.950	3	II							
32115.14	3112.893	1								
32115.39	3112.870	30	II					4		
32116.33	3112.778	3	I							
32117.22	3112.692	1								
32118.08	3112.608	1								
32120.13	3112.410	1	I							
32121.09	3112.317	C								
32122.26	3112.204	3	II							
32123.40	3112.093	30	I							
32123.53	3112.080	3	II							
32124.52	3111.984	1								
32125.87	3111.854	3	II							
32126.59	3111.784	3	II							
32126.93	3111.751	1	II							
32129.06	3111.544	30	II	6.5	6.5			3	36884-	4755
32129.83	3111.470	1								
32130.72	3111.384	1								
32132.02	3111.258	10	I							

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
32132.81	3111.182	1	II						
32133.31	3111.133	1	II						
32134.71	3110.997	C	I						
32135.23	3110.947	3	II						
32136.05	3110.868	1	II						
32136.42	3110.832	1 Q							
32137.32	3110.745	100	II					3	
32137.63	3110.715	30	I	6.C	6.0			3	39188- 7050
32140.80	3110.408	C							
32141.11	3110.378	C							
32141.76	3110.315	10	II						
32142.63	3110.231	C							
32143.07	3110.188	1 Q							
32144.92	3110.009	1	II						
32145.84	3109.920	0	II						
32146.40	3109.866	3	II						
32147.50	3109.760	1000	II					3	
32150.22	3109.496	3	II						
32151.01	3109.420	1							
32151.52	3109.371	1							
32152.30	3109.295	10	II						
32153.34	3109.195	10	II						
32154.27	3109.105	1	I						
32155.65	3108.971	1	II						
32156.41	3108.898	C							
32157.07	3108.834	0							
32157.56	3108.787	1	II						
32161.46	3108.410	1	II						
32162.21	3108.338	1							
32163.20	3108.241	1	II						
32166.92	3107.882	1							
32172.91	3107.304	1	II						
32174.27	3107.172	1	I						
32175.63	3107.041	30	I						
32176.36	3106.970	30	II						A
32179.66	3106.652	0							
32180.00	3106.619	1	II						
32180.70	3106.551	1	I						
32181.67	3106.458	0							
32182.19	3106.407	3	I						
32184.61	3106.174	1	II						
32185.61	3106.077	0							
32185.94	3106.046	3	II						
32187.26	3105.918	3	I						
32189.73	3105.680	30	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
32191.77	3105.483	1								
32193.79	3105.288	C								
32194.57	3105.213	3	I							
32195.64	3105.110	1	W	I						
32196.86	3104.992	100	II					1		
32197.42	3104.938	1								
32198.46	3104.838	10	I							
32198.81	3104.804	1	II							
32199.87	3104.702	3	II							
32200.52	3104.639	1	W	II	8.5	8.5			32200-	0
32201.52	3104.542	3	I							
32201.94	3104.502	1	II							
32203.95	3104.308	0								
32204.48	3104.258	1								
32205.10	3104.197	0	II							
32205.33	3104.176	1								
32206.02	3104.109	100	II					4		
32208.69	3103.852	3	I							
32208.94	3103.828	300	II					1		
32210.32	3103.695	30	II							
32212.03	3103.530	10	I							
32212.84	3103.451	0	Q							
32213.75	3103.364	3	II							
32215.04	3103.240	1000	II	5.5	6.5			1	36970-	4755
32215.75	3103.171	0	W							
32216.31	3103.117	1	II							
32217.31	3103.021	1	II							
32219.76	3102.785	1	II							
32221.11	3102.655	C								
32223.75	3102.401	3								
32225.57	3102.226	30	II					2		
32225.87	3102.197	10	II							
32226.75	3102.112	10	II							
32228.62	3101.932	300	II					4		
32229.19	3101.878	100	II							
32230.93	3101.709	C	Q							
32234.34	3101.381	3	II							
32234.80	3101.337	1	II							
32236.15	3101.207	10	I							
32237.23	3101.103	1	I							
32239.19	3100.915	10	II							
32240.27	3100.811	0	II							
32240.59	3100.781	1	II							
32247.58	3100.108	3	II							
32249.66	3099.908	3	I							

TABLE

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	CCC-EVEN	
32250.15	3099.862	1								
32250.42	3099.835	10	I							
32250.98	3099.781	1								
32251.54	3099.727	0								
32254.43	3099.450	1	I							
32256.26	3099.274	0								
32257.03	3099.200	0								
32258.12	3099.095	1								
32260.18	3098.897	1	W	II						
32263.27	3098.601	1	II							
32263.63	3098.566	1	II							
32264.08	3098.523	10	II							
32265.78	3098.408	1	II							
32266.93	3098.250	1	II							
32269.14	3098.037	100	II					4		
32270.34	3097.922	1								
32270.94	3097.864	1								
32272.70	3097.696	1								
32273.12	3097.655	3	II							
32273.91	3097.579	10	II							
32274.70	3097.503	10	I							
32275.53	3097.423	0	W							
32277.04	3097.278	10	II							
32279.99	3096.995	10	I							
32281.00	3096.898	10	II							
32281.86	3096.816	30		8.5	8.5			3	32281-	0
32287.35	3096.290	10	II							
32289.75	3096.059	1								
32290.01	3096.035	0	II							
32291.05	3095.935	1								
32291.32	3095.909	1	I							
32292.06	3095.838	0								
32293.03	3095.745	100	II					3		
32294.03	3095.649	0	II							
32294.39	3095.615	10	II							
32296.79	3095.385	1	G							
32297.15	3095.349	1	II							
32299.12	3095.161	1	I							
32300.56	3095.024	30	II					3		
32302.94	3094.795	1	W	II						
32303.84	3094.709	10	II							
32305.35	3094.564	3	I							
32305.57	3094.543	3	II							
32305.98	3094.504	1	II							
32307.09	3094.398	3	I							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
32307.75	3094.334	3	I						
32308.26	3094.286	1							
32312.00	3093.927	3 W	II						
32313.10	3093.822	10C	II					3	
32314.06	3093.730	100	I	7.0	8.0			A	8519-40833
32315.49	3093.593	C	II						
32316.90	3093.458	10	II						
32317.90	3093.362	1	II						
32318.97	3093.260	0	II						
32320.63	3093.101	300	II	5.5	6.5			1	37076- 4755
32325.63	3092.623	3	II						
32327.88	3092.407	30	I	6.0	7.0			A	36462- 4134
32329.88	3092.216	10	II						
32330.40	3092.166	3	I						
32331.19	3092.091	1	II						
32331.81	3092.031	1							
32332.87	3091.930	100	I					4	
32333.38	3091.882	10	II						
32337.22	3091.514	C							
32337.71	3091.468	3	I						
32339.77	3091.271	0							
32340.05	3091.243	1	II						
32341.89	3091.068	1							
32343.94	3090.872	300	I					3	
32344.50	3090.818	100	I					4	
32345.47	3090.725	1							
32345.90	3090.685	10	I						
32347.53	3090.529	1	II						
32347.97	3090.487	1	II						
32348.22	3090.463	1 W	I						
32349.86	3090.306	3	II						
32351.10	3090.188	100	II					2	
32352.17	3090.085	10	I	7.0	8.0				8519-40871
32355.42	3089.775	10	II						
32356.62	3089.660	3	II						
32357.29	3089.597	30	II						
32358.37	3089.494	1	II						
32359.18	3089.416	10	II						
32360.41	3089.299	C	I						
32361.19	3089.224	3	I						
32362.60	3089.090	3	II						
32363.86	3088.970	3	II						
32364.86	3088.874	3	II						
32365.58	3088.805	3	I						
32369.08	3088.471	3	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS
				J-C	J-E	G-C G-E TYPE	CCC-EVEN
32369.70	3088.412	10	II				
32371.85	3088.206	10	II				
32372.45	3088.149	3	I				
32372.92	3088.105	3	II				
32376.81	3087.734	0		3.5	4.5		41808- 9432
32378.58	3087.564	30	II				
32379.15	3087.511	10	II				
32379.90	3087.439	3	II				
32382.51	3087.190	1					
32385.41	3086.913	0	II				
32386.19	3086.839	1	I				
32387.75	3086.691	0					
32388.42	3086.627	3	II				
32391.04	3086.378	10	II	4.5	5.5		39854- 7463
32392.25	3086.262	1	I				
32393.46	3086.147	1	II				
32393.76	3086.118	1	II				
32394.66	3086.033	0					
32395.12	3085.988	3	II				
32397.27	3085.783	10	II				
32397.67	3085.746	3	I				
32398.87	3085.631	1	II				
32399.45	3085.576	3	II				
32399.77	3085.545	10	I				
32401.78	3085.355	0	II				
32402.46	3085.289	3	II				
32404.28	3085.116	3	II				
32404.74	3085.072	3	II				
32405.63	3084.988	1	II				
32406.44	3084.911	0	II				
32407.04	3084.854	3	II				
32408.81	3084.684	30	II				
32409.27	3084.641	10	II				
32410.17	3084.556	1					
32411.09	3084.468	10	II				
32411.75	3084.405	0					
32412.50	3084.334	3	I				
32413.19	3084.268	1	II				
32415.02	3084.094	0					
32418.82	3083.732	10	II				
32419.86	3083.634	0					
32420.67	3083.557	10	II				
32421.86	3083.443	10	II				
32422.68	3083.365	1					
32423.47	3083.290	3	II				

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	CCC-EVEN	
32424.38	3083.203	C	Q							
32429.12	3082.753	1								
32429.69	3082.699	3	II							
32430.73	3082.599	1								
32431.68	3082.510	300	II	5.5	6.5			1	37187-	4755
32432.32	3082.448	3		7.5	6.5				37188-	4755
32434.87	3082.207	1	II							
32437.19	3081.986	1								
32437.98	3081.911	3	II							
32439.05	3081.809	C								
32439.55	3081.761	0								
32440.30	3081.690	1	II							
32441.77	3081.551	C	II							
32442.22	3081.508	1								
32444.40	3081.301	1	II							
32445.94	3081.155	3	II							
32447.25	3081.030	1								
32448.43	3080.918	100	II					3		
32450.96	3080.678	1								
32452.25	3080.556	1	I							
32453.69	3080.419	3	II							
32455.13	3080.282	30	II							
32455.63	3080.235	1								
32456.10	3080.190	0								
32458.04	3080.006	10	II							
32460.51	3079.771	0								
32461.06	3079.720	0	II							
32462.68	3079.566	1	II							
32464.84	3079.361	30	II							
32465.18	3079.329	100	II					1		
32465.94	3079.256	1								
32466.40	3079.213	3	I							
32469.99	3078.872	1	II							
32472.00	3078.682	1000	II					3		
32473.88	3078.504	3	II							
32475.71	3078.330	100	II					1		
32476.61	3078.245	C	I							
32477.01	3078.207	3	W	I						
32479.32	3077.988	1	II							
32481.37	3077.793	1	II							
32482.18	3077.717	1	I							
32482.63	3077.674	1	I							
32484.06	3077.538	1	I							
32485.86	3077.368	1	II							
32486.74	3077.285	3	II							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
32487.89	3077.176	0	II							
32489.20	3077.052	3	II							
32490.93	3076.888	100	II	6.5	7.5			4	33319-	828
32494.53	3076.547	1								
32496.42	3076.368	1								
32496.68	3076.344	3	II	8.5	8.5				32496-	0
32501.43	3075.894	10	II							
32504.49	3075.605	1								
32505.60	3075.500	10	II							
32505.76	3075.484	10	II							
32507.74	3075.297	3	I							
32508.14	3075.260	3	II							
32509.00	3075.178	10	II							
32510.10	3075.074	10	II							
32510.40	3075.046	3	II							
32510.58	3075.028	1	II							
32512.19	3074.876	1	II							
32512.38	3074.858	1	W I							
32514.09	3074.696	0								
32516.23	3074.494	1	II							
32517.32	3074.391	1	II							
32518.04	3074.323	3	I							
32519.79	3074.157	3	II							
32520.45	3074.095	1	II							
32521.19	3074.025	3								
32521.47	3073.999	10	II							
32522.03	3073.946	3	II							
32526.34	3073.539	300	II					1		
32529.18	3073.270	10	W I							
32530.42	3073.153	0	II							
32530.98	3073.100	10	II							
32531.68	3073.034	1	W II							
32532.93	3072.916	30	II					1		
32533.86	3072.827	3	I							
32534.84	3072.735	10	II							
32536.15	3072.612	1	I							
32536.96	3072.535	0	II							
32538.21	3072.417	1	II							
32538.60	3072.380	3	II							
32539.47	3072.298	0								
32540.88	3072.165	0								
32542.51	3072.011	1								
32543.60	3071.908	1000	II	6.5	7.5			1	36884-	4341
32545.28	3071.750	1	I							
32546.68	3071.618	1	II	6.5	7.5				36887-	4341

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEAMAN DATA			LEVELS	
				J-C	J-E	G-C	G-E	TYPE
32548.20	3071.474	0	II					
32548.73	3071.424	0 W						
32549.34	3071.366	1						
32553.85	3070.941	1	II					
32554.77	3070.854	1	I					
32555.82	3070.755	1	II					
32557.85	3070.563	3 W	I					
32558.97	3070.458	30	II					1
32559.67	3070.392	1	II					
32560.10	3070.351	1						
32560.94	3070.272	1	II					
32561.85	3070.187	3	II	8.5	7.5			36902- 4341
32564.98	3069.892	3	I	7.0	8.0			32564- 0
32566.48	3069.749	1	II					
32567.06	3069.695	100	II					4
32568.40	3069.569	3	II					
32570.78	3069.344	3	II					
32572.79	3069.155	1	II					
32573.41	3069.096	0						
32575.09	3068.938	30	II					4
32576.35	3068.820	3	I					
32578.39	3068.628	1	II	7.5	8.5			32578- 0
32579.49	3068.524	1	I					
32580.41	3068.438	1	II					
32582.36	3068.253	1	II					
32582.89	3068.204	1						
32583.38	3068.158	0						
32583.79	3068.119	1	II					
32584.46	3068.056	1						
32585.06	3068.000	1						
32586.23	3067.889	30	I					
32588.12	3067.711	3	II					
32588.68	3067.659	3	I					
32589.76	3067.557	100 W	I					3
32590.54	3067.483	10	II					
32591.04	3067.437	10	II					
32592.19	3067.328	10	II					
32592.45	3067.304	1	II					
32593.10	3067.243	10	II					
32595.82	3066.986	300	II					1
32596.55	3066.918	1 W						
32598.23	3066.759	1	II					
32600.13	3066.581	1 W	I					
32601.45	3066.457	1						
32602.55	3066.354	3 W	II					

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA		TYPE	LEVELS
						G-C	G-E		CCC-EVEN
32650.37	3061.863	1	II						
32651.26	3061.779	1	II						
32651.72	3061.736	C							
32654.31	3061.492	100	II					2	
32655.67	3061.365	100	II	3.5	4.5			1	42087- 9432
32656.43	3061.294	30	I						
32657.22	3061.220	30	II						
32657.90	3061.156	3	II						
32658.87	3061.066	3	I						
32659.08	3061.046	1							
32661.71	3060.799	1	II						
32662.36	3060.738	10	II						
32663.37	3060.644	300	II					2	
32665.26	3060.467	3	II						
32666.12	3060.386	3	I						
32666.91	3060.312	30	II					A	
32668.27	3060.185	3	II						
32669.61	3060.059	1							
32670.04	3060.019	100	II					1	
32672.47	3059.791	1	II						
32673.19	3059.724	3	II						
32675.11	3059.543	1	I						
32675.86	3059.473	30	II						
32679.49	3059.134	1	II						
32681.28	3058.966	1	II						
32683.13	3058.793	3	II						
32683.79	3058.732	1	II						
32684.81	3058.635	C	II						
32689.70	3058.178	3	II						
32691.62	3057.999	1	II						
32695.03	3057.680	C	II						
32695.42	3057.644	1							
32699.04	3057.305	1	II						
32700.49	3057.169	10	II						
32701.04	3057.118	30	II					2	
32702.68	3056.964	100	II					2	
32704.52	3056.792	C	II						
32705.61	3056.690	1	II						
32706.36	3056.620	C	II						
32707.58	3056.506	0	II						
32709.30	3056.346	1	II						
32709.51	3056.326	1	II						
32711.92	3056.101	1	I						
32713.15	3055.986	0							
32714.52	3055.858	3	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	OCC-EVEN
32719.87	3055.359	1	II						
32722.36	3055.126	1	II						
32723.51	3055.018	1	I						
32723.72	3054.999	1	II						
32725.95	3054.790	1							
32726.60	3054.730	10	II						
32727.22	3054.672	10	II					4	
32728.49	3054.554	0							
32729.84	3054.427	0							
32730.41	3054.375	10	I						
32730.89	3054.329	0	II						
32731.57	3054.266	1	I						
32731.89	3054.237	0							
32732.67	3054.163	0	II						
32733.92	3054.047	1	W II						
32736.98	3053.761	3	II						
32737.79	3053.686	1	II						
32738.51	3053.619	3	II						
32739.30	3053.545	0							
32740.58	3053.426	1	II						
32743.02	3053.198	3	II						
32743.43	3053.160	1	II						
32744.92	3053.021	1	II						
32745.19	3052.996	1	I						
32747.30	3052.799	1	II						
32748.03	3052.731	30	II					3	
32750.34	3052.516	3	I						
32752.46	3052.318	100	II					4	
32753.53	3052.219	3	II						
32755.40	3052.044	3	II						
32756.68	3051.925	1	I						
32757.17	3051.879	0							
32757.82	3051.818	10	I						
32758.55	3051.751	3	I						
32759.97	3051.618	1		5.5	5.5				40223- 7463
32761.73	3051.454	300	II	5.5	6.5			1	37517- 4755
32763.13	3051.324	1	II						
32764.04	3051.239	3	II						
32766.23	3051.035	0	II						
32766.93	3050.970	0	I						
32770.35	3050.652	1	II						
32770.57	3050.631	0							
32771.99	3050.499	1	II						
32773.01	3050.404	10	II						
32774.31	3050.283	0	II	6.5	7.5				33607- 828

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS	
				J-C	J-E	G-C	G-E	TYPE
32777.08	3050.025	1	II					
32777.39	3049.996	1	I					
32778.94	3049.852	0						
32781.24	3049.638	10	II					
32784.64	3049.322	0						
32784.98	3049.290	0						
32786.82	3049.119	100	II				4	
32788.53	3048.960	30		6.5	7.5		1	33616- 828
32789.76	3048.883	1	I					
32790.14	3048.810	0						
32790.88	3048.742	10	I					
32793.27	3048.519	1	II					
32793.87	3048.464	0	II					
32794.62	3048.394	30	II				2	
32796.45	3048.224	30	II				3	
32796.70	3048.201	0	II					
32797.85	3048.094	1	II					
32798.81	3048.005	1	I					
32799.20	3047.968	1	II					
32799.64	3047.927	1	I					
32802.16	3047.693	1	II					
32803.59	3047.561	100	II				3	
32804.37	3047.488	10	II					
32804.68	3047.459	1	II					
32806.55	3047.285	3	II					
32810.78	3046.929	1	II					
32810.84	3046.886	1	II					
32812.46	3046.736	10	II					
32814.30	3046.565	C						
32814.76	3046.523	1	II					
32815.42	3046.461	0						
32816.31	3046.379	100	II				4	
32816.97	3046.318	3 W	II					
32822.30	3045.823	C						
32822.85	3045.772	0	II					
32828.69	3045.231	3	II					
32829.70	3045.136	1	II					
32830.48	3045.064	1	I	8.0	7.0			7565-40396
32833.86	3044.750	C	I					
32834.89	3044.655	C						
32835.35	3044.612	1	II					
32836.12	3044.541	30	II				1	
32840.36	3044.148	3	I					
32841.22	3044.068	C	I					
32842.08	3043.988	1	I					

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
32846.26	3043.601	0							
32846.92	3043.540	100	II	7.5	7.5			3	37188- 4341
32848.15	3043.426	300	II					2	
32849.95	3043.260	10	II						
32851.29	3043.135	1000	II					4	
32852.13	3043.057	3	W I						
32853.85	3042.898	0							
32857.15	3042.593	0							
32858.10	3042.504	10	II						
32858.75	3042.444	0		5.5	6.5				37614- 4755
32860.42	3042.290	1	II						
32860.97	3042.238	10	II						
32861.59	3042.181	3	II						
32862.60	3042.087	30	II						
32863.80	3041.977	10	W I						
32865.93	3041.779	10	I						
32867.45	3041.639	100	II					2	
32868.21	3041.568	1	W II						
32871.83	3041.233	1	II						
32872.75	3041.148	1	I						
32876.74	3040.780	1	I						
32878.62	3040.605	1							
32879.88	3040.489	3	II						
32881.06	3040.379	3							
32881.31	3040.357	10	I						
32882.33	3040.262	100	II	5.5	6.5			4	37637- 4755
32883.72	3040.133	3	W I						
32887.28	3039.804	10	II						
32890.58	3039.499	3	W I						
32891.10	3039.451	1	II						
32895.23	3039.070	30	II						
32900.91	3038.545	1	II						
32902.63	3038.386	1							
32903.73	3038.285	1000	II					4	
32906.32	3038.045	3							
32906.80	3038.002	1							
32907.33	3037.953	100	W I					3	
32908.74	3037.822	3	II						
32909.09	3037.790	1							
32909.55	3037.748	1	II						
32910.55	3037.655	1							
32915.67	3037.182	3	II	6.5	6.5				37671- 4755
32917.40	3037.023	10	II						
32918.50	3036.921	1							
32920.20	3036.765	100	I					4	

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
32920.92	3036.698	300	II						1
32921.61	3036.635	1							
32923.97	3036.417	1							
32924.05	3036.410	1	II						
32925.80	3036.249	3	I						
32926.77	3036.158	30	I						4
32927.75	3036.069	1							
32929.10	3035.944	0	II						
32930.01	3035.860	1							
32930.40	3035.824	30	I						
32931.94	3035.682	3	II						
32933.76	3035.514	0							
32933.96	3035.496	1	II						
32935.49	3035.355	1	II						
32937.84	3035.138	3	II						
32938.99	3035.033	10	II						
32940.87	3034.859	1	I						
32942.47	3034.712	1	II	5.5	6.5				40427- 7485
32943.75	3034.594	1	II						
32944.22	3034.550	1							
32944.95	3034.484	10	II						
32950.18	3034.001	1	II						
32951.60	3033.871	1							
32952.13	3033.822	1	II						
32952.76	3033.764	0							
32954.23	3033.629	1	II						
32957.05	3033.369	3	II						
32957.86	3033.294	3	I						
32958.95	3033.194	100	II						4
32959.75	3033.120	1	II						
32963.01	3032.821	1	II						
32963.70	3032.757	1	II	5.5	5.5				40427- 7463
32963.97	3032.732	3	I						
32964.69	3032.666	1	II						
32965.46	3032.595	0							
32966.25	3032.523	3	II						
32968.02	3032.360	3	II						
32972.77	3031.923	1	II						
32975.19	3031.701	0							
32976.10	3031.616	1	II						
32977.02	3031.532	1	II						
32979.18	3031.333	1	II						
32979.53	3031.301	3	II						
32980.70	3031.194	30	II						
32981.18	3031.150	30	II						4

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
32984.67	3030.829	0	II							
32985.14	3030.785	1	II							
32985.75	3030.730	1								
32989.37	3030.397	30	II	6.5	7.5			4	33817-	828
32989.70	3030.367	3	II							
32990.70	3030.275	1	II							
32991.06	3030.242	1	II							
32991.95	3030.160	1								
32992.43	3030.116	1	I							
32992.99	3030.064	10	II							
32993.44	3030.024	1	II							
32994.62	3029.915	1	II							
32994.90	3029.889	1								
32995.73	3029.813	100	II					1		
32999.80	3029.439	30	I							
33001.16	3029.314	1	II							
33001.71	3029.264	1	II							
33002.29	3029.211	0 W								
33004.38	3029.019	0								
33004.85	3028.976	1								
33005.55	3028.912	3	II							
33007.07	3028.772	1	II							
33009.03	3028.592	1	II							
33010.54	3028.453	10	II							
33012.27	3028.295	3 W	I							
33015.70	3027.980	10	I							
33018.72	3027.703	3	I							
33020.26	3027.562	100	II					1		
33021.93	3027.409	10	I							
33022.71	3027.337	10	II							
33025.73	3027.061	0								
33026.45	3026.995	0								
33026.82	3026.961	1	II							
33027.83	3026.868	10	I							
33028.64	3026.794	1	II							
33029.37	3026.727	1	I							
33030.04	3026.666	1	II							
33030.99	3026.579	1	II							
33031.80	3026.504	1	II							
33032.93	3026.401	1	II							
33035.59	3026.157	1000	II					1		
33037.07	3026.021	10	I							
33040.08	3025.746	100	II	5.5	6.5			1	37795-	4755
33041.31	3025.633	30	II							
33041.80	3025.588	300	II					1		

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
33042.57	3025.518	1	W						
33042.89	3025.488	1		II					
33043.73	3025.412	10		II					
33044.38	3025.352	3		II					
33048.74	3024.953	1	W	I					
33049.98	3024.840	1		II					
33051.17	3024.731	1		II					
33051.58	3024.693	1		II					
33052.55	3024.604	3		II					
33053.06	3024.558	3		II					
33054.19	3024.454	3		II					
33057.35	3024.165	1		I					
33064.26	3023.533	100	W	I				3	
33069.51	3023.053	1	W						
33071.17	3022.901	30		I				4	
33072.46	3022.783	0		II					
33073.74	3022.666	3		I					
33074.18	3022.627	10		II					
33074.95	3022.556	10		I					
33077.51	3022.322	1		II					
33080.08	3022.087	10		II					
33083.08	3021.813	1		II					
33083.45	3021.780	30		II				1	
33084.71	3021.665	3		I					
33085.56	3021.586	3							
33088.59	3021.310	1		II					
33092.73	3020.932	0							
33093.38	3020.872	0							
33094.38	3020.781	1							
33099.21	3020.340	30		II					
33101.18	3020.160	1		I					
33102.22	3020.065	0							
33102.50	3020.040	1		II					
33104.75	3019.835	0		II					
33106.91	3019.638	1		II					
33112.12	3019.163	0		II					
33112.38	3019.139	1		II					
33114.39	3018.956	3		II					
33115.26	3018.877	3		II					
33116.98	3018.720	10	W	I					
33117.99	3018.627	30		I	8.0	9.0		A	7565-40683
33119.18	3018.519	10	W	I					
33121.90	3018.272	10		II					
33122.41	3018.225	3		II					
33123.31	3018.143	0		I					

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS	
				J-C	J-E	G-C	G-E	TYPE
33126.13	3017.886	C	II					
33126.36	3017.865	0						
33127.07	3017.800	3	II					
33127.95	3017.720	10	II					
33131.29	3017.416	1	II					
33132.69	3017.288	1	I					
33133.28	3017.234	10	I					
33135.12	3017.067	30	II					
33135.62	3017.021	3	II					
33136.40	3016.951	300	II				2	
33139.00	3016.713	1	II					
33140.27	3016.598	10	II					
33141.04	3016.528	1 W	I					
33143.27	3016.325	10 W	II					
33146.45	3016.036	1	II					
33146.89	3015.996	0	II					
33150.32	3015.684	300	II				1	
33155.10	3015.249	1	I					
33157.09	3015.068	100	II				4	
33159.50	3014.848	C						
33160.65	3014.744	1						
33161.46	3014.671	3	II					
33162.40	3014.585	1						
33163.12	3014.520	1	II					
33163.43	3014.492	1	I	6.0	5.0			42375- 9211
33165.76	3014.279	300 R	I	8.0	8.0		3	33165- 0
33167.44	3014.127	1	II					
33168.35	3014.044	10	II					
33170.28	3013.869	1	I					
33170.69	3013.832	1	II					
33171.72	3013.738	10	II					
33172.15	3013.698	10	II					
33174.05	3013.526	10	II					
33174.86	3013.452	3	II					
33175.30	3013.412	1	II					
33175.85	3013.363	10	II					
33181.51	3012.849	C	I					
33183.93	3012.629	10	II					
33184.48	3012.579	1	II					
33185.35	3012.500	1	II					
33186.42	3012.403	3	II					
33187.60	3012.296	10	II					
33189.29	3012.143	1	II					
33191.85	3011.910	1	II					
33195.83	3011.549	1	I					

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
33200.15	3011.157	10	II						
33202.53	3010.941	1	II						
33204.34	3010.777	3	II						
33206.32	3010.597	3	I						
33207.65	3010.477	3	I						
33212.54	3010.034	3	II						
33215.06	3009.806	0							
33219.32	3009.419	3	II						
33220.81	3009.284	100	I						A
33222.92	3009.093	3	II						
33224.46	3008.954	10	II						
33225.78	3008.834	10	I						
33226.00	3008.814	30	II						
33232.68	3008.209	30	I						
33234.17	3008.075	0	II						
33235.21	3007.980	1	I						
33235.61	3007.944	1	I						
33235.86	3007.921	0	II						
33237.48	3007.775	0	II						
33237.98	3007.730	1	II						
33238.38	3007.694	0	II						
33239.06	3007.632	0	II						
33239.81	3007.564	1	II						
33240.23	3007.526	10	II						
33241.18	3007.440	1	II						
33242.50	3007.321	3	I						
33243.73	3007.210	0	II						
33245.70	3007.032	10	II						
33246.52	3006.957	1	II						
33247.12	3006.902	1 W							
33248.05	3006.819	1	II						
33251.65	3006.493	1	II						
33252.62	3006.405	1	II						
33253.38	3006.337	1	II						
33254.59	3006.227	10	II						
33257.06	3006.004	0	II						
33257.83	3005.935	10	II						
33261.04	3005.644	1	I						
33262.09	3005.550	3	II						
33262.93	3005.474	1	II						
33263.47	3005.424	1	II						
33263.94	3005.382	0							
33265.04	3005.283	1 W	I						
33266.03	3005.194	0	I						
33266.52	3005.149	0							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
33267.68	3005.045	1	I	8.C	8.0				7565-40833	
33268.24	3004.994	10	I	5.C	5.0				42479-	9211
33269.82	3004.851	1	II							
33274.79	3004.402	C	II							
33275.96	3004.297	1	II							
33277.27	3004.178	10	II							
33278.27	3004.088	0	II							
33279.63	3003.965	10	I							
33280.51	3003.886	1	II							
33281.95	3003.756	300	II	6.5	7.5			4	34110-	828
33283.05	3003.657	1								
33285.07	3003.474	1	II							
33285.54	3003.432	1	II							
33290.28	3003.004	10	I							
33290.80	3002.957	1	I							
33291.86	3002.862	3 W	II							
33293.39	3002.724	10	I							
33294.43	3002.630	1	II							
33297.16	3002.383	100	II					2		
33304.47	3001.725	10	I							
33305.31	3001.649	3	II							
33305.78	3001.607	1	I	8.C	8.0				7565-40871	
33306.14	3001.574	3	I							
33306.93	3001.503	C								
33311.53	3001.088	100 R	I	7.C	8.0			1	33311-	0
33314.00	3000.866	3								
33314.74	3000.799	3	II							
33315.59	3000.722	3	I							
33317.59	3000.543	1								
33320.25	3000.304	1	II							
33322.67	3000.086	0	II							
33325.63	2999.819	1								
33326.04	2999.782	1	II							
33326.52	2999.738	10	I							
33327.72	2999.631	1								
33330.24	2999.404	3	II	6.5	7.5				37671-	4341
33330.52	2999.379	10	II							
33333.37	2999.122	3	II							
33333.50	2999.110	1								
33334.50	2999.020	3	II							
33334.75	2998.998	0	II							
33336.06	2998.880	0	II							
33338.00	2998.705	0	II							
33339.79	2998.544	3	II							
33342.75	2998.279	1	II							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	OCC-EVEN	
33343.54	2998.207	3	II							
33344.91	2998.084	1	I							
33345.42	2998.038	1	I							
33347.40	2997.860	3	II							
33347.76	2997.828	1	II							
33349.84	2997.641	0								
33352.98	2997.359	3	II							
33353.84	2997.281	0	II							
33355.07	2997.170	3	II							
33355.32	2997.148	1	I							
33356.02	2997.086	0	II							
33358.84	2996.833	300 R	I	8.0	8.0			3	33358-	0
33359.78	2996.748	10	II							
33363.66	2996.399	1								
33364.31	2996.341	3	II							
33367.75	2996.032	0								
33369.66	2995.860	3	II							
33371.12	2995.729	1 W	II							
33372.01	2995.650	0	II							
33372.72	2995.586	1	II							
33373.52	2995.514	3	I							
33374.29	2995.445	3								
33374.49	2995.427	10	II	6.5	6.5				38130-	4755
33375.23	2995.360	0	II							
33376.48	2995.248	1								
33377.34	2995.171	1	II							
33379.02	2995.020	1	I							
33380.12	2994.922	3	II							
33381.14	2994.830	3	II							
33381.74	2994.776	3	I							
33382.27	2994.729	3	II							
33382.99	2994.664	0								
33386.45	2994.354	1								
33388.24	2994.193	10	I							
33389.51	2994.080	10	II							
33395.15	2993.573	0	I							
33395.91	2993.506	1	II							
33398.59	2993.265	3 W	II							
33400.10	2993.130	3								
33400.37	2993.106	30	II							
33401.67	2992.989	0								
33406.19	2992.584	0	II							
33407.36	2992.479	0								
33408.14	2992.410	30	II							
33409.26	2992.310	3	II							

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA		LEVELS			
				J-C	J-E	G-C	G-E	TYPE	GCC-EVEN
33410.26	2992.220	30	I						
33411.03	2992.151	10	II						
33412.61	2992.009	1	II						
33415.09	2991.787	1	I						
33417.08	2991.609	100	II						
33419.92	2991.355	100	II						
33421.35	2991.227	30	I						
33421.47	2991.216	100	I						
33427.03	2990.718	0							
33427.42	2990.684	1		6.5	7.5				34255- 828
33430.79	2990.382	1							
33431.97	2990.277	0	II						
33432.53	2990.226	0	II						
33434.35	2990.063	1	II						
33435.86	2989.928	1	I						
33437.61	2989.772	100	II						
33441.23	2989.449	1	II						
33446.94	2988.939	3	II						
33447.68	2988.872	0							
33448.43	2988.805	1	I						
33449.52	2988.708	30	II						
33450.13	2988.653	1	II						
33451.18	2988.559	3	II						
33452.06	2988.480	1	I						
33452.42	2988.448	1	II						
33457.10	2988.030	1	II						
33458.75	2987.883	30	II						
33460.35	2987.740	1	II	5.5	6.5				40945- 7485
33462.24	2987.572	0	II						
33463.42	2987.466	1	II						
33463.97	2987.417	1		8.0	9.0				7565-41029
33465.22	2987.306	0	II						
33465.46	2987.284	30	I						
33466.53	2987.188	1	II						
33470.26	2986.856	0	II						
33470.75	2986.811	1	II						
33471.61	2986.735	1	II						
33473.83	2986.537	1							
33474.20	2986.504	1	II						
33474.75	2986.455	0							
33480.23	2985.966	100	II						
33481.21	2985.879	30	II						
33481.55	2985.848	30	II	5.5	5.5				40945- 7463
33483.60	2985.665	1	II						
33484.89	2985.550	1	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	GCC-EVEN
33487.46	2985.321	10	I						
33488.57	2985.222	1	I						
33490.31	2985.068	0	II						
33491.35	2984.974	1	II						
33493.02	2984.826	0	II						
33493.57	2984.776	1	II						
33494.31	2984.710	1	II						
33496.15	2984.547	30	II	6.5	6.5				38251- 4755
33496.53	2984.513	1	II						
33498.63	2984.326	1	II						
33499.94	2984.209	1	II						
33500.40	2984.168	3							
33501.16	2984.100	10	II						
33501.91	2984.034	0	I						
33502.31	2983.998	0	II						
33504.01	2983.846	0	II						
33505.48	2983.716	0							
33506.07	2983.663	1	II						
33507.98	2983.493	0	II						
33511.30	2983.197	1 W							
33512.05	2983.131	300 R	I	8.0	7.0				1 37646- 4134
33514.35	2982.926	1							
33515.81	2982.796	1							
33517.95	2982.606	3	II						
33518.34	2982.571	3	II						
33521.16	2982.320	1	II						
33522.12	2982.235	1	II						
33528.02	2981.709	0	II						
33532.93	2981.273	30	II						
33533.67	2981.207	3	I						
33534.55	2981.129	30	II						
33535.01	2981.088	1	I						
33541.78	2980.485	1	II	6.5	6.5				38297- 4755
33542.26	2980.444	0							
33543.23	2980.358	0	II						
33546.24	2980.091	10	II						
33547.11	2980.013	0	II						
33550.60	2979.703	1 W	I						
33551.20	2979.650	10	II						
33551.88	2979.589	1							
33555.41	2979.276	1							
33564.63	2978.457	3	II						
33566.01	2978.335	3	I						
33568.56	2978.109	30	II	8.5	7.5				34396- 828
33569.50	2978.025	10	I						

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS	
				J-C	J-E	G-C	G-E	TYPE
33570.43	2977.943	0						
33570.66	2977.922	1	II					
33571.26	2977.869	3	II					
33576.34	2977.419	300	II				2	
33579.64	2977.126	0	II					
33581.68	2976.945	1	II					
33583.82	2976.755	1	II					
33585.52	2976.604	1	II					
33586.83	2976.489	3	I					
33588.24	2976.364	0						
33588.83	2976.311	30	I					
33590.67	2976.148	1	II					
33591.65	2976.062	0	II					
33594.00	2975.853	100	II					
33594.93	2975.771	100	II					
33596.25	2975.654	1						
33596.41	2975.640	1	II					
33597.45	2975.548	30	II					
33598.12	2975.488	1						
33601.09	2975.225	30	II	8.5	7.5			37942- 4341
33602.18	2975.129	0						
33606.75	2974.724	3	II					
33607.35	2974.671	1	II					
33607.71	2974.639	1	II					
33608.64	2974.557	3	I					
33610.64	2974.380	1	II					
33610.80	2974.366	0						
33611.41	2974.312	10	I					
33616.04	2973.902	0	II					
33619.05	2973.636	1	II					
33619.97	2973.555	3	I					
33621.60	2973.410	0	I					
33622.57	2973.325	1	I					
33629.89	2972.677	30	I					
33630.27	2972.644	10	II					
33631.08	2972.572	1	II					
33632.96	2972.406	10	II					
33633.29	2972.377	1						
33638.27	2971.937	3	W I	8.0	8.0			7565-41203
33640.52	2971.738	1	II					
33641.65	2971.638	1						
33642.75	2971.541	1						
33644.69	2971.369	10	I	8.0	9.0			7565-41210
33645.96	2971.258	1	II					
33646.84	2971.180	1	II					

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
33647.17	2971.151	0	II						
33640.54	2971.029	1	I						
33650.35	2970.870	0 Q							
33651.44	2970.774	1 W	I						
33654.11	2970.538	0	II						
33657.05	2970.278	1	II						
33660.24	2969.997	0	II						
33661.14	2969.917	0	II						
33667.48	2969.358	1							
33667.90	2969.322	10	II						
33668.70	2969.251	30	I						
33670.33	2969.107	10	I						
33673.46	2968.833	1	II						
33674.18	2968.767	0	II						
33677.29	2968.493	3	I						
33679.02	2968.340	0							
33683.19	2967.974	0							
33684.46	2967.862	1	I						
33686.08	2967.718	3	II						
33686.86	2967.650	0	II						
33688.69	2967.489	30	II						
33690.33	2967.344	3	II						
33690.82	2967.301	30	II	8.5	7.5			34519-	828
33698.39	2966.634	10	II						
33699.50	2966.537	3	II						
33702.10	2966.308	1	II						
33702.71	2966.254	0							
33704.95	2966.057	1	II						
33707.10	2965.868	0	II						
33709.13	2965.689	1	I						
33709.81	2965.630	0							
33716.63	2965.029	1	II						
33719.87	2964.745	30	II						
33721.53	2964.599	100 R	I	8.0	8.0			3 33721-	0
33722.33	2964.528	1							
33728.21	2964.011	3	II						
33732.61	2963.624	0	II						
33733.71	2963.528	1	II						
33734.17	2963.488	3	II						
33735.86	2963.339	1	II						
33736.30	2963.300	1	I						
33739.71	2963.001	1	I						
33740.92	2962.895	3	II						
33742.06	2962.795	0							
33744.41	2962.588	0							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA		TYPE	LEVELS
						G-C	G-E		ODD-EVEN
33746.57	2962.399	10	II						
33747.05	2962.357	10	II						
33747.42	2962.324	30	II						
33748.22	2962.254	0							
33752.07	2961.916	0	II						
33752.38	2961.889	1	II						
33753.41	2961.799	1	II						
33755.90	2961.580	30	II						
33757.05	2961.479	1	II						
33759.32	2961.280	3	I						
33761.00	2961.133	1	II						
33761.42	2961.095	1	II						
33763.28	2960.933	10	I						
33764.50	2960.826	1	II						
33764.98	2960.783	1	II						
33767.48	2960.565	0	II						
33769.67	2960.373	1	I						
33773.73	2960.016	1	II						
33776.12	2959.807	1							
33780.43	2959.430	1	II						
33780.99	2959.380	0							
33783.65	2959.147	1							
33786.22	2958.922	3	I						
33789.92	2958.598	1	II						
33792.37	2958.383	0	II						
33794.16	2958.227	0	I						
33795.92	2958.073	100	I						A
33797.14	2957.969	0							
33799.56	2957.754	30	II						
33801.58	2957.577	1	II						
33801.98	2957.542	0							
33802.67	2957.482	0	II						
33803.80	2957.383	10	II						
33804.63	2957.311	1							
33805.77	2957.211	3	I						
33806.84	2957.117	1	II						
33809.67	2956.867	0							
33812.57	2956.616	0	I						
33816.53	2956.269	1	I						
33817.41	2956.193	10	I						
33820.30	2955.940	1	II						
33821.92	2955.799	3	I						
33823.55	2955.656	1							
33823.94	2955.622	1	II						
33824.98	2955.531	1	II						

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
33825.81	2955.458	1	II						
33826.64	2955.386	3	II						
33830.44	2955.054	1	II						
33831.55	2954.957	3	I						
33834.38	2954.710	3	I						
33836.23	2954.549	1							
33839.36	2954.275	1	II	8.5	7.5			34667-	828
33841.51	2954.087	1	II						
33843.04	2953.954	3	II						
33843.86	2953.882	C	II						
33845.13	2953.772	1C							
33845.94	2953.701	100	II						
33848.99	2953.435	0							
33849.74	2953.369	1							
33853.65	2953.028	100	II						
33856.05	2952.818	1	II						
33858.16	2952.635	3	II						
33859.06	2952.557	0							
33859.63	2952.507	0	II						
33863.21	2952.194	1	II						
33864.10	2952.117	100	II						
33865.59	2951.987	0	II						
33866.12	2951.941	0	I						
33868.42	2951.741	C							
33868.90	2951.699	1							
33883.86	2950.396	1							
33884.64	2950.327	100	II						
33887.48	2950.080	1C	II						
33893.73	2949.536	1	II						
33896.60	2949.286	1 W	I						
33898.67	2949.106	1	II						
33898.89	2949.087	0							
33902.05	2948.812	3	I						
33904.59	2948.591	1 W	I						
33905.04	2948.552	1C	I						
33907.79	2948.313	3CC	II						
33910.70	2948.060	3	II	6.5	7.5			38251-	4341
33911.53	2947.988	3	II						
33912.23	2947.927	1							
33912.51	2947.902	1C	I						
33917.12	2947.502	1	II						
33918.31	2947.398	1	II						
33920.49	2947.209	100	II						
33922.14	2947.065	100	II						
33925.53	2946.771	100	II						

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS	
				J-C	J-E	G-C	G-E	TYPE
33927.20	2946.626	C						
33930.87	2946.307	100	II					
33932.26	2946.186	1	I					
33932.88	2946.133	0	I					
33933.85	2946.040	C	II					
33934.48	2945.994	0	II					
33935.44	2945.911	3	I					
33936.62	2945.808	1 W	I					
33950.23	2944.627	100	II					
33951.06	2944.555	100	II					
33955.00	2944.214	C	II					
33956.34	2944.097	30	II	6.5	7.5			38297- 4341
33956.65	2944.071	C W						
33957.73	2943.911	1	I					
33960.45	2943.741	1	II					
33961.73	2943.630	1	II					
33963.37	2943.488	1	II					
33963.72	2943.457	1	II					
33965.21	2943.329	0						
33968.93	2943.006	C						
33969.97	2942.916	C						
33970.71	2942.852	C						
33973.07	2942.647	10	II					
33975.00	2942.480	0						
33979.56	2942.086	1	II					
33980.34	2942.018	C	II					
33983.03	2941.785	C	II					
33986.72	2941.466	10	II					
33987.53	2941.395	C	II					
33988.44	2941.317	3	I					
33989.14	2941.256	30	II					
33991.51	2941.051	100	II					
33995.87	2940.674	0						
34002.69	2940.084	10 W	I					
34003.23	2940.038	30	II	6.5	6.5			38758- 4755
34008.34	2939.595	10	I					
34011.77	2939.299	10	I					
34015.62	2938.966	1	I					
34016.83	2938.862	C	II					
34020.98	2938.504	1	II					
34021.29	2938.476	C						
34023.12	2938.318	10	II					
34024.12	2938.232	3	I					
34026.64	2938.015	0						
34033.51	2937.422	1	II					

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS	
				J-C	J-E	G-C	G-E	TYPE
34034.41	2937.344	3	II					
34035.89	2937.216	1	II					
34038.18	2937.018	1	II					
34039.70	2936.887	1	I					
34043.36	2936.572	1	I					
34043.38	2936.491	1	I					
34045.28	2936.406	1						
34047.18	2936.242	1	II					
34048.34	2936.142	3	II	7.5	6.5			388C4- 4755
34048.34	2936.142	3	II					
34052.51	2935.783	3	II					
34054.01	2935.652	0	II					
34056.76	2935.416	30	I					
34058.53	2935.264	10	II					
34061.54	2935.004	3	II					
34065.27	2934.682	10	II					
34067.19	2934.517	100	II					
34067.66	2934.477	3	II					
34069.59	2934.311	30	II					
34072.94	2934.022	10	I					
34080.63	2933.360	10	II					
34081.01	2933.327	1	II					
34087.70	2932.752	3	II					
34091.09	2932.460	0						
34091.56	2932.420	1	II					
34093.79	2932.227	1	II					
34095.35	2932.093	10	II					
34096.38	2932.005	1	II					
34097.11	2931.942	1	I					
34097.75	2931.887	30	II					
34102.88	2931.446	1	II					
34104.40	2931.315	1	II					
34108.04	2931.003	30	II					
34110.01	2930.833	3	II					
34112.95	2930.580	0						
34117.31	2930.206	1	I	7.0	7.0			38251- 4134
34119.23	2930.041	1	II					
34126.79	2929.392	1						
34129.77	2929.137	1	I					
34130.44	2929.079	10	II					
34132.50	2928.902	0	II					
34134.36	2928.742	1						
34135.09	2928.680	0	II					
34136.82	2928.531	1						
34137.81	2928.446	0						

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS	
				J-C	J-E	G-C	G-E	TYPE
34139.93	2928.264	3	II					
34141.64	2928.117	0	I					
34143.66	2927.945	10	II					
34147.20	2927.641	0	I					
34148.42	2927.537	3	II					
34149.10	2927.478	1	II					
34150.17	2927.387	10	II					
34151.58	2927.265	30	II					
34154.02	2927.056	30	II					
34157.69	2926.742	1						
34158.92	2926.637	1	II					
34161.25	2926.437	C						
34166.33	2926.002	3	II					
34175.76	2925.194	3 W	I					
34176.80	2925.106	3	II					
34178.67	2924.946	C	II					
34180.01	2924.830	1	I					
34180.97	2924.749	0						
34184.58	2924.439	3	II					
34185.64	2924.349	10	I					
34190.27	2923.953	1						
34190.92	2923.897	3	I					
34192.10	2923.796	1						
34196.69	2923.404	C	I					
34197.49	2923.335	1	I					
34198.04	2923.291	3	II					
34199.50	2923.164	1	I					
34200.C1	2923.121	10	II					
34203.15	2922.852	0	II					
34204.22	2922.761	100	I					
34208.29	2922.413	1	I					
34211.78	2922.114	3	II					
34213.63	2921.956	10	I	7.0	8.0			34213- 0
34218.68	2921.525	1	II					
34224.60	2921.019	100	I					
34225.10	2920.977	3	II					
34226.86	2920.827	1	II					
34228.41	2920.695	30	I	7.0	7.0			38362- 4134
34229.89	2920.568		II					
34231.68	2920.415	1	I					
34232.66	2920.333	1	II					
34233.97	2920.220	0						
34236.45	2920.009	C	I					
34237.30	2919.936	1	II					
34238.20	2919.859	1	II					

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
34238.54	2919.830	1							
34240.46	2919.667	1							
34243.61	2919.398	3	II						
34244.13	2919.354	1	II						
34244.92	2919.286	1							
34245.82	2919.209	1	II						
34252.35	2918.653	30	II						
34255.55	2918.380	1	I						
34256.45	2918.304	1	II						
34261.05	2917.912	3	II						
34264.62	2917.608	3	I						
34265.98	2917.493	1							
34266.24	2917.470	3	II						
34267.75	2917.342	1	I						
34268.34	2917.292	10	II						
34269.51	2917.192	1	II						
34271.40	2917.031	1	II						
34273.01	2916.893	C	I						
34275.40	2916.690	1	II						
34277.55	2916.507	C	II						
34278.79	2916.402	C							
34279.78	2916.318	3	II						
34280.39	2916.266	0	II						
34283.52	2916.000	0	II						
34287.06	2915.698	3	I	7.0	7.0				38421- 4134
34287.89	2915.628	30	I						
34289.81	2915.464	1	I						
34291.96	2915.282	1	I						
34292.09	2915.270	0	I						
34293.70	2915.134	1	I						
34297.91	2914.776	1	II						
34301.75	2914.449	0							
34302.40	2914.394	1							
34304.61	2914.207	3	I						
34307.63	2913.950	1000	II						
34310.16	2913.735	100	II						
34311.46	2913.625	1 W	II						
34312.10	2913.571	1	I						
34313.96	2913.412	1							
34317.49	2913.113	1	I						
34321.95	2912.735	3	II						
34322.96	2912.649	3	I						
34324.77	2912.495	1	II						
34326.64	2912.336	1	II						
34328.84	2912.149	1							

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS ODD-EVEN
				J-C	J-E	G-C G-E TYPE	
34331.14	2911.955	0	II				
34331.96	2911.885	0	II				
34333.01	2911.796	1	II				
34333.70	2911.738	3	I				
34337.65	2911.402	1	II				
34338.11	2911.363	1	II				
34341.26	2911.097	0	II				
34344.69	2910.806	0	II				
34346.13	2910.684	0	II				
34346.93	2910.616	10	II				
34350.92	2910.278	3	I				
34352.55	2910.140	3	II				
34353.33	2910.073	3	II				
34355.57	2909.884	30	II				
34357.85	2909.690	10	II				
34361.68	2909.366	10	II				
34362.21	2909.322	10	II				
34362.94	2909.260	0					
34369.30	2908.721	0	II				
34370.72	2908.601	3	I				
34372.04	2908.490	0	II				
34374.67	2908.267	3	I				
34375.39	2908.206	1	I				
34377.96	2907.988	1	II				
34378.71	2907.925	0					
34379.57	2907.852	10	II	7.5	7.5		35207- 828
34382.78	2907.581	0					
34384.35	2907.448	10	II				
34387.70	2907.165	3	I				
34393.57	2906.669	1	II				
34396.88	2906.389	1000	II	8.5	8.5	4	34396- 0
34400.83	2906.055	1	II				
34403.52	2905.828	1	II				
34409.25	2905.345	0	II				
34411.43	2905.160	3	II				
34412.04	2905.108	1					
34414.03	2904.941	0	II				
34415.70	2904.799	1	II				
34417.21	2904.672	100	II				
34417.81	2904.622	1	II	6.5	7.5		38758- 4341
34419.92	2904.443	1	I				
34423.21	2904.166	3	II				
34424.04	2904.095	0	II				
34425.19	2903.999	10	II				
34434.44	2903.218	0	II				

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	CCC-EVEN	
34436.11	2903.078	C	II							
34438.30	2902.893	10	II	8.5	7.5				35266-	828
34441.44	2902.629	3	II							
34442.29	2902.557	3	I							
34442.81	2902.513	1	II							
34443.94	2902.418	0	II							
34448.07	2902.070	1	II							
34453.42	2901.620	1 W	II							
34456.75	2901.339	1	II							
34460.33	2901.037	3	II							
34460.43	2901.029	1	I							
34462.92	2900.819	300	II	7.5	7.5			3	38804-	4341
34464.88	2900.654	10	II							
34466.27	2900.538	1	I							
34467.09	2900.468	1	II							
34468.43	2900.356	1	II							
34471.18	2900.125	C	II							
34472.34	2900.027	C	II							
34473.35	2899.942	3	II							
34475.64	2899.749	1	I							
34480.95	2899.303	3	I							
34481.84	2899.228	0	II							
34483.97	2899.049	3	II							
34485.41	2898.928	1	II							
34406.26	2898.856	1	II							
34487.06	2898.788	1								
34488.02	2898.708	C								
34492.33	2898.345	C	II							
34493.50	2898.248	1	II							
34495.41	2898.087	1	II							
34496.69	2897.980	100	I							
34497.90	2897.878	3 W	I							
34508.09	2897.022	1	II							
34511.97	2896.696	C	II							
34515.07	2896.436	3	I							
34516.24	2896.338	1	II							
34517.31	2896.248	C								
34517.97	2896.193	3	II							
34519.08	2896.100	3	II	8.5	8.5				34519-	0
34520.09	2896.015	1	II							
34520.72	2895.962	3 W	I							
34522.33	2895.827	1 W	II							
34523.60	2895.721	1	II							
34524.86	2895.614	1	II							
34528.22	2895.333	10	II							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	GCC-EVEN	
34531.83	2895.030	1	II							
34532.50	2894.974	1	II							
34533.18	2894.917	30	I							
34534.31	2894.823	100 W	I							
34536.80	2894.614	10	II	7.5	7.5				35365-	828
34538.11	2894.504	10	II							
34539.15	2894.416	1								
34540.40	2894.312	0	II							
34542.18	2894.163	1	II							
34545.68	2893.869	0								
34552.34	2893.312	1	II							
34556.95	2892.926	0	II							
34561.15	2892.574	100	I							
34562.00	2892.503	3	II							
34564.56	2892.288	3	I							
34567.00	2892.085	10	II							
34570.06	2891.829	0	II							
34570.94	2891.755	1	II							
34572.66	2891.611	0	II							
34574.29	2891.475	1	II							
34575.80	2891.348	0	II							
34579.73	2891.020	100	II							
34580.42	2890.962	0	II							
34582.61	2890.779	0								
34583.05	2890.742	100	II							
34586.68	2890.439	30	II							
34592.18	2889.980	10	I							
34592.61	2889.944	1	II							
34599.10	2889.401	0	II							
34603.65	2889.021	0	II							
34605.80	2888.842	1	I							
34606.28	2888.801	1	I	6.5	7.5				35434-	828
34606.69	2888.768	10	I							
34608.32	2888.631	0	II							
34609.49	2888.534	1	II							
34610.98	2888.409	1	II							
34611.98	2888.326	3	I							
34613.55	2888.195	1	II							
34614.68	2888.101	0	II							
34616.99	2887.908	1	II							
34617.55	2887.862	0	II							
34620.33	2887.629	0	II							
34623.56	2887.360	0	II							
34625.74	2887.178	1	II							
34627.37	2887.042	1	II							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
34633.84	2886.503	0	II							
34637.40	2886.206	1	II							
34639.97	2885.992	0								
34640.86	2885.918	0	II							
34644.07	2885.651	0								
34644.66	2885.601	3	II							
34645.56	2885.526	10	I	7.0	7.0				38775-	4134
34645.82	2885.505	100	II							
34651.33	2885.047	3	II							
34651.73	2884.976	10	I							
34654.15	2884.811	10	II							
34655.12	2884.730	1								
34656.13	2884.647	1	II							
34660.52	2884.281	30	II	5.5	6.5				39416-	4755
34664.60	2883.942	1	II							
34665.50	2883.867	0	I							
34667.62	2883.690	3	II	8.5	7.5				35495-	828
34667.62	2883.690	3	II	8.5	8.5				34667-	0
34673.08	2883.236	0	II							
34680.19	2882.645	10	I							
34680.82	2882.592	3	II							
34687.94	2882.001	10	II							
34688.29	2881.972	1	I							
34694.30	2881.473	30	I							
34695.43	2881.379	3	I							
34698.14	2881.154	3	II							
34690.91	2881.090	3	I							
34699.30	2881.057	10	II							
34702.93	2880.756	3	II							
34703.61	2880.699	3	II							
34704.99	2880.585	0	II							
34706.54	2880.456	30	II							
34709.99	2880.170	1	II							
34712.04	2880.000	3	II							
34722.87	2879.102	10	II							
34725.04	2878.920	1	II							
34726.23	2878.814	0	II							
34727.18	2878.744	0	II							
34727.67	2878.704	30	II							
34729.77	2878.530	0	II							
34730.60	2878.460	1	II							
34730.99	2878.429	1	II							
34734.78	2878.114	0	II							
34734.89	2878.105	0	I							
34736.02	2878.011	0	II							

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
34736.65	2877.959	C							
34737.59	2877.881	300	II					3	
34748.85	2876.949	1	I						
34749.19	2876.921	0	II						
34750.33	2876.826	C	II						
34753.15	2876.593	1	II						
34754.00	2876.523	0	II						
34755.08	2876.433	3	I						
34755.62	2876.389	100	II						
34758.23	2876.172	30	I						
34758.91	2876.116	C	II						
34760.39	2875.994	0	II						
34762.72	2875.801	1	II						
34770.14	2875.187	30	II						
34770.93	2875.122	0	II						
34772.73	2874.973	0	II						
34780.72	2874.313	1	II						
34782.51	2874.165	C	II						
34783.32	2874.097	C	II						
34793.48	2873.259	3	II						
34793.48	2873.259	3	II	5.5	6.5				39549- 4755
34795.91	2873.058	0	II						
34800.15	2872.708	C	II						
34800.52	2872.677	3	I						
34803.34	2872.444	3	II						
34803.86	2872.401	10	I						
34811.30	2871.788	10	II						
34814.30	2871.540	C	II						
34817.29	2871.293	C							
34819.93	2871.075	1	I						
34820.03	2870.573	0	II						
34827.46	2870.455	10	I						
34831.09	2870.156	1	II						
34833.05	2869.994	1	II						
34835.13	2869.823	3	II						
34838.89	2869.513	0	II						
34839.90	2869.430	1							
34840.66	2869.368	0	II						
34844.84	2869.023	0							
34847.02	2868.844	0							
34848.59	2868.715	1	II						
34858.28	2867.917	1	I						
34859.55	2867.813	0	II						
34861.86	2867.623	30	II						
34863.23	2867.510	0	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
34863.84	2867.459	1	II							
34868.66	2867.064	1	II							
34869.53	2866.992	1	II							
34869.78	2866.971	3	II							
34871.87	2866.799	1	II							
34874.27	2866.602	1	II							
34875.70	2866.485	1	II							
34876.43	2866.425	1	II							
34876.86	2866.399	0	Q							
34878.36	2866.266	30	II							
34880.00	2866.130	10	I							
34889.87	2865.320	1								
34890.18	2865.295	3	II							
34896.57	2864.770	0	II							
34899.13	2864.560	0	II							
34899.67	2864.515	0	II							
34903.39	2864.210	C	II							
34905.71	2864.020	1	I							
34908.33	2863.805	100	I							
34918.57	2862.965	1	II							
34921.84	2862.697	100	R	I	7.0	8.0		2	34921-	0
34924.32	2862.493	10	I							
34929.58	2862.030	C	II							
34937.67	2861.400	C	II							
34939.76	2861.212	0								
34946.41	2860.684	3	II							
34946.56	2860.671	3	II							
34948.65	2860.501	0	II							
34952.68	2860.171	30	II							
34957.04	2859.814	1	II							
34958.15	2859.723	30	II							
34964.00	2859.245	C	II							
34967.80	2858.934	1	II							
34974.99	2858.347	3	I							
34985.19	2857.513	0	II							
34986.05	2857.443	1	II							
34990.07	2857.115	10	II							
34991.34	2857.011	3	II							
34998.58	2856.420	30	II							
35001.83	2856.155	3	II							
35003.06	2856.054	3	I							
35010.52	2855.446	1	II							
35012.00	2855.325	C	II							
35014.36	2855.132	C	II							
35021.05	2854.587	3	I							

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS	
				J-C	J-E	G-C	G-E	TYPE
35021.43	2854.556	C	II					
35026.83	2854.116	C	II					
35028.46	2853.983	3	I					
35033.17	2853.600	1	I					
35036.24	2853.349	1	II					
35038.77	2853.143	0	II					
35039.72	2853.065	1C	I					
35046.12	2852.545	1	II					
35054.03	2851.901	1C	I	6.0	7.0			39188- 4134
35055.23	2851.804	0	II					
35089.68	2849.003	C	II					
35090.61	2848.928	1CC	I					
35091.98	2848.817	1C	I					
35098.09	2848.321	1	II					
35103.63	2847.871	3C	I					
35104.03	2847.837	1	II					
35106.76	2847.617	C	II					
35107.37	2847.568	1C	II					
35111.34	2847.246	C	II					
35122.65	2846.329	C						
35123.01	2846.299	0	II					
35127.97	2845.898	1	II					
35133.52	2845.448	1	II					
35134.64	2845.358	C	II					
35137.95	2845.090	1	II					
35142.17	2844.748	1	II					
35145.74	2844.459	C	II					
35149.71	2844.138	C	II					
35152.08	2843.946	3	I					
35154.86	2843.720	1	II	7.5	6.5			39910- 4755
35157.30	2843.524	1	II					
35158.36	2843.438	C	II					
35159.17	2843.372	C	II					
35161.80	2843.160	3	I					
35165.09	2842.896	3C	I					
35166.96	2842.742	1	II					
35175.65	2842.040	3C	II	6.5	7.5			36003- 828
35188.93	2840.967	1	II					
35192.56	2840.674	1C	I					
35197.36	2840.287	1	I					
35203.03	2839.830	1C	II					
35209.43	2839.313	C	II					
35211.03	2839.185	1	II					
35213.65	2838.973	C	II					
35219.88	2838.470	1						

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS	
				J-C	J-E	G-C	G-E	TYPE
35221.26	2838.360	30	I					
35222.76	2838.239	3	I					
35228.50	2837.776	0						
35230.60	2837.607	30	II					
35232.04	2837.491	0	II					
35232.38	2837.464	1	II					
35234.20	2837.318	1	II					
35237.79	2837.028	30	I					
35238.13	2837.001	3	II					
35240.48	2836.812	0	II					
35253.09	2835.733	3	II					
35259.38	2835.291	10	II					
35259.71	2836.069	0	II					
35260.46	2835.204	1	II					
35261.45	2835.126	3	II					
35262.28	2835.058	3	I					
35263.89	2834.928	0						
35265.57	2834.793	1	II					
35266.63	2834.708	1	II	8.5	8.5		35266-	0
35269.13	2834.507	1	II					
35276.93	2833.881	0	II					
35278.30	2833.770	0	II					
35287.05	2833.067	0	II					
35291.32	2832.724	0	II					
35299.23	2832.090	3	II					
35302.10	2831.859	0	I					
35314.22	2830.008	0	II					
35324.41	2830.071	3	I	6.0	6.0		42375-	7050
35333.07	2829.377	3	II					
35335.71	2829.166	1	II	8.5	7.5		39676-	4341
35341.31	2828.717	0	II					
35345.67	2828.368	30	II					
35347.34	2828.235	0						
35348.04	2828.179	0	II					
35354.89	2827.631	30	I					
35355.79	2827.558	10	I					
35358.45	2827.347	10	II					
35361.21	2827.126	3	II					
35365.10	2826.814	10	II	7.5	8.5		35365-	0
35366.21	2826.726	1	II					
35367.19	2826.648	1	II	8.5	7.5		39708-	4341
35368.62	2826.533	1	I					
35370.42	2826.389	10	I					
35371.57	2826.298	0						
35377.48	2825.826	10	II					

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	ODD-EVEN
35378.15	2825.772	1	II						
35382.49	2825.425	100	II						
35384.14	2825.293	1	II						
35393.67	2824.533	3	II						
35400.67	2823.974	0	II						
35401.85	2823.880	1							
35403.99	2823.709	1	I						
35406.64	2823.498	1	II						
35409.55	2823.265	3	I						
35415.24	2822.812	100	II						
35424.52	2822.041	0	II						
35429.25	2821.696	10	I	5.0	6.0				42479- 7050
35429.49	2821.677	1							
35431.04	2821.554	0	I						
35431.65	2821.505	10	I						
35437.99	2821.000	1							
35450.10	2820.036	100	I						
35452.46	2819.848	10	I						
35454.33	2819.700	10	II	6.5	7.5				36282- 828
35458.82	2819.343	1	II						
35468.22	2818.596		II	5.5	6.5				40223- 4755
35472.45	2818.259	1	Q II						
35474.34	2818.110	0	II						
35478.77	2817.758	1	II						
35480.15	2817.648	1	Q II						
35483.62	2817.372	1							
35488.64	2816.974	0	II						
35489.61	2816.896	10	I						
35493.65	2816.576	30	I						
35495.94	2816.394	300	II	8.5	8.5				35495- 0
35498.41	2816.199	0	II						
35501.07	2815.987	0	II						
35506.34	2815.569	0	II						
35507.44	2815.482	1	II						
35508.37	2815.408	1	II						
35510.70	2815.224	30	II						
35518.20	2814.629	10	I						
35518.66	2814.593	1	Q						
35519.16	2814.553	1	II						
35527.52	2813.891	10	I						
35530.07	2813.689	1	II						
35532.96	2813.460	0	II						
35540.20	2812.887	1	II						
35541.47	2812.786	1	II						
35542.02	2812.742	0	II						

TABLE

DY LINE LIST

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WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS
						G-C	G-E	TYPE	CCC-EVEN
35544.25	2812.566	10	I						
35548.08	2812.263	1	II						
35549.69	2812.136	1	II						
35554.32	2811.770	C	II						
35557.59	2811.511	C							
35558.75	2811.419	100	II	6.5	7.5			36387-	828
35559.66	2811.347	0 Q							
35560.66	2811.269	1	I						
35562.90	2811.091	10	II						
35563.62	2811.034	0	II						
35565.90	2810.854	100	II						
35569.43	2810.575	3	II	7.5	7.5			39910-	4341
35574.36	2810.186	1	II						
35577.89	2809.907	1 Q							
35580.70	2809.685	30	I						
35584.16	2809.412	1	I						
35594.12	2808.625	1	II						
35614.84	2806.992	1	I						
35615.75	2806.919	C	II						
35626.41	2806.080	1	II						
35628.03	2805.952	C	II						
35629.63	2805.826	C	II						
35638.83	2805.102	1	I						
35654.65	2803.857	3	II						
35656.49	2803.712	3	I						
35662.57	2803.234	3	II						
35677.34	2802.074	1	II						
35685.83	2801.407	30	II						
35690.07	2801.074	1	II						
35694.55	2800.722	C							
35697.01	2800.530	30	II						
35698.39	2800.421	C	II						
35699.62	2800.325	100	II						
35700.55	2800.252	1	I						
35705.56	2799.859	C	II						
35706.64	2799.774	1	II						
35707.44	2799.712	1	II						
35715.88	2799.050	3	II						
35716.72	2798.984	10	II						
35718.00	2798.021	10	II						
35723.87	2798.424	1	II						
35729.76	2797.963	1	II						
35747.46	2796.577	C	II						
35748.08	2796.529	1	II						
35751.57	2796.256	1	II						

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS	
				J-C	J-E	G-C	G-E	TYPE
35754.77	2796.005	1	II					
35766.36	2795.099	10	II					
35770.82	2794.750	1	II					
35777.78	2794.207	1	I					
35780.51	2793.993	1	II					
35781.47	2793.919	1	II					
35793.05	2793.015	1	I					
35806.99	2791.928	3	I					
35813.25	2791.439	10	II					
35820.81	2790.850	C	II					
35829.83	2790.148	3	II					
35832.08	2789.973	3	II					
35835.49	2789.707	1	II					
35844.95	2788.971	1	II					
35845.53	2788.926	0						
35855.08	2788.183	1	II					
35856.68	2788.058	1	II					
35878.40	2786.371	3	I					
35879.99	2786.247	3	II					
35882.32	2786.065	C						
35882.63	2786.042	3	II					
35886.26	2785.760	10	II					
35886.75	2785.722	C						
35888.95	2785.551	3	II					
35894.35	2785.132	1	I	8.0	8.0			35894- 0
35899.88	2784.703	30	I					
35912.32	2783.738	C	II					
35921.10	2783.058	C	II					
35925.26	2782.736	10	II					
35926.97	2782.603	1	II					
35929.61	2782.399	1	II					
35934.10	2782.051	1	II					
35935.16	2781.969	1						
35938.06	2781.745	0						
35940.40	2781.564	1	II					
35942.15	2781.428	C						
35945.74	2781.150	1	II					
35947.23	2781.035	0	II					
35950.82	2780.757	C						
35951.90	2780.674	1						
35955.77	2780.374	10	I					
35961.85	2779.905	C Q	II					
35966.02	2779.582	10	II					
35977.33	2778.708	C						
35986.96	2777.965	0	II					

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	ODD-EVEN	
35990.00	2777.730	1	II							
35999.12	2777.026	C								
36017.98	2775.572	1	II							
36031.34	2774.543	10	II							
36034.66	2774.287	1	II							
36040.44	2773.842	3	II							
36056.41	2772.613	100	II	6.5	7.5				36884-	828
36058.91	2772.421	30	II							
36061.62	2772.213	C	II							
36065.06	2771.948	1	II							
36074.62	2771.214	10	II	8.5	7.5				36902-	828
36083.33	2770.545	1	I							
36085.16	2770.404	0								
36104.48	2768.922	1	II							
36124.85	2767.360	1	II							
36128.75	2767.062	0								
36136.10	2766.499	30	II							
36137.66	2766.379	10	II							
36142.70	2765.994	C	II							
36150.97	2765.361	1	II							
36152.77	2765.223	3	II							
36156.46	2764.940	10	II							
36162.95	2764.444	10	I							
36164.66	2764.314	1	II							
36166.50	2764.173	C	II							
36171.61	2763.782	1	II							
36173.39	2763.647	1	II							
36197.99	2761.769	3	I							
36208.70	2760.952	C	II							
36218.26	2760.223	0	II							
36227.56	2759.514	3	I							
36233.01	2759.099	1								
36247.99	2757.958	10	I							
36250.27	2757.785	0								
36252.05	2757.650	C								
36259.54	2757.080	10	II							
36260.16	2757.033	30	I							
36275.40	2755.815	1	II							
36277.08	2755.747	100	II							
36288.45	2754.883	10	I							
36288.62	2754.870	3	I							
36292.28	2754.592	10	II							
36302.64	2753.807	1	I							
36305.01	2753.626	3	II							
36305.64	2753.579	C	II							

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS GCC-EVEN
				J-C	J-E	G-C G-E TYPE	
36307.19	2753.461	0	II				
36309.94	2753.253	C	II				
36314.17	2752.932	C	II				
36316.37	2752.766	1C	I				
36323.85	2752.198	1C	II				
36325.59	2752.067	1	II				
36325.93	2752.041	C					
36327.71	2751.906	1					
36332.67	2751.530	1C	I				
36335.00	2751.354	1	II				
36338.90	2751.058	1	II				
36342.79	2750.764	1C	I				
36347.61	2750.399	C	II				
36350.48	2750.182	1	II				
36350.95	2750.147	C	I				
36359.70	2749.485	1C	II	7.5	7.5		37188- 828
36362.12	2749.301	3	II				
36363.13	2749.225	C	II				
36374.93	2748.333	C	II				
36377.87	2748.111	3	II				
36384.76	2747.591	30	I				
36385.57	2747.530	1	II				
36389.97	2747.197	1	II				
36394.52	2746.854	1	II				
36421.34	2744.831	1	II				
36429.66	2744.205	C	II				
36433.76	2743.895	1					
36436.76	2743.669	3	I				
36440.20	2743.411	1C	I				
36441.58	2743.276	3	I				
36463.61	2741.649	1	II				
36471.79	2741.034	1					
36476.24	2740.700	100	II				
36491.17	2739.578	0					
36494.89	2739.299	10	II				
36497.72	2739.087	3	II				
36507.22	2738.374	10	II				
36508.43	2738.283	0	II				
36518.54	2737.525	1	II				
36532.63	2736.469	0	II				
36534.00	2736.366	3	I				
36536.69	2736.165	1	II				
36537.50	2736.105	C	II				
36541.74	2735.787	1C	I				
36542.00	2735.768	1	II				

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS	
				J-C	J-E	G-C	G-E	TYPE
36546.71	2735.415	1	I					
36550.49	2735.132	1	II					
36554.60	2734.824	3	II					
36558.45	2734.536	1	II					
36564.90	2734.054	0	II					
36572.92	2733.455	0						
36576.50	2733.187	3	II					
36586.89	2732.411	0	II					
36589.96	2732.181	10	I					
36593.83	2731.743	1	II					
36608.43	2730.803	1	II					
36609.12	2730.751	1	II					
36618.29	2730.067	3	I					
36621.25	2729.847	1						
36625.86	2729.503	30	II					
36633.86	2728.907	1 0						
36651.77	2727.573	1	II					
36652.80	2727.497	0	II					
36657.24	2727.166	1	II					
36701.58	2723.871	1	II					
36719.72	2722.526	1	II					
36720.25	2722.486	0	II					
36722.91	2722.290	0	I					
36725.61	2722.089	0	II					
36729.54	2721.798	1	II					
36760.02	2719.541	1	II					
36762.81	2719.335	1	II					
36794.88	2716.964	1	II					
36802.28	2716.418	10	I					
36807.73	2716.015	0	II					
36853.82	2712.619	1	II					
36857.44	2712.352	1	I					
36874.19	2711.120	1	II					
36879.18	2710.753	0	II					
36881.03	2710.617	1	II					
36891.96	2709.814	1	II					
36894.56	2709.623	3	II					
36902.97	2709.006	3	II	8.5	8.5			36902= 0
36904.03	2708.928	0	II					
36906.29	2708.762	1	II					
36908.83	2708.576	1	II					
36922.03	2707.607	1	I					
36951.75	2705.430	0	I					
36964.58	2704.461	0	II					
36972.60	2703.903	1	I					

TABLE

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WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA		LEVELS	
				J-C	J-E	G-C	G-E
36999.45	2701.941	3	I				
37005.57	2701.494	C	II				
37032.64	2699.520	0	II				
37040.99	2698.911	3	I				
37073.83	2696.520	1	I				
37077.41	2696.260	1	II				
37080.81	2696.012	C	II				
37090.46	2695.311	C	I				
37094.09	2695.047	1	II				
37095.29	2694.960	C	II				
37113.86	2693.611	3	II	8.5	7.5		37942- 828
37115.93	2693.461	1C	I				
37120.43	2693.135	0					
37124.57	2692.834	3	II				
37135.81	2692.019	3	II				
37139.69	2691.739	1	II				
37173.24	2689.309	3	II				
37188.04	2688.238	3	II	7.5	8.5		37188- 0
37198.66	2687.471	1	I				
37201.18	2687.289	1	II				
37205.57	2686.971	C	II				
37240.86	2684.425	1	II				
37254.12	2683.470	0	II				
37270.04	2682.324	0	II				
37273.18	2682.097	1	II				
37282.41	2681.434	1	II				
37287.68	2681.055	1	II				
37288.52	2680.994	3	II				
37288.76	2680.977	1	II				
37294.69	2680.550	1	II				
37300.06	2680.164	1	II				
37301.88	2680.034	II	II	6.5	7.5		38130- 828
37304.27	2679.862	3	II				
37305.38	2679.782	1	II				
37309.79	2679.466	C	II				
37327.66	2678.182	0	II				
37336.78	2677.528	0					
37339.47	2677.336	1	II				
37346.38	2676.040	10	II				
37354.95	2676.226	3	II				
37355.15	2676.211	1	II				
37359.58	2675.866	1	II				
37365.76	2675.452	1	I				
37366.93	2675.368	3	I				
37376.78	2674.663	1	II				

TABLE

DY LINE LIST

PAGE 610

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	OCC	EVEN
37388.93	2673.794	0	II							
37405.05	2672.641	3	I							
37428.94	2670.936	C	II							
37438.31	2670.266	3	II							
37442.97	2669.934	3	I							
37458.58	2668.822	1	II							
37469.14	2668.070	3	II	6.5	7.5				38297-	828
37471.06	2667.933	100 R	I							
37477.58	2667.469	1	II							
37499.97	2665.876	1	II							
37508.57	2665.265	3	I							
37521.09	2664.375	C G	II							
37522.21	2664.296	0	I							
37523.65	2664.193	1	II							
37536.79	2663.261	1	I							
37549.15	2662.384	1	I							
37555.03	2661.967	C	II							
37569.91	2660.913	1	II							
37581.45	2660.096	1	II							
37587.59	2659.661	3	I							
37610.67	2658.029	3	I							
37623.13	2657.148	3	II							
37624.96	2657.019	1	II							
37635.26	2656.292	1	I							
37644.57	2655.635	0	I							
37646.28	2655.514	3	I	8.0	8.0				37646-	0
37654.70	2654.921	0								
37659.49	2654.583	1	II							
37661.76	2654.423	C								
37681.68	2653.020	1	II							
37691.43	2652.333	C	II							
37692.58	2652.253	1	II							
37702.25	2651.572	3	II							
37707.88	2651.177	1	II							
37710.85	2650.968	1	II							
37721.10	2650.247	1	I							
37751.22	2648.132	C								
37782.66	2645.929	1	II							
37790.98	2645.346	10	II							
37836.67	2642.151	1	II							
37862.94	2640.319	1	II							
37870.36	2639.801	1	II							
37870.64	2639.782	1	II							
37918.63	2636.440	1	II							
37930.59	2635.609	C	II	6.5	7.5				38758-	828

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA		LEVELS		
				J-C	J-E	G-C	G-E	TYPE
37942.21	2634.802	10	II	8.5	8.5		37942-	0
37945.60	2634.566	3	I					
37960.33	2633.544	0	II					
37975.73	2632.476	1	II	7.5	7.5		38804-	828
38000.49	2630.761	C	II					
38007.84	2630.252	C	II					
38012.39	2629.937	C						
38023.01	2629.202	0	II					
38024.24	2629.117	C						
38032.64	2628.537	C	I					
38057.22	2626.839	1	II					
38102.94	2623.687	1	I					
38110.42	2623.137	0	II					
38125.56	2622.130	C	I					
38147.14	2620.647	C	II					
38167.71	2619.234	3	II					
38186.18	2617.967	C	II					
38186.55	2617.942	1	II					
38193.46	2617.468	1	II					
38205.54	2616.640	1						
38229.42	2615.006	C	II					
38240.81	2614.227	10	I	6.0	7.0		42375-	4134
38251.55	2613.493	1	I	7.0	8.0		38251-	0
38268.25	2612.352	C	II					
38272.46	2612.065	C	II					
38290.64	2610.825	1	II					
38321.92	2608.694	3	II					
38342.51	2607.292	1	I					
38348.87	2606.860	1	I					
38358.93	2606.176	1	I					
38361.01	2606.035	1	II					
38362.67	2605.922	1	I	7.0	8.0		38362-	0
38374.22	2605.138	C	II					
38403.01	2603.184	1	II					
38405.61	2603.008	C	II					
38421.28	2601.947	1	I	7.0	8.0		38421-	0
38438.88	2600.755	3	II					
38447.70	2600.159	3	II					
38465.49	2598.956	3	II					
38476.05	2598.243	1	I					
38479.03	2598.042	1	II					
38495.99	2596.897	0	I					
38513.47	2595.718	C	II					
38522.21	2595.129	1	II					
38560.67	2592.541	3	II					

WAVE NUMBER	WAVE LENGTH	INT	SA	J-C	J-E	ZEEMAN DATA			LEVELS	
						G-C	G-E	TYPE	OCC	EVEN
38563.31	2592.364	1	I							
38564.93	2592.251	1	II							
38571.18	2591.834	1	II							
38571.47	2591.815	1	II							
38575.27	2591.559	1	II							
38630.73	2587.839	1	II							
38631.16	2587.810	1	II							
38665.53	2585.509	1	II							
38667.82	2585.356	1	I							
38668.11	2585.336	1	II							
38668.92	2585.282	0	II							
38669.88	2585.219	0	II							
38676.07	2584.803	0	I							
38691.04	2583.804	0	II							
38712.11	2582.398	0	II							
38748.66	2579.962	1	II							
38751.45	2579.776	0	II							
38753.94	2579.610	1	II							
38779.76	2577.893	1	I	7.0	8.0				38779-	0
38785.14	2577.535	0	II							
38814.52	2575.584	1	II							
38819.86	2575.230	0	II							
38826.97	2574.758	0	II							
38848.48	2573.334	1	II	8.5	7.5				38848-	828
38860.75	2572.520	1	II							
38879.97	2571.248	3	II	8.5	7.5				38879-	828
38913.35	2569.042	0	II							
38943.55	2567.050	1	I							
38950.53	2566.590	0	II							
38955.71	2566.248	3	II							
38986.69	2564.209	3	II							
38987.87	2564.132	1	II							
39004.04	2563.068	0	II							
39047.64	2560.207	3	II							
39082.20	2557.942	3	II	7.5	7.5				39082-	828
39135.32	2554.470	1	II							
39143.67	2553.925	1	I							
39167.46	2552.374	1	II							
39168.73	2552.291	1	II							
39191.57	2550.804	0	II							
39201.18	2550.178	1	II							
39251.69	2546.896	0	II							
39279.11	2545.119	3	II							
39290.73	2544.365	1	I							
39299.28	2543.812	3	II							

WAVE NUMBER	WAVE LENGTH	INT	SA	ZEEMAN DATA			LEVELS	
				J-C	J-E	G-C	G-E	TYPE
39325.87	2542.092	C	I					
39342.60	2541.011	3	II					
39414.59	2536.369	C	II					
39426.81	2535.583	1	II					
39471.60	2532.706	1	II					
39477.59	2532.321	3	II					
39520.82	2529.551	1	II					
39600.57	2524.457	0	II					
39602.42	2524.339	1						
39676.79	2519.607	0 Q	II	8.5	8.5			39676- 0
39683.25	2519.192	0	I					
39708.25	2517.610	3	II	8.5	8.5			39708- 0
39772.34	2513.553	3	II					
39810.03	2511.174	0 Q	II					
39823.67	2510.313	10	II					
39834.94	2509.604	1	II					
39885.65	2506.412	0 Q	II					
39910.55	2504.848	0	II	7.5	8.5			39910- 0
39997.62	2499.395	C	II					
40010.22	2498.608	C	II					
40026.80	2497.573	0	II					
40094.43	2493.360	0 Q	II					
40097.99	2493.138	0 Q	II					
40138.67	2490.611	1	II					
40170.89	2488.614	0	II					
40199.17	2486.863	0	II					
40215.69	2485.841	C	II					
40227.42	2485.117	1	II					
40260.31	2483.086	3	II					
40274.90	2482.187	C	II					
40295.29	2480.930	1	II					
40352.70	2477.401	0	II					
40434.52	2472.387	1	II					
40450.62	2471.403	1	II					
40557.38	2464.897	0	II					
40620.52	2461.065	1	II					
40638.28	2459.990	1	II					
40646.71	2459.480	0	II					
40718.39	2455.149	1	II					
40973.87	2439.840	1	II					
41022.73	2436.934	0	II					
41036.51	2436.115	1	II					

R REVERSED

B BLEND(SEE TEXT)

W WIDE

C QUESTIONABLE

* ASSUMED VALUE

A J NOT EQUAL TO J,CANNOT DETERMINE G1 RELATIVE TO G2

P PERTURBED

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