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WAVENUMBERS AND INTENSITIES OF CARBON
DIOXIDE ABSORPTION LINES BETWEEN 12 AND
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A Listing of Wavenumbers and Intensities of Carbon Dioxide Absorption Lines Between 12 and 20 μm

Technical Report

S. ROLAND DRAYSON

May 1973

National Aeronautics and Space Administration
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High Altitude Engineering Laboratory
Departments of Aerospace Engineering,
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ABSTRACT

A listing is given of the wavenumber, intensities at 300, 275, 250, 225, 200 and 175 K and energy of the lower state of CO₂ absorption lines between 12 and 20 μ m. They are ordered by wavenumber and include 19 bands of ¹²C ¹⁶O₂, 4 bands of ¹³C ¹⁶O₂, 2 bands of ¹²C ¹⁶O ¹⁸O and 1 band of ¹²C ¹⁶O ¹⁷O. The vibrational and rotational constants and the band intensities used to calculate the line parameters are tabulated.

The bands of carbon dioxide between 12 and 18 μm are important in the earth's atmosphere because of their influence on the radiative heat budget and also for applications of remote soundings experiments from satellites. Carbon dioxide is the most abundant gas in the atmospheres of Mars and Venus and these bands assume a dominant role in infrared radiative transfer. To understand the details of the radiative processes it is necessary to know the parameters of each individual absorption line. A listing of the parameters was published some years ago (Drayson and Young 1967) but we now have better estimates of some of the constants required to compute them, mostly obtained from laboratory spectra described by Chaney (1971). It seemed appropriate to issue a revised listing of the parameter to superceed the previous listing.

The main differences between this and the previous listing are:

- 1) Revised wavenumber of nearly all lines. In most cases the differences are small (less than 0.05 cm^{-1})
- 2) Revised intensities
- 3) Inclusion of additional bands (16-19).

Only bands which were observed in the laboratory spectra are included in the listing. (see Table 1) This excludes many of the very hot bands whose intensities and line positions have never been observed. It also excludes many of the isotopic bands. For most applications their contribution to the absorption is negligible, as they are either extremely weak bands or the lines lie in regions dominated by much more intense lines. An absolute cut-off of line intensity at 300 K of $1 \times 10^{-6} \text{ cm}^{-1} (\text{atm. cm})_{300\text{K}}^{-1}$ has been employed.

The vibrational and rotational constants used in the calculation of the line parameters are shown in Table 2. The partition functions were obtained by interpolation on the values of Gray and Young (1969) for each of the isotopes included. The intensities of isotopic molecular lines were multiplied by the isotopic abundance relative to $^{12}\text{C}^{16}\text{O}_2$ in air (Table 3).

Table 4 constitutes the bulk of this report and lists the lines parameters ordered by wavenumber. In this and other tables the units are cm^{-1} for wavenumbers and energies, while the intensities are in $\text{cm}^{-1}(\text{atm cm})_{300\text{K}}^{-1}$ for all six temperatures. The intensities may be converted to units $\text{cm}^{-1} / (\text{mol cm}^{-2})$ by dividing by 2.4465×10^{19} . The energy is that of the lower state of the transition and may be used to compute the temperature dependence of line intensities. The band code gives the isotope (left blank for the most abundant isotope), the band number from Table 1, the branch and rotational quantum number of the line. For example line 1069 at 622.375 cm^{-1} is P34 line of the (010:1) - (000:0) band of $^{13}\text{C}^{16}\text{O}_2$. The Lorentz half-width of the lines is not included in Table 4 since they will depend on the broadening gases. For self-broadening and nitrogen-broadening the values calculated by Yamamoto et. al. (1969) are recommended.

Details of the methods of calculation, derivation of the constants and discussion of estimates of errors are not shown here but will be given in a separate report (Drayson, 1973) and later submitted for journal publication.

REFERENCES

- Chaney, L. W. (1972) 'High Resolution Spectroscopic Measurements of Carbon Dioxide and Carbon Monoxide', University of Michigan Technical Report 036350-3-T.
- Drayson, S. R. (1973), University of Michigan Technical Report 036350-5-T (in preparation)
- Drayson, S. R. and C. Young (1967) 'The Frequencies and Intensities of Carbon Dioxide Absorption Lines Between 12 and 18 Microns' University of Michigan Technical Report 08183-1-T.
- Gray, C. D. and A. T. Young (1969), 'Relative Intensity Calculations for Carbon Dioxide-IV' J. Quant. Spectrosc. Radiat. Transfer 9, 569.
- Yamamoto, G., M. Tanaka and T. Aoki (1969) 'Estimates of Rotational Line Widths of Carbon Dioxide Bands.' J. Quant. Spectrosc. Radiat. Transfer, 9, 371.

TABLE 1

Band centers and intensities of CO₂ bands between 12 and 18 μ m. Band centers in cm⁻¹, intensities are at 300K in units cm⁻¹ (atm cm)⁻¹_{300K}.

Band	Upper	Lower	Isotope	Center	Intensity
1	010:1	000:00	626	667.381	194.0
2	(100:0)II	010:1	626	618.029	4.27
3	(100:0)I	010:1	626	720.805	5.0
4	020:2	010:1	626	667.751	15.0
5	(110:1)II	(100:0)II	626	647.063	0.7
6	(110:1)I	(100:0)II	626	791.446	0.022
7	(110:1)II	020:2	626	597.342	0.14
8	(110:1)I	020:2	626	741.724	0.144
9	030:3	020:2	626	668.107	0.85
10	(110:1)II	(100:0)I	626	544.288	0.01
11	(120:2)II	030:3	626	581.764	0.005
12	(120:2)I	030:3	626	757.465	0.006
13	(120:2)I	(110:1)II	626	828.230	.0007
14	(200:0)II	(110:1)II	626	738.672	.0035
15	(110:1)I	(100:0)I	626	688.670	0.3
16	(200:0)II	(110:1)I	626	594.290	.0036
17	(120:2)II	(110:1)II	626	652.529	.045
18	(200:0)I	(110:1)I	626	720.286	.005
19	(200:0)III	(110:1)II	626	615.887	.015

TABLE 1 (continued)

Band	Upper	Lower	Isotope	Center	Intensity
1	010:1	000:0	636	648.482	*
2	(100:0)II	010:1	636	617.345	*
3	(100:0)I	010:1	636	721.586	*
4	020:2	010:1	636	648.787	*
1	010:1	000:0	628	662.368	.*
2	(100:0)II	010:1	628	597.048	*
1	010:1	000:0	627	664.72	*

* intensities for isotopes are obtained by multiplying the 526 intensities by the relative abundancies of the isotopic species.

TABLE 2

Vibrational and rotational constants for CO₂. All units are cm⁻¹.

Isotope	Level	Vibrational Energy	B _c	B _d	Rotational Constants D _c	D _d
626	000:0	0.0	.3902196	.3902196	13.31 x 10 ⁻⁸	13.31 x 10 ⁻⁸
626	010:1	667.381	.3906393	.3912539	13.49 x 10 ⁻⁸	13.51 x 10 ⁻⁸
626	(100:0)I	1388.185	.3901878	.3901878	11.42 x 10 ⁻⁸	11.42 x 10 ⁻⁸
626	(100:0)II	1285.410	.3904812	.3904812	15.63 x 10 ⁻⁸	15.63 x 10 ⁻⁸
626	020:2	1335.131	.3916723	.3916646	13.97 x 10 ⁻⁸	13.64 x 10 ⁻⁸
626	(110:1)I	2076.855	.3904025	.3913282	12.28 x 10 ⁻⁸	11.81 x 10 ⁻⁸
626	(110:1)II	1932.473	.3907321	.3916753	14.37 x 10 ⁻⁸	15.26 x 10 ⁻⁸
626	030:3	2003.238	.3923879	.3923811	13.88 x 10 ⁻⁸	13.90 x 10 ⁻⁸
626	(200:0)I	2797.142	.3905965	.3905965	9.85 x 10 ⁻⁸	9.85 x 10 ⁻⁸
626	(200:0)II	2671.145	.3895473	.3895473	13.31 x 10 ⁻⁸	13.31 x 10 ⁻⁸
626	(200:0)III	2548.360	.3911099	.3911099	17.60 x 10 ⁻⁸	17.60 x 10 ⁻⁸
626	(120:2)I	2760.703	.3915213	.3915213	7.55 x 10 ⁻⁸	7.55 x 10 ⁻⁸
626	(120:2)II	2585.002	.3920212	.3920144	13.88 x 10 ⁻⁸	13.90 x 10 ⁻⁸
636	000:0*	0.0	.3902350	.3902350	13.10 x 10 ⁻⁸	13.10 x 10 ⁻⁸
636	010:1	648.482	.3905975	.3912357	12.90 x 10 ⁻⁸	12.93 x 10 ⁻⁸
636	(100:0)I	1370.067	.3897067	.3897067	11.60 x 10 ⁻⁸	11.60 x 10 ⁻⁸
636	(100:0)II	1265.826	.3909230	.3909230	16.03 x 10 ⁻⁸	16.03 x 10 ⁻⁸
636	020:2	1297.269	.3916147	.3916032	13.74 x 10 ⁻⁸	13.14 x 10 ⁻⁸
628	000:0*	0.0	.3681640	.3681640	11.10 x 10 ⁻⁸	11.10 x 10 ⁻⁸
628	010:1	662.368	.3685961	.3690720	12.08 x 10 ⁻⁸	10.35 x 10 ⁻⁸
628	(100:0)II	1259.416	.3681354	.3681354	16.01 x 10 ⁻⁸	16.01 x 10 ⁻⁸
627	000:0*	0.0	.3786410	.3786410	12.00 x 10 ⁻⁸	12.00 x 10 ⁻⁸
627	010:1	664.72	.3790620	.3796120	12.58 x 10 ⁻⁸	11.73 x 10 ⁻⁸

* constants for ground states of isotopic molecules from W. S. Benedict (private communication)

TABLE 3

Isotopic abundances relative to $^{12}\text{C}^{16}\text{O}_2$.

Molecule	Code	Relative abundance
$^{12}\text{C}^{16}\text{O}_2$	626	1.0
$^{13}\text{C}^{16}\text{O}_2$	636	1.12×10^{-2}
$^{12}\text{C}^{16}\text{O}^{18}\text{O}$	628	4.08×10^{-3}
$^{12}\text{C}^{16}\text{O}^{17}\text{O}$	627	7.42×10^{-4}

TABLE 4

Listing of line parameters for CO₂. Refer to text for units and for description of table.

LINE	BAND CODE	WAVELENGTH	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
1	10 P 60	499.120	1.060E-06	1.533E-07	9.247E-08	1.753E-08	2.133E-09	1.378E-10	2814.743
2	10 P 58	500.591	1.603E-06	5.562E-07	1.528E-07	3.073E-08	4.027E-09	2.861E-10	2722.071
3	10 P 56	502.063	2.386E-06	8.606E-07	2.478E-07	5.276E-08	7.425E-09	5.784E-10	2632.501
4	10 P 54	503.535	3.493E-06	1.308E-06	3.940E-07	8.867E-08	1.237E-08	1.138E-09	2546.036
5	10 P 52	505.008	5.032E-06	1.954E-06	6.147E-07	1.459E-07	2.351E-08	2.181E-09	2462.676
6	10 P 50	506.482	7.129E-06	2.867E-06	9.405E-07	2.349E-07	4.037E-08	4.065E-09	2382.422
7	10 P 48	507.958	9.936E-06	4.132E-06	1.411E-06	3.703E-07	6.776E-08	7.376E-09	2305.275
8	10 P 46	509.435	1.362E-05	5.848E-06	2.076E-06	5.710E-07	1.107E-07	1.302E-08	2231.438
9	10 P 44	510.914	1.833E-05	8.127E-06	2.994E-06	8.616E-07	1.768E-07	2.256E-08	2160.309
10	10 P 42	512.396	2.431E-05	1.109E-05	4.231E-06	1.272E-06	2.754E-07	3.735E-08	2092.492
11	10 P 40	513.879	3.165E-05	1.485E-05	5.861E-06	1.836E-06	4.186E-07	6.066E-08	2027.786
12	10 P 38	515.366	4.049E-05	1.931E-05	7.932E-06	2.591E-06	6.205E-07	9.579E-08	1966.193
13	10 P 36	516.855	5.088E-05	2.515E-05	1.057E-05	3.573E-06	8.968E-07	1.470E-07	1907.713
14	10 P 34	518.347	6.278E-05	3.179E-05	1.375E-05	4.816E-06	1.263E-06	2.192E-07	1852.347
15	10 P 32	519.842	7.604E-05	3.938E-05	1.750E-05	6.339E-06	1.734E-06	3.174E-07	1800.096
16	10 P 30	521.340	9.035E-05	4.781E-05	2.180E-05	8.146E-06	2.317E-06	4.460E-07	1750.961
17	10 P 28	522.842	1.053E-04	5.682E-05	2.654E-05	1.021E-05	3.013E-06	6.081E-07	1704.942
18	10 P 26	524.348	1.202E-04	6.608E-05	3.156E-05	1.248E-05	3.810E-06	8.036E-07	1662.041
19	10 P 24	525.857	1.342E-04	7.511E-05	3.663E-05	1.486E-05	4.681E-06	1.028E-07	1622.257
20	10 P 22	527.370	1.467E-04	8.337E-05	4.144E-05	1.720E-05	5.582E-06	1.273E-06	1582.591
21	10 P 20	528.887	1.564E-04	9.021E-05	4.562E-05	1.935E-05	6.449E-06	1.523E-06	1552.044
22	10 P 18	530.408	1.625E-04	9.496E-05	4.879E-05	2.110E-05	7.204E-06	1.755E-06	1521.616
23	10 P 16	531.933	1.660E-04	9.699E-05	5.055E-05	2.224E-05	7.761E-06	1.944E-06	1494.308
24	10 P 14	533.462	1.682E-04	9.572E-05	5.052E-05	2.257E-05	8.030E-06	2.062E-06	1470.119
25	10 P 12	534.996	1.505E-04	9.074E-05	4.842E-05	2.193E-05	7.931E-06	2.081E-06	1449.052
26	10 P 10	536.534	1.346E-04	8.183E-05	4.407E-05	2.019E-05	7.406E-06	1.979E-06	1431.104
27	10 P 8	538.076	1.128E-04	6.901E-05	3.745E-05	1.732E-05	6.429E-06	1.764E-06	1416.278
28	11 P 53	539.243	1.143E-06	3.318E-07	7.363E-08	1.141E-08	1.081E-09	5.065E-11	3125.115
29	10 P 6	539.622	8.555E-05	5.258E-05	2.871E-05	1.337E-05	5.011E-06	1.376E-06	1404.573
30	7 P 68	539.883	1.244E-06	3.341E-07	7.678E-08	1.157E-08	1.057E-09	4.730E-11	3169.782
31	11 P 52	540.062	1.373E-06	4.059E-07	9.207E-08	1.468E-08	1.435E-09	7.015E-11	3083.585
32	11 P 51	540.879	1.641E-06	4.944E-07	1.145E-07	1.871E-08	1.893E-09	9.648E-11	3042.875
33	10 P 4	541.173	5.367E-05	3.311E-05	1.816E-05	8.504E-06	3.208E-06	8.885E-07	1395.989
34	7 P 66	541.695	2.012E-06	1.374E-07	1.374E-07	2.214E-08	2.201E-09	1.071E-10	3064.374
35	11 P 50	541.697	1.958E-06	5.996E-07	1.418E-07	2.377E-08	2.482E-09	1.318E-10	3002.906
36	11 P 49	542.512	2.324E-06	7.239E-07	1.748E-07	3.003E-08	3.236E-09	1.789E-10	2963.755
37	10 P 2	542.728	1.843E-05	1.140E-05	6.266E-06	2.945E-06	1.116E-06	3.137E-07	1390.526
38	11 P 48	543.429	2.748E-06	8.702E-07	2.144E-07	3.775E-08	4.193E-09	2.412E-10	2925.350
39	7 P 64	543.498	3.204E-06	9.886E-07	2.413E-07	4.151E-08	4.477E-09	2.480E-10	2462.070
40	11 P 47	544.144	3.235E-06	1.041E-06	2.616E-07	4.718E-08	5.401E-09	3.229E-10	2867.759
41	10 Q 2	544.297	9.247E-05	5.717E-05	3.144E-05	1.477E-05	5.596E-06	1.550E-06	1390.526
42	10 Q 4	544.318	1.621E-04	1.000E-04	5.484E-05	2.568E-05	9.684E-06	2.682E-06	1395.989
43	10 Q 6	544.351	2.248E-04	1.381E-04	7.539E-05	3.511E-05	1.315E-05	3.610E-06	1404.573
44	10 Q 8	544.395	2.779E-04	1.699E-04	9.218E-05	4.260E-05	1.581E-05	4.288E-06	1410.278
45	10 Q 10	544.451	3.198E-04	1.943E-04	1.046E-04	4.787E-05	1.756E-05	4.690E-06	1431.104

LINE	BAND CODE	WAVENUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
46	10 Q 12	544.519	3.499E-04	2.106E-04	1.123E-04	5.082E-05	1.837E-05	4.818E-06	1449.052
47	10 Q 14	544.599	3.664E-04	2.188E-04	1.156E-04	5.153E-05	1.832E-05	4.700E-06	1470.119
48	10 Q 16	544.690	3.713E-04	2.194E-04	1.143E-04	5.024E-05	1.752E-05	4.385E-06	1494.308
49	7 P 67	544.755	1.599E-06	4.658E-07	1.038E-07	1.617E-08	1.541E-09	7.885E-11	3116.723
50	10 Q 18	544.792	3.653E-04	2.133E-04	1.093E-04	4.732E-05	1.614E-05	3.728E-06	1521.616
51	10 Q 20	544.706	3.499E-04	2.016E-04	1.019E-04	4.317E-05	1.437E-05	3.390E-06	1552.044
52	11 P 46	544.900	3.793E-06	1.241E-06	6.917E-07	5.867E-08	6.917E-09	4.294E-10	4850.917
53	10 Q 22	545.031	3.271E-04	1.857E-04	9.221E-05	3.824E-05	1.240E-05	2.825E-06	1585.591
54	10 R 0	545.070	3.747E-05	2.310E-05	1.277E-05	6.007E-06	2.280E-06	6.364E-07	1388.185
55	10 Q 24	545.167	2.988E-04	1.670E-04	8.133E-05	3.255E-05	1.037E-05	2.276E-06	1672.257
56	7 P 62	545.295	5.023E-06	1.634E-06	4.159E-07	7.622E-08	8.899E-09	5.457E-10	4862.671
57	10 Q 26	545.313	2.671E-04	1.467E-04	6.999E-05	2.764E-05	8.628E-06	1.776E-06	1662.041
58	10 Q 28	545.418	2.340E-04	1.261E-04	5.882E-05	2.260E-05	6.659E-06	1.342E-06	1704.942
59	10 Q 30	545.638	2.009E-04	1.061E-04	4.832E-05	1.803E-05	5.120E-06	9.844E-07	1750.461
60	11 P 45	545.773	4.429E-06	1.471E-06	3.840E-07	7.256E-08	8.803E-09	5.671E-10	2614.886
61	10 Q 32	545.816	1.692E-04	8.748E-05	3.882E-05	1.404E-05	3.832E-06	7.006E-07	1800.096
62	10 Q 34	546.004	1.398E-04	7.068E-05	3.052E-05	1.067E-05	2.795E-06	4.841E-07	1852.347
63	10 Q 36	546.201	1.135E-04	5.600E-05	2.349E-05	7.928E-06	1.986E-06	3.250E-07	1907.713
64	7 P 65	546.341	2.565E-06	7.817E-07	1.839E-07	3.062E-08	3.171E-09	1.667E-10	3012.461
65	10 Q 38	546.408	9.047E-05	4.352E-05	1.770E-05	5.755E-06	1.376E-06	2.121E-07	1966.193
66	11 P 44	546.588	5.150E-06	1.738E-06	4.618E-07	8.926E-08	1.114E-08	7.440E-10	2779.608
67	10 Q 40	546.624	7.086E-05	3.318E-05	1.307E-05	4.085E-06	9.298E-07	1.349E-07	2072.786
68	10 R 2	546.636	7.436E-05	4.597E-05	2.527E-05	1.187E-05	4.497E-06	1.252E-06	1390.526
69	10 Q 42	546.849	5.455E-05	2.483E-05	9.455E-06	2.834E-06	6.128E-07	8.294E-08	2042.492
70	10 Q 44	547.083	4.128E-05	1.824E-05	6.704E-06	1.925E-06	3.941E-07	4.975E-08	2160.309
71	7 P 60	547.084	7.749E-06	2.629E-06	7.034E-07	1.371E-07	1.728E-08	1.170E-09	2766.740
72	10 Q 46	547.324	3.071E-05	1.316E-05	4.660E-06	1.274E-06	2.474E-07	2.903E-08	2231.238
73	11 P 43	547.400	5.963E-06	2.042E-06	5.527E-07	1.092E-07	1.401E-08	9.692E-10	2745.139
74	10 Q 48	547.574	2.247E-05	9.323E-06	3.178E-06	8.312E-07	1.515E-07	1.648E-08	2305.275
75	10 Q 50	547.831	1.617E-05	6.487E-06	2.122E-06	5.287E-07	9.063E-08	9.105E-09	2382.422
76	7 P 63	547.925	4.051E-06	1.290E-06	3.198E-07	5.679E-08	6.374E-09	3.715E-10	4912.105
77	10 Q 52	548.096	1.145E-05	4.434E-06	1.391E-06	3.292E-07	5.292E-08	4.896E-09	2462.676
78	10 R 4	548.206	1.090E-04	6.724E-05	3.684E-05	1.725E-05	6.506E-06	1.801E-06	1395.984
79	11 P 42	548.213	6.877E-06	2.390E-06	6.582E-07	1.329E-07	1.751E-08	1.254E-09	2711.425
80	10 Q 54	548.367	7.972E-06	2.978E-06	8.942E-07	2.006E-07	3.017E-08	2.562E-09	2546.036
81	10 Q 56	548.645	5.463E-06	1.965E-06	5.646E-07	1.197E-07	1.680E-08	1.305E-09	2632.501
82	16 P 55	548.796	1.079E-06	2.930E-07	5.998E-08	8.427E-09	7.059E-10	2.825E-11	3278.130
83	7 P 58	548.865	1.177E-05	4.156E-06	1.167E-06	2.414E-07	3.278E-08	2.441E-09	2673.798
84	10 Q 58	548.928	3.683E-06	1.274E-06	3.489E-07	6.995E-08	9.399E-09	6.476E-10	2722.071
85	11 P 41	549.025	7.896E-06	2.784E-06	7.800E-07	1.608E-07	2.175E-08	1.612E-09	2678.514
86	10 Q 60	549.218	2.444E-06	8.118E-07	2.118E-07	4.002E-08	4.855E-09	3.128E-10	2614.743
87	7 P 61	549.306	6.296E-06	2.092E-06	5.459E-07	1.022E-07	1.252E-08	8.066E-10	2614.455
88	10 Q 62	549.512	1.596E-06	5.084E-07	1.262E-07	2.242E-08	2.520E-09	1.471E-10	2910.517
89	10 R 6	549.781	1.400E-04	8.600E-05	4.692E-05	2.184E-05	8.180E-06	2.245E-06	1404.573
90	10 Q 64	549.811	1.026E-06	3.130E-07	7.376E-08	1.230E-08	1.278E-09	6.736E-11	3009.341

LINE	BAND CODE	WAVENUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
91	11 P 40	549.837	9.030E-06	3.228E-06	9.198E-07	1.935E-07	2.686E-08	2.057E-09	2666.365
92	2 P 61	549.976	1.088E-06	3.039E-07	1.957E-07	6.015E-08	1.340E-08	1.886E-09	2054.671
93	16 P 51	550.544	1.570E-06	4.422E-07	9.463E-08	1.404E-08	1.258E-09	5.495E-11	3193.182
94	7 P 56	550.639	1.758E-05	6.458E-06	1.901E-06	4.163E-07	6.073E-08	4.959E-09	2583.925
95	11 P 39	550.647	1.028E-05	3.726E-06	1.079E-06	2.317E-07	3.296E-08	2.607E-09	2615.026
96	2 P 60	550.797	1.330E-06	6.280E-07	2.497E-07	7.898E-08	1.824E-08	2.684E-09	2004.812
97	7 P 59	551.085	9.632E-06	3.355E-06	9.142E-07	1.835E-07	2.401E-07	1.705E-09	2719.914
98	10 R 8	551.360	1.660E-04	1.015E-04	5.501E-05	2.542E-05	9.429E-06	2.556E-06	1416.278
99	2 P 83	551.422	1.285E-06	3.330E-07	6.449E-08	8.464E-09	6.512E-10	2.336E-11	3384.360
100	11 P 38	551.458	1.166E-05	4.281E-06	1.260E-06	2.758E-07	4.021E-08	3.282E-09	2584.442
101	2 P 59	551.616	1.620E-06	7.794E-07	3.172E-07	1.032E-07	2.468E-08	3.805E-09	1965.685
102	11 P 37	552.267	1.316E-05	4.896E-06	1.463E-06	3.265E-07	4.875E-08	4.102E-09	2554.661
103	16 P 51	552.286	2.247E-06	6.595E-07	1.465E-07	2.290E-08	2.191E-09	1.040E-10	3111.334
104	7 P 54	552.406	2.585E-05	9.881E-06	3.037E-06	7.030E-07	1.099E-07	9.811E-09	2497.165
105	2 P 58	552.432	1.965E-06	9.634E-07	4.011E-07	1.341E-07	3.321E-08	5.355E-09	1922.490
106	7 P 57	552.663	1.450E-05	5.224E-06	1.502E-06	3.197E-07	4.500E-08	3.510E-09	2628.483
107	10 R 10	552.943	1.862E-04	1.130E-04	6.082E-05	2.783E-05	1.050E-05	2.724E-06	1431.104
108	11 P 36	553.076	1.479E-05	5.574E-06	1.691E-06	3.844E-07	5.874E-08	5.092E-09	2525.643
109	2 P 81	553.108	2.330E-06	6.384E-07	1.322E-07	1.883E-08	1.605E-09	6.569E-11	3256.055
110	2 P 57	553.246	2.374E-06	1.186E-06	5.049E-07	1.735E-07	4.445E-08	7.487E-09	1879.627
111	11 P 35	553.884	1.656E-05	6.315E-06	1.945E-06	4.500E-07	7.033E-08	6.276E-09	2497.427
112	16 P 49	554.019	3.164E-06	9.556E-07	2.224E-07	3.655E-08	3.724E-09	1.918E-10	3032.605
113	2 P 56	554.058	2.858E-06	1.454E-06	6.326E-07	2.233E-07	5.916E-08	1.040E-08	1837.696
114	7 P 52	554.165	3.740E-05	1.479E-05	4.780E-06	1.162E-06	1.942E-07	1.890E-08	2413.519
115	7 P 55	554.239	2.149E-05	8.043E-06	2.422E-06	5.453E-07	8.237E-08	7.035E-09	2540.164
116	10 R 12	554.530	2.003E-04	1.205E-04	6.420E-05	2.904E-05	1.049E-05	2.750E-06	1449.052
117	11 P 34	554.692	1.845E-05	7.122E-06	2.225E-06	5.239E-07	8.369E-08	7.682E-09	2469.975
118	2 P 79	554.786	4.159E-06	1.203E-06	2.691E-07	4.106E-08	3.868E-09	1.800E-10	3130.833
119	628	554.868	3.427E-06	1.775E-06	7.891E-07	2.860E-07	7.829E-08	1.436E-08	1796.498
120	11 P 33	555.499	2.047E-05	7.931E-06	2.532E-06	6.064E-07	9.896E-08	9.336E-09	2443.323
121	2 P 54	555.675	1.094E-06	2.158E-06	9.799E-07	3.644E-07	1.030E-07	1.970E-08	1756.633
122	16 P 47	555.745	4.382E-06	1.368E-06	3.311E-07	5.710E-08	6.181E-09	3.439E-10	2956.979
123	7 P 53	555.814	3.133E-05	1.217E-05	3.831E-06	9.108E-07	1.473E-07	1.373E-08	2454.958
124	7 P 50	555.917	5.323E-05	2.181E-05	7.318E-06	1.881E-06	3.552E-07	3.542E-08	2322.967
125	10 R 14	556.121	2.073E-04	1.237E-04	6.520E-05	2.910E-05	1.034E-05	2.651E-06	1470.119
126	11 P 32	556.306	2.261E-05	8.929E-06	2.867E-06	6.981E-07	1.103E-07	1.127E-08	2417.438
127	2 P 77	556.458	7.311E-06	2.231E-06	5.257E-07	8.771E-08	9.108E-09	4.806E-10	3008.694
128	628	556.480	4.872E-06	2.613E-06	1.211E-06	4.620E-07	1.348E-07	2.686E-08	1716.301
129	11 P 31	557.111	2.487E-05	9.926E-06	3.229E-06	7.589E-07	1.358E-07	1.350E-08	2392.350
130	628	557.284	5.775E-06	3.150E-06	1.490E-06	5.828E-07	1.755E-07	3.638E-08	1677.302
131	7 P 51	557.387	4.694E-05	1.809E-05	5.945E-06	1.489E-06	2.571E-07	2.671E-08	2372.866
132	16 P 45	557.464	5.968E-06	1.922E-06	4.834E-07	8.731E-08	1.001E-08	6.002E-10	2884.462
133	7 P 48	557.662	7.654E-05	3.158E-05	1.104E-05	2.980E-06	5.650E-07	6.403E-08	2255.571
134	10 R 16	557.716	2.564E-04	1.230E-04	6.403E-05	2.813E-05	9.801E-06	2.452E-06	1494.308
135	11 P 30	557.917	2.722E-05	1.098E-05	3.618E-06	9.092E-07	1.575E-07	1.600E-08	2328.033

LINE	BAND CODE	WAVE NUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
136	628	2 P 51	6.819E-06	3.782E-06	1.826E-06	7.315E-07	2.271E-07	4.897E-08	1634.035
137		2 P 75	1.265E-05	4.067E-06	1.020E-06	1.833E-07	2.097E-08	1.250E-09	2889.642
138		11 P 49	2.566E-05	1.209E-05	4.036E-06	1.029E-06	1.816E-07	1.896E-08	2344.511
139	628	2 P 50	8.021E-06	4.522E-06	2.246E-06	9.134E-07	2.942E-07	6.548E-08	1601.503
140		7 P 49	6.341E-05	2.642E-05	9.048E-06	2.384E-06	4.383E-07	4.821E-08	2453.840
141		16 P 43	7.993E-06	2.693E-06	6.918E-07	1.506E-07	1.583E-08	1.619E-09	2815.057
142		10 R 18	2.038E-04	1.189E-04	6.098E-05	2.633E-05	8.976E-06	2.183E-06	1521.616
143		7 P 46	1.027E-04	4.492E-05	1.632E-05	4.620E-06	9.235E-07	1.148E-07	2181.273
144		11 P 28	3.218E-05	1.325E-05	4.470E-06	1.157E-06	2.080E-07	2.223E-08	2321.760
145	628	2 P 49	9.358E-06	5.384E-06	2.701E-06	1.135E-06	3.739E-07	8.701E-08	1564.704
146		2 P 73	2.156E-05	7.289E-06	1.942E-06	3.764E-07	4.716E-08	3.168E-09	2775.677
147		11 P 27	5.603E-05	1.444E-05	3.429E-06	1.294E-06	2.267E-07	2.587E-08	2499.804
148	628	2 P 48	1.097E-05	6.382E-06	3.263E-06	1.493E-06	4.756E-07	1.149E-07	1528.638
149		7 P 47	8.803E-05	3.791E-05	1.351E-05	3.735E-06	7.296E-07	8.676E-08	2218.032
150		16 P 41	1.052E-05	3.595E-06	9.704E-07	1.911E-07	2.443E-08	1.683E-09	2748.764
151		10 R 20	1.944E-04	1.119E-04	5.650E-05	2.392E-05	7.956E-06	1.875E-06	1552.644
152		7 P 44	1.341E-04	6.277E-05	2.368E-05	7.011E-06	1.493E-06	1.983E-07	2110.094
153		3.734E-05	1.968E-05	1.438E-06	1.438E-06	2.676E-07	2.989E-08	2.278E-09	2278.621
154	628	2 P 47	1.275E-05	7.534E-06	3.923E-06	1.725E-06	6.017E-07	1.507E-07	1493.306
155		2 P 71	5.614E-05	1.284E-05	3.630E-06	7.563E-07	1.037E-07	7.820E-09	2660.803
156		11 P 25	3.994E-05	1.690E-05	5.893E-06	1.589E-06	3.005E-07	3.428E-08	2258.232
157	628	2 P 46	1.476E-05	8.855E-06	4.696E-06	2.111E-06	7.568E-07	1.964E-07	1458.708
158		7 P 45	5.621E-05	3.42E-05	1.977E-05	5.728E-06	1.184E-06	1.519E-07	2145.242
159		10 R 22	1.812E-04	1.028E-04	5.048E-05	2.112E-05	6.840E-06	1.557E-06	1585.591
160		16 P 39	5.62577	4.782E-06	1.334E-06	2.736E-07	3.677E-08	2.703E-09	2685.584
161		11 P 24	5.62735	1.814E-05	6.394E-06	1.745E-06	3.352E-07	3.901E-08	2238.617
162	628	2 P 45	1.702E-05	1.036E-05	5.594E-06	2.570E-06	9.465E-07	2.543E-07	1424.844
163		7 P 42	1.852E-04	8.611E-05	3.364E-05	1.041E-05	2.340E-06	3.333E-07	2042.036
164		2 P 69	5.976E-05	2.225E-05	6.608E-06	1.488E-06	2.248E-07	1.881E-08	2551.021
165		11 P 23	4.503E-05	1.937E-05	6.895E-06	1.904E-06	3.714E-07	4.407E-08	2219.754
166	628	2 P 44	1.955E-05	1.208E-05	6.632E-06	3.112E-06	1.177E-06	3.271E-07	1391.715
167		7 P 43	1.614E-04	7.394E-05	2.839E-05	8.594E-06	1.881E-06	2.588E-07	2075.677
168		10 R 24	1.652E-04	9.222E-05	4.486E-05	1.816E-05	5.704E-06	1.252E-06	1622.257
169		16 P 37	1.732E-05	6.243E-06	1.797E-06	3.828E-07	5.398E-08	4.221E-09	2625.514
170		11 P 42	4.747E-05	2.038E-05	7.394E-06	2.066E-06	4.087E-07	4.540E-08	2201.748
171	628	2 P 43	2.237E-05	1.401E-05	7.826E-06	3.749E-06	1.455E-06	4.181E-07	1359.320
172		7 P 40	2.426E-04	1.160E-04	4.687E-05	1.512E-05	3.580E-06	5.450E-07	1977.098
173		2 P 67	9.718E-05	3.791E-05	1.200E-05	2.870E-06	4.677E-07	4.405E-08	2444.333
174		11 P 21	5.65134	4.978E-05	7.883E-06	2.227E-06	4.467E-07	5.490E-08	2184.492
175	628	2 P 42	2.549E-05	1.619E-05	9.191E-06	4.492E-06	1.788E-06	5.308E-07	1327.659
176		7 P 41	2.131E-04	1.005E-04	3.993E-05	1.262E-05	2.912E-06	4.284E-07	2009.173
177		10 R 26	1.475E-04	8.092E-05	3.853E-05	1.521E-05	4.632E-06	9.749E-07	1662.041
178		11 P 20	5.65933	2.285E-05	8.356E-06	2.385E-06	4.848E-07	6.068E-08	2166.014
179		16 P 35	5.65950	7.985E-06	2.370E-06	5.237E-07	7.728E-08	6.407E-09	2568.568
180	636	2 P 67	1.093E-06	4.305E-07	1.378E-07	3.341E-08	5.535E-09	5.322E-10	2425.367

LINE	BAND CODE	WAVENUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
181	026	2 P 41	2.892E-05	1.862E-05	1.074E-05	5.355E-06	2.185E-06	6.695E-07	1256.732
182		7 P 38	3.123E-04	1.534E-04	6.401E-05	2.148E-05	5.342E-06	8.667E-07	1915.283
183		2 P 65	1.555E-04	6.347E-05	2.120E-05	5.419E-06	9.594E-07	1.005E-07	2340.740
184		11 P 19	5.391E-05	2.188E-05	8.804E-06	2.518E-06	5.224E-07	6.642E-08	2152.320
185	028	2 P 40	3.269E-05	2.132E-05	1.250E-05	6.151E-06	2.654E-06	8.390E-07	1266.541
186		7 P 39	2.766E-04	1.341E-04	5.507E-05	1.812E-05	4.398E-06	6.915E-07	1945.796
187		10 R 28	1.291E-04	6.950E-05	3.237E-05	1.242E-05	3.656E-06	7.362E-07	1704.942
188	036	2 P 65	1.749E-04	7.208E-07	2.635E-07	6.308E-08	1.135E-08	1.214E-09	2341.772
189		11 P 18	5.566E-05	2.482E-05	9.220E-06	2.683E-06	5.589E-07	7.217E-08	2157.416
190	028	2 P 39	3.679E-05	2.430E-05	1.447E-05	7.492E-06	3.205E-06	1.044E-06	1237.084
191		16 P 33	2.655E-05	1.004E-05	3.062E-06	7.002E-07	1.079E-07	9.449E-09	2514.132
192		7 P 36	3.951E-04	1.991E-04	8.566E-05	2.984E-05	7.777E-06	1.540E-06	1856.591
193		2 P 63	2.451E-04	1.045E-04	3.678E-05	1.002E-05	1.923E-06	2.254E-07	2240.245
194		11 P 17	5.715E-05	2.564E-05	9.595E-06	2.818E-06	5.935E-07	7.775E-08	2133.246
195	028	2 P 38	4.124E-05	2.758E-05	1.667E-05	8.790E-06	3.848E-06	1.291E-06	1208.362
196		7 P 37	3.549E-04	1.756E-04	7.443E-05	2.545E-05	6.481E-06	1.084E-06	1855.542
197		10 R 30	1.108E-04	5.846E-05	2.658E-05	9.905E-06	2.809E-06	5.395E-07	1750.961
198	036	2 P 63	2.755E-04	1.186E-04	4.223E-07	1.167E-07	2.275E-08	2.697E-09	2221.274
199	028	2 P 37	4.602E-05	3.116E-05	1.911E-05	1.026E-05	4.593E-06	1.586E-06	1180.375
200		11 P 16	5.836E-05	2.933E-05	9.923E-06	2.939E-06	6.257E-07	8.509E-08	2109.956
201		16 P 31	3.198E-05	1.234E-05	3.872E-06	9.144E-07	1.467E-07	1.354E-08	2464.014
202		19 P 61	1.338E-06	3.428E-07	6.550E-08	8.458E-09	6.378E-10	2.231E-11	3408.166
203		2 P 61	3.801E-04	1.690E-04	6.262E-05	1.816E-05	3.765E-06	4.834E-07	2142.849
204		7 P 34	4.911E-04	2.535E-04	1.123E-04	4.032E-05	1.104E-05	2.014E-06	1801.023
205	028	2 P 36	5.115E-05	3.504E-05	2.180E-05	1.191E-05	5.448E-06	1.935E-06	1153.124
206		11 P 15	5.925E-05	2.688E-05	1.020E-05	3.044E-06	6.545E-07	8.805E-08	2097.403
207		7 P 35	4.425E-04	2.257E-04	9.855E-05	3.495E-05	9.316E-06	1.622E-06	1828.412
208	036	2 P 61	4.272E-06	1.919E-06	7.188E-07	2.114E-07	4.454E-08	5.836E-09	2123.877
209		10 R 32	9.332E-05	4.815E-05	2.136E-05	7.711E-06	2.103E-06	3.639E-07	1800.096
210	028	2 P 35	5.641E-05	3.923E-05	2.474E-05	1.375E-05	6.424E-06	2.344E-06	1126.607
211		11 P 14	5.981E-05	2.715E-05	1.041E-05	3.131E-06	6.795E-07	9.251E-08	2085.632
212		19 P 59	2.042E-06	5.450E-07	1.094E-07	1.500E-08	1.220E-09	4.701E-11	3113.864
213		16 P 29	3.780E-05	1.492E-05	4.789E-06	1.166E-06	1.943E-07	1.883E-08	2416.413
214		2 P 59	5.801E-04	2.688E-04	3.222E-05	3.222E-05	7.202E-06	1.019E-06	2048.553
215		7 P 32	5.996E-04	3.167E-04	1.441E-04	5.379E-05	1.528E-05	2.942E-06	1768.581
216	028	2 P 34	6.238E-05	4.372E-05	2.794E-05	1.578E-05	7.530E-06	2.821E-06	1100.826
217		7 P 33	5.450E-04	2.465E-04	1.278E-04	4.691E-05	1.306E-05	2.448E-06	1774.407
218		11 P 13	6.001E-05	3.749E-05	1.055E-05	3.156E-06	6.998E-07	9.635E-08	2074.668
219	036	2 P 59	6.519E-06	3.051E-06	1.201E-06	3.748E-07	8.516E-08	1.230E-08	2624.581
220		10 R 34	7.177E-05	3.895E-05	1.679E-05	5.864E-06	1.533E-06	2.653E-07	1852.347
221		11 P 12	5.983E-05	2.753E-05	1.062E-05	3.239E-06	7.149E-07	9.947E-08	2064.446
222		19 P 57	3.067E-06	8.517E-07	1.793E-07	2.006E-08	2.279E-09	9.644E-11	3222.662
223		16 P 27	4.382E-05	1.763E-05	5.193E-06	1.451E-06	2.505E-07	2.541E-08	2371.929
224		2 P 57	5.728E-04	4.201E-04	1.714E-04	5.597E-05	1.346E-05	2.090E-06	1957.360
225	028	2 P 32	7.477E-05	5.353E-05	3.211E-05	2.047E-05	1.015E-05	4.003E-06	1051.471

LINE	BAND CODE	NUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
226	7 P 30	573.036	7.188E-04	3.51E-04	1.812E-04	8.976E-05	2.062E-05	4.174E-06	1699.265
227	7 P 31	573.037	6.592E-04	3.51E-04	1.812E-04	8.976E-05	2.062E-05	4.174E-06	1743.528
228	11 P 11	573.038	5.928E-05	2.739E-05	1.062E-05	3.257E-06	7.243E-07	1.018E-07	2055.031
229	636	573.632	9.790E-06	4.766E-06	1.967E-06	6.511E-07	1.591E-07	2.523E-08	1938.387
230	623	573.747	8.131E-05	5.882E-05	3.905E-05	2.311E-05	1.168E-05	4.718E-06	1027.897
231	19 P 55	573.839	4.532E-06	1.308E-06	2.882E-07	4.433E-08	4.159E-09	1.527E-10	1134.564
232	10 R 36	573.846	6.267E-05	3.088E-05	1.293E-05	4.358E-06	1.090E-06	1.782E-07	1907.713
233	11 P 10	573.884	5.835E-05	2.706E-05	1.054E-05	3.250E-06	7.278E-07	1.031E-07	2046.399
234	16 P 25	574.260	4.979E-05	2.040E-05	6.847E-06	1.761E-06	3.141E-07	3.425E-08	4330.565
235	2 P 55	574.490	1.288E-03	6.492E-04	2.757E-04	9.522E-05	2.458E-05	4.176E-06	1869.270
236	628	574.515	8.863E-05	6.431E-05	4.321E-05	2.594E-05	1.336E-05	5.522E-06	1005.058
237	7 P 29	574.637	7.829E-04	4.267E-04	2.018E-04	7.884E-05	2.374E-05	4.925E-06	1675.776
238	11 P 9	574.675	5.705E-05	2.655E-05	1.038E-05	3.218E-06	7.250E-07	1.036E-07	2038.552
239	7 P 28	574.708	8.459E-04	4.656E-04	2.228E-04	8.835E-05	2.709E-05	5.752E-06	1653.077
240	636	575.155	1.447E-05	7.319E-06	3.163E-06	1.107E-06	2.904E-07	5.039E-08	1850.299
241	628	575.281	9.486E-05	6.997E-05	4.756E-05	2.896E-05	1.518E-05	6.418E-06	982.955
242	11 P 53	575.351	6.590E-06	1.973E-06	4.547E-07	7.382E-08	7.413E-09	3.747E-10	3069.571
243	11 P 8	575.465	5.542E-05	2.587E-05	1.015E-05	3.161E-06	7.162E-07	1.031E-07	2031.469
244	10 R 38	575.473	5.000E-05	2.401E-05	9.752E-06	3.166E-06	7.557E-07	1.163E-07	1966.194
245	16 P 23	575.902	5.540E-05	2.308E-05	7.902E-06	2.082E-06	3.830E-07	4.215E-08	2492.320
246	2 P 28	576.046	1.018E-04	7.565E-05	5.207E-05	3.214E-05	1.713E-05	7.406E-06	961.588
247	2 P 53	576.103	1.873E-03	9.737E-04	4.349E-04	1.584E-04	4.378E-05	8.123E-06	1784.285
248	7 P 27	576.202	9.123E-04	5.070E-04	2.454E-04	9.867E-05	3.079E-05	6.865E-06	1631.152
249	11 P 7	576.255	5.349E-05	2.504E-05	9.898E-06	3.081E-06	7.017E-07	1.016E-07	2029.212
250	7 P 26	576.372	9.765E-04	5.477E-04	2.680E-04	1.092E-04	1.466E-05	7.692E-06	1610.016
251	636	576.677	2.104E-05	1.104E-05	4.989E-06	1.844E-06	5.175E-07	9.800E-08	1765.115
252	628	576.811	1.086E-04	8.161E-05	5.669E-05	3.546E-05	1.922E-05	8.484E-06	940.958
253	19 P 51	576.862	4.428E-06	2.425E-06	7.035E-07	1.204E-07	1.290E-08	7.093E-10	2967.684
254	11 P 6	577.044	5.134E-05	2.409E-05	9.511E-06	2.983E-06	6.823E-07	9.937E-08	2019.718
255	10 R 40	577.102	3.921E-05	1.833E-05	7.206E-06	2.249E-06	5.110E-07	7.381E-08	2027.786
256	16 P 21	577.536	6.030E-05	2.550E-05	8.895E-06	2.397E-06	4.534E-07	5.173E-08	2257.195
257	2 P 46	577.573	1.154E-04	8.744E-05	6.139E-05	3.889E-05	2.141E-05	9.648E-06	921.063
258	2 P 51	577.713	2.860E-03	1.444E-03	6.730E-04	2.586E-04	7.621E-05	1.538E-05	1762.407
259	7 P 25	577.768	1.043E-03	5.900E-04	2.918E-04	1.205E-04	3.888E-05	8.805E-06	1589.655
260	11 P 5	577.832	4.909E-05	2.308E-05	9.135E-06	2.874E-06	6.597E-07	9.655E-08	2015.016
261	7 P 24	578.029	1.105E-03	6.308E-04	3.151E-04	1.318E-04	4.316E-05	9.979E-06	1570.066
262	636	578.198	3.099E-05	1.637E-05	7.719E-06	3.006E-06	9.006E-07	1.855E-07	1683.439
263	628	578.335	1.220E-04	9.324E-05	6.611E-05	4.239E-05	2.370E-05	1.089E-05	901.905
264	19 P 49	578.373	1.327E-05	4.260E-06	1.048E-06	1.921E-07	2.193E-08	1.307E-09	2868.904
265	11 P 4	578.620	4.698E-05	2.212E-05	8.773E-06	2.767E-06	6.371E-07	9.361E-08	2011.086
266	10 R 42	578.732	3.022E-05	1.373E-05	5.219E-06	1.562E-06	3.371E-07	4.556E-08	2092.492
267	628	578.796	1.284E-04	9.888E-05	7.074E-05	4.592E-05	2.605E-05	1.220E-05	883.482
268	16 P 19	579.164	6.413E-05	2.750E-05	9.752E-06	2.682E-06	5.204E-07	6.136E-08	2225.191
269	2 P 49	579.320	3.772E-03	2.103E-03	1.021E-03	4.147E-04	1.295E-04	2.834E-05	1623.637
270	7 P 23	579.333	1.168E-03	6.721E-04	3.391E-04	1.435E-04	4.771E-05	1.124E-05	1551.286

LINE	BAND CODE	WAVE NUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
271	11 P 3	579.407	4.549E-05	2.145E-05	8.521E-06	2.652E-06	6.215E-07	9.161E-08	2407.947
272	7 P 22	579.679	1.226E-03	7.104E-04	3.620E-04	1.549E-04	5.227E-05	1.255E-05	1933.282
273	636 2 P 49	579.719	4.235E-05	2.384E-05	1.171E-05	4.757E-06	1.530E-06	3.418E-07	1604.671
274	628 2 P 23	579.825	1.344E-04	1.043E-04	7.534E-05	4.944E-05	2.844E-05	1.356E-05	865.796
275	19 P 47	579.864	1.837E-05	6.095E-06	1.589E-06	3.000E-07	3.638E-08	2.344E-09	2813.433
276	10 R 44	580.363	2.289E-05	1.010E-05	3.705E-06	1.062E-06	2.170E-07	2.735E-08	2160.309
277	11 Q 57	580.527	1.071E-06	2.876E-07	5.815E-08	8.047E-09	6.618E-10	4.584E-11	3498.925
278	11 Q 55	580.612	1.580E-06	4.410E-07	9.339E-08	1.368E-08	1.207E-09	5.171E-11	3210.476
279	628 2 P 22	580.614	1.399E-04	1.094E-04	7.971E-05	5.288E-05	3.084E-05	1.496E-05	848.867
280	11 Q 56	580.617	1.304E-06	3.570E-07	7.389E-08	1.052E-08	8.968E-10	3.672E-11	3254.3C3
281	11 Q 53	580.693	2.294E-06	6.645E-07	1.471E-07	2.276E-08	2.151E-09	1.006E-10	3125.115
282	11 Q 54	580.696	1.908E-06	5.427E-07	1.175E-07	1.769E-08	1.617E-09	7.238E-11	3167.384
283	11 Q 51	580.772	3.276E-06	9.836E-07	2.174E-07	3.704E-08	3.741E-09	1.903E-10	3042.875
284	11 Q 52	580.773	2.748E-06	8.104E-07	1.834E-07	2.913E-08	2.846E-09	1.389E-10	3083.545
285	16 P 17	580.785	6.651E-05	2.888E-05	1.040E-05	2.912E-06	5.782E-07	7.023E-08	2196.307
286	11 Q 50	580.847	3.892E-06	1.189E-06	2.806E-07	4.693E-08	4.890E-09	2.593E-10	3002.906
287	11 Q 49	580.848	4.602E-06	1.430E-06	3.446E-07	5.908E-08	6.352E-09	3.506E-10	2963.755
288	7 P 21	580.899	1.282E-03	7.488E-04	3.848E-04	1.665E-04	5.695E-05	1.592E-05	1516.051
289	11 Q 48	580.918	5.421E-06	1.713E-06	4.211E-07	7.401E-08	8.205E-09	4.711E-10	2925.350
290	11 Q 47	580.920	6.358E-06	2.042E-06	5.120E-07	9.217E-08	1.053E-08	6.284E-10	2887.759
291	2 P 47	580.923	5.222E-03	3.009E-03	1.520E-03	6.447E-04	2.149E-04	5.082E-05	1547.976
292	11 Q 46	580.986	7.427E-06	2.424E-06	6.196E-07	1.142E-07	1.344E-08	8.326E-10	2850.917
293	11 Q 45	580.990	8.637E-06	2.864E-06	7.459E-07	1.407E-07	1.704E-08	1.094E-09	2814.868
294	11 Q 44	581.052	1.000E-05	3.369E-06	8.937E-07	1.724E-07	2.147E-08	1.432E-09	2779.808
295	11 Q 43	581.056	1.154E-05	3.943E-06	1.065E-06	2.101E-07	2.640E-08	1.658E-09	2745.139
296	11 Q 42	581.114	1.325E-05	4.596E-06	1.264E-06	2.546E-07	3.349E-08	2.396E-09	2711.425
297	11 Q 41	581.120	1.515E-05	5.330E-06	1.491E-06	3.068E-07	4.141E-08	3.061E-09	2678.519
298	11 Q 40	581.174	1.724E-05	6.154E-06	1.750E-06	3.677E-07	5.093E-08	3.896E-09	2646.365
299	11 Q 39	581.181	1.954E-05	7.070E-06	2.044E-06	4.281E-07	6.225E-08	4.916E-09	2615.026
300	11 Q 38	581.231	2.206E-05	8.086E-06	2.376E-06	5.192E-07	7.559E-08	6.161E-09	2584.442
301	11 Q 37	581.238	2.478E-05	9.202E-06	2.746E-06	6.117E-07	9.120E-08	7.665E-09	2554.661
302	636 2 P 47	581.239	5.862E-05	3.410E-05	1.743E-05	7.492E-06	2.539E-06	6.125E-07	1529.013
303	2 P 36	581.284	2.771E-05	1.042E-05	3.158E-06	7.167E-07	1.094E-07	9.469E-09	2525.643
304	11 Q 35	581.293	3.083E-05	1.175E-05	3.613E-06	8.347E-07	1.303E-07	1.161E-08	2447.427
305	7 P 20	581.322	1.331E-03	7.830E-04	4.058E-04	1.775E-04	6.150E-05	1.528E-05	1499.609
306	11 Q 34	581.336	3.419E-05	1.318E-05	4.111E-06	9.666E-07	1.542E-07	1.414E-08	2469.575
307	11 Q 33	581.344	3.772E-05	1.471E-05	4.652E-06	1.113E-06	1.813E-07	1.709E-08	2443.323
308	628 2 P 21	581.371	1.448E-04	1.140E-04	8.383E-05	5.618E-05	3.319E-05	1.635E-05	832.634
309	11 Q 32	581.384	4.142E-05	1.633E-05	5.237E-06	1.273E-06	2.119E-07	2.050E-08	2417.438
310	11 Q 31	581.393	4.526E-05	1.804E-05	5.862E-06	1.449E-06	2.459E-07	2.442E-08	2392.356
311	19 P 45	581.395	2.500E-05	8.564E-06	2.319E-06	4.585E-07	5.892E-08	4.090E-09	2740.673
312	11 Q 30	581.429	4.923E-05	1.984E-05	6.526E-06	1.638E-06	2.835E-07	2.886E-08	2366.033
313	11 Q 29	581.439	5.348E-05	2.169E-05	7.224E-06	1.841E-06	3.246E-07	3.384E-08	2344.511
314	11 Q 28	581.471	5.738E-05	2.359E-05	7.952E-06	2.056E-06	3.642E-07	3.942E-08	2321.760
315	11 Q 27	581.481	6.148E-05	2.552E-05	8.770E-06	2.281E-06	4.170E-07	4.554E-08	2299.804

LINE	BAND CODE	WAVE NUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
316	11 Q 26	581.511	6.555E-05	2.746E-05	9.469E-06	2.516E-06	4.677E-07	5.220E-08	2278.621
317	11 Q 25	581.521	6.951E-05	2.938E-05	1.024E-05	2.756E-06	5.208E-07	5.536E-08	2258.232
318	11 Q 24	581.548	7.332E-05	3.125E-05	1.100E-05	3.000E-06	5.758E-07	6.696E-08	2238.617
319	11 Q 23	581.557	7.690E-05	3.305E-05	1.175E-05	3.243E-06	6.319E-07	7.491E-08	2219.794
320	11 Q 22	581.582	8.021E-05	3.475E-05	1.247E-05	3.481E-06	6.882E-07	8.314E-08	2201.748
321	11 Q 21	581.591	8.316E-05	3.630E-05	1.315E-05	3.710E-06	7.437E-07	9.143E-08	2184.492
322	11 Q 20	581.612	8.571E-05	3.768E-05	1.377E-05	3.926E-06	7.973E-07	9.970E-08	2168.014
323	11 Q 19	581.622	8.776E-05	3.885E-05	1.431E-05	4.122E-06	8.478E-07	1.077E-07	2152.326
324	11 Q 18	581.641	8.928E-05	3.978E-05	1.477E-05	4.295E-06	8.938E-07	1.153E-07	2137.416
325	11 Q 17	581.649	9.018E-05	4.043E-05	1.512E-05	4.437E-06	9.339E-07	1.223E-07	2123.246
326	11 Q 16	581.666	9.042E-05	4.077E-05	1.535E-05	4.545E-06	9.669E-07	1.283E-07	2109.956
327	11 Q 15	581.674	8.994E-05	4.078E-05	1.546E-05	4.612E-06	9.911E-07	1.333E-07	2097.403
328	11 Q 14	581.688	8.870E-05	4.042E-05	1.542E-05	4.635E-06	1.005E-06	1.368E-07	2085.632
329	11 Q 13	581.696	8.666E-05	3.968E-05	1.522E-05	4.609E-06	1.009E-06	1.348E-07	2074.648
330	11 Q 12	581.707	8.379E-05	3.854E-05	1.486E-05	4.529E-06	9.992E-07	1.390E-07	2064.446
331	11 Q 11	581.714	8.006E-05	3.697E-05	1.433E-05	4.393E-06	9.766E-07	1.371E-07	2055.031
332	11 Q 10	581.724	7.547E-05	3.498E-05	1.362E-05	4.199E-06	9.398E-07	1.331E-07	2046.359
333	11 Q 9	581.730	6.999E-05	3.256E-05	1.273E-05	3.943E-06	8.881E-07	1.268E-07	2038.552
334	11 Q 8	581.738	6.362E-05	2.969E-05	1.163E-05	3.625E-06	8.211E-07	1.181E-07	2031.489
335	11 Q 7	581.743	5.635E-05	2.637E-05	1.038E-05	3.243E-06	7.383E-07	1.069E-07	2025.212
336	11 Q 6	581.748	4.814E-05	2.258E-05	8.913E-06	2.795E-06	6.390E-07	9.304E-08	2019.718
337	11 Q 5	581.752	3.888E-05	1.827E-05	7.232E-06	2.275E-06	5.221E-07	7.639E-08	2015.010
338	11 Q 4	581.756	2.837E-05	1.335E-05	5.296E-06	1.670E-06	3.845E-07	5.648E-08	2011.086
339	11 Q 3	581.759	1.600E-05	7.542E-06	2.996E-06	9.465E-07	2.185E-07	3.220E-08	2007.947
340	10 R 46	581.996	1.706E-05	7.295E-06	2.578E-06	7.062E-07	1.364E-07	1.598E-08	2231.238
341	628 2 P 20	582.127	1.491E-04	1.182E-04	8.760E-05	5.929E-05	3.546E-05	1.778E-05	817.157
342	16 P 15	582.399	6.711E-05	2.947E-05	1.075E-05	3.062E-06	6.205E-07	7.736E-08	2170.545
343	7 P 19	582.464	1.376E-03	8.151E-04	4.259E-04	1.881E-04	6.600E-05	1.667E-05	1483.544
344	2 P 45	582.524	7.111E-03	4.228E-03	2.219E-03	9.855E-04	3.481E-04	8.469E-05	1475.428
345	2 P 45	582.760	7.980E-05	4.791E-05	2.544E-05	1.145E-05	4.112E-06	1.069E-06	1456.466
346	2 P 19	582.883	1.527E-04	1.218E-04	9.095E-05	6.214E-05	3.760E-05	1.914E-05	802.417
347	19 P 43	582.907	3.347E-05	1.182E-05	3.317E-06	6.457E-07	9.314E-08	6.943E-09	2671.224
348	7 P 18	582.957	1.413E-03	8.423E-04	4.432E-04	1.978E-04	7.022E-05	1.801E-05	1469.067
349	10 R 48	583.649	1.250E-05	5.175E-06	1.759E-06	4.556E-07	8.363E-08	9.680E-09	2305.275
350	628 2 P 18	583.637	1.554E-04	1.247E-04	9.379E-05	6.465E-05	3.956E-05	2.043E-05	788.411
351	16 P 13	584.006	6.567E-05	2.912E-05	1.075E-05	3.105E-06	6.408E-07	8.179E-08	2147.464
352	7 P 17	584.030	1.444E-03	8.659E-04	4.593E-04	2.067E-04	7.420E-05	1.931E-05	1464.568
353	2 P 43	584.122	9.520E-03	5.834E-03	3.175E-03	1.474E-03	5.564E-04	1.504E-04	1405.587
354	636 2 P 43	584.280	1.068E-04	6.611E-05	3.639E-05	1.712E-05	6.599E-06	1.819E-06	1387.030
355	628 2 P 17	584.390	1.571E-04	1.268E-04	9.608E-05	6.677E-05	4.124E-05	2.161E-05	775.147
356	19 P 41	584.419	4.405E-05	1.601E-05	4.652E-06	1.003E-06	1.437E-07	1.147E-08	2604.808
357	7 P 16	584.585	1.464E-03	8.835E-04	4.719E-04	2.141E-04	7.711E-05	2.050E-05	1441.656
358	11 R 3	584.895	2.300E-06	1.084E-06	4.306E-07	1.360E-07	3.139E-08	4.648E-09	2007.947
359	628 2 P 16	585.142	1.578E-04	1.281E-04	9.763E-05	6.841E-05	4.274E-05	2.465E-05	762.617
360	10 R 50	585.262	9.009E-06	3.606E-06	1.177E-06	2.927E-07	5.008E-08	5.023E-09	2382.422

LINE	BAND CODE	WAVELENGTH	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
361	7 P 15	585.595	1.478E-03	8.963E-04	4.819E-04	2.204E-04	8.078E-05	2.158E-05	1649.163
362	16 P 11	585.607	6.202E-05	2.773E-05	1.034E-05	3.025E-06	6.339E-07	8.255E-08	2128.386
363	11 R 4	585.676	5.446E-06	2.563E-06	1.016E-06	3.204E-07	7.376E-08	1.083E-08	2011.086
364	2 P 41	585.717	1.253E-02	7.904E-03	4.653E-03	2.157E-03	8.490E-04	2.487E-04	1339.661
365	2 P 41	585.801	1.406E-04	8.954E-05	5.103E-05	2.505E-05	1.002E-05	2.997E-06	1320.708
366	2 P 15	585.893	1.574E-04	1.284E-04	9.848E-05	6.953E-05	4.384E-05	2.352E-05	750.824
367	19 P 39	585.933	5.699E-05	2.128E-05	6.933E-06	1.434E-06	2.142E-07	1.841E-08	2561.665
368	7 P 14	586.205	1.480E-03	9.021E-04	4.880E-04	2.249E-04	8.320E-05	2.250E-05	1617.376
369	11 R 5	586.457	8.922E-06	4.192E-06	1.659E-06	5.215E-07	1.197E-07	1.751E-08	2015.010
370	2 P 14	586.643	1.558E-04	1.277E-04	9.853E-05	7.006E-05	4.657E-05	2.418E-05	739.768
371	10 R 52	586.895	6.387E-06	2.469E-06	7.728E-07	1.825E-07	4.928E-08	2.704E-09	2662.676
372	7 P 13	587.161	1.472E-03	9.019E-04	4.907E-04	2.277E-04	8.698E-05	2.324E-05	1406.410
373	16 P 9	587.201	5.609E-05	2.526E-05	9.500E-06	2.808E-06	5.961E-07	7.894E-08	2111.991
374	11 R 6	587.236	1.248E-05	5.852E-06	2.309E-06	7.240E-07	1.655E-07	4.610E-08	2019.718
375	2 P 39	587.310	1.621E-02	1.051E-02	6.120E-03	3.086E-03	1.278E-03	3.593E-04	1276.450
376	2 P 39	587.322	1.819E-04	1.191E-04	7.012E-05	3.584E-05	1.509E-05	4.812E-06	1427.500
377	2 P 13	587.343	1.530E-04	1.260E-04	9.713E-05	6.944E-05	4.486E-05	2.460E-05	729.449
378	19 P 37	587.448	7.245E-05	2.777E-05	8.609E-06	2.009E-06	3.174E-07	2.875E-08	2481.558
379	7 P 12	587.819	1.453E-03	8.943E-04	4.891E-04	2.284E-04	8.595E-05	2.375E-05	1396.229
380	11 R 7	588.015	1.598E-05	7.474E-06	2.941E-06	9.108E-07	2.091E-07	3.027E-08	2025.212
381	16 Q 58	588.020	1.272E-06	3.247E-07	6.177E-08	7.937E-09	5.949E-10	2.065E-11	3414.597
382	2 P 12	588.141	1.490E-04	1.232E-04	9.603E-05	6.915E-05	4.469E-05	2.475E-05	719.866
383	16 Q 56	588.452	1.892E-06	5.025E-07	1.001E-07	1.362E-08	1.097E-09	4.178E-11	3324.771
384	10 R 54	588.529	4.456E-06	1.661E-06	4.976E-07	1.114E-07	1.677E-08	1.417E-09	2566.036
385	1 P 80	588.685	1.593E-06	6.005E-07	1.824E-07	4.149E-08	6.350E-09	5.516E-10	2523.222
386	7 P 11	588.727	1.424E-03	8.799E-04	4.836E-04	2.272E-04	8.613E-05	2.403E-05	1386.828
387	16 P 7	588.788	4.797E-05	2.173E-05	8.228E-06	2.452E-06	5.262E-07	7.063E-08	2098.717
388	11 P 8	588.793	1.933E-05	9.014E-06	3.936E-06	1.100E-06	2.491E-07	3.582E-08	2031.489
389	2 P 37	588.845	2.312E-04	1.554E-04	9.441E-05	5.014E-05	2.214E-05	7.513E-06	1197.407
390	16 Q 54	588.868	2.769E-06	7.632E-07	1.592E-07	2.290E-08	1.977E-09	8.227E-11	3238.058
391	2 P 11	588.888	1.437E-04	1.193E-04	9.340E-05	6.764E-05	4.402E-05	2.460E-05	711.021
392	2 P 37	588.901	2.061E-02	1.372E-02	8.241E-03	4.318E-03	1.876E-03	6.236E-04	1216.353
393	19 P 35	588.964	9.049E-05	3.556E-05	1.135E-05	2.747E-06	4.544E-07	4.363E-08	2424.507
394	16 Q 52	589.268	3.986E-06	1.139E-06	2.683E-07	3.768E-08	3.477E-09	1.571E-10	3154.459
395	7 P 10	589.424	1.384E-03	8.580E-04	4.736E-04	2.238E-04	8.540E-05	2.404E-05	1378.211
396	11 R 9	589.570	2.245E-05	1.044E-05	4.080E-06	1.263E-06	2.845E-07	4.062E-08	2038.752
397	2 P 10	589.635	1.372E-04	1.142E-04	8.984E-05	6.539E-05	4.283E-05	2.414E-05	702.912
398	16 Q 50	589.651	5.645E-06	1.671E-06	3.799E-07	6.086E-08	6.293E-09	2.542E-10	3073.474
399	5 P 76	589.824	1.574E-06	3.761E-07	6.612E-08	7.714E-09	5.127E-10	1.252E-11	3565.152
400	16 Q 48	590.018	7.862E-06	2.407E-06	5.699E-07	9.564E-08	1.001E-08	5.341E-10	2996.606
401	1 P 78	590.105	2.816E-06	1.121E-06	3.630E-07	8.936E-08	1.509E-08	1.489E-09	2399.654
402	10 R 56	590.161	3.058E-06	1.098E-06	3.143E-07	6.658E-08	9.324E-09	7.231E-10	2632.501
403	7 P 9	590.293	1.332E-03	8.290E-04	4.595E-04	2.182E-04	8.379E-05	2.371E-05	1370.380
404	11 R 10	590.347	2.531E-05	1.173E-05	4.565E-06	1.407E-06	3.142E-07	4.657E-08	2046.349
405	2 P 35	590.368	2.887E-04	1.989E-04	1.245E-04	6.899E-05	3.169E-05	1.140E-05	1140.430

LINE	BAND CODE	WAVE NUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
406	16 P 5	590.368	3.789E-05	1.724E-05	6.562E-04	1.968E-04	4.258E-07	5.774E-08	2088.567
437	16 Q 46	590.369	1.077E-05	3.408E-06	8.382E-07	1.475E-07	1.639E-08	9.434E-10	2922.355
408	628 2 P 9	590.380	1.294E-04	1.081E-04	8.532E-05	6.240E-05	4.112E-05	2.335E-05	695.541
409	19 P 53	590.482	1.110E-04	4.465E-05	1.466E-05	3.672E-06	6.340E-07	6.434E-08	2370.694
410	2 P 55	590.489	2.575E-02	1.756E-02	1.007E-02	5.907E-03	2.685E-03	9.466E-04	1159.372
411	16 Q 44	590.705	1.451E-05	4.733E-06	1.209E-06	2.226E-07	4.619E-08	1.621E-09	2851.224
412	7 P 8	591.023	1.270E-04	7.929E-04	4.411E-04	2.104E-04	8.126E-05	2.322E-05	1363.331
413	16 Q 42	591.024	1.921E-05	6.456E-06	1.709E-06	3.297E-07	4.080E-08	2.710E-09	2783.209
414	11 R 11	591.123	2.787E-05	1.287E-05	4.984E-06	1.527E-06	3.393E-07	4.764E-08	2055.031
415	628 2 P 8	591.125	1.204E-04	1.009E-04	7.990E-05	5.867E-05	3.887E-05	2.222E-05	688.906
416	5 P 74	591.249	2.697E-06	6.781E-07	1.268E-07	1.555E-08	1.164E-09	3.905E-11	3447.765
417	16 Q 40	591.329	2.501E-05	8.649E-06	2.367E-06	4.745E-07	6.203E-08	4.405E-09	2718.316
418	636 1 P 76	591.529	4.903E-06	2.055E-06	7.092E-07	1.866E-07	3.507E-08	3.914E-09	2279.169
419	16 Q 38	591.617	3.199E-05	1.136E-05	3.212E-06	6.700E-07	9.203E-08	6.963E-09	2656.444
420	10 R 58	591.792	2.066E-06	7.128E-07	1.948E-07	3.896E-08	5.079E-09	3.592E-10	2724.071
421	7 P 7	591.859	1.199E-03	7.503E-04	4.187E-04	2.005E-04	7.782E-05	2.238E-05	1357.064
422	628 2 P 7	591.868	1.103E-04	9.241E-05	7.358E-05	5.423E-05	3.609E-05	4.076E-05	683.009
423	16 Q 36	591.891	4.020E-05	1.464E-05	4.270E-06	9.247E-07	1.331E-07	1.070E-08	2597.895
424	636 2 P 33	591.893	3.541E-04	2.497E-04	1.608E-04	9.165E-05	4.422E-05	1.881E-05	1046.570
425	11 R 12	591.898	3.010E-05	1.384E-05	5.334E-06	1.625E-06	3.583E-07	4.981E-08	2064.446
426	16 P 3	591.942	2.621E-05	1.196E-05	4.569E-06	1.376E-06	2.994E-07	4.090E-08	2081.540
427	2 Q 65	591.988	1.013E-06	4.311E-07	1.513E-07	4.112E-08	7.859E-09	9.090E-10	2243.783
428	19 P 31	592.002	1.337E-04	5.496E-05	1.854E-05	4.795E-06	8.620E-07	9.216E-08	2319.938
429	2 P 33	592.076	3.158E-02	2.205E-02	1.404E-02	95E-03	3.747E-03	1.396E-03	1105.508
430	16 Q 34	592.149	4.981E-05	1.852E-05	5.558E-06	1.247E-06	1.877E-07	1.597E-08	2542.369
431	628 2 Q 64	592.172	1.256E-06	5.453E-07	1.964E-07	5.501E-08	1.092E-08	1.327E-09	2195.917
432	628 2 Q 63	592.351	1.551E-06	6.874E-07	2.537E-07	7.323E-08	1.510E-08	1.924E-09	2148.784
433	7 U 71	592.384	1.274E-06	3.366E-07	6.679E-08	9.034E-09	7.223E-10	2.724E-11	3333.755
434	16 Q 32	592.392	6.012E-05	2.296E-05	7.082E-06	1.843E-06	2.579E-07	2.315E-08	2489.566
435	628 2 Q 62	592.525	1.907E-06	8.628E-07	3.262E-07	9.701E-08	2.076E-08	2.776E-09	2102.365
436	628 2 P 6	592.611	9.904E-05	8.337E-05	6.641E-05	4.911E-05	3.282E-05	1.898E-05	677.849
437	7 P 6	592.614	1.119E-03	7.017E-04	3.927E-04	1.887E-04	7.356E-05	2.128E-05	1351.581
438	16 Q 30	592.620	7.149E-05	2.789E-05	8.830E-06	2.114E-06	3.451E-07	3.259E-08	2440.688
439	7 U 69	592.668	2.100E-06	5.823E-07	1.224E-07	1.776E-08	1.550E-09	6.548E-11	3223.688
440	11 R 13	592.672	3.199E-05	1.484E-05	5.613E-06	1.698E-06	3.715E-07	5.110E-08	2074.640
441	5 P 72	592.679	4.552E-06	1.203E-06	4.388E-07	3.240E-08	2.583E-09	9.745E-11	3333.460
442	628 2 Q 61	592.696	1.337E-06	1.079E-06	4.179E-07	1.279E-07	2.838E-08	3.978E-09	2056.718
443	16 U 28	592.834	8.339E-05	3.319E-05	1.077E-05	2.655E-06	4.496E-07	4.453E-08	2394.536
444	628 2 Q 60	592.861	2.853E-06	1.343E-06	5.322E-07	1.677E-07	3.850E-08	5.664E-09	2011.766
445	7 Q 67	592.942	3.408E-06	9.902E-07	2.201E-07	3.420E-08	3.252E-09	1.533E-10	3116.723
446	636 1 P 74	592.957	8.403E-06	3.708E-06	1.364E-06	3.898E-07	7.963E-08	1.003E-08	2161.764
447	628 2 Q 59	593.023	3.404E-06	1.664E-06	6.752E-07	2.189E-07	5.217E-08	8.013E-09	1967.566
448	16 U 26	593.032	9.535E-05	3.867E-05	1.248E-05	3.452E-06	5.700E-07	5.899E-08	2351.565
449	628 2 Q 58	593.180	4.203E-06	2.052E-06	8.528E-07	2.862E-07	7.014E-08	1.127E-08	1924.141
450	7 U 65	593.207	5.445E-06	1.655E-06	3.884E-07	6.451E-08	6.665E-09	3.496E-10	3012.811

LINE	BAND CODE	WAVE NUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
451		16 Q 24	1.068E-04	4.407E-05	1.493E-05	4.801E-06	7.024E-07	7.574E-08	2.111.610
452	628	2 Q 57	5.072E-06	7.327E-06	1.072E-06	1.072E-06	9.377E-08	1.577E-08	1881.389
453	628	2 P 5	8.683E-C5	7.324E-05	5.847E-05	4.336E-05	2.908E-05	1.689E-05	673.426
454		16 Q 22	1.170E-C4	4.907E-05	1.694E-05	4.511E-06	8.406E-07	9.414E-C8	2274.837
455	636	2 P 31	4.264E-04	3.074E-04	2.032E-04	1.157E-04	6.012E-05	2.408E-05	1035.827
456		10 R 60	1.373E-06	4.550E-07	1.184E-07	2.233E-08	2.702E-09	1.737E-10	4814.743
457		7 P 5	1.031E-05	6.482E-04	3.637E-04	1.753E-04	6.858E-05	1.995E-05	1346.881
458		11 R 14	3.353E-C5	1.527E-05	5.821E-06	1.749E-06	3.792E-07	5.157E-C8	2085.632
459		7 Q 63	8.563E-06	2.720E-06	6.728E-07	1.192E-07	1.334E-08	7.763E-10	2912.105
460	628	2 Q 56	6.098E-06	3.094E-06	1.342E-06	4.722E-07	1.247E-07	2.185E-08	1839.342
461		16 P 1	1.339E-05	6.121E-06	2.343E-06	7.076E-07	1.544E-07	2.117E-08	2077.636
462		19 P 29	1.579E-04	6.631E-05	2.292E-05	6.113E-06	1.142E-06	1.282E-07	2272.301
463		16 Q 20	1.253E-04	5.333E-05	1.874E-05	5.098E-06	9.759E-07	1.131E-07	2241.152
464	628	2 Q 55	7.303E-06	3.772E-06	1.672E-06	6.940E-07	1.648E-07	3.014E-C8	1748.126
465		2 P 31	3.804E-02	2.715E-02	1.775E-02	1.031E-02	5.093E-03	1.999E-03	1054.762
466		16 Q 18	1.310E-04	5.648E-05	2.016E-05	5.593E-06	1.097E-06	1.312E-07	2210.676
467		7 Q 61	1.325E-05	4.393E-06	1.144E-06	2.156E-07	2.610E-08	1.679E-09	2814.655
468	628	2 Q 54	8.713E-06	4.580E-06	2.074E-06	7.688E-07	2.167E-07	4.131E-08	1757.599
469		16 Q 16	1.332E-04	5.815E-05	2.106E-05	5.945E-06	1.192E-06	1.466E-07	2183.288
470	628	2 Q 53	1.035E-05	5.530E-06	2.560E-06	9.737E-07	4.833E-07	5.626E-08	1717.805
471		16 Q 14	1.316E-04	5.803E-05	2.128E-05	6.102E-06	1.247E-06	1.573E-07	2159.029
472		7 Q 59	2.019E-05	6.972E-06	1.907E-06	3.820E-07	4.987E-08	3.535E-09	2719.914
473		16 Q 12	1.255E-04	5.588E-05	2.072E-05	6.022E-06	1.252E-06	1.614E-07	2137.900
474	628	2 Q 52	1.226E-05	6.669E-06	3.147E-06	1.227E-06	3.683E-07	7.613E-08	1678.745
475		16 Q 10	1.150E-04	5.158E-05	1.931E-05	5.677E-06	1.197E-06	1.572E-07	2119.500
476	628	2 P 4	7.376E-05	6.231E-05	4.984E-05	3.705E-05	2.492E-05	1.453E-05	669.740
477		5 P 70	7.562E-06	2.098E-06	4.413E-07	6.410E-08	5.602E-09	2.369E-10	3244.240
478		16 Q 8	9.996E-05	4.514E-05	1.703E-05	5.034E-06	1.079E-06	1.438E-07	2105.030
479	628	2 Q 51	1.443E-05	7.996E-06	3.849E-06	1.538E-06	4.761E-07	1.024E-07	1640.419
480		7 Q 57	3.026E-05	1.088E-05	3.120E-06	6.626E-07	9.307E-08	7.247E-09	2628.483
481		9.398E-04	9.398E-04	5.916E-04	3.326E-04	1.607E-04	6.307E-05	1.840E-05	1342.924
482		16 Q 6	8.088E-05	3.671E-05	1.394E-05	4.167E-06	8.978E-07	1.212E-07	2093.291
483		11 R 15	3.471E-05	1.573E-05	5.958E-06	1.777E-06	3.816E-07	5.127E-08	2057.403
484		16 Q 4	5.836E-05	2.659E-05	1.014E-05	3.048E-06	6.613E-07	9.004E-08	2084.682
485		16 Q 2	3.329E-05	1.520E-05	5.814E-06	1.754E-06	3.822E-07	5.253E-08	2079.203
486	628	2 U 50	1.698E-05	9.548E-06	4.687E-06	1.918E-06	6.120E-07	1.368E-07	1602.829
487	636	1 P 72	1.410E-05	6.577E-06	2.561E-06	7.896E-07	1.767E-07	2.502E-08	2047.456
488		7 Q 55	4.463E-05	1.667E-05	5.909E-06	1.125E-06	1.696E-07	1.446E-08	2540.184
489	628	2 Q 49	1.986E-05	1.135E-05	5.681E-06	2.381E-06	7.822E-07	1.815E-07	1565.973
490	628	2 Q 48	2.315E-05	1.344E-05	6.854E-06	2.939E-06	9.940E-07	2.394E-07	1529.853
491		7 Q 53	6.476E-C5	2.510E-05	7.887E-06	1.871E-06	3.020E-07	2.810E-08	2434.528
492	628	2 Q 47	2.667E-05	1.584E-05	8.231E-06	3.611E-06	1.250E-06	3.137E-07	1444.468
493	628	2 Q 46	3.107E-05	1.860E-05	9.838E-06	4.412E-06	1.578E-06	4.084E-07	1459.818
494		7 Q 51	5.448E-05	3.714E-05	1.218E-05	3.046E-06	5.248E-07	5.314E-08	2312.886
495	628	2 P 3	5.994E-05	5.069E-05	4.061E-05	3.024E-05	2.039E-05	1.192E-05	666.791

LINE	BAND CODE	WAVENUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
496	628	2 Q 45	3.577E-05	2.173E-05	1.170E-05	5.364E-06	1.971E-06	5.483E-07	1425.904
497	636	2 P 29	5.038E-04	3.708E-04	2.513E-04	1.525E-04	7.960E-05	3.948E-05	988.204
498	628	2 Q 44	4.103E-05	2.529E-05	1.386E-05	6.487E-06	2.948E-06	6.788E-07	1392.725
499	628	11 R 16	3.555E-05	1.602E-05	6.028E-06	1.783E-06	3.791E-07	5.029E-08	2109.956
500	628	7 P 3	8.494E-04	1.354E-04	3.015E-04	1.459E-04	5.742E-05	1.681E-05	1339.831
501	628	7 Q 49	1.298E-04	5.398E-05	1.845E-05	4.852E-06	8.906E-07	9.779E-08	2253.890
502	628	19 P 47	1.831E-04	7.835E-05	2.772E-05	7.605E-06	1.472E-06	1.730E-07	2227.784
503	628	2 Q 43	4.687E-05	2.930E-05	1.633E-05	7.805E-06	3.022E-06	8.665E-07	1360.242
504	628	2 Q 42	5.333E-05	3.380E-05	1.915E-05	9.341E-06	3.710E-06	1.099E-06	1328.575
505	628	7 Q 47	1.793E-04	7.706E-05	2.741E-05	7.565E-06	1.475E-06	1.751E-07	2218.032
506	628	2 P 29	4.495E-02	3.276E-02	2.193E-02	1.314E-02	6.748E-03	4.780E-03	1007.135
507	628	2 Q 41	6.042E-05	3.882E-05	2.235E-05	1.112E-05	4.528E-06	1.384E-06	1297.603
508	628	2 Q 40	6.818E-05	4.438E-05	2.597E-05	1.317E-05	5.493E-06	1.733E-06	1267.368
509	628	7 Q 45	2.435E-04	1.080E-04	3.991E-05	1.154E-05	2.385E-06	3.052E-07	2145.292
510	628	2 Q 39	7.662E-05	5.052E-05	3.002E-05	1.551E-05	6.625E-06	2.154E-06	1237.865
511	628	2 Q 38	8.574E-05	5.724E-05	3.453E-05	1.818E-05	7.943E-06	2.660E-06	1209.106
512	628	7 Q 43	3.251E-04	1.487E-04	5.697E-05	1.723E-05	4.764E-06	5.172E-07	4075.672
513	628	5 P 68	1.237E-05	3.597E-06	8.005E-07	1.246E-07	1.187E-08	5.611E-10	3114.166
514	628	2 P 2	4.550E-05	3.852E-05	3.089E-05	2.304E-05	1.556E-05	9.117E-06	664.580
515	628	2 Q 37	9.554E-05	6.457E-05	3.953E-05	2.118E-05	9.466E-06	3.263E-06	1181.079
516	628	2 Q 36	1.060E-04	7.251E-05	4.502E-05	2.455E-05	1.121E-05	3.975E-06	1153.788
517	628	7 Q 41	4.268E-04	2.009E-04	7.971E-05	2.515E-05	5.795E-06	8.526E-07	2009.173
518	628	11 R 17	3.605E-05	1.615E-05	6.034E-06	1.770E-06	3.723E-07	4.871E-08	4123.296
519	628	7 P 2	7.743E-04	4.886E-04	2.756E-04	1.335E-04	5.263E-05	1.544E-05	1337.481
520	628	2 Q 35	1.171E-04	8.104E-05	5.102E-05	2.831E-05	1.320E-05	4.810E-06	1127.235
521	636	1 P 70	2.356E-05	1.147E-05	4.734E-06	1.567E-06	3.832E-07	6.084E-08	1936.232
522	628	16 R 1	6.728E-06	3.074E-06	1.177E-06	3.553E-07	7.752E-08	1.063E-08	2077.636
523	628	2 Q 34	1.289E-04	9.017E-05	5.754E-05	3.249E-05	1.945E-05	5.781E-06	1101.417
524	628	7 Q 39	5.506E-04	2.665E-04	1.093E-04	3.590E-05	8.703E-06	1.367E-06	1945.796
525	628	2 Q 33	1.411E-04	9.984E-05	6.456E-05	3.700E-05	1.798E-05	6.900E-06	1076.337
526	628	2 Q 32	1.539E-04	1.100E-04	7.208E-05	4.194E-05	2.078E-05	8.178E-06	1051.993
527	628	7 Q 37	6.980E-04	3.468E-04	1.468E-04	5.011E-05	1.275E-05	4.130E-06	1885.544
528	628	2 Q 31	1.671E-04	1.207E-04	8.001E-05	4.728E-05	2.387E-05	9.626E-06	1026.386
529	628	2 Q 30	1.805E-04	1.317E-04	8.838E-05	5.308E-05	2.725E-05	1.125E-05	1005.516
530	628	7 Q 35	8.692E-04	4.428E-04	1.931E-04	6.837E-05	1.820E-05	3.225E-06	1828.412
531	628	2 Q 29	1.942E-04	1.431E-04	9.711E-05	5.908E-05	3.091E-05	1.305E-05	983.382
532	628	2 U 28	2.074E-04	1.546E-04	1.061E-04	6.543E-05	3.493E-05	1.504E-05	961.586
533	628	7 Q 33	1.063E-03	5.543E-04	2.486E-04	9.113E-05	2.533E-05	4.744E-06	1776.407
534	628	2 Q 27	2.215E-04	1.642E-04	1.153E-04	7.206E-05	3.900E-05	1.720E-05	941.247
535	628	2 P 1	3.059E-05	2.591E-05	2.080E-05	1.552E-05	1.050E-05	6.160E-06	663.105
536	628	2 U 26	2.349E-04	1.778E-04	1.247E-04	7.888E-05	4.238E-05	1.952E-05	921.466
537	628	7 Q 31	1.275E-03	6.801E-04	3.133E-04	1.186E-04	3.435E-05	6.718E-06	1723.528
538	628	2 Q 25	2.479E-04	1.840E-04	1.340E-04	8.582E-05	4.792E-05	2.200E-05	902.221
539	628	2 Q 24	2.602E-04	2.002E-04	1.481E-04	9.278E-05	5.258E-05	2.460E-05	883.774
540	636	2 P 27	5.839E-04	4.381E-04	3.039E-04	1.858E-04	1.026E-04	4.517E-05	943.700

LINE	BAND	CODE	WAVELENGTH	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
541	628	2 0 23	596.514	2.717E-04	2.107E-04	1.521E-04	9.968E-05	5.729E-05	2.730E-05	866.604
542		7 0 29	596.525	1.502E-03	8.177E-04	3.862E-04	1.508E-04	4.535E-05	9.399E-06	1675.776
543		11 0 18	596.531	3.622E-05	1.613E-05	5.982E-06	1.739E-06	3.616E-07	4.663E-08	2137.416
544	628	2 0 22	596.560	2.822E-04	2.205E-04	1.605E-04	1.064E-04	6.199E-05	3.005E-05	849.052
545		19 0 25	596.574	2.079E-04	9.061E-05	3.276E-05	9.228E-06	1.846E-06	2.263E-07	2186.388
546	628	2 0 21	596.603	2.916E-04	2.294E-04	1.684E-04	1.120E-04	6.657E-05	3.282E-05	832.857
547		7 0 27	596.633	1.734E-03	9.626E-04	4.653E-04	1.869E-04	5.827E-05	1.264E-05	1631.152
548	628	2 0 20	596.665	2.995E-04	2.372E-04	1.756E-04	1.188E-04	7.097E-05	3.555E-05	817.360
549		628 2 0 19	596.684	3.058E-04	2.478E-04	1.819E-04	1.241E-04	7.507E-05	3.818E-05	602.601
550	628	2 0 18	596.721	3.103E-04	2.489E-04	1.870E-04	1.288E-04	7.879E-05	4.065E-05	788.779
551		7 0 25	596.733	1.961E-03	1.109E-03	5.477E-04	2.260E-04	7.281E-05	1.649E-05	1589.655
552	628	2 0 17	596.756	3.129E-04	2.524E-04	1.910E-04	1.327E-04	8.201E-05	4.289E-05	775.294
553	628	2 0 16	596.789	3.133E-04	2.541E-04	1.936E-04	1.356E-04	8.463E-05	4.464E-05	762.748
554	628	2 0 15	596.820	3.115E-04	2.539E-04	1.946E-04	1.373E-04	8.656E-05	4.642E-05	750.939
555		2 0 27	596.824	5.210E-02	3.871E-02	2.655E-02	1.635E-02	8.699E-03	3.752E-03	962.627
556		7 0 23	596.825	2.172E-03	1.248E-03	6.293E-04	2.660E-04	8.840E-05	2.082E-05	1551.288
557	628	2 0 14	596.849	3.073E-04	2.517E-04	1.941E-04	1.379E-04	8.789E-05	4.756E-05	749.869
558	628	2 0 13	596.876	3.006E-04	2.474E-04	1.918E-04	1.372E-04	8.794E-05	4.821E-05	729.536
559	628	2 0 12	596.901	2.915E-04	2.409E-04	1.877E-04	1.351E-04	8.725E-05	4.831E-05	719.941
560		7 0 21	596.910	2.352E-03	1.373E-03	7.048E-04	3.047E-04	1.041E-04	2.543E-05	1516.651
561	628	2 0 11	596.923	2.798E-04	2.321E-04	1.817E-04	1.315E-04	8.556E-05	4.780E-05	711.084
562	628	2 0 10	596.944	2.957E-04	2.412E-04	1.738E-04	1.265E-04	8.282E-05	4.666E-05	702.965
563	628	2 0 9	596.963	2.490E-04	2.080E-04	1.641E-04	1.200E-04	7.902E-05	4.486E-05	695.584
564	628	7 0 8	596.980	2.300E-04	1.927E-04	1.526E-04	1.120E-04	7.417E-05	4.239E-05	688.941
565		7 0 19	596.987	2.486E-03	1.472E-03	7.683E-04	3.391E-04	1.189E-04	3.001E-05	1483.544
566	628	2 0 7	596.995	2.088E-04	1.753E-04	1.393E-04	1.024E-04	6.828E-05	3.928E-05	683.036
567		5 0 66	597.008	1.992E-05	6.063E-06	1.425E-06	2.373E-07	2.458E-08	1.294E-05	3009.060
568	628	2 0 6	597.009	1.555E-04	1.561E-04	1.243E-04	9.193E-05	6.142E-05	3.551E-05	677.869
569	628	2 0 5	597.020	1.603E-04	1.352E-04	1.079E-04	8.003E-05	5.365E-05	3.116E-05	673.440
570	628	2 0 4	597.029	1.335E-04	1.128E-04	9.021E-05	6.704E-05	4.508E-05	2.628E-05	669.749
571	628	2 0 3	597.037	1.053E-04	8.909E-05	7.136E-05	5.314E-05	3.582E-05	2.094E-05	666.797
572		7 0 70	597.040	1.654E-06	4.477E-07	9.141E-08	1.281E-08	1.070E-09	4.273E-11	3278.251
573	628	2 0 2	597.042	7.605E-05	6.438E-05	5.163E-05	3.850E-05	2.599E-05	1.523E-05	664.543
574	628	2 0 1	597.043	4.595E-05	3.893E-05	3.124E-05	2.332E-05	1.576E-05	9.252E-06	663.106
575		7 0 17	597.056	2.561E-03	1.535E-03	8.137E-04	3.659E-04	1.313E-04	3.414E-05	1454.968
576		7 0 88	597.073	2.704E-06	7.674E-07	1.659E-07	2.451E-08	4.270E-09	1.013E-10	3169.782
577		7 0 66	597.104	4.352E-06	1.293E-06	2.954E-07	4.745E-08	4.704E-09	2.346E-10	3064.174
578		7 0 15	597.118	2.563E-03	1.554E-03	8.349E-04	3.816E-04	1.398E-04	3.733E-05	142
579		7 0 64	597.132	6.894E-06	2.142E-06	5.162E-07	8.853E-08	9.524E-09	5.263E-10	2962.37
580		7 0 62	597.158	1.075E-05	3.488E-06	8.852E-07	1.618E-07	1.884E-08	1.153E-09	2862.871
581		7 0 13	597.172	2.683E-03	1.520E-03	8.234E-04	3.834E-04	1.430E-04	3.509E-05	1406.410
582		7 0 60	597.181	1.650E-05	5.582E-06	1.490E-06	2.855E-07	3.641E-08	2.454E-09	2766.780
583		7 4 58	597.202	2.492E-05	8.760E-06	2.460E-06	5.073E-07	6.872E-08	5.106E-09	2673.748
584		7 0 11	597.219	2.314E-03	1.429E-03	7.848E-04	3.686E-04	1.397E-04	3.896E-05	1366.628
545		7 0 56	597.221	3.704E-05	1.357E-05	3.985E-06	8.705E-07	1.267E-07	1.633E-08	2583.925

LINE	BAND CODE	WAVENUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
586	7 Q 54	597.238	5.416E-05	2.061E-05	6.333E-06	1.462E-06	2.281E-07	2.032E-08	2497.165
587	7 Q 52	597.253	7.792E-05	3.075E-05	9.873E-06	2.405E-06	4.011E-07	3.894E-08	2413.519
588	7 Q 4	597.258	2.055E-03	1.277E-03	7.077E-04	3.359E-04	1.290E-04	3.658E-05	1376.385
589	7 Q 50	597.266	1.103E-04	4.508E-05	1.510E-05	3.871E-06	6.886E-07	7.463E-08	2332.987
590	636 1 P 68	597.268	3.854E-05	1.966E-05	8.588E-06	3.046E-06	8.122E-07	1.441E-07	1828.099
591	7 Q 48	597.278	1.535E-04	6.491E-05	2.633E-05	6.099E-06	1.154E-06	1.318E-07	2255.571
592	7 Q 44	597.288	2.102E-04	9.180E-05	3.328E-05	9.404E-06	1.888E-06	2.328E-07	2181.273
593	7 Q 7	597.290	1.704E-03	1.066E-03	5.949E-04	2.848E-04	1.105E-04	3.178E-05	1357.064
594	7 Q 44	597.298	2.830E-04	1.275E-04	4.797E-05	1.419E-05	3.015E-06	3.999E-07	2110.054
595	11 R 19	597.301	3.610E-05	1.597E-05	5.876E-06	1.691E-06	3.476E-07	4.414E-08	2152.326
596	7 Q 42	597.306	3.745E-04	1.738E-04	6.777E-05	2.093E-05	4.699E-06	6.683E-07	2042.036
597	7 Q 40	597.312	4.873E-04	2.326E-04	9.384E-05	3.022E-05	7.143E-06	1.086E-06	1977.098
598	7 Q 5	597.314	1.270E-03	7.982E-04	4.478E-04	2.157E-04	8.440E-05	2.452E-05	1346.801
599	7 Q 38	597.318	6.230E-04	3.055E-04	1.273E-04	4.264E-05	1.059E-05	1.716E-06	1915.283
600	7 Q 36	597.323	7.825E-04	3.937E-04	1.692E-04	5.883E-05	1.531E-05	2.636E-06	1856.591
601	7 Q 34	597.327	9.654E-04	4.977E-04	2.201E-04	7.932E-05	2.159E-05	3.933E-06	1801.023
602	7 Q 3	597.331	7.466E-04	4.706E-04	2.649E-04	1.282E-04	5.045E-05	1.477E-05	1339.831
603	7 Q 32	597.331	1.169E-03	6.167E-04	2.803E-04	1.045E-04	2.965E-05	5.701E-06	1748.581
604	7 Q 30	597.334	1.390E-03	7.489E-04	3.933E-04	1.344E-04	3.966E-05	8.023E-06	1694.265
605	7 Q 28	597.336	1.620E-03	8.908E-04	4.257E-04	1.686E-04	5.165E-05	1.096E-05	1653.077
606	7 Q 26	597.338	1.851E-03	1.037E-03	5.070E-04	2.064E-04	6.544E-05	1.451E-05	1610.016
607	7 Q 24	597.339	2.072E-03	1.181E-03	5.895E-04	2.463E-04	8.060E-05	1.862E-05	1570.044
608	7 Q 22	597.340	2.685E-03	1.314E-03	6.887E-04	2.860E-04	9.640E-05	2.313E-05	1533.282
609	7 Q 20	597.341	2.427E-03	1.427E-03	7.389E-04	3.229E-04	1.118E-04	2.777E-05	1499.609
610	7 Q 2	597.342	4.315E-04	2.722E-04	1.535E-04	7.439E-05	2.932E-05	8.603E-06	1337.681
611	7 Q 4	597.342	1.021E-03	6.428E-04	3.613E-04	1.745E-04	6.849E-05	1.999E-05	1342.964
612	7 Q 6	597.342	1.498E-03	9.393E-04	5.256E-04	2.525E-04	9.841E-05	2.841E-05	1351.581
613	7 Q 8	597.342	1.890E-03	1.179E-03	6.557E-04	3.126E-04	1.2 -04	3.445E-05	1363.311
614	7 Q 10	597.342	2.195E-03	1.361E-03	7.509E-04	3.546E-04	1.3 -04	3.807E-05	1378.213
615	7 Q 12	597.342	2.410E-03	1.482E-03	8.103E-04	3.783E-04	1.4 -04	4.29E-05	1396.225
616	7 Q 14	597.342	2.535E-03	1.544E-03	8.350E-04	3.846E-04	1.422	4.6E-05	1417.376
617	7 Q 16	597.342	2.573E-03	1.551E-03	8.241E-04	3.755E-04	1.362	4.70E-05	1441.656
618	7 Q 18	597.342	2.533E-03	1.509E-03	7.941E-04	3.539E-04	1.2561	3.218E-05	1469.907
619	636 4 P 68	597.372	1.413E-06	5.423E-07	1.683E-07	3.931E-08	6.218E-09	5.637E-10	2481.313
620	16 R 3	597.396	1.987E-05	9.064E-06	3.462E-06	1.043E-06	2.267E-07	3.097E-08	2081.540
621	17 94	597.989	1.727E-06	6.291E-07	7.910E-08	9.778E-07	1.986E-10	2.281E-11	3474.651
622	4 P 25	598.007	6.632E-04	3.066E-04	1.591E-04	2.502E-04	1.287E-04	5.911E-05	902.315
623	11 R 20	598.069	3.569E-05	1.568E-05	5.723E-06	1.631E-06	3.310E-07	4.136E-08	2168.016
624	19 P 23	598.103	2.313E-04	1.025E-04	3.780E-05	1.091E-05	2.250E-06	2.469E-07	2148.113
625	2 P 25	598.403	5.918E-07	4.477E-07	3.137E-07	1.984E-07	1.091E-07	4.909E-08	921.239
626	5 P 64	598.462	3.157E-05	1.005E-05	2.491E-06	4.425E-07	4.974E-08	2.508E-09	2947.106
627	2 R 1	598.520	1.515E-05	1.301E-05	1.044E-05	7.793E-06	5.468E-06	3.094E-06	603.105
628	4 P 66	598.714	6.115E-07	3.314E-07	1.529E-07	5.800E-08	1.682E-08	3.232E-07	1723.058
629	4 P 66	598.831	2.106E-07	9.145E-07	2.998E-07	7.491E-08	1.289E-08	1.302E-09	2375.998
630	11 R 21	598.837	3.503E-05	1.528E-05	5.528E-06	1.559E-06	3.122E-07	3.636E-08	2164.692

LINE	BAND CODE	WAVE NUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	LINE RGY
670	636	4 P 63	4.595E-06	1.975E-06	7.018E-07	1.935E-07	3.768E-06	4.461E-09	221.274
671		1 P 86	2.361E-05	7.496E-06	1.893E-06	3.281E-07	3.672E-08	2.135E-09	2912.175
678		2 R 7	6.265E-04	5.187E-04	2.185E-04	1.045E-04	4.056E-05	1.166E-05	1351.064
679	628	7 R 8	1.097E-04	9.184E-05	7.270E-05	5.336E-05	3.532E-05	2.018E-05	688.906
680	636	2 P 17	8.850E-04	7.166E-04	5.448E-04	3.809E-04	2.367E-04	1.248E-04	767.992
681		11 R 28	2.568E-05	1.055E-05	3.551E-06	9.170E-07	1.645E-07	1.755E-08	2321.740
682		19 P 15	2.800E-04	1.308E-04	5.140E-05	1.603E-05	3.643E-06	5.265E-07	2026.241
683		7 R 8	7.212E-04	4.498E-04	2.501E-04	1.192E-04	6.601E-05	1.314E-05	1303.331
684		5 P 56	1.699E-04	6.371E-05	1.923E-05	4.347E-06	6.602E-07	5.644E-08	2530.233
685	628	2 R 9	1.197E-04	9.993E-05	7.883E-05	5.761E-05	3.793E-05	2.153E-05	695.541
686	636	1 P 58	3.559E-04	2.252E-04	1.273E-04	6.192E-05	2.450E-05	7.241E-06	1333.850
687	636	4 P 58	1.306E-05	6.220E-06	2.500E-06	8.015E-07	1.884E-07	2.841E-08	1985.776
688		2 F 17	7.900E-02	6.334E-02	4.761E-02	3.240E-02	2.007E-02	1.037E-02	786.903
689	636	4 P 61	7.103E-06	3.185E-06	1.191E-06	3.496E-07	7.356E-08	9.647E-09	2123.877
690		11 R 29	2.401E-05	9.761E-06	3.248E-06	8.269E-07	1.456E-07	1.517E-08	2344.511
691		1 P 84	4.371E-05	1.470E-05	3.896E-06	7.509E-07	9.344E-08	6.247E-09	2779.385
692		16 R 13	6.357E-05	2.816E-05	1.038E-05	2.997E-06	6.178E-07	7.879E-08	2147.904
693	628	2 R 10	1.286E-04	1.070E-04	8.406E-05	6.114E-05	4.002E-05	2.254E-05	702.912
694		4 P 84	1.542E-06	3.991E-07	7.432E-08	9.303E-09	4.751E-10	2.249E-11	3454.045
695		7 R 9	8.082E-04	5.025E-04	2.783E-04	1.320E-04	5.068E-05	1.437E-05	1370.380
696	636	17 P 62	1.500E-06	3.749E-07	6.958E-08	8.677E-09	6.267E-10	2.075E-11	3660.029
697		2 P 15	8.928E-04	7.311E-04	5.633E-04	3.999E-04	2.539E-04	1.375E-04	742.218
698		11 R 30	2.232E-05	8.984E-06	2.932E-06	7.401E-07	1.280E-07	1.301E-08	2368.033
699		19 P 13	2.739E-04	1.292E-04	5.138E-05	1.628E-05	3.762E-06	5.565E-07	2003.582
700		5 P 54	2.486E-04	9.679E-05	3.037E-05	7.301E-06	1.188E-06	1.118E-07	2443.760
701	628	2 R 11	1.362E-04	1.129E-04	8.837E-05	6.354E-05	4.158E-05	2.323E-05	711.021
702		7 R 10	8.857E-04	5.488E-04	3.027E-04	1.429E-04	5.450E-05	1.533E-05	1378.213
703	636	1 P 56	5.291E-04	3.481E-04	2.062E-04	1.062E-04	4.514E-05	1.459E-05	1246.255
704	636	4 P 56	1.942E-05	9.615E-06	4.051E-06	1.375E-06	3.472E-07	5.742E-08	1895.549
705	636	4 P 59	1.081E-05	5.050E-06	1.984E-06	6.184E-07	1.403E-07	2.863E-08	2029.581
706		2 P 15	606.278	6.463E-02	4.923E-02	3.448E-02	2.154E-02	1.142E-02	761.126
707		1 P 82	7.968E-05	2.836E-05	8.042E-06	1.684E-06	2.324E-07	1.770E-08	2649.072
708		11 R 31	2.045E-05	8.223E-06	2.688E-06	6.585E-07	1.114E-07	1.186E-08	2392.350
709	628	2 R 12	1.428E-04	1.178E-04	4.174E-05	6.600E-05	4.262E-05	2.359E-05	719.886
710		16 R 15	6.600E-05	2.895E-05	1.055E-05	3.000E-06	6.073E-07	7.567E-08	2170.545
711		4 P 82	2.908E-04	7.704E-07	1.536E-07	2.089E-08	1.682E-09	6.400E-11	3323.446
712		7 R 11	9.538E-04	5.887E-04	3.232E-04	1.517E-04	5.748E-05	1.602E-05	1388.828
713		17 P 60	2.303E-06	6.004E-07	1.172E-07	1.559E-08	1.212E-09	4.628E-11	3362.961
714		11 K 32	1.901E-05	7.486E-06	2.977E-06	5.822E-07	9.675E-08	9.353E-09	2417.438
715	636	2 P 13	8.734E-04	7.223E-04	5.631E-04	4.054E-04	2.622E-04	1.453E-04	719.566
716	628	2 R 13	1.478E-04	1.215E-04	9.417E-05	6.734E-05	4.315E-05	2.365E-05	729.449
717		5 P 52	3.578E-04	1.445E-04	4.766E-05	1.201E-05	2.088E-06	2.141E-07	2360.388
718		19 P 11	2.586E-04	1.230E-04	4.942E-05	1.588E-05	3.771E-06	5.616E-07	1486.047
719		7 R 12	1.011E-03	6.215E-04	3.966E-04	1.585E-04	5.957E-05	1.645E-05	1390.229
720	636	1 P 54	7.740E-04	5.287E-04	3.277E-04	1.784E-04	8.123E-05	2.868E-05	1157.842

LINE	BAND CODE	WAVELENGTH	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
721	636	4 P 57	1.619E-05	7.867E-06	3.241E-06	1.071E-06	2.613E-07	4.138E-08	1938.387
722	636	4 P 54	2.840E-05	1.460E-05	6.437E-06	2.310E-06	6.249E-07	1.130E-07	1809.311
723	1 P 80	6.07.796	1.430E-04	5.379E-05	1.630E-05	3.700E-06	5.631E-07	4.901E-08	4543.636
724	2 P 13	6.07.849	7.798E-02	6.385E-02	4.921E-02	3.497E-02	2.244E-02	1.207E-02	738.472
725	4 P 80	6.07.969	5.221E-06	1.464E-06	3.117E-07	4.598E-08	4.079E-09	1.778E-10	3147.032
726	11 R 33	6.07.988	1.741E-05	6.778E-06	2.141E-06	5.115E-07	8.326E-08	7.837E-09	2443.223
727	628	2 R 14	1.517E-04	1.242E-04	9.570E-05	6.797E-05	4.320E-05	2.342E-05	739.768
728	16 R 17	6.08.047	6.629E-05	2.875E-05	1.033E-05	2.891E-06	5.733E-07	6.958E-08	6190.307
729	628	1 P 77	1.216E-06	5.250E-07	1.877E-07	5.218E-08	1.026E-08	1.232E-09	2207.184
730	7 R 13	6.08.309	1.059E-03	6.478E-04	3.521E-04	1.632E-04	6.086E-05	1.683E-05	1400.410
731	17 P 58	6.08.483	3.481E-06	9.448E-07	1.936E-07	2.723E-08	2.288E-09	9.198E-11	3270.959
732	17 P 63	6.08.550	1.233E-06	3.021E-07	5.474E-08	6.629E-09	4.617E-10	1.454E-11	3505.566
733	628	2 R 15	6.08.713	1.257E-04	9.634E-05	6.754E-05	4.280E-05	2.294E-05	750.824
734	11 R 34	6.08.744	1.586E-05	6.105E-06	1.902E-06	4.466E-07	7.117E-08	6.518E-09	2469.975
735	628	1 P 76	1.575E-06	6.972E-07	2.568E-07	7.399E-08	1.522E-08	1.936E-09	2150.644
736	5 P 50	6.08.784	5.067E-04	2.118E-04	7.288E-05	1.932E-05	3.584E-06	3.584E-06	2280.120
737	636	2 P 11	6.08.788	6.877E-04	5.416E-04	3.950E-04	2.933E-04	1.466E-04	700.038
738	4 P 85	6.08.803	1.208E-06	2.468E-07	5.310E-08	6.389E-09	4.413E-10	1.380E-11	3515.745
739	636	4 P 55	2.384E-05	1.204E-05	5.195E-06	1.816E-06	4.754E-07	8.240E-08	1850.299
740	7 R 14	6.08.864	1.095E-03	6.688E-04	3.603E-04	1.658E-04	6.111E-05	1.658E-05	1417.376
741	19 P 9	6.08.881	2.339E-04	1.120E-04	4.539E-05	1.470E-05	3.499E-06	5.370E-07	1967.638
742	636	1 P 52	6.08.917	1.114E-03	5.109E-04	2.932E-04	1.427E-04	5.491E-05	1074.493
743	636	4 P 52	6.09.131	4.085E-04	1.003E-05	3.797E-06	1.098E-06	2.163E-07	1725.745
744	1 P 78	6.09.213	2.528E-04	1.003E-04	3.243E-05	7.966E-06	1.343E-06	1.322E-07	2399.481
745	4 P 78	6.09.390	9.237E-06	2.733E-06	6.209E-07	9.915E-08	9.755E-09	4.806E-10	3073.157
746	2 P 11	6.09.418	7.362E-02	6.080E-02	4.734E-02	3.406E-02	2.200E-02	1.218E-02	718.943
747	628	1 P 75	6.09.428	9.221E-07	3.497E-07	1.044E-07	2.246E-08	3.025E-09	2094.928
748	628	2 R 16	6.09.433	1.263E-04	9.614E-05	6.730E-05	4.199E-05	2.224E-05	762.617
749	11 R 35	6.09.501	1.439E-05	5.471E-06	1.680E-06	3.876E-07	6.042E-08	5.379E-09	2497.427
750	16 R 19	6.09.541	6.469E-05	2.770E-05	9.808E-06	2.693E-06	5.219E-07	6.147E-08	2225.191
751	17 P 61	6.09.774	1.906E-06	4.872E-07	9.290E-08	1.157E-08	9.012E-10	3.147E-11	3408.166
752	17 R 15	6.09.875	1.122E-03	6.796E-04	3.649E-04	1.667E-04	6.104E-05	1.624E-05	1424.123
753	17 P 56	6.09.941	5.176E-06	1.461E-06	3.137E-07	4.674E-08	4.218E-09	1.890E-10	3181.146
754	4 P 83	6.10.020	2.218E-06	5.729E-07	1.106E-07	1.447E-08	1.110E-09	3.973E-11	3384.360
755	628	1 P 74	2.615E-06	1.215E-06	4.741E-07	1.466E-07	3.296E-08	4.697E-09	2039.891
756	628	2 R 17	6.10.152	1.561E-04	9.517E-05	6.608E-05	4.082E-05	2.134E-05	775.147
757	636	4 P 53	6.10.200	3.455E-05	9.167E-06	3.014E-06	8.444E-07	1.597E-07	1765.315
758	11 R 36	6.10.256	1.299E-05	4.877E-06	1.476E-06	3.344E-07	5.096E-08	4.407E-09	2525.643
759	5 P 48	6.10.277	7.056E-04	3.051E-04	1.093E-04	3.044E-05	6.004E-06	7.234E-07	2402.957
760	636	2 P 9	6.10.338	7.456E-04	4.974E-04	3.665E-04	2.438E-04	1.402E-04	683.634
761	7 R 16	6.10.368	1.137E-03	6.652E-04	3.659E-04	1.657E-04	6.005E-05	1.587E-05	1441.656
762	636	1 P 50	6.10.424	1.577E-03	7.810E-04	4.719E-04	2.449E-04	1.025E-04	494.247
763	19 P 7	6.10.433	2.000E-04	5.636E-05	3.931E-05	1.284E-05	3.088E-06	4.804E-07	1954.354
764	636	4 P 50	6.10.516	5.781E-05	1.533E-05	6.100E-06	1.884E-06	4.031E-07	1645.242
765	1 P 76	6.10.633	4.400E-04	1.840E-04	6.335E-05	1.681E-05	3.120E-06	3.476E-07	2274.004

LINE	LAND CODE	WAYNUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
766	628	1 P 73	610.790	1.594E-06	6.399E-07	2.049E-07	4.810E-08	7.249E-09	1985.583
767	628	4 P 76	610.815	5.018E-06	1.216E-06	4.094E-07	2.269E-08	1.266E-09	2952.371
768	628	2 P 18	610.871	1.245E-04	9.348E-05	6.438E-05	3.934E-05	2.029E-05	786.414
769	628	2 P 9	610.987	5.536E-02	4.348E-02	3.161E-02	2.069E-02	1.165E-02	702.537
770	628	17 P 59	611.007	7.723E-07	1.547E-07	2.118E-08	1.719E-09	6.611E-11	3313.864
771	628	11 R 37	611.011	4.326E-06	1.289E-06	2.867E-07	4.270E-08	3.584E-09	2524.681
772	628	16 R 21	611.027	2.597E-05	9.041E-06	2.432E-06	4.594E-07	5.235E-08	2257.155
773	628	2 Q 86	611.060	2.672E-07	4.639E-08	5.331E-09	3.478E-10	1.010E-11	3587.179
774	628	4 P 01	611.245	1.095E-06	2.261E-07	3.212E-08	2.730E-09	1.115E-10	3256.055
775	628	17 P 54	611.406	2.219E-06	4.986E-07	7.853E-08	7.596E-09	3.661E-10	3094.403
776	628	4 Q 89	611.430	5.242E-07	9.756E-08	1.221E-08	8.859E-10	2.951E-11	3454.045
777	628	7 R 17	611.441	6.854E-04	3.631E-04	1.632E-04	5.851E-05	1.521E-05	1454.968
778	628	4 P 72	611.472	2.083E-06	8.608E-07	2.850E-07	6.982E-08	1.114E-08	1932.004
779	636	4 P 51	611.553	4.925E-05	1.259E-05	4.896E-06	1.465E-06	3.013E-07	1683.434
780	628	2 R 19	611.588	1.222E-04	9.115E-05	6.219E-05	3.759E-05	1.911E-05	802.417
781	628	11 R 38	611.764	1.043E-05	1.609E-06	2.445E-07	3.554E-08	2.894E-09	2586.442
782	628	5 P 46	611.773	9.665E-04	1.607E-04	4.692E-05	9.818E-06	1.277E-06	6148.899
783	628	2 Q 82	611.787	3.813E-06	2.015E-07	2.740E-08	2.206E-09	8.597E-11	3323.946
784	636	7 R 18	611.864	1.141E-03	6.791E-04	3.590E-04	1.444E-05	1.444E-05	1469.067
785	636	2 P 7	611.890	6.376E-04	4.307E-04	3.201E-04	2.152E-04	1.254E-04	670.355
786	636	1 P 48	611.905	2.196E-03	1.171E-03	7.431E-04	4.102E-04	1.855E-04	917.108
787	636	19 P 5	611.987	1.579E-04	3.135E-05	1.030E-05	2.699E-06	3.928E-07	1944.195
788	636	1 P 74	612.057	7.541E-04	1.215E-04	3.474E-05	7.082E-06	8.904E-07	2161.621
789	636	4 P 48	612.104	8.043E-05	2.297E-05	9.615E-06	3.155E-06	7.307E-07	1567.953
790	628	2 Q 80	612.131	6.845E-06	1.918E-06	6.025E-08	5.368E-09	2.328E-10	3197.032
791	628	1 P 71	612.154	5.442E-06	1.151E-06	3.944E-07	1.004E-07	1.694E-08	1879.154
792	628	4 P 74	612.244	2.760E-05	2.318E-06	4.335E-07	5.160E-08	3.248E-09	4834.678
793	628	17 P 57	612.257	4.340E-06	2.527E-07	3.867E-08	3.201E-09	1.352E-10	3222.862
794	628	2 R 20	612.303	1.193E-04	8.826E-05	5.965E-05	3.563E-05	1.784E-05	817.157
795	628	2 Q 78	612.462	3.579E-06	8.131E-07	1.298E-07	1.277E-08	6.291E-10	3075.157
796	628	4 P 79	612.478	2.060E-06	4.540E-07	6.986E-08	6.563E-09	3.047E-10	3130.833
797	628	16 R 23	612.505	2.373E-05	8.112E-06	2.134E-06	3.914E-07	4.306E-08	2292.326
798	628	11 R 39	612.518	9.284E-06	9.682E-07	2.072E-07	2.939E-08	2.319E-09	2615.026
799	628	2 P 7	612.534	5.693E-02	3.765E-02	2.760E-02	1.826E-02	1.444E-02	689.256
800	628	2 Q 76	612.780	2.106E-05	1.589E-06	2.740E-07	2.969E-08	1.656E-09	2952.371
801	628	1 P 70	612.836	6.897E-06	1.533E-06	5.432E-07	1.447E-07	2.567E-08	1827.033
802	628	17 P 52	612.875	1.090E-05	7.773E-07	1.291E-07	1.235E-08	7.614E-10	3010.771
803	636	4 P 49	612.915	6.905E-05	7.783E-06	2.479E-06	5.531E-07	1.604E-07	1604.671
804	628	7 R 19	613.006	1.130E-03	3.489E-04	1.538E-04	5.390E-05	1.300E-05	1483.444
805	628	2 R 21	613.318	1.471E-04	8.489E-05	5.681E-05	3.351E-05	1.651E-05	832.634
806	628	2 Q 74	613.087	1.184E-05	3.049E-06	5.667E-07	6.745E-08	4.246E-09	4834.678
807	628	19 Q 64	613.149	3.524E-06	6.208E-08	7.262E-09	4.844E-10	1.446E-11	3554.262
808	628	11 R 40	613.264	2.931E-06	6.226E-07	1.746E-07	2.168E-08	1.845E-09	2646.364
809	628	5 P 44	613.274	5.994E-04	2.316E-04	7.076E-05	1.587E-05	2.141E-06	2077.950
810	628	19 Q 62	613.321	2.297E-06	1.065E-07	1.327E-08	9.584E-10	3.172E-11	3466.064

LINE	BAND CODE	WAVELENGTH	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
811	7 R 40	613.352	1.110E-03	6.541E-04	3.375E-04	1.474E-04	5.099E-05	1.466E-05	1499.609
812	2 O 72	613.382	6.087E-05	2.100E-05	5.739E-06	1.148E-06	1.498E-07	1.061E-08	2720.078
813	636	613.390	3.0C7E-03	2.356E-03	1.721E-03	1.145E-03	6.707E-04	3.272E-04	843.076
814	636	613.445	5.0J6E-04	4.272E-04	3.435E-04	2.569E-04	1.741E-04	1.025E-04	660.199
815	9 P 75	613.445	1.159E-06	2.759E-07	4.850E-08	5.660E-09	3.763E-10	1.120E-11	3563.186
816	1 P 72	613.485	1.272E-03	5.887E-04	2.247E-04	7.036E-05	1.571E-05	2.224E-06	4047.314
817	19 Q 60	613.504	3.525E-06	9.187E-07	1.792E-07	3.76E-08	1.852E-09	6.767E-11	363.461
818	17 P 55	613.516	6.393E-C6	1.841E-06	4.050E-07	9.216E-08	5.822E-09	2.693E-10	3134.264
819	628	613.519	8.708E-06	4.538E-06	2.033E-06	7.445E-07	2.067E-07	3.864E-08	1775.643
820	19 P 3	613.545	1.092E-04	5.302E-05	2.182E-05	7.203E-06	1.757E-06	2.782E-07	1937.162
821	636	613.595	1.100E-04	6.491E-05	3.374E-05	1.481E-05	5.155E-06	1.289E-06	1493.729
822	2 O 70	613.665	1.011E-04	3.662E-05	1.061E-05	2.279E-06	3.250E-07	2.581E-08	2608.575
823	4 P 72	613.677	4.659E-C5	1.408E-05	4.393E-06	8.789E-07	1.146E-07	8.118E-09	470.078
824	19 Q 58	613.678	3.326E-06	1.445E-06	2.960E-07	4.184E-08	3.447E-09	1.406E-10	3270.444
825	4 P 77	613.718	1.252E-C5	3.489E-06	8.949E-07	1.489E-07	1.542E-08	8.116E-10	3008.644
826	628	613.731	1.428E-04	1.115E-04	8.111E-05	5.372E-05	3.128E-05	1.516E-05	648.847
827	1 P 70	613.773	1.004E-06	4.998E-07	2.121E-07	7.269E-08	1.858E-08	3.144E-09	1878.882
828	19 Q 56	613.843	7.917E-06	2.234E-06	4.794E-07	7.148E-08	6.448E-09	2.843E-10	3161.146
829	2 O 68	613.936	1.653E-C4	6.277E-05	1.924E-05	4.431E-06	6.891E-07	6.117E-08	2500.169
830	16 R 25	613.976	5.179E-C5	2.118E-05	7.094E-06	1.821E-06	3.243E-07	3.426E-08	2330.565
831	19 Q 54	614.001	1.198E-05	3.394E-06	7.624E-07	1.201E-07	1.161E-08	5.996E-10	3094.403
832	11 R 41	614.021	7.256E-C6	2.549E-06	7.148E-07	1.463E-07	1.972E-08	1.458E-09	2678.519
833	2 P 5	614.120	4.986E-07	3.777E-07	3.022E-07	2.215E-07	1.477E-07	8.520E-08	674.100
834	19 Q 52	614.151	1.668E-05	5.065E-06	1.189E-06	1.975E-07	2.042E-08	1.073E-09	3010.771
835	2 O 66	614.197	2.660E-04	1.058E-04	3.426E-05	8.439E-06	1.428E-06	1.412E-07	2394.863
836	628	614.203	1.095E-05	5.835E-06	2.689E-06	1.015E-06	2.935E-07	5.781E-08	1724.982
837	9 P 74	614.258	1.510E-06	3.701E-07	6.707E-08	8.125E-09	5.661E-10	1.790E-11	3504.604
838	636	614.284	9.519E-05	5.529E-05	2.821E-05	1.211E-05	4.097E-06	9.877E-07	1529.613
839	19 Q 50	614.293	2.359E-C5	7.427E-06	1.818E-06	3.180E-07	3.506E-08	2.001E-09	4930.253
840	17 P 50	614.350	1.542E-C5	4.855E-06	1.188E-06	2.078E-07	2.292E-08	1.308E-09	2930.253
841	19 Q 48	614.427	3.285E-05	1.070E-05	2.726E-06	5.011E-07	5.878E-08	3.631E-09	2854.844
842	2 K 23	614.443	1.378E-04	1.048E-04	7.701E-05	5.045E-05	2.898E-05	1.380E-05	865.756
843	2 O 64	614.447	4.214E-04	1.752E-04	5.984E-05	1.574E-05	2.840E-06	3.175E-07	242.658
844	627	614.473	1.276E-06	6.503E-07	4.837E-07	1.008E-07	2.881E-08	4.759E-09	1826.037
845	19 U 46	614.555	4.499E-05	1.513E-05	4.009E-06	7.727E-07	9.619E-08	6.414E-09	2778.562
846	7 R 21	614.571	1.085E-03	6.327E-04	3.246E-04	1.402E-04	4.789E-05	1.169E-05	1516.051
847	19 U 44	614.676	6.058E-C5	2.102E-05	5.781E-06	1.168E-06	1.536E-07	1.102E-08	2707.592
848	2 O 62	614.687	6.572E-C4	2.852E-04	1.027E-04	2.876E-05	5.714E-06	6.851E-07	2193.557
849	11 R 42	614.770	6.372E-06	2.207E-06	6.056E-07	1.218E-07	1.600E-08	1.143E-09	2711.475
850	5 P 42	614.774	1.723E-03	8.173E-04	3.272E-04	1.044E-04	2.440E-05	.659E-06	1940.105
851	17 P 53	614.787	9.263E-06	2.768E-06	6.366E-07	1.032E-07	1.034E-08	5.219E-10	3147.571
852	19 U 42	614.749	8.020E-05	2.866E-05	8.169E-06	1.721E-06	2.394E-07	1.842E-08	2639.341
853	4 P 73	614.831	1.465E-06	4.937E-07	9.222E-08	1.159E-08	8.458E-10	2.817E-11	3446.922
854	7 R 22	614.832	1.952E-04	6.087E-04	3.094E-04	1.322E-04	4.454E-05	1.068E-05	1533.282
855	1 P 44	614.879	4.050E-C3	3.271E-03	2.480E-03	1.727E-03	1.070E-03	5.616E-04	772.152

LINE	BAND CODE	WAVE NUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
856	628	1 P 67	614.887	7.674E-06	3.529E-06	1.378E-06	4.146E-07	8.592E-08	1675.051
857	19 Q 40	614.897	1.044E-C4	3.037E-03	1.131E-05	2.465E-06	3.647E-07	2.994E-08	2574.410
858	1 P 70	614.916	2.114E-03	1.026E-03	4.226E-04	1.394E-04	3.477E-05	5.400E-06	1936.105
859	2 Q 60	614.917	1.009E-03	4.564E-04	1.727E-04	5.145E-05	1.104E-05	1.482E-C6	2047.560
860	4 P 75	614.967	2.161E-05	6.925E-06	1.731E-06	3.108E-07	3.540E-08	2.106E-09	2889.642
861	19 Q 38	614.998	1.335E-04	5.041E-05	1.535E-05	3.507E-06	5.400E-07	4.733E-08	2512.6C1
862	2 P 3	615.003	3.483E-04	2.963E-04	2.391E-04	1.796E-04	1.224E-04	7.260E-05	653.164
863	636	2 Q 70	615.024	4.156E-04	2.17E-07	2.651E-08	3.843E-09	3.114E-10	2589.729
864	636	4 P 44	615.050	9.049E-05	4.858E-05	2.231E-05	8.220E-06	2.211E-06	1444.621
865	19 Q 36	615.092	1.677E-04	6.498E-05	2.041E-05	4.840E-06	7.810E-07	7.270E-08	2453.514
866	19 P 1	615.105	5.581E-05	2.714E-05	1.119E-05	3.703E-06	9.059E-07	1.440E-07	1933.255
867	4 P 70	615.113	7.744E-05	2.805E-05	8.124E-06	1.745E-06	2.489E-07	1.576E-08	2608.575
868	2 U 58	615.116	1.523E-03	7.179E-04	2.852E-04	9.015E-05	2.081E-05	3.077E-06	2004.665
869	628	2 R 24	615.154	1.017E-04	7.268E-05	4.708E-05	2.866E-05	1.247E-05	883.482
870	627	1 P 68	615.173	8.426E-07	3.778E-07	1.384E-07	3.847E-08	7.204E-09	1773.942
871	19 Q 34	615.181	2.070E-04	8.216E-05	2.656E-05	6.528E-06	1.101E-06	1.045E-07	4348.351
872	636	2 Q 68	615.194	7.123E-07	2.208E-07	5.154E-08	8.147E-09	7.381E-10	4981.313
873	19 Q 32	615.264	2.507E-04	1.018E-04	3.384E-05	8.600E-06	1.313E-06	1.574E-07	2345.912
874	19 Q 30	615.341	2.981E-04	1.237E-04	4.219E-05	1.104E-05	2.025E-06	2.415E-07	2246.549
875	2 Q 56	615.346	2.264E-05	1.109E-03	4.819E-04	1.546E-04	3.839E-05	6.219E-06	1914.886
876	636	2 Q 66	615.355	1.200E-06	3.931E-07	9.815E-08	1.888E-08	1.704E-09	2375.998
877	19 Q 28	615.412	3.477E-04	1.472E-04	5.143E-05	1.349E-05	2.618E-06	3.027E-07	2250.413
878	16 R 27	615.440	4.599E-05	1.847E-05	6.051E-06	1.513E-06	2.847E-07	2.840E-08	2371.529
879	19 Q 26	615.478	3.975E-C4	1.715E-04	6.124E-05	1.702E-05	3.344E-06	4.010E-07	2207.354
880	636	2 Q 64	615.507	1.988E-06	6.869E-07	1.831E-07	3.416E-08	3.830E-09	2273.784
881	11 R 43	615.520	5.570E-C6	1.901E-06	5.124E-07	1.009E-07	1.290E-08	8.903E-10	4745.139
882	19 Q 24	615.539	4.452E-04	1.954E-04	7.130E-05	2.031E-05	4.121E-06	5.167E-07	2167.423
883	2 Q 54	615.547	3.310E-03	1.685E-03	7.340E-04	2.597E-04	6.911E-05	1.244E-05	1828.213
884	628	1 P 66	615.572	1.714E-05	4.619E-06	1.461E-06	5.824E-07	1.470E-07	1625.851
885	19 Q 22	615.595	4.878E-04	2.176E-04	8.093E-05	2.360E-05	4.932E-06	6.400E-07	2130.622
886	9 P 72	615.597	2.548E-C6	6.265E-07	1.263E-07	1.647E-08	1.258E-09	4.474E-11	3389.901
887	19 Q 20	615.645	5.224E-04	2.365E-04	8.951E-05	2.667E-05	5.725E-06	7.841E-07	2046.950
888	4 P 45	615.650	7.382E-C6	3.236E-06	1.178E-06	3.344E-07	8.794E-08	8.383E-09	2174.676
889	636	2 P 3	615.681	7.734E-05	4.099E-05	1.842E-05	6.507E-06	1.716E-06	1456.466
890	19 Q 18	615.684	3.109E-02	2.620E-02	2.040E-02	1.549E-02	1.039E-02	6.634E-03	672.368
891	19 Q 16	615.691	5.628E-C4	4.504E-04	9.631E-05	4.427E-05	6.437E-06	8.522E-07	2066.408
892	19 U 16	615.731	5.552E-C4	2.578E-04	1.008E-04	3.110E-05	6.993E-06	9.970E-07	2038.957
893	2 Q 52	615.738	4.762E-03	2.514E-03	1.148E-03	4.271E-04	1.215E-04	2.344E-05	1744.850
894	19 Q 14	615.767	5.481E-04	2.572E-04	1.017E-04	3.193E-05	7.318E-06	1.170E-06	2014.718
895	636	2 Q 60	615.735	5.177E-06	1.981E-06	5.982E-07	1.305E-07	1.108E-08	2078.672
896	19 U 12	615.798	5.231E-04	2.477E-04	9.898E-05	3.151E-05	7.346E-06	1.647E-06	1493.571
897	19 U 10	615.824	4.791E-04	4.287E-04	9.223E-05	2.970E-05	7.025E-06	1.669E-06	1475.556
898	17 P 48	615.830	2.146E-C5	6.988E-06	1.781E-06	3.273E-07	3.840E-08	4.274E-09	2852.644
899	19 U 8	615.846	4.165E-04	2.001E-04	8.134E-05	2.645E-05	6.330E-06	9.781E-07	1900.673
900	19 U 6	615.863	3.370E-C4	1.627E-04	6.650E-05	2.180E-05	5.267E-06	8.239E-07	1444.521

LINE	BAND CODE	WAVE NUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
946	636	2 Q 50	9.527E-04	6.931E-04	4.635E-04	2.767E-04	1.415E-04	5.403E-05	1.012.214
947	636	4 P 43	1.719E-04	1.062E-04	5.837E-05	2.742E-05	1.039E-05	2.849E-06	1.387.030
948	636	2 Q 28	1.111E-03	8.246E-04	5.648E-04	3.473E-04	1.853E-04	7.924E-05	966.080
949	636	2 Q 34	5.902E-02	4.068E-02	2.550E-02	1.498E-02	6.529E-03	2.364E-03	1132.781
950	636	2 Q 26	1.270E-03	9.603E-04	6.728E-04	4.252E-04	2.338E-04	1.049E-04	423.665
951	636	2 Q 24	1.421E-03	1.094E-03	7.825E-04	5.074E-04	2.877E-04	1.347E-04	883.176
952	636	2 Q 22	1.557E-03	1.218E-03	8.880E-04	5.895E-04	3.442E-04	1.674E-04	846.414
953	636	2 U 32	1.150E-02	5.041E-02	1.854E-02	8.948E-02	3.945E-03	3.424E-03	1080.244
954	636	2 Q 20	1.667E-03	1.233E-03	9.202E-04	6.661E-04	3.945E-04	2.011E-04	812.178
955	636	2 Q 18	1.712E-03	1.401E-03	1.056E-03	7.306E-04	4.490E-04	2.332E-04	762.269
956	636	2 P 1	1.589E-02	1.341E-02	1.072E-02	7.963E-03	5.355E-03	3.123E-03	668.162
957	636	2 Q 16	1.771E-03	1.442E-03	1.103E-03	7.763E-04	4.877E-04	2.605E-04	754.688
958	636	2 Q 14	1.749E-03	1.438E-03	1.144E-03	7.967E-04	5.103E-04	2.794E-04	730.835
959	628	2 K 27	1.134E-04	8.504E-05	5.849E-05	3.681E-05	1.991E-05	8.777E-06	543.458
960	627	1 P 65	3.110E-06	1.788E-06	8.676E-07	3.503E-07	1.099E-07	2.405E-08	1622.161
961	636	2 Q 50	8.500E-02	6.123E-02	4.048E-02	2.385E-02	1.200E-02	4.819E-03	1031.136
962	636	2 Q 12	1.668E-03	1.385E-03	1.085E-03	7.862E-04	5.141E-04	2.866E-04	709.211
963	636	2 Q 10	1.528E-03	1.278E-03	1.011E-03	7.409E-04	4.897E-04	2.791E-04	691.516
964	636	17 P 46	2.937E-05	9.877E-06	2.617E-06	5.043E-07	6.277E-08	4.185E-09	2774.562
965	636	2 Q 8	1.328E-03	1.119E-03	8.914E-04	6.596E-04	4.012E-04	2.558E-04	676.650
966	636	2 Q 6	1.755E-03	9.095E-04	5.293E-04	3.438E-04	3.671E-04	2.151E-04	664.913
967	636	4 P 39	1.735E-04	9.976E-05	5.704E-05	3.976E-05	2.704E-05	1.594E-05	656.306
968	636	2 Q 2	4.422E-04	3.766E-04	3.042E-04	2.289E-04	1.562E-04	9.287E-05	650.824
969	636	17 P 49	1.851E-05	5.932E-06	1.484E-06	2.664E-07	3.036E-08	1.807E-09	2888.404
970	636	2 Q 28	9.911E-02	7.285E-02	4.434E-02	2.993E-02	1.563E-02	6.581E-03	984.990
971	636	17 R 1	2.803E-05	1.363E-05	5.619E-06	1.859E-06	4.548E-07	7.248E-08	1933.255
972	636	2 Q 26	1.133E-01	9.485E-02	5.877E-02	3.665E-02	1.980E-02	9.717E-03	941.974
973	636	4 P 71	6.146E-05	2.176E-05	6.131E-06	1.274E-06	1.742E-07	1.311E-08	2680.803
974	636	9 P 69	5.422E-04	1.502E-04	3.152E-05	4.570E-06	1.945E-06	1.682E-07	4223.688
975	636	2 Q 24	1.268E-01	9.667E-02	6.837E-02	4.574E-02	2.440E-02	1.119E-02	502.084
976	628	1 P 63	3.262E-05	1.931E-05	1.008E-05	4.452E-06	1.562E-06	3.946E-07	1484.633
977	636	2 Q 22	1.390E-01	1.074E-01	7.759E-02	5.082E-02	2.919E-02	1.390E-02	865.320
978	636	7 R 25	9.268E-04	5.234E-04	2.583E-04	1.065E-04	3.428E-05	7.753E-06	1589.655
979	636	2 Q 20	1.488E-01	1.169E-01	8.580E-02	5.742E-02	3.348E-02	1.671E-02	831.683
980	636	11 R 46	3.625E-06	1.181E-06	3.014E-07	5.545E-08	6.513E-09	4.031E-10	2650.517
981	636	2 Q 18	1.555E-01	1.238E-01	9.231E-02	6.299E-02	3.806E-02	1.956E-02	801.174
982	636	7 R 26	8.771E-04	4.909E-04	2.397E-04	9.752E-05	3.089E-05	6.844E-06	1610.016
983	636	1 P 66	6.177E-03	2.965E-03	1.365E-03	5.165E-04	1.495E-04	2.949E-05	1722.950
984	636	5 P 38	2.867E-03	1.436E-03	6.142E-04	2.125E-04	5.494E-05	9.278E-06	1663.729
985	636	2 Q 16	1.581E-01	1.274E-01	9.639E-02	6.693E-02	4.137E-02	2.163E-02	773.752
986	636	2 P 14	1.561E-01	1.272E-01	9.749E-02	6.809E-02	4.249E-02	2.322E-02	744.238
987	636	1 P 40	6.974E-03	5.468E-03	4.049E-03	3.179E-03	2.531E-03	1.522E-03	614.633
988	636	2 U 12	1.489E-01	1.244E-01	9.483E-02	6.779E-02	4.344E-02	2.362E-02	728.413
989	636	2 U 10	1.364E-01	1.130E-01	8.835E-02	6.389E-02	4.154E-02	2.320E-02	711.417
990	636	2 Q 8	1.186E-01	9.889E-02	7.792E-02	5.688E-02	3.742E-02	2.122E-02	655.256

LINE	BAND CODE	WAVENUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
991	627	1 P 64	4.004E-06	2.270E-06	1.134E-06	4.726E-07	1.542E-07	3.549E-08	1573.070
992	628	2 R 28	1.067E-04	7.927E-05	5.437E-05	3.350E-05	1.702E-05	7.691E-06	961.588
993		2 Q 6	9.594E-02	8.042E-02	6.375E-02	4.688E-02	3.114E-02	1.767E-02	683.813
994		2 P 64	6.112E-05	2.627E-05	2.627E-05	6.470E-06	1.082E-07	1.082E-07	2394.863
995		2 Q 4	6.922E-02	5.824E-02	4.638E-02	3.430E-02	2.294E-02	1.320E-02	675.206
996		2 Q 2	3.948E-02	3.330E-02	2.659E-02	1.976E-02	1.326E-02	7.719E-03	669.728
997	636	4 P 40	2.541E-04	1.638E-04	9.470E-05	4.735E-05	1.940E-05	5.975E-06	1289.760
998		9 P 68	6.922E-06	1.963E-06	4.238E-07	6.359E-08	5.709E-09	2.582E-10	3169.782
999	628	1 P 62	4.012E-05	2.423E-05	1.296E-05	5.856E-06	2.140E-06	5.686E-07	1436.355
1000		16 R 31	3.414E-05	1.317E-05	4.113E-06	9.691E-07	1.551E-07	1.429E-08	2464.014
1001	636	4 P 41	2.451E-04	1.431E-04	8.144E-05	3.952E-05	1.554E-05	4.763E-06	1320.708
1002		11 R 47	3.114E-06	9.986E-07	2.499E-07	4.490E-08	5.124E-09	3.052E-10	2887.759
1003		17 P 47	2.551E-05	8.451E-06	2.199E-06	4.144E-07	5.017E-08	3.228E-09	2813.233
1004	627	1 P 63	4.975E-06	2.891E-06	1.476E-06	6.343E-07	2.151E-07	5.204E-08	1524.730
1005	628	2 R 29	9.987E-05	7.351E-05	4.986E-05	3.030E-05	1.585E-05	6.690E-06	982.955
1006		4 P 49	1.012E-04	3.759E-05	1.122E-05	2.500E-06	3.733E-07	3.144E-08	2551.621
1007		17 P 44	3.951E-05	1.371E-05	3.769E-06	7.600E-07	1.001E-07	7.182E-09	2707.392
1008		9 P 67	8.797E-06	2.553E-06	5.666E-07	8.793E-08	8.354E-09	3.935E-10	3116.723
1009	636	2 R 1	8.936E-05	7.615E-05	6.156E-05	4.636E-05	3.169E-05	1.846E-05	649.263
1010	628	1 P 61	4.916E-05	3.029E-05	1.659E-05	7.769E-06	2.933E-06	8.143E-07	1390.809
1011		19 R 3	6.277E-05	4.017E-05	1.653E-05	5.454E-06	1.330E-06	2.105E-07	1937.162
1012		7 R 28	4.255E-04	4.255E-04	2.031E-04	8.038E-05	5.214E-06	5.214E-06	1653.077
1013		1 P 64	8.818E-03	4.911E-03	2.384E-03	9.631E-04	3.024E-04	6.624E-05	1621.011
1014		11 R 48	2.665E-06	8.404E-07	2.062E-07	3.617E-08	4.004E-09	2.295E-10	2925.350
1015		7 R 27	8.277E-04	4.590E-04	2.216E-04	8.893E-05	2.770E-05	6.005E-06	1631.122
1016		5 P 36	3.600E-03	1.851E-03	8.158E-04	2.929E-04	7.937E-05	1.439E-05	1805.253
1017	636	1 P 38	8.915E-03	7.636E-03	6.575E-03	5.182E-03	3.749E-03	2.402E-03	578.041
1018	628	2 R 30	9.305E-05	6.783E-05	4.547E-05	2.725E-05	1.400E-05	5.778E-06	1005.058
1019	627	1 P 62	6.157E-06	3.653E-06	1.912E-06	8.471E-07	2.904E-07	7.580E-08	1477.141
1020		4 P 64	3.239E-04	1.344E-04	4.593E-05	1.207E-05	2.216E-06	2.434E-07	2292.658
1021		2 R 1	7.979E-03	6.733E-03	5.381E-03	3.998E-03	2.688E-03	1.568E-03	668.162
1022	636	4 P 34	3.242E-04	2.146E-04	1.282E-04	6.666E-05	2.869E-05	9.422E-06	1228.059
1023		9 P 66	1.114E-05	3.307E-06	7.546E-07	1.211E-07	1.199E-08	5.961E-10	3084.374
1024	628	1 P 60	6.001E-05	3.770E-05	2.115E-05	1.019E-05	3.986E-06	1.154E-06	1345.953
1025		16 R 33	2.857E-05	1.076E-05	3.278E-06	7.478E-07	1.149E-07	1.005E-08	2514.732
1026	636	4 P 39	2.895E-04	1.893E-04	1.113E-04	5.680E-05	2.387E-05	7.607E-06	1257.510
1027		17 P 45	3.458E-05	1.182E-05	3.194E-06	6.304E-07	8.089E-08	5.607E-09	2740.673
1028		11 R 49	2.270E-06	7.039E-07	1.693E-07	2.897E-08	3.110E-09	1.714E-10	2963.755
1029		4 P 67	1.641E-04	6.385E-05	2.015E-05	4.807E-06	7.815E-07	7.346E-08	2444.333
1030	628	2 R 31	8.629E-05	6.227E-05	4.125E-05	2.436E-05	1.229E-05	4.954E-06	1027.897
1031		1 P 61	7.592E-06	4.596E-06	2.466E-06	1.124E-06	4.116E-07	1.097E-07	1430.344
1032		9 P 65	4.265E-06	4.265E-06	9.995E-07	1.658E-07	1.711E-08	8.565E-10	3012.861
1033		17 P 42	5.224E-05	1.867E-05	5.319E-06	1.120E-06	1.558E-07	1.197E-08	2639.341
1034	628	1 P 59	7.297E-05	4.074E-05	2.882E-05	1.329E-05	5.387E-06	1.639E-06	1301.910
1035	636	2 R 3	4.639E-04	2.245E-04	1.811E-04	1.360E-04	9.267E-05	5.495E-05	653.169

LINE	BAND CODE	WAVELENGTH	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
1030	19 K 5	620.591	1.348E-04	6.471E-05	2.653E-05	6.714E-06	2.113E-06	3.320E-07	1946.159
1037	7 R 30	620.572	6.700E-04	3.607E-04	1.681E-04	6.457E-05	1.904E-05	3.849E-06	1699.265
1038	1 P 62	620.681	1.375E-02	7.997E-03	4.088E-03	1.759E-03	5.976E-04	1.449E-04	1522.168
1039	11 R 50	620.740	1.925E-06	5.805E-07	2.383E-07	2.308E-08	4.401E-09	1.271E-10	3002.906
1040	628 2 R 32	620.792	7.965E-05	5.690E-05	3.723E-05	2.165E-05	1.072E-05	4.218E-06	1051.471
1041	627 1 P 60	620.804	9.324E-06	5.760E-06	3.166E-06	1.688E-06	5.646E-07	1.578E-07	1364.219
1042	7 R 29	620.823	7.235E-04	3.934E-04	1.856E-04	7.239E-05	2.175E-05	4.504E-06	1675.776
1043	5 P 34	620.833	4.440E-03	2.338E-03	1.061E-03	3.946E-04	1.118E-04	2.144E-05	1749.861
1044	636 1 P 36	620.859	1.119E-02	1.009E-02	8.732E-03	7.145E-03	5.416E-03	3.684E-03	519.561
1045	4 P 62	620.878	5.046E-04	2.190E-04	7.878E-05	2.266E-05	4.383E-06	5.351E-07	2193.557
1046	9 P 64	621.020	1.765E-05	5.478E-06	1.318E-06	2.259E-07	2.427E-08	1.340E-09	2962.070
1047	628 1 P 58	621.069	8.840E-05	5.770E-05	3.387E-05	1.726E-05	7.241E-06	2.403E-06	1258.557
1048	636 4 P 36	621.102	4.661E-04	2.758E-04	1.698E-04	9.169E-05	4.135E-05	1.442E-05	1164.378
1049	2 P 31	621.151	2.356E-02	1.985E-02	1.533E-02	1.173E-02	7.862E-03	4.567E-03	672.008
1050	16 R 35	621.218	2.347E-02	8.649E-06	2.557E-06	5.635E-07	8.295E-08	6.861E-09	2568.568
1051	636 4 P 37	621.249	3.658E-04	2.455E-04	1.689E-04	7.858E-05	3.483E-05	1.180E-05	1197.407
1052	17 P 43	621.316	4.607E-05	1.623E-05	4.348E-06	9.386E-07	1.273E-07	9.474E-09	2671.224
1053	4 P 65	621.329	2.620E-04	3.551E-04	3.551E-04	9.031E-05	1.599E-06	1.671E-07	2340.740
1054	11 K 51	621.483	1.629E-06	4.872E-07	1.124E-07	1.829E-08	1.843E-09	9.361E-11	3042.875
1055	2 R 33	621.490	7.320E-05	5.173E-05	3.342E-05	1.914E-05	9.294E-06	3.566E-06	1075.781
1056	627 1 P 59	621.512	1.141E-05	7.187E-06	4.045E-06	1.937E-06	7.699E-07	2.254E-07	1338.885
1057	9 P 63	621.653	2.207E-05	7.002E-06	1.730E-06	3.060E-07	3.422E-08	1.989E-09	2912.105
1058	628 1 P 57	621.759	1.067E-04	7.093E-05	4.298E-05	2.292E-05	9.677E-06	3.215E-06	1215.937
1059	17 P 40	621.796	6.787E-05	2.494E-05	7.353E-06	1.644E-06	4.365E-07	1.944E-08	2574.410
1060	636 2 R 5	622.045	4.265E-04	3.617E-04	2.907E-04	2.173E-04	1.472E-04	8.666E-05	660.115
1061	7 R 32	622.112	5.681E-04	2.993E-04	1.359E-04	5.058E-05	1.434E-05	2.755E-06	1748.581
1062	1 P 60	622.132	2.111E-02	1.280E-02	6.878E-03	3.146E-03	1.154E-03	3.087E-04	1426.422
1063	19 R 7	622.165	1.789E-04	8.616E-05	3.513E-05	1.146E-05	2.757E-06	4.287E-07	1954.354
1064	628 4 R 34	622.186	6.497E-05	4.681E-05	2.985E-05	1.682E-05	8.005E-06	2.943E-06	1100.826
1065	627 1 P 58	622.220	1.390E-05	8.930E-06	5.144E-06	2.561E-06	1.044E-06	3.200E-07	1294.304
1066	11 R 52	622.224	1.368E-06	4.026E-07	9.093E-08	1.441E-08	1.004E-09	6.849E-11	3083.505
1067	5 P 32	622.354	5.375E-03	2.895E-03	1.350E-03	5.192E-04	1.534E-04	3.104E-05	1697.584
1068	4 P 60	622.354	7.747E-04	3.505E-04	1.326E-04	3.948E-05	8.469E-06	1.137E-06	2097.560
1069	636 1 P 34	622.375	1.380E-02	1.275E-02	1.135E-02	9.621E-03	7.624E-03	5.489E-03	464.194
1070	7 K 31	622.384	6.196E-04	3.300E-04	1.518E-04	5.743E-05	1.661E-05	3.274E-06	1723.528
1071	9 P 62	622.392	2.751E-05	8.916E-06	2.260E-06	4.125E-07	4.794E-08	2.534E-09	2862.471
1072	628 1 P 56	622.450	1.283E-04	8.684E-05	5.329E-05	2.865E-05	1.286E-05	4.461E-06	1174.049
1073	636 4 P 34	622.613	4.993E-04	2.202E-04	1.232E-04	1.232E-04	5.807E-05	1.144E-05	1113.869
1074	4 P 63	622.626	4.115E-04	1.750E-04	6.143E-05	1.670E-05	3.195E-06	3.703E-07	2240.245
1075	16 K 37	622.643	1.893E-05	6.805E-06	1.953E-06	4.149E-07	5.835E-08	4.522E-09	2625.519
1076	17 P 41	622.656	6.032E-05	2.187E-05	6.346E-06	1.366E-06	1.953E-07	1.556E-08	2604.888
1077	636 4 P 35	622.668	4.538E-04	3.121E-04	1.951E-04	1.073E-04	4.952E-05	1.774E-05	1140.430
1078	2 R 5	622.710	3.808E-02	3.196E-02	2.641E-02	1.874E-02	1.244E-02	7.202E-03	679.100
1079	628 2 R 35	622.881	6.100E-05	4.216E-05	2.652E-05	1.470E-05	6.853E-06	2.496E-06	1126.607
1080	627 1 P 57	622.929	1.687E-05	1.105E-05	4.512E-06	3.344E-06	1.408E-06	4.512E-07	1250.476

LINE	BAND CODE	WAVELENGTH	T=700K	T=725K	T=750K	T=775K	T=800K	T=825K	T=850K	T=875K	T=900K	ENERGY
1081	11 R 53	622.965	1.146E-06	3.312E-07	7.188E-08	1.130E-05	1.130E-05	1.130E-05	1.130E-05	1.130E-05	1.130E-05	3125.115
1082	9 P 61	623.036	3.414E-05	1.130E-05	2.937E-06	1.130E-05	5.530E-07	5.530E-07	5.530E-07	5.530E-07	5.530E-07	2814.455
1083	1 P 55	623.141	1.536E-04	1.059E-04	6.638E-05	1.059E-04	3.665E-05	3.665E-05	3.665E-05	3.665E-05	3.665E-05	1134.894
1084	17 P 38	623.299	8.661E-05	3.270E-05	9.954E-06	3.270E-05	2.273E-06	2.273E-06	2.273E-06	2.273E-06	2.273E-06	2512.001
1085	7 M 34	623.544	4.723E-04	2.432E-04	1.074E-04	2.432E-04	3.867E-05	3.867E-05	3.867E-05	3.867E-05	3.867E-05	1801.023
1086	2 R 36	623.574	5.532E-05	3.740E-05	2.345E-05	3.740E-05	1.274E-05	1.274E-05	1.274E-05	1.274E-05	1.274E-05	1153.124
1087	1 P 58	623.586	3.189E-02	2.013E-02	1.136E-02	2.013E-02	5.511E-03	5.511E-03	5.511E-03	5.511E-03	5.511E-03	1333.774
1088	2 R 7	623.617	5.704E-04	4.815E-04	3.849E-04	4.815E-04	2.859E-04	2.859E-04	2.859E-04	2.859E-04	2.859E-04	670.355
1089	627 1 P 56	623.638	2.040E-05	1.361E-05	8.205E-06	1.361E-05	4.318E-06	4.318E-06	4.318E-06	4.318E-06	4.318E-06	1207.399
1090	19 R 9	623.742	2.165E-04	1.036E-04	4.196E-05	1.036E-04	1.588E-05	1.588E-05	1.588E-05	1.588E-05	1.588E-05	1967.638
1091	9 P 60	623.772	4.220E-05	1.426E-05	3.801E-04	1.426E-05	7.377E-07	7.377E-07	7.377E-07	7.377E-07	7.377E-07	2766.760
1092	4 P 58	623.814	1.170E-03	5.513E-04	2.184E-04	5.513E-04	6.918E-05	6.918E-05	6.918E-05	6.918E-05	6.918E-05	2004.669
1093	1 P 54	623.833	1.833E-04	1.286E-04	8.232E-05	1.286E-04	6.663E-05	6.663E-05	6.663E-05	6.663E-05	6.663E-05	1042.408
1094	5 P 30	623.879	6.383E-03	3.512E-03	1.881E-03	3.512E-03	6.669E-04	6.669E-04	6.669E-04	6.669E-04	6.669E-04	1048.422
1095	1 P 32	623.885	1.671E-02	1.579E-02	1.445E-02	1.579E-02	1.266E-02	1.266E-02	1.266E-02	1.266E-02	1.266E-02	411.542
1096	4 P 61	623.931	6.362E-04	2.822E-04	1.043E-04	2.822E-04	3.016E-05	3.016E-05	3.016E-05	3.016E-05	3.016E-05	2142.849
1097	7 R 33	623.944	5.203E-04	2.710E-04	1.214E-04	2.710E-04	4.445E-05	4.445E-05	4.445E-05	4.445E-05	4.445E-05	1774.407
1098	17 P 39	624.007	7.759E-05	2.892E-05	8.672E-06	2.892E-05	1.944E-06	1.944E-06	1.944E-06	1.944E-06	1.944E-06	2541.665
1099	16 R 39	624.060	1.500E-05	5.252E-06	1.460E-06	5.252E-06	2.986E-07	2.986E-07	2.986E-07	2.986E-07	2.986E-07	2685.584
1100	4 P 33	624.091	5.528E-04	3.889E-04	2.501E-04	3.889E-04	1.423E-04	1.423E-04	1.423E-04	1.423E-04	1.423E-04	1086.570
1101	626 0 P 32	624.127	6.024E-04	4.288E-04	2.793E-04	4.288E-04	1.616E-04	1.616E-04	1.616E-04	1.616E-04	1.616E-04	1061.482
1102	628 2 R 37	624.266	4.995E-05	3.273E-05	2.062E-05	3.273E-05	1.104E-05	1.104E-05	1.104E-05	1.104E-05	1.104E-05	1180.375
1103	5092E-02	624.268	5.092E-02	4.257E-02	3.364E-02	4.257E-02	2.465E-02	2.465E-02	2.465E-02	2.465E-02	2.465E-02	689.256
1104	627 1 P 55	624.349	2.457E-05	1.670E-05	1.029E-05	1.670E-05	5.564E-06	5.564E-06	5.564E-06	5.564E-06	5.564E-06	1165.076
1105	5.194E-05	624.425	5.194E-05	1.751E-05	4.893E-06	1.751E-05	9.786E-07	9.786E-07	9.786E-07	9.786E-07	9.786E-07	2719.914
1106	628 1 P 53	624.525	2.178E-04	1.554E-04	1.016E-04	1.554E-04	5.904E-05	5.904E-05	5.904E-05	5.904E-05	5.904E-05	1054.776
1107	17 P 36	624.806	1.085E-04	4.203E-05	1.319E-05	4.203E-05	3.128E-06	3.128E-06	3.128E-06	3.128E-06	3.128E-06	2453.514
1108	628 2 R 38	624.955	4.492E-05	2.996E-05	1.805E-05	2.996E-05	9.496E-06	9.496E-06	9.496E-06	9.496E-06	9.496E-06	1208.362
1109	7 R 36	624.968	3.854E-04	1.937E-04	8.399E-05	1.937E-04	2.846E-05	2.846E-05	2.846E-05	2.846E-05	2.846E-05	1856.591
1110	1 P 56	625.044	4.741E-02	3.111E-02	1.839E-02	3.111E-02	9.451E-03	9.451E-03	9.451E-03	9.451E-03	9.451E-03	1244.225
1111	627 1 P 54	625.060	2.948E-05	2.040E-05	1.285E-05	2.040E-05	7.132E-06	7.132E-06	7.132E-06	7.132E-06	7.132E-06	1123.505
1112	9 P 58	625.158	6.369E-05	2.241E-05	6.270E-06	2.241E-05	1.292E-06	1.292E-06	1.292E-06	1.292E-06	1.292E-06	2673.798
1113	636 2 R 9	625.192	6.901E-04	5.792E-04	4.597E-04	5.792E-04	3.386E-04	3.386E-04	3.386E-04	3.386E-04	3.386E-04	683.634
1114	628 1 P 52	625.219	2.578E-04	1.872E-04	1.249E-04	1.872E-04	7.438E-05	7.438E-05	7.438E-05	7.438E-05	7.438E-05	1013.817
1115	4 P 54	625.244	9.680E-04	4.473E-04	1.736E-04	4.473E-04	5.333E-05	5.333E-05	5.333E-05	5.333E-05	5.333E-05	2048.553
1116	4 P 56	625.277	1.739E-03	8.521E-04	3.546E-04	8.521E-04	1.187E-04	1.187E-04	1.187E-04	1.187E-04	1.187E-04	1914.886
1117	19 R 11	625.322	2.452E-04	1.166E-04	4.679E-05	1.166E-04	1.498E-05	1.498E-05	1.498E-05	1.498E-05	1.498E-05	1984.047
1118	17 P 37	625.369	9.82E-05	3.751E-05	1.160E-05	3.751E-05	2.703E-06	2.703E-06	2.703E-06	2.703E-06	2.703E-06	2481.556
1119	1 P 40	625.399	1.984E-02	1.915E-02	1.798E-02	1.915E-02	1.625E-02	1.625E-02	1.625E-02	1.625E-02	1.625E-02	304.805
1120	5 P 28	625.407	7.432E-03	4.172E-03	2.045E-03	4.172E-03	8.357E-04	8.357E-04	8.357E-04	8.357E-04	8.357E-04	1602.377
1121	16 R 41	625.469	1.168E-05	3.977E-06	1.070E-06	3.977E-06	2.101E-07	2.101E-07	2.101E-07	2.101E-07	2.101E-07	2748.764
1122	7 R 35	625.502	4.286E-04	2.181E-04	4.939E-05	2.181E-04	3.358E-05	3.358E-05	3.358E-05	3.358E-05	3.358E-05	1828.412
1123	636 4 P 31	625.524	6.596E-04	4.748E-04	3.134E-04	4.748E-04	1.843E-04	1.843E-04	1.843E-04	1.843E-04	1.843E-04	1035.827
1124	628 2 R 39	625.643	4.022E-05	2.649E-05	1.572E-05	2.649E-05	8.120E-06	8.120E-06	8.120E-06	8.120E-06	8.120E-06	1237.064
1125	636 4 P 30	625.645	7.125E-04	5.184E-04	3.463E-04	5.184E-04	2.067E-04	2.067E-04	2.067E-04	2.067E-04	2.067E-04	1012.219

LINE	BAND CODE	WAVE NUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
1126	627	1 P 53	3.522E-05	2.481E-05	1.596E-05	9.056E-06	4.391E-06	1.673E-06	1082.688
1127		9 P 57	7.776E-05	2.791E-05	7.995E-06	1.695E-06	2.378E-07	1.849E-08	2628.463
1128		2 R 9	6.161E-02	5.120E-02	4.019E-02	2.919E-02	1.909E-02	1.075E-02	702.537
1129	628	1 P 51	3.040E-04	2.244E-04	1.527E-04	9.322E-05	4.903E-05	2.085E-05	975.590
1130		17 P 34	1.335E-04	5.296E-05	1.711E-05	4.204E-06	7.088E-07	6.983E-08	2598.351
1131	628	2 R 40	3.586E-05	2.312E-05	1.363E-05	6.906E-06	2.879E-06	9.079E-07	1266.541
1132		7 R 38	3.087E-04	1.312E-04	6.291E-05	2.105E-05	5.221E-06	8.450E-07	1915.283
1133	627	1 P 52	4.192E-05	3.004E-05	1.974E-05	1.154E-05	5.752E-06	2.283E-06	1042.623
1134		1 P 54	6.934E-02	4.725E-02	2.922E-02	1.587E-02	7.213E-03	2.543E-03	1157.775
1135		9 P 56	9.456E-05	3.460E-05	1.015E-05	2.214E-06	3.218E-07	2.620E-08	2583.425
1136		4 P 57	1.449E-03	6.988E-04	2.836E-04	9.236E-05	2.215E-05	3.434E-06	1957.360
1137	628	1 P 50	3.571E-04	2.679E-04	1.859E-04	1.162E-04	6.300E-05	2.745E-05	938.096
1138		17 P 35	1.216E-04	4.769E-05	1.520E-05	3.672E-06	6.063E-07	5.814E-08	2424.567
1139		4 P 54	2.544E-03	1.294E-03	5.634E-04	1.993E-04	5.300E-05	9.382E-06	1828.213
1140	636	2 R 11	7.819E-04	6.515E-04	5.127E-04	3.736E-04	2.451E-04	1.385E-04	700.038
1141		16 R 43	8.935E-06	2.956E-06	7.681E-07	1.445E-07	1.747E-08	1.121E-09	2815.057
1142		19 R 13	2.647E-04	1.247E-04	4.954E-05	1.567E-05	3.622E-06	5.354E-07	2003.582
1143	636	1 P 28	2.310E-02	2.274E-02	2.187E-02	2.036E-02	1.815E-02	1.520E-02	316.784
1144		5 P 26	8.479E-03	4.849E-03	2.431E-03	1.021E-03	3.366E-04	7.853E-05	1559.450
1145	636	4 P 29	7.719E-04	5.672E-04	3.839E-04	2.327E-04	1.213E-04	5.094E-05	988.204
1146		2 R 41	3.184E-05	2.043E-05	1.176E-05	5.843E-06	2.377E-06	7.268E-07	1296.732
1147		7 R 37	3.466E-04	1.720E-04	7.267E-05	2.478E-05	6.294E-06	1.050E-06	1885.542
1148	636	4 P 28	8.258E-04	6.127E-04	4.195E-04	2.579E-04	1.368E-04	5.878E-05	966.080
1149	627	1 P 51	4.969E-05	3.623E-05	2.430E-05	1.457E-05	7.491E-06	3.096E-06	1003.312
1150		9 P 55	1.145E-04	4.271E-05	1.281E-05	2.875E-06	4.527E-07	3.685E-08	2540.164
1151	628	1 P 49	4.177E-04	3.185E-04	2.253E-04	1.442E-04	8.049E-05	3.494E-05	901.334
1152		2 R 11	6.980E-02	5.759E-02	4.481E-02	3.221E-02	2.079E-02	1.151E-02	718.943
1153	628	2 R 42	2.816E-05	1.783E-05	1.009E-05	4.917E-06	1.952E-06	5.780E-07	1327.659
1154		7 R 40	2.428E-04	1.158E-04	6.663E-05	1.500E-05	3.540E-06	5.377E-07	1977.098
1155		17 P 32	1.611E-04	6.538E-05	2.171E-05	5.515E-06	9.697E-07	1.008E-07	2345.912
1156		4 P 55	2.134E-03	1.066E-03	4.545E-04	1.566E-04	4.030E-05	6.838E-06	1869.270
1157	627	1 P 50	5.866E-05	4.349E-05	2.976E-05	1.829E-05	9.700E-06	4.171E-06	964.754
1158		9 P 54	1.381E-04	5.249E-05	1.610E-05	3.714E-06	5.786E-07	5.149E-08	447.165
1159		1 P 52	9.979E-02	7.051E-02	4.555E-02	2.608E-02	1.267E-02	4.867E-03	1074.425
1160	628	1 P 48	4.668E-04	3.770E-04	2.718E-04	1.780E-04	1.025E-04	4.870E-05	865.308
1161		17 P 33	1.480E-04	5.943E-05	1.948E-05	4.871E-06	8.396E-07	8.510E-08	2370.654
1162		4 P 52	3.659E-03	1.930E-03	8.780E-04	3.276E-04	9.313E-05	1.796E-05	174.650
1163		16 R 45	6.710E-06	2.157E-06	5.404E-07	9.728E-08	1.112E-08	6.648E-10	2804.462
1164	636	2 R 13	8.439E-04	6.971E-04	5.403E-04	3.970E-04	2.524E-04	1.397E-04	719.566
1165	628	2 R 43	2.480E-05	1.548E-05	8.620E-06	4.114E-06	1.593E-06	4.567E-07	1359.320
1166	636	4 P 27	8.848E-04	6.629E-04	4.582E-04	2.863E-04	1.546E-04	6.799E-05	943.700
1167	636	5 P 26	2.634E-02	2.494E-02	2.599E-02	2.487E-02	2.294E-02	2.008E-02	273.880
1168		5 P 24	9.468E-03	5.210E-03	2.815E-03	1.215E-03	4.134E-04	1.005E-04	1519.642
1169		19 K 15	2.748E-04	1.282E-04	5.033E-05	1.568E-05	3.560E-06	5.161E-07	2024.441
1170		7 R 39	2.752E-04	1.330E-04	5.445E-05	1.786E-05	4.324E-06	6.762E-07	1945.746

LINE	BAND CODE	MAVE NUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
1171	9 P 52	628.627	1.659E-04	6.420E-05	2.014E-05	4.771E-06	7.688E-07	7.145E-08	2454.958
1172	1 P 49	628.628	6.898E-05	5.199E-05	3.624E-05	2.284E-05	1.249E-05	5.581E-06	926.950
1173	4 P 26	628.690	9.369E-04	7.082E-04	4.959E-04	3.133E-04	1.720E-04	7.726E-05	923.065
1174	1 P 47	628.695	5.650E-04	4.444E-04	3.263E-04	2.186E-04	1.292E-04	6.374E-05	830.013
1175	2 R 13	628.931	7.533E-02	6.162E-02	4.745E-02	3.369E-02	2.141E-02	1.161E-02	738.472
1176	2 R 44	629.055	2.175E-05	1.339E-05	7.329E-06	3.428E-06	1.293E-06	3.584E-07	1391.715
1177	7 R 42	629.188	1.877E-04	8.697E-05	3.386E-05	1.044E-05	2.341E-06	3.326E-07	2042.036
1178	4 P 53	629.233	3.093E-03	1.604E-03	7.144E-04	2.599E-04	7.157E-05	1.425E-05	1744.285
1179	8 P 48	629.344	8.078E-05	6.188E-05	4.403E-05	2.838E-05	1.598E-05	7.420E-06	889.900
1180	17 P 30	629.350	1.906E-04	7.902E-05	2.693E-05	7.059E-06	1.291E-06	1.412E-07	2296.599
1181	9 F 52	629.356	1.984E-04	7.820E-05	2.507E-05	6.097E-06	1.016E-06	9.849E-08	2413.519
1182	1 P 46	629.393	6.533E-04	5.215E-04	3.900E-04	2.671E-04	1.622E-04	8.300E-05	795.452
1183	1 P 50	629.442	1.413E-01	1.034E-01	6.962E-02	4.197E-02	2.174E-02	9.066E-03	954.195
1184	17 P 31	629.524	1.767E-04	7.254E-05	2.442E-05	6.306E-06	1.132E-06	1.209E-07	2319.938
1185	16 R 47	629.645	4.970E-06	1.545E-06	3.728E-07	6.405E-08	6.910E-09	3.834E-10	2956.979
1186	4 P 50	629.691	5.176E-03	2.828E-03	1.342E-03	5.269E-04	1.597E-04	3.346E-05	1654.199
1187	2 R 45	629.732	1.900E-05	1.153E-05	6.202E-06	2.840E-06	1.043E-06	2.795E-07	1424.844
1188	4 P 25	629.872	9.924E-04	7.570E-04	5.358E-04	3.430E-04	1.914E-04	8.784E-05	902.315
1189	636	629.928	8.760E-04	7.165E-04	5.515E-04	3.911E-04	2.481E-04	1.342E-04	742.216
1190	1 P 24	629.958	2.941E-02	3.003E-02	3.015E-02	2.959E-02	2.817E-02	2.569E-02	234.055
1191	5 P 22	630.008	1.034E-02	6.112E-03	3.188E-03	1.404E-03	4.927E-04	1.243E-04	1482.953
1192	9 P 51	630.040	2.363E-04	9.480E-05	3.104E-05	7.749E-06	1.348E-06	2.372E-06	2372.866
1193	1 P 47	630.061	7.422E-05	7.332E-05	5.317E-05	3.507E-05	2.033E-05	9.798E-06	853.603
1194	19 R 17	630.075	2.760E-04	1.273E-04	4.931E-05	1.511E-05	3.361E-06	4.726E-07	2052.024
1195	1 P 45	630.091	7.522E-04	6.094E-04	4.638E-04	3.246E-04	2.025E-04	1.073E-04	761.624
1196	7 R 41	630.168	2.146E-04	1.009E-04	3.996E-05	1.259E-05	2.896E-06	4.256E-07	2009.173
1197	4 P 24	630.217	1.039E-03	7.994E-04	5.715E-04	3.704E-04	2.099E-04	9.822E-05	883.176
1198	2 R 46	630.406	1.653E-05	9.883E-06	5.223E-06	2.340E-06	8.345E-07	2.165E-07	1458.708
1199	2 R 15	630.483	7.819E-02	6.333E-02	4.814E-02	3.372E-02	2.104E-02	1.115E-02	761.126
1200	7 R 44	630.578	1.425E-04	6.411E-05	2.409E-05	7.113E-06	1.510E-06	2.000E-07	2110.094
1201	4 P 51	630.580	4.468E-03	2.368E-03	1.101E-03	4.221E-04	1.241E-04	2.500E-05	1762.407
1202	9 P 50	630.768	2.803E-04	1.144E-04	3.825E-05	9.795E-06	1.740E-06	1.835E-07	2352.587
1203	627	630.778	1.094E-04	8.650E-05	6.390E-05	4.312E-05	2.571E-05	1.285E-05	818.061
1204	1 P 44	630.740	8.427E-04	7.091E-04	5.491E-04	3.924E-04	2.514E-04	1.378E-04	728.530
1205	17 P 26	630.873	2.209E-04	9.346E-05	3.263E-05	8.808E-06	1.671E-06	1.517E-07	2250.413
1206	1 P 48	630.916	1.967E-01	1.488E-01	1.044E-01	6.659E-02	3.641E-02	1.644E-02	917.061
1207	17 P 29	630.930	2.068E-04	8.667E-05	2.991E-05	7.963E-06	1.485E-06	1.665E-07	2272.301
1208	16 R 49	631.020	3.614E-06	1.087E-06	2.521E-07	4.127E-08	4.191E-09	2.151E-10	3032.605
1209	2 R 47	631.079	1.433E-05	8.436E-06	4.378E-06	1.919E-06	6.671E-07	1.666E-07	1493.306
1210	4 P 48	631.170	7.201E-03	4.069E-03	2.010E-03	8.294E-04	2.675E-04	6.066E-05	1586.862
1211	4 P 23	631.338	1.088E-03	8.435E-04	6.090E-04	3.995E-04	2.299E-04	1.097E-04	664.052
1212	9 P 49	631.459	3.311E-04	1.374E-04	4.690E-05	1.231E-05	2.257E-06	2.475E-07	2293.890
1213	636	631.485	3.211E-02	3.330E-02	3.408E-02	3.424E-02	3.357E-02	3.179E-02	197.425
1214	628	631.490	9.853E-04	8.214E-04	6.469E-04	4.720E-04	3.103E-04	1.758E-04	696.169
1215	1 P 45	631.497	1.266E-04	1.016E-04	7.643E-05	5.273E-05	3.233E-05	1.675E-05	783.273

LINE	BAND CODE	WAVENUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
1216	636	2 R 17	631.511	7.116E-04	5.403E-04	3.769E-04	2.342E-04	1.234E-04	767.952
1217		5 P 20	631.546	6.610E-03	3.508E-03	1.581E-03	5.690E-04	1.486E-04	1449.384
1218		19 R 19	631.665	1.227E-04	4.679E-05	1.408E-05	3.059E-06	4.175E-07	2080.931
1219		7 R 43	631.720	7.509E-05	2.872E-05	8.670E-06	1.892E-06	2.596E-07	2075.672
1220	636	4 P 22	631.747	8.770E-04	6.411E-04	4.254E-04	2.482E-04	1.206E-04	840.614
1221	628	2 R 48	631.749	7.170E-06	3.653E-06	1.565E-06	5.290E-07	1.274E-07	1528.638
1222		4 P 49	631.934	3.436E-03	1.663E-03	6.710E-04	2.101E-04	4.589E-05	1623.637
1223		7 R 46	631.960	4.639E-05	1.679E-05	4.737E-06	9.500E-07	1.170E-07	2181.273
1224		15 P 74	632.016	2.799E-07	4.949E-08	5.819E-09	3.906E-10	1.178E-11	3550.211
1225		2 R 17	632.032	6.290E-02	4.721E-02	3.249E-02	1.986E-02	1.025E-02	786.903
1226		9 P 48	632.187	1.644E-04	5.722E-05	1.540E-05	2.909E-06	3.319E-07	2255.571
1227	628	1 P 42	632.190	9.473E-04	7.585E-04	5.647E-04	3.808E-04	2.229E-04	664.542
1228	627	1 P 44	632.216	1.188E-04	9.098E-05	6.414E-05	4.041E-05	2.168E-05	749.239
1229		17 P 27	632.348	1.013E-04	3.578E-05	9.799E-06	1.893E-06	2.222E-07	2227.784
1230		16 R 51	632.387	7.514E-07	1.672E-07	2.602E-08	2.481E-09	1.174E-10	3111.339
1231		1 P 46	632.393	2.104E-01	1.534E-01	1.018E-01	5.952E-02	2.899E-02	843.033
1232		17 P 26	632.399	1.091E-04	3.858E-05	1.070E-05	2.102E-06	2.520E-07	2207.354
1233	628	2 R 49	632.417	1.063E-05	3.034E-06	1.270E-06	4.171E-07	9.679E-08	1564.704
1234		4 P 46	632.652	5.749E-03	2.952E-03	1.277E-03	4.371E-04	1.070E-04	1514.640
1235	636	4 P 21	632.812	9.156E-04	6.734E-04	4.517E-04	2.673E-04	1.323E-04	828.910
1236		9 P 47	632.885	1.937E-04	8.560E-05	1.914E-05	3.727E-06	4.419E-07	2218.032
1237	628	1 P 41	632.892	1.098E-03	8.850E-04	6.720E-04	4.645E-04	2.806E-04	633.649
1238	627	1 P 43	632.936	1.383E-04	1.077E-04	7.760E-05	5.021E-05	2.787E-05	715.959
1239	636	1 P 20	633.014	3.601E-02	3.750E-02	3.890E-02	3.878E-02	3.799E-02	163.876
1240	628	2 R 50	633.082	5.114E-06	2.508E-06	1.025E-06	3.270E-07	7.306E-08	1601.503
1241		5 P 18	633.088	6.954E-03	3.750E-03	1.723E-03	6.354E-04	1.712E-04	1418.936
1242	636	2 R 19	633.096	6.877E-04	5.128E-04	3.511E-04	2.132E-04	1.090E-04	796.890
1243		19 R 21	633.256	1.150E-04	4.313E-05	1.271E-05	2.692E-06	3.555E-07	2112.561
1244		7 R 45	633.270	5.486E-05	2.023E-05	5.841E-06	1.205E-06	1.540E-07	2145.242
1245	636	4 P 20	633.281	9.422E-04	6.988E-04	4.737E-04	2.839E-04	1.428E-04	812.778
1246		4 P 47	633.297	4.895E-03	2.467E-03	1.044E-03	3.472E-04	8.195E-05	1547.976
1247		7 R 48	633.333	3.296E-05	1.147E-05	3.087E-06	5.832E-07	6.653E-08	2255.571
1248		15 P 72	633.526	4.965E-07	9.320E-08	1.179E-08	8.671E-10	2.940E-11	3435.859
1249		2 R 19	633.580	6.660E-02	4.480E-02	3.027E-02	1.808E-02	9.053E-03	815.804
1250	628	1 P 40	633.594	1.243E-03	1.028E-03	7.956E-04	5.632E-04	3.510E-04	603.490
1251		9 P 46	633.613	5.317E-04	4.390E-05	2.367E-05	4.746E-06	5.844E-07	2181.273
1252	627	1 P 42	633.657	1.912E-04	1.270E-04	9.338E-05	6.201E-05	3.559E-05	683.434
1253		16 R 53	633.744	1.819E-06	1.010E-07	1.606E-08	1.434E-09	6.241E-11	3193.182
1254	628	2 R 51	633.766	7.766E-06	2.063E-06	8.237E-07	2.549E-07	5.480E-08	1634.035
1255		17 P 25	633.776	2.659E-04	1.137E-04	1.1174E-05	2.344E-06	2.871E-07	2186.368
1256		1 P 44	633.874	3.625E-01	2.210E-01	1.535E-01	9.496E-02	4.975E-02	772.113
1257		17 P 24	633.928	1.220E-04	4.477E-05	1.266E-05	2.566E-06	3.205E-07	2167.423
1258		4 P 44	634.139	1.325E-02	6.249E-03	1.924E-03	6.968E-04	1.835E-04	1441.511
1259	636	4 P 19	634.295	1.210E-03	7.224E-04	4.947E-04	3.003E-04	1.535E-04	796.690
1260	628	4 P 39	634.297	1.609E-03	1.188E-03	9.368E-04	6.790E-04	4.361E-04	574.066

LINE	BAND CODE	WAVELENGTH	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
1261	9 P 45	634.316	6.174E-04	2.734E-04	1.008E-04	2.911E-05	6.007E-06	7.673E-07	2145.292
1262	1 P 41	634.379	2.175E-04	1.848E-04	1.889E-04	1.718E-04	7.612E-05	4.514E-05	651.664
1263	2 R 52	634.407	6.598E-06	3.84E-06	1.690E-06	6.583E-07	4.328E-07	4.083E-08	1677.302
1264	5 P 18	634.547	3.553E-02	7.088E-02	4.009E-02	4.195E-02	4.328E-02	4.376E-02	133.445
1265	5 P 16	634.632	1.154E-02	7.099E-03	3.834E-03	1.815E-03	6.842E-04	1.856E-04	1391.665
1266	4 P 45	634.669	1.154E-02	6.847E-03	3.585E-03	1.588E-03	5.598E-04	1.424E-04	1475.426
1267	2 R 21	634.682	8.163E-04	6.428E-04	4.727E-04	3.171E-04	1.876E-04	9.282E-05	828.910
1268	7 R 50	634.697	5.634E-05	2.299E-05	7.885E-06	1.968E-06	3.495E-07	3.681E-08	2332.987
1269	7 R 47	634.817	9.170E-05	3.934E-05	1.397E-05	3.849E-06	7.493E-07	8.883E-08	2218.032
1270	4 P 18	634.818	1.219E-03	9.794E-04	7.380E-04	5.101E-04	3.133E-04	1.626E-04	782.269
1271	19 R 23	634.849	2.376E-04	1.051E-04	3.869E-05	1.115E-05	2.296E-06	2.524E-07	2148.113
1272	1 P 38	635.000	1.800E-03	1.603E-03	1.366E-03	1.097E-03	8.136E-04	5.382E-04	545.375
1273	15 P 70	635.037	3.269E-06	8.658E-07	1.723E-07	2.340E-08	1.881E-09	7.150E-11	3324.559
1274	9 P 44	635.045	7.137E-04	3.210E-04	1.206E-04	3.559E-05	7.554E-06	1.001E-06	2110.094
1275	2 R 53	635.065	5.585E-06	2.983E-06	1.378E-06	5.234E-07	1.523E-07	3.023E-08	1716.301
1276	16 R 55	635.093	1.259E-06	3.402E-07	6.934E-08	9.704E-09	8.094E-10	3.279E-11	3276.130
1277	1 P 40	635.102	2.464E-04	1.222E-04	1.738E-04	1.330E-04	9.288E-05	5.686E-05	620.648
1278	2 R 21	635.126	7.284E-02	5.680E-02	4.129E-02	2.733E-02	1.591E-02	7.711E-03	847.827
1279	17 P 23	635.216	2.914E-04	1.289E-04	4.745E-05	1.367E-05	2.815E-06	3.586E-07	2148.113
1280	1 P 42	635.359	4.798E-01	3.983E-01	3.121E-01	2.264E-01	1.478E-01	8.304E-02	704.303
1281	17 P 22	635.461	3.013E-04	1.343E-04	4.990E-05	4.544E-05	3.036E-06	3.937E-07	2130.622
1282	4 P 42	635.629	1.751E-02	1.085E-02	5.994E-03	2.834E-03	1.084E-03	3.060E-04	1373.544
1283	2 R 37	635.705	2.006E-03	1.807E-03	1.562E-03	1.278E-03	9.691E-04	6.597E-04	517.419
1284	2 R 54	635.721	4.708E-06	2.472E-06	1.180E-06	4.141E-07	1.167E-07	2.224E-08	1756.033
1285	9 P 43	635.753	8.214E-04	3.750E-04	1.54E-04	4.328E-05	9.442E-06	2.296E-06	2075.672
1286	4 P 17	635.785	1.221E-03	9.877E-04	7.498E-04	5.229E-04	3.249E-04	1.711E-04	767.992
1287	1 P 39	635.826	2.780E-04	2.425E-04	2.018E-04	1.575E-04	1.126E-04	7.114E-05	590.388
1288	4 P 43	636.048	1.538E-02	3.401E-03	1.4E-03	2.364E-03	8.807E-04	2.405E-04	1405.587
1289	7 R 52	636.052	3.998E-05	1.575E-05	4.8E-06	1.227E-06	2.044E-07	1.982E-08	2413.519
1290	1 P 16	636.083	3.583E-02	3.867E-02	1.50E-02	4.419E-02	4.660E-02	4.845E-02	106.134
1291	5 P 14	636.178	1.126E-02	7.002E-03	3.879E-03	1.84E-03	7.075E-04	2.010E-04	1367.404
1292	2 R 23	636.270	7.575E-04	5.874E-04	4.241E-04	2.781E-04	1.600E-04	7.635E-05	864.052
1293	4 P 16	636.358	1.211E-03	9.844E-04	7.524E-04	5.292E-04	3.322E-04	1.773E-04	754.888
1294	7 R 49	636.363	6.875E-05	2.770E-05	9.451E-06	2.481E-06	4.546E-07	4.984E-08	2293.690
1295	2 R 55	636.375	3.954E-06	2.040E-06	9.031E-07	3.280E-07	8.892E-08	1.426E-08	1796.498
1296	1 P 36	636.410	2.225E-03	2.028E-03	1.779E-03	1.480E-03	1.147E-03	8.032E-04	490.198
1297	19 R 25	636.444	2.155E-04	9.376E-05	3.384E-05	9.514E-06	1.900E-06	2.324E-07	2186.388
1298	9 P 42	636.483	9.412E-04	4.360E-04	1.697E-04	5.233E-05	1.731E-05	1.666E-06	2042.036
1299	15 P 68	636.548	5.348E-06	1.448E-06	3.126E-07	4.548E-08	3.986E-09	1.694E-10	3216.433
1300	1 P 38	636.550	3.122E-04	2.759E-04	2.331E-04	1.854E-04	1.358E-04	8.838E-05	560.882
1301	17 P 21	636.666	3.115E-04	1.399E-04	5.246E-05	1.546E-05	3.274E-06	4.231E-07	2112.961
1302	2 R 23	636.670	6.759E-02	5.157E-02	3.744E-02	2.397E-02	1.357E-02	6.341E-03	884.972
1303	1 P 40	636.847	6.241E-01	5.329E-01	4.120E-01	3.266E-01	2.245E-01	1.349E-01	639.602
1304	17 P 20	636.998	3.180E-04	1.438E-04	5.111E-05	1.619E-05	3.473E-06	4.663E-07	2096.950
1305	2 R 56	637.026	3.308E-06	1.676E-06	7.2E-07	2.553E-07	6.739E-08	1.181E-08	1631.696

LINE	BAND CODE	WAVELENGTH	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
1306	62	1 P 35	2.457E-03	2.266E-03	2.015E-03	1.704E-03	1.350E-03	9.712E-04	463.716
1307		4 P 40	2.273E-02	1.450E-02	8.282E-03	4.082E-03	1.644E-03	4.961E-04	1308.673
1308		9 P 41	1.074E-03	5.045E-04	1.998E-04	6.291E-05	1.447E-05	2.009.173	2009.173
1309	627	1 P 37	3.491E-04	3.125E-04	2.680E-04	2.171E-04	1.627E-04	1.091E-04	522.134
1310	636	4 P 15	1.191E-03	9.740E-04	7.494E-04	5.313E-04	3.369E-04	1.822E-04	742.218
1311		7 R 54	2.791E-05	1.060E-05	3.251E-06	7.494E-07	1.167E-07	1.038E-08	4497.165
1312		4 P 41	2.013E-02	1.267E-02	7.120E-03	3.440E-03	1.352E-03	3.951E-04	1339.661
1313	636	1 P 14	3.497E-02	3.814E-02	4.145E-02	4.482E-02	4.818E-02	5.134E-02	81.944
1314	628	2 R 57	2.757E-06	1.372E-06	5.814E-07	1.990E-07	5.078E-08	8.524E-09	1879.627
1315		5 P 12	1.037E-02	6.634E-03	3.715E-03	1.788E-03	6.985E-04	2.028E-04	1346.321
1316	628	1 P 34	2.702E-03	2.520E-03	2.271E-03	1.954E-03	1.579E-03	1.166E-03	637.958
1317	636	2 R 25	6.873E-04	5.211E-04	3.708E-04	2.373E-04	1.324E-04	6.074E-05	902.315
1318	636	4 P 14	1.158E-03	9.514E-04	7.364E-04	5.260E-04	3.344E-04	1.842E-04	730.635
1319		7 R 51	4.778E-05	1.916E-05	6.271E-06	1.565E-06	2.692E-07	2.721E-08	2372.866
1320		9 P 40	1.219E-03	5.810E-04	2.339E-04	7.519E-05	1.775E-05	2.695E-06	1977.098
1321	627	1 P 36	3.887E-04	3.521E-04	3.065E-04	2.527E-04	1.936E-04	1.336E-04	504.137
1322		19 R 27	1.914E-04	8.177E-05	2.880E-05	7.907E-06	1.527E-06	1.792E-07	2227.784
1323		15 P 66	6.111E-06	2.502E-06	5.566E-07	8.681E-08	8.256E-09	3.908E-10	3111.363
1324		17 P 19	3.241E-04	1.478E-04	5.629E-05	1.693E-05	3.677E-06	5.019E-07	2080.931
1325		2 R 25	6.132E-02	4.630E-02	3.239E-02	2.045E-02	1.123E-02	5.045E-03	921.239
1326	628	2 R 58	2.289E-06	1.188E-06	4.633E-07	1.543E-07	3.804E-08	6.115E-09	1922.290
1327		1 P 38	7.978E-01	6.905E-01	5.857E-01	4.605E-01	3.326E-01	2.127E-01	578.013
1328	628	1 P 33	2.958E-03	2.789E-03	2.546E-03	2.262E-03	1.835E-03	1.391E-03	412.940
1329		17 P 18	3.263E-04	1.495E-04	5.746E-05	1.744E-05	3.833E-06	5.309E-07	2066.408
1330		4 P 38	2.900E-02	1.900E-02	1.121E-02	5.746E-03	2.431E-03	7.817E-04	1246.922
1331		9 P 39	1.378E-03	6.659E-04	2.725E-04	8.936E-05	2.162E-05	3.391E-06	1945.796
1332	627	1 P 35	4.309E-04	3.950E-04	3.487E-04	2.926E-04	2.291E-04	1.626E-04	476.897
1333		7 R 56	1.914E-03	7.007E-04	2.054E-04	4.478E-07	6.507E-08	5.295E-09	2583.925
1334	636	4 P 13	1.114E-03	9.201E-04	7.163E-04	5.132E-04	3.327E-04	1.841E-04	719.566
1335		4 P 39	2.570E-02	1.675E-02	9.730E-03	4.895E-03	2.023E-03	6.309E-04	1476.450
1336	628	2 R 59	1.693E-06	9.070E-07	3.675E-07	1.190E-07	2.836E-08	4.359E-09	1965.685
1337	636	1 P 12	3.283E-02	3.613E-02	3.970E-02	4.251E-02	4.736E-02	5.180E-02	60.873
1338	628	4 P 32	3.823E-03	3.071E-03	2.640E-03	2.522E-03	2.119E-03	1.647E-03	388.637
1339		5 P 10	9.456E-03	5.979E-03	3.340E-03	1.645E-03	6.520E-04	1.928E-04	1328.361
1340		9 P 38	1.951E-03	7.593E-04	3.157E-04	1.056E-04	2.618E-05	4.235E-06	1915.283
1341		7 R 53	3.363E-05	1.301E-05	4.080E-06	9.660E-07	1.556E-07	1.446E-08	2454.536
1342	636	4 P 12	1.057E-03	8.765E-04	6.859E-04	4.966E-04	3.232E-04	1.807E-04	709.511
1343	636	2 R 27	6.104E-04	4.571E-04	3.165E-04	1.972E-04	1.045E-04	4.680E-05	943.760
1344	627	1 P 34	4.755E-04	4.409E-04	3.947E-04	3.368E-04	2.694E-04	1.964E-04	450.413
1345		15 P 64	1.365E-05	4.146E-06	9.726E-07	1.815E-07	1.671E-08	8.780E-10	3004.391
1346		17 P 17	6.39.598	3.272E-04	5.842E-05	1.790E-05	3.978E-06	5.593E-07	4052.044
1347	628	1 R 60	1.560E-04	7.331E-05	2.403E-05	9.140E-06	2.102E-06	3.087E-07	2304.812
1348		19 R 29	1.666E-04	6.977E-05	2.407E-05	6.406E-06	1.194E-06	1.338E-07	2272.301
1349		2 R 27	6.39.751	5.438E-02	2.764E-02	1.700E-02	9.044E-03	3.887E-03	962.627
1350		1 P 34	1.062E 00	9.010E-01	7.777E-01	6.348E-01	4.803E-01	3.262E-01	519.536

LINE	BAND CODE	WAVENUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
1351	628	1 P 31	639.949	3.366E-03	3.151E-03	2.840E-03	2.432E-03	1.936E-03	365.109
1352		7 R 58	640.066	4.551E-06	1.273E-06	2.620E-07	3.542E-08	2.628E-09	2673.798
1353		17 P 16	640.080	1.503E-04	5.659E-05	1.810E-05	4.065E-06	5.792E-07	2038.957
1354		9 P 37	640.102	8.616E-04	3.639E-04	1.440E-04	3.149E-05	5.252E-06	1865.562
1355		4 P 36	640.121	2.441E-02	1.485E-02	7.904E-03	3.504E-03	1.197E-03	1188.291
1356	627	1 P 33	640.185	4.698E-04	4.443E-04	3.855E-04	3.147E-04	2.356E-04	424.664
1357		4 P 37	640.238	2.172E-02	1.302E-02	6.806E-03	2.951E-03	9.790E-04	1216.353
1358	628	2 R 61	640.239	5.900E-07	2.282E-07	6.982E-08	1.549E-08	2.173E-09	2054.671
1359	636	4 P 11	640.306	8.233E-04	6.475E-04	4.716E-04	3.093E-04	1.746E-04	700.038
1360	628	1 P 30	640.659	3.671E-03	3.478E-03	3.181E-03	2.774E-03	2.261E-03	342.257
1361	636	1 P 10	640.710	2.936E-02	3.611E-02	4.003E-02	4.439E-02	4.925E-02	42.924
1362		5 P 8	640.830	5.039E-03	4.871E-03	1.410E-03	5.657E-04	1.699E-04	1313.524
1363		9 P 36	640.836	1.937E-03	4.171E-04	1.448E-04	3.762E-05	6.465E-06	1856.541
1364	628	2 R 62	640.873	1.047E-06	4.730E-07	5.508E-08	1.136E-08	1.520E-09	2100.262
1365	627	1 P 32	640.915	5.711E-04	4.974E-04	4.386E-04	3.633E-04	2.806E-04	399.711
1366		7 R 55	640.982	2.329E-05	2.603E-06	5.836E-07	8.782E-08	7.475E-09	2560.164
1367	636	4 P 10	640.996	9.075E-04	5.992E-04	4.387E-04	2.897E-04	1.650E-04	691.516
1368	636	2 R 29	641.042	5.312E-04	2.638E-04	1.598E-04	8.324E-05	3.496E-05	988.204
1369		17 P 15	641.080	3.191E-04	5.839E-05	1.818E-05	4.126E-06	5.956E-07	4026.241
1370		15 P 62	641.085	2.129E-05	1.668E-06	2.951E-07	3.303E-08	1.921E-09	2910.517
1371		19 R 31	641.238	1.421E-04	1.961E-05	5.063E-06	9.084E-07	9.696E-08	2319.938
1372		2 R 29	641.287	4.738E-02	2.304E-02	1.377E-02	7.053E-03	2.902E-03	1007.135
1373		1 P 34	641.335	1.235E 00	1.011E 00	8.549E-01	6.761E-01	4.860E-01	644.173
1374	628	1 P 29	641.370	4.058E-03	3.818E-03	3.541E-03	3.143E-03	2.620E-03	320.219
1375		7 R 60	641.386	8.602E-06	2.904E-06	1.500E-07	1.883E-08	1.270E-09	2766.740
1376		9 P 35	641.563	2.149E-03	4.754E-04	1.680E-04	4.466E-05	7.900E-06	1828.412
1377		17 P 14	641.626	3.100E-04	5.735E-05	1.799E-05	4.120E-06	6.018E-07	2014.718
1378		4 P 34	641.626	4.466E-02	1.925E-02	1.062E-02	4.920E-03	1.779E-03	1132.761
1379	627	1 P 31	641.645	6.215E-04	5.543E-04	4.961E-04	4.213E-04	3.317E-04	375.494
1380		4 P 35	641.651	4.058E-02	2.762E-02	9.245E-03	4.195E-03	1.476E-03	1159.372
1381	636	4 P 9	641.830	8.157E-04	5.426E-04	3.993E-04	2.652E-04	1.524E-04	683.634
1382	628	1 P 28	642.082	4.340E-03	4.167E-03	3.918E-03	3.538E-03	3.015E-03	296.876
1383	636	1 P 8	642.258	2.458E-02	3.067E-02	3.432E-02	3.851E-02	4.338E-02	28.056
1384		9 P 34	642.299	2.373E-03	5.389E-04	1.938E-04	5.266E-05	9.580E-06	1801.023
1385	627	1 P 30	642.376	6.733E-04	6.140E-04	5.579E-04	4.827E-04	3.894E-04	352.032
1386		5 P 6	642.385	6.000E-03	2.199E-03	1.089E-03	4.407E-04	1.339E-04	1301.810
1387		7 R 57	642.516	1.567E-05	1.629E-06	3.452E-07	4.839E-08	3.762E-09	2628.483
1388	636	4 P 8	642.548	7.126E-04	4.772E-04	3.572E-04	2.357E-04	1.363E-04	676.650
1389		17 P 13	642.572	2.985E-04	5.581E-05	1.763E-05	4.074E-06	6.019E-07	2003.582
1390		15 P 60	642.598	3.268E-05	2.807E-06	5.279E-07	6.378E-08	4.094E-09	2814.143
1391	636	2 R 31	642.635	4.531E-04	2.150E-04	1.263E-04	6.334E-05	2.532E-05	1035.827
1392		7 R 62	642.697	5.624E-06	8.613E-07	8.414E-08	9.781E-09	5.575E-10	2862.871
1393	628	1 P 27	642.794	4.620E-03	4.524E-03	4.310E-03	3.956E-03	3.443E-03	278.259
1394		2 R 31	642.822	4.041E-02	1.877E-02	1.088E-02	5.367E-03	2.102E-03	1054.762
1395		19 R 33	642.838	1.189E-04	4.772E-05	3.906E-06	6.729E-07	6.817E-08	2370.694

LINE	BAND CODE	WAVE NUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
1396	1 P 32	642.838	1.494E 00	1.409E 00	1.286E 00	1.124E 00	9.272E-01	7.032E-01	411.924
1397	9 P 33	643.031	2.608E-03	1.357E-03	6.075E-04	2.222E-04	6.167E-05	1.153E-05	1774.407
1398	4 P 33	643.073	4.940E-02	3.641E-02	2.188E-02	1.228E-02	5.808E-03	2.160E-03	1105.508
1399	1 P 29	643.109	7.258E-04	7.094E-04	6.764E-04	6.236E-04	5.494E-04	4.536E-04	329.327
1400	4 P 32	643.134	5.388E-02	3.795E-02	2.442E-02	1.392E-02	6.728E-03	2.567E-03	1060.394
1401	17 P 12	643.175	6.830E-04	1.339E-04	5.343E-05	1.699E-05	3.937E-06	5.906E-07	1993.571
1402	636	643.362	2.004E-04	5.064E-04	4.043E-04	3.002E-04	2.016E-04	1.173E-04	670.355
1403	628	643.508	4.892E-03	4.933E-03	4.883E-03	4.711E-03	4.393E-03	3.507E-03	258.346
1404	9 P 32	643.769	2.852E-03	1.501E-03	6.808E-04	2.532E-04	7.172E-05	1.377E-05	1748.581
1405	636	643.810	1.863E-02	2.089E-02	2.349E-02	2.649E-02	3.000E-02	3.420E-02	16.390
1406	627	643.842	7.786E-04	7.683E-04	7.410E-04	6.928E-04	6.211E-04	5.246E-04	307.377
1407	5 P 4	643.943	3.762E-03	2.415E-03	1.390E-03	6.918E-04	2.820E-04	8.643E-05	1293.219
1408	7 R 64	643.999	3.621E-06	1.123E-06	2.699E-07	4.620E-08	4.961E-09	2.737E-10	2962.070
1409	7 R 59	644.047	1.063E-05	3.665E-06	1.000E-06	1.999E-07	2.604E-08	1.843E-09	2719.914
1410	17 P 11	644.075	2.649E-04	1.258E-04	5.043E-05	1.614E-05	3.787E-06	5.709E-07	1984.047
1411	636	644.103	4.799E-04	4.038E-04	3.250E-04	2.420E-04	1.632E-04	9.555E-05	666.913
1412	15 P 58	644.113	4.938E-05	1.700E-05	4.634E-06	9.248E-07	1.203E-07	8.494E-09	2722.071
1413	628	644.223	5.155E-03	5.241E-03	5.240E-03	5.118E-03	4.866E-03	4.390E-03	239.260
1414	636	644.228	3.792E-04	2.668E-04	1.714E-04	9.746E-05	4.692E-05	1.761E-05	1086.570
1415	1 P 30	644.345	1.774E 00	1.709E 00	1.600E 00	1.444E 00	1.238E 00	9.876E-01	362.789
1416	2 R 33	644.353	3.382E-02	2.356E-02	1.496E-02	8.395E-03	3.976E-03	1.478E-03	1105.508
1417	19 R 35	644.439	9.768E-05	3.828E-05	1.219E-05	2.943E-06	4.857E-07	4.655E-08	2424.567
1418	9 P 31	644.504	3.102E-03	1.651E-03	7.586E-04	2.867E-04	8.289E-05	1.632E-05	1723.528
1419	4 P 31	644.504	5.898E-02	4.200E-02	2.739E-02	1.588E-02	7.830E-03	3.067E-03	1054.782
1420	627	644.576	8.310E-04	8.277E-04	8.071E-04	7.649E-04	6.975E-04	6.020E-04	286.184
1421	4 P 30	644.646	6.372E-02	4.585E-02	3.027E-02	1.781E-02	8.933E-03	3.593E-03	1031.130
1422	17 P 10	644.727	2.430E-04	1.159E-04	4.667E-05	1.501E-05	3.547E-06	5.393E-07	1975.256
1423	4 P 5	644.901	3.540E-04	2.999E-04	2.408E-04	1.798E-04	1.217E-04	7.160E-05	660.149
1424	1 P 24	644.938	5.602E-03	5.537E-03	5.589E-03	5.233E-03	5.307E-03	4.849E-03	220.858
1425	9 P 30	645.245	3.357E-03	1.805E-03	8.403E-04	3.225E-04	9.502E-05	1.919E-05	1694.265
1426	7 R 66	645.291	2.293E-06	6.800E-07	1.550E-07	2.485E-08	2.458E-09	1.221E-10	3064.374
1427	1 P 26	645.310	8.825E-04	8.888E-04	8.741E-04	8.392E-04	7.778E-04	6.855E-04	265.747
1428	1 P 4	645.364	1.168E-02	1.315E-02	1.489E-02	1.683E-02	1.920E-02	2.207E-02	7.805
1429	5 P 2	645.502	1.291E-03	8.305E-04	4.795E-04	2.394E-04	9.801E-05	3.024E-05	1287.753
1430	7 R 61	645.574	7.014E-06	2.319E-06	6.023E-07	1.133E-07	1.369E-08	8.789E-10	2814.455
1431	17 P 9	645.589	2.185E-04	1.045E-04	4.227E-05	1.367E-05	3.249E-06	4.580E-07	1967.658
1432	15 P 56	645.629	7.341E-05	2.628E-05	7.507E-06	1.586E-06	2.217E-07	1.716E-08	2632.501
1433	628	645.654	5.632E-03	5.817E-03	5.925E-03	5.922E-03	5.711E-03	5.425E-03	403.193
1434	636	645.662	2.257E-04	1.915E-04	1.541E-04	1.154E-04	7.834E-05	4.628E-05	656.306
1435	2 R 35	645.822	3.115E-04	2.141E-04	1.347E-04	7.345E-05	3.887E-05	1.216E-05	1140.430
1436	1 P 28	645.856	2.065E 00	2.029E 00	1.947E 00	1.809E 00	1.609E 00	1.346E 00	316.771
1437	2 R 35	645.881	2.778E-02	1.890E-02	1.167E-02	6.325E-03	2.869E-03	1.009E-03	1154.372
1438	4 P 29	645.942	6.902E-02	5.018E-02	3.355E-02	2.004E-02	1.027E-02	4.424E-03	1007.135
1439	9 P 29	645.944	3.614E-03	1.963E-03	9.251E-04	3.604E-04	1.082E-04	2.139E-05	1675.776
1440	19 R 37	646.040	7.879E-05	3.012E-05	9.311E-06	2.167E-06	3.416E-07	3.088E-08	2461.558

LINE	BAND CODE	WAVENUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
1441	627	1 P 25	9.323E-04	9.448E-04	9.409E-04	9.148E-04	8.613E-04	7.746E-04	246.066
1442		4 P 28	7.384E-C2	5.421E-02	3.667E-02	2.224E-02	1.154E-02	4.875E-03	984.950
1443		17 P 8	1.909E-04	9.156E-05	3.217E-05	1.207E-05	2.806E-06	4.455E-C7	1960.673
1444	628	1 P 22	5.838E-03	6.074E-03	6.242E-03	6.307E-03	6.230E-03	5.959E-03	186.263
1445	636	4 P 3	1.020E-04	8.663E-05	6.982E-05	5.238E-05	3.566E-05	2.115E-05	653.169
1446		7 R 68	1.430E-06	4.049E-07	8.732E-08	1.309E-08	1.140E-09	5.303E-11	3164.782
1447		9 P 28	3.870E-03	2.123E-03	1.012E-03	4.001E-04	1.224E-04	2.591E-05	1651.077
1448	627	1 P 24	9.796E-04	1.001E-03	1.007E-03	9.908E-04	9.489E-04	8.683E-04	227.141
1449	636	1 P 2	4.007E-03	4.522E-03	5.122E-03	5.826E-03	6.672E-03	7.715E-03	2.341
1450		5 0 2	6.473E-03	4.164E-03	2.404E-03	1.200E-03	4.913E-04	1.515E-04	1.877.753
1451		5 0 4	1.135E-02	7.284E-03	4.193E-03	2.086E-03	8.503E-04	2.666E-04	1293.214
1452	628	1 P 21	6.016E-03	6.304E-03	6.534E-03	6.670E-03	6.674E-03	6.541E-03	170.068
1453		7 R 63	4.552E-06	1.442E-06	3.559E-07	6.289E-08	7.024E-09	4.581E-10	2912.105
1454		17 P 7	1.608E-04	7.737E-05	3.151E-05	1.027E-05	4.468E-06	3.846E-07	1956.354
1455		5 0 6	1.573E-02	1.006E-02	5.764E-03	2.852E-03	1.155E-03	3.508E-04	1301.810
1456		15 P 54	1.074E-04	3.991E-05	1.193E-05	2.664E-06	3.989E-07	3.374E-08	4546.036
1457		5 0 8	1.945E-02	1.237E-02	7.047E-03	3.461E-03	1.388E-03	4.167E-04	1313.524
1458		5 0 10	2.238E-02	1.414E-02	7.993E-03	3.889E-03	1.541E-03	4.556E-04	1328.361
1459		5 0 12	2.445E-C2	1.487E-02	8.910E-03	4.637E-03	2.018E-03	6.695E-04	1216.353
1460		5 0 14	2.563E-02	1.593E-02	8.819E-03	4.164E-03	1.607E-03	4.565E-04	1367.404
1461		1 P 24	2.356E 00	2.358E 00	2.313E 00	2.209E 00	2.034E 00	1.777E 00	273.869
1462		5 0 16	2.597E-02	1.597E-02	8.731E-03	4.079E-03	1.537E-03	4.258E-04	1391.609
1463		4 P 27	7.910E-02	5.844E-02	4.013E-02	2.466E-02	1.309E-02	6.637E-03	962.627
1464		2 R 37	2.240E-02	1.487E-02	8.910E-03	4.637E-03	2.018E-03	6.695E-04	1216.353
1465	636	2 R 37	2.513E-04	1.684E-04	1.021E-04	5.408E-05	2.382E-05	8.068E-06	1147.407
1466		9 P 27	4.120E-03	2.282E-03	1.101E-03	4.412E-04	1.373E-04	2.973E-05	1631.152
1467		5 0 18	2.551E-02	1.551E-02	8.366E-03	3.841E-03	1.416E-03	3.814E-04	1418.936
1468	627	1 P 23	1.024E-C3	1.054E-03	1.070E-03	1.066E-03	1.033E-03	9.655E-04	208.973
1469		5 0 20	2.447E-02	1.467E-02	7.781E-03	3.504E-03	1.260E-03	3.291E-04	1469.364
1470		19 R 39	6.243E-05	2.325E-05	6.963E-06	1.559E-06	2.343E-07	1.691E-08	2541.665
1471		5 0 22	2.287E-02	1.351E-02	7.041E-03	3.103E-03	1.087E-03	2.741E-04	1482.953
1472		4 P 26	8.377E-02	6.265E-02	4.334E-02	2.699E-02	1.457E-02	6.407E-03	941.674
1473		5 0 24	2.089E-02	1.214E-02	6.209E-03	2.673E-03	9.090E-04	2.208E-04	1519.642
1474	628	1 P 20	6.163E-03	6.501E-03	6.793E-03	7.003E-03	7.094E-03	7.010E-03	154.609
1475		17 P 6	1.286E-04	6.199E-05	2.532E-05	8.283E-06	1.992E-06	3.123E-07	1948.423
1476		5 R 0	4.622E-03	1.688E-03	9.758E-04	4.679E-04	2.016E-04	6.184E-05	1245.410
1477		5 0 26	1.867E-02	1.067E-02	5.342E-03	2.242E-03	7.585E-04	1.722E-04	1559.450
1478		5 0 28	1.635E-02	9.167E-03	4.485E-03	1.833E-03	5.834E-04	1.302E-04	1602.377
1479		5 0 30	1.403E-02	7.712E-03	3.686E-03	1.461E-03	4.484E-04	9.541E-05	1648.422
1480		9 P 26	4.362E-03	2.438E-03	1.169E-03	4.831E-04	1.529E-04	3.384E-05	1610.016
1481	627	1 P 22	1.064E-03	1.104E-03	1.131E-03	1.138E-03	1.119E-03	1.166E-03	191.562
1482		5 0 32	1.181E-02	6.356E-03	2.961E-03	1.137E-03	3.555E-04	6.788E-05	1697.584
1483	636	1 0 2	2.004E-02	2.267E-02	2.568E-02	2.920E-02	3.344E-02	3.867E-02	2.341
1484		5 0 34	9.762E-03	5.134E-03	2.327E-03	8.666E-04	2.446E-04	4.684E-05	1749.861
1485	636	1 0 4	3.523E-02	3.966E-02	4.474E-02	5.076E-02	5.788E-02	6.655E-02	7.805

LINE	BAND CODE	HAVE NUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
1486	636	1 0 6	4.883E-02	5.477E-02	6.158E-02	6.941E-02	7.860E-02	8.959E-02	16.390
1487	628	1 P 19	6.274E-03	6.681E-03	7.013E-03	7.298E-03	7.480E-03	7.504E-03	139.886
1488	636	1 0 8	6.038E-02	6.737E-02	7.528E-02	8.423E-02	9.449E-02	1.064E-01	29.096
1489	636	1 0 10	6.947E-02	7.701E-02	8.539E-02	9.464E-02	1.049E-01	1.164E-01	42.924
1490	636	7 R 65	2.907E-06	8.816E-07	2.064E-07	3.419E-08	3.524E-09	1.845E-10	3012.861
1491	636	1 0 12	7.589E-02	8.347E-02	9.149E-02	1.005E-01	1.098E-01	1.195E-01	60.873
1492	17 P 5	648.647	9.482E-05	4.581E-05	1.876E-05	6.155E-06	1.491E-06	2.341E-07	1944.195
1493	5 0 36	648.661	7.921E-03	4.066E-03	1.790E-03	6.420E-04	1.790E-04	3.147E-05	1805.253
1494	15 P 52	648.664	1.545E-04	5.956E-05	1.859E-05	4.379E-06	7.008E-07	6.458E-08	2462.876
1495	636	1 0 14	7.957E-02	8.675E-02	9.422E-02	1.018E-01	1.094E-01	1.166E-01	81.944
1496	636	1 0 16	8.064E-02	8.697E-02	9.329E-02	9.930E-02	1.047E-01	1.088E-01	106.134
1497	636	4 0 2	5.178E-04	4.404E-04	3.552E-04	2.669E-04	1.820E-04	1.081E-04	650.825
1498	636	4 0 4	1.224E-03	1.040E-03	8.364E-04	6.242E-04	4.252E-04	2.511E-04	654.506
1499	636	4 0 3	8.980E-04	7.813E-04	6.134E-04	4.601E-04	3.132E-04	1.855E-04	653.169
1500	636	4 0 6	1.798E-03	1.519E-03	1.217E-03	9.060E-04	6.109E-04	3.575E-04	664.913
1501	636	4 0 8	2.268E-03	1.908E-03	1.518E-03	1.122E-03	7.495E-04	4.334E-04	676.650
1502	636	4 0 5	1.525E-03	1.291E-03	1.037E-03	7.743E-04	5.441E-04	3.082E-04	660.199
1503	636	1 0 18	7.932E-02	8.453E-02	8.939E-02	9.350E-02	9.642E-02	9.744E-02	133.445
1504	636	4 0 10	2.635E-03	2.202E-03	1.739E-03	1.273E-03	8.402E-04	4.785E-04	691.516
1505	636	5 0 38	6.313E-03	3.159E-03	1.349E-03	4.660E-04	1.204E-04	2.053E-05	1863.759
1506	636	4 0 7	2.046E-03	1.725E-03	1.378E-03	1.022E-03	6.863E-04	3.995E-04	670.355
1507	636	4 0 25	8.871E-03	6.695E-02	4.681E-02	2.955E-02	1.621E-02	7.283E-03	921.239
1508	636	4 0 12	2.893E-03	2.399E-03	1.876E-03	1.358E-03	8.834E-04	4.940E-04	704.511
1509	636	4 0 14	3.045E-03	2.500E-03	1.934E-03	1.381E-03	8.834E-04	4.833E-04	730.835
1510	636	4 0 9	2.466E-03	2.067E-03	1.639E-03	1.204E-03	8.012E-04	4.600E-04	683.634
1511	636	1 P 24	2.630E 00	2.478E 00	2.483E 00	2.428E 00	2.497E 00	2.273E 00	234.084
1512	636	4 0 16	3.090E-03	2.511E-03	1.918E-03	1.349E-03	8.462E-04	4.519E-04	754.888
1513	636	1 0 20	7.597E-02	7.990E-02	8.316E-02	8.580E-02	8.409E-02	8.409E-02	163.876
1514	636	4 0 18	3.043E-03	2.444E-03	1.840E-03	1.271E-03	7.804E-04	4.044E-04	782.269
1515	636	4 0 11	2.779E-03	2.314E-03	1.819E-03	1.324E-03	8.683E-04	4.902E-04	700.038
1516	636	2 1 39	1.775E-02	1.147E-02	6.683E-03	3.351E-03	1.384E-03	4.316E-04	1276.450
1517	636	4 0 20	2.916E-03	2.311E-03	1.713E-03	1.160E-03	6.951E-04	3.495E-04	814.778
1518	636	9 1 25	4.591E-03	2.589E-03	1.276E-03	5.253E-04	1.689E-04	3.810E-05	1549.655
1519	636	4 0 13	2.984E-03	2.463E-03	1.917E-03	1.378E-03	8.895E-04	4.922E-04	719.566
1520	636	4 0 22	2.726E-03	2.129E-03	1.550E-03	1.028E-03	5.995E-04	2.912E-04	846.414
1521	636	1 0 22	7.108E-02	7.359E-02	7.525E-02	7.534E-02	7.403E-02	7.005E-02	197.425
1522	636	1 P 21	1.099E-03	1.148E-03	1.187E-03	1.207E-03	1.203E-03	1.184E-03	174.907
1523	636	2 R 39	1.991E-04	1.300E-04	7.635E-05	3.892E-05	1.634E-05	5.202E-06	1257.555
1524	636	4 0 24	2.490E-03	1.914E-03	1.367E-03	8.853E-04	5.014E-04	2.345E-04	883.176
1525	636	4 0 15	3.082E-03	2.519E-03	1.937E-03	1.373E-03	8.701E-04	4.704E-04	742.218
1526	636	5 0 40	4.943E-03	2.408E-03	9.957E-04	3.307E-04	8.130E-05	1.301E-05	1925.378
1527	636	1 0 24	4.226E-03	1.681E-03	7.424E-04	1.746E-04	4.173E-04	1.828E-04	923.065
1528	636	1 0 26	6.486E-02	6.615E-02	6.636E-02	6.509E-02	6.195E-02	5.643E-02	234.094
1529	636	4 0 28	1.948E-03	1.444E-03	9.879E-04	6.067E-04	3.216E-04	1.361E-04	766.080
1530	636	4 0 17	3.081E-03	2.490E-03	1.889E-03	1.317E-03	8.177E-04	4.365E-04	767.442

LINE	BAND CODE	WAVELENGTH	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
1531	636	4 Q 30	1.672E-03	1.215E-03	8.110E-04	4.836E-04	2.470E-04	1.012E-04	1012.419
1532	636	4 Q 19	2.993E-03	2.388E-03	1.785E-03	1.221E-03	7.611E-04	3.788E-04	796.890
1533	636	4 Q 32	1.407E-03	1.000E-03	6.510E-04	3.762E-04	1.847E-04	7.193E-05	1061.482
1534	636	1 Q 26	5.798E-02	5.811E-02	4.994E-02	3.151E-02	1.778E-02	4.402E-02	273.180
1535	636	4 P 24	6.49.204	7.071E-02	4.994E-02	3.151E-02	1.778E-02	8.145E-03	902.084
1536	636	4 Q 34	6.49.226	8.077E-04	5.114E-04	2.857E-04	1.346E-04	4.965E-05	1113.869
1537	636	5 Q 62	6.49.232	1.802E-03	7.201E-04	2.294E-04	5.357E-05	8.024E-06	1990.109
1538	636	19 R 41	4.860E-05	1.760E-05	5.101E-06	1.097E-06	1.567E-07	1.448E-08	2604.888
1539	628	1 P 18	6.49.248	6.777E-03	7.187E-03	7.546E-03	7.822E-03	7.960E-03	125.849
1540	636	4 Q 21	6.49.251	2.230E-03	1.639E-03	1.099E-03	6.497E-04	3.213E-04	828.910
1541	636	1 R 0	6.49.263	9.192E-03	1.042E-02	1.187E-02	1.362E-02	1.579E-02	0.0
1542	636	4 Q 16	9.424E-04	6.193E-04	3.932E-04	2.120E-04	9.532E-05	3.229E-05	1169.378
1543	636	1 Q 28	6.49.295	4.994E-02	4.798E-02	4.463E-02	3.975E-02	3.321E-02	316.784
1544	636	4 Q 38	6.49.331	7.506E-04	4.963E-04	1.538E-04	6.610E-05	2.169E-05	1228.009
1545	636	4 Q 23	6.49.341	2.619E-03	1.464E-03	9.599E-04	5.520E-04	2.633E-04	864.054
1546	636	4 Q 40	6.49.387	3.780E-04	2.183E-04	1.090E-04	4.660E-05	1.374E-05	1289.760
1547	17 P 4	6.49.400	6.046E-05	2.926E-05	1.200E-05	3.946E-06	9.593E-07	1.514E-07	1940.307
1548	636	5 R 2	6.49.409	3.245E-03	1.931E-03	9.638E-04	3.945E-04	1.216E-04	1287.753
1549	636	1 Q 35	4.358E-02	4.202E-02	3.941E-02	3.560E-02	3.056E-02	2.440E-02	362.805
1550	636	4 Q 20	6.49.440	1.804E-03	1.276E-03	8.161E-04	4.552E-04	2.087E-04	902.315
1551	636	5 Q 44	6.49.442	1.323E-03	5.103E-04	1.557E-04	3.444E-05	4.811E-06	2057.950
1552	636	4 Q 42	6.49.445	2.826E-04	1.577E-04	7.556E-05	2.926E-05	8.457E-06	1354.632
1553	636	4 Q 44	6.49.506	2.074E-04	1.117E-04	5.123E-05	1.885E-05	5.064E-06	1422.621
1554	636	1 U 32	6.49.540	1.463E-02	3.166E-02	2.771E-02	2.287E-02	1.736E-02	411.942
1555	636	4 Q 27	6.49.546	1.568E-03	1.085E-03	6.759E-04	3.647E-04	1.603E-04	943.700
1556	636	4 Q 46	6.49.568	1.694E-04	7.754E-05	3.358E-05	1.811E-05	2.950E-06	1493.729
1557	636	4 Q 48	6.49.633	1.057E-04	5.277E-05	2.205E-05	7.225E-06	1.672E-06	1567.953
1558	636	4 Q 29	6.49.660	1.333E-03	9.013E-04	5.458E-04	2.642E-04	1.143E-04	988.204
1559	636	5 Q 46	6.49.663	9.543E-04	3.547E-04	1.034E-04	2.161E-05	2.806E-06	2128.899
1560	636	1 Q 34	6.49.675	3.032E-02	2.798E-02	2.106E-02	1.667E-02	1.199E-02	464.154
1561	636	4 Q 50	6.49.701	1.332E-04	7.344E-05	1.401E-05	4.314E-06	9.218E-07	1645.292
1562	636	9 P 24	6.49.710	4.803E-03	2.732E-03	1.360E-03	1.852E-04	4.270E-05	1570.084
1563	627	1 P 20	6.49.737	1.128E-03	1.187E-03	1.271E-03	1.283E-03	1.262E-03	159.008
1564	636	4 Q 52	6.49.770	9.419E-05	5.013E-05	2.304E-05	2.514E-06	4.946E-07	1725.745
1565	636	4 Q 31	6.49.782	1.544E-03	1.110E-03	4.300E-04	2.135E-04	8.616E-05	1035.827
1566	636	1 Q 16	6.49.818	2.461E-02	2.216E-02	1.915E-02	1.185E-02	8.051E-03	519.561
1567	636	4 Q 54	6.49.841	6.550E-05	3.261E-05	5.298E-06	1.431E-06	2.584E-07	1809.311
1568	636	5 Q 48	6.49.893	1.566E-03	6.759E-04	4.720E-05	1.324E-05	1.593E-06	4202.937
1569	636	4 Q 33	6.49.912	1.288E-03	9.057E-04	3.307E-04	1.592E-04	6.040E-05	1086.570
1570	636	4 Q 56	6.49.914	4.482E-05	2.215E-05	3.156E-06	7.953E-07	1.314E-07	1695.989
1571	636	1 Q 38	6.49.968	1.961E-02	1.722E-02	1.136E-02	8.207E-03	5.252E-03	578.041
1572	628	1 P 17	6.49.970	6.844E-03	7.309E-03	7.740E-03	8.107E-03	8.363E-03	112.648
1573	636	4 Q 58	6.49.989	3.017E-05	1.840E-06	5.752E-06	4.317E-07	6.502E-08	1985.776
1574	636	4 Q 55	650.050	1.054E-03	7.244E-04	2.485E-04	1.146E-04	4.113E-05	1140.430
1575	636	4 Q 60	650.065	1.994E-05	4.121E-06	3.486E-06	1.051E-06	3.133E-08	2078.672

LINE	BAND CODE	WAVE NUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
1576	636	1 Q 40	1.536E-02	1.313E-02	1.065E-02	8.059E-03	5.545E-03	3.331E-03	639.633
1577	636	7 R 67	1.828E-04	5.596E-07	1.174E-07	1.820E-08	1.727E-09	8.124E-11	3116.723
1578	636	5 Q 50	1.127E-03	4.702E-04	1.615E-04	4.274E-05	7.914E-06	8.798E-07	2280.120
1579	636	4 Q 62	1.303E-05	5.703E-06	2.073E-06	5.877E-07	1.185E-07	1.470E-08	2174.676
1580	636	15 P 50	2.188E-04	8.731E-05	2.842E-05	7.047E-06	1.202E-06	1.203E-07	2382.422
1581	636	17 P 3	2.732E-05	1.324E-05	5.440E-06	1.793E-06	4.367E-07	6.506E-08	1937.162
1582	636	4 Q 17	8.474E-04	5.882E-04	3.443E-04	1.824E-04	8.035E-05	2.720E-05	1197.407
1583	636	4 Q 64	8.363E-02	3.505E-06	1.209E-06	3.219E-07	5.998E-08	6.718E-09	2273.784
1584	636	1 Q 42	1.182E-02	9.821E-03	7.704E-03	5.593E-03	3.654E-03	2.054E-03	704.337
1585	636	4 Q 66	5.282E-06	2.117E-06	6.926E-07	1.726E-07	2.965E-08	2.990E-09	2375.998
1586	636	4 P 23	9.721E-02	7.460E-02	5.321E-02	3.441E-02	1.947E-02	9.096E-03	882.972
1587	636	4 Q 39	6.698E-04	4.372E-04	2.568E-04	1.304E-04	5.495E-05	1.749E-05	1257.500
1588	636	4 R 1	9.416E-04	8.013E-04	6.469E-04	4.865E-04	3.322E-04	1.575E-04	649.263
1589	636	5 Q 52	7.974E-04	3.213E-04	1.058E-04	2.660E-05	4.620E-06	4.729E-07	2360.388
1590	636	4. Q 68	3.284E-06	1.257E-06	3.892E-07	9.070E-08	1.432E-08	1.296E-09	2481.313
1591	636	1 P 22	2.870E 00	2.970E 00	3.033E 00	3.041E 00	2.975E 00	2.812E 00	197.417
1592	636	2 R 41	1.382E-02	8.689E-03	4.881E-03	2.357E-03	9.256E-04	2.703E-04	1339.661
1593	636	9 P 23	4.992E-03	2.863E-03	1.439E-03	6.072E-04	2.013E-04	4.733E-05	1551.288
1594	636	1 Q 44	8.944E-03	7.214E-03	5.461E-03	3.797E-03	2.350E-03	1.232E-03	772.152
1595	636	4 Q 70	2.010E-06	7.339E-07	2.147E-07	4.668E-08	6.757E-09	5.470E-10	2589.329
1596	627	1 P 19	1.150E-03	1.219E-03	1.229E-03	1.329E-03	1.357E-03	1.356E-03	143.886
1597	636	4 Q 41	5.199E-04	3.301E-04	1.876E-04	9.125E-05	3.665E-05	1.093E-05	1320.708
1598	636	4 Q 72	1.211E-06	4.212E-07	1.162E-07	2.353E-08	3.116E-09	2.249E-10	2701.244
1599	636	2 R 41	1.550E-04	9.845E-05	5.938E-05	2.738E-05	1.093E-05	3.260E-06	1320.708
1600	636	5 Q 54	5.552E-04	2.157E-04	6.801E-05	1.621E-05	2.634E-06	2.475E-07	2443.760
1601	636	1 Q 46	6.653E-03	5.203E-03	3.795E-03	2.522E-03	1.474E-03	7.185E-04	843.076
1602	636	4 Q 43	3.966E-04	2.447E-04	1.343E-04	6.300E-05	2.385E-05	6.645E-06	1387.030
1603	628	1 P 16	6.351E-03	6.859E-03	7.373E-03	7.870E-03	8.326E-03	8.700E-03	100.132
1604	636	4 P 22	1.006E-01	7.781E-02	5.602E-02	3.664E-02	2.102E-02	1.000E-02	862.340
1605	636	1 R 2	1.614E-02	1.821E-02	2.062E-02	2.345E-02	2.686E-02	3.105E-02	2.331
1606	636	19 R 43	3.719E-05	1.308E-05	3.662E-06	7.548E-07	1.022E-07	7.603E-09	2671.224
1607	636	1 Q 48	4.867E-05	3.685E-03	2.586E-03	1.639E-03	9.031E-04	4.079E-04	917.108
1608	636	4 Q 45	2.975E-04	1.780E-04	9.422E-05	4.229E-05	1.514E-05	3.929E-06	1456.486
1609	636	5 Q 56	3.804E-04	1.423E-04	4.288E-05	9.466E-06	1.466E-06	1.261E-07	2530.233
1610	636	5 R 4	7.618E-03	4.889E-03	2.813E-03	1.400E-03	5.704E-04	1.744E-04	1293.215
1611	636	4 Q 47	2.194E-04	1.272E-04	6.481E-05	2.777E-05	9.385E-06	2.260E-06	1529.013
1612	636	1 Q 50	3.502E-03	2.364E-04	1.728E-03	1.042E-03	5.401E-04	2.253E-04	994.247
1613	636	4 R 2	1.040E-03	8.843E-04	7.133E-04	5.359E-04	3.654E-04	2.170E-04	650.829
1614	636	5 Q 58	2.564E-04	9.228E-05	2.653E-05	5.651E-06	7.975E-07	6.253E-08	4619.406
1615	636	9 P 22	5.155E-03	2.979E-03	1.512E-03	6.452E-04	2.170E-04	5.198E-05	1533.282
1616	627	1 P 18	1.166E-03	1.443E-03	1.313E-03	1.377E-03	1.423E-03	1.443E-03	124.481
1617	636	4 Q 49	1.591E-04	8.927E-05	4.372E-05	1.785E-05	5.677E-06	1.265E-06	1604.671
1618	636	1 Q 52	2.478E-03	1.752E-03	1.132E-03	6.488E-04	3.153E-04	1.211E-04	1074.493
1619	628	1 P 15	6.280E-03	6.818E-03	7.373E-03	7.929E-03	8.468E-03	8.956E-03	88.353
1620	636	4 Q 51	1.135E-04	6.153E-05	2.892E-05	1.122E-05	3.353E-06	6.884E-07	1683.433

LINE	BAND CODE	WAVELENGTH	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
1621	636	1 0 54	1.726E-03	1.176E-03	7.279E-04	3.954E-04	1.798E-04	6.339E-05	1157.842
1622		5 0 60	1.701E-04	5.809E-05	1.610E-05	3.232E-06	4.236E-07	3.020E-08	2712.477
1623		7 R 69	1.131E-06	3.127E-07	6.555E-08	9.489E-09	8.265E-10	3.484E-11	3223.682
1624	636	4 0 53	7.965E-05	4.167E-05	1.876E-05	6.910E-06	1.933E-06	4.652E-07	1765.315
1625	636	1 0 56	1.182E-03	7.762E-04	4.590E-04	2.359E-04	1.001E-04	3.230E-05	1244.255
1626		15 P 48	3.046E-04	1.257E-04	4.261E-05	1.110E-05	2.014E-06	2.181E-07	2305.275
1627		4 P 21	1.039E-01	6.097E-02	5.883E-02	3.891E-02	2.264E-02	1.097E-02	847.827
1628		5 0 62	1.111E-04	3.682E-05	9.592E-06	1.811E-06	2.198E-07	1.420E-08	2808.244
1629	636	4 0 55	5.499E-05	2.772E-05	1.194E-05	4.165E-06	1.089E-06	1.884E-07	1850.299
1630	636	1 0 58	7.970E-04	5.032E-04	2.839E-04	1.378E-04	5.444E-05	1.602E-05	1333.850
1631	636	4 R 3	1.158E-03	9.840E-04	7.928E-04	5.947E-04	4.047E-04	2.397E-04	653.169
1632		1 P 20	3.059E 00	3.211E 00	3.337E 00	3.418E 00	3.435E 00	3.361E 00	163.859
1633		2 R 43	1.057E-02	6.457E-03	3.503E-03	1.622E-03	6.038E-04	1.648E-04	1405.987
1634	627	1 P 17	1.173E-03	1.258E-03	1.340E-03	1.416E-03	1.479E-03	1.521E-03	115.653
1635		9 P 21	5.286E-03	3.078E-03	1.576E-03	6.801E-04	2.319E-04	5.653E-05	1516.051
1636	636	4 0 57	3.736E-05	1.812E-05	7.453E-06	2.458E-06	5.987E-07	9.466E-08	1938.387
1637		5 0 64	7.139E-05	2.267E-05	5.607E-06	9.937E-07	1.115E-07	6.505E-09	2907.106
1638	628	1 P 14	6.156E-03	6.715E-03	7.305E-03	7.911E-03	8.523E-03	9.117E-03	77.310
1639	636	1 0 60	5.288E-04	3.206E-04	1.724E-04	7.884E-05	2.892E-05	7.737E-06	1426.505
1640	636	2 R 43	1.186E-04	7.318E-05	4.016E-05	1.884E-05	7.132E-06	1.987E-06	1387.030
1641		4 P 20	1.042E-01	8.333E-02	6.105E-02	4.880E-02	2.404E-02	1.184E-02	831.663
1642	636	4 0 59	2.498E-05	1.164E-05	4.565E-06	1.420E-06	3.216E-07	4.630E-08	2029.581
1643	636	1 R 4	6.52395	2.365E-02	3.005E-02	3.406E-02	3.883E-02	4.464E-02	7.865
1644	636	1 0 62	3.453E-04	2.008E-04	1.027E-04	4.417E-05	1.501E-05	3.639E-06	1522.259
1645		5 0 66	4.517E-05	1.372E-05	3.216E-06	5.341E-07	5.522E-08	2.902E-09	3009.060
1646		19 R 45	6.52444	9.548E-06	2.577E-06	5.080E-07	6.509E-08	4.507E-09	2740.673
1647		17 0 2	6.52531	6.728E-05	2.768E-05	9.134E-06	2.229E-06	3.533E-07	1934.823
1648		17 0 4	6.52536	1.589E-04	6.516E-05	2.143E-05	5.207E-06	8.207E-07	1940.307
1649		17 0 6	6.52543	4.815E-04	9.479E-05	3.100E-05	7.480E-06	1.169E-06	1948.923
1650		17 0 3	6.52544	2.400E-04	4.779E-05	1.575E-05	3.835E-06	6.065E-07	1937.162
1651		5 R 6	6.52544	6.248E-03	3.580E-03	1.771E-03	7.168E-04	2.178E-04	1301.810
1652		17 0 8	6.52554	2.914E-04	1.183E-04	3.839E-05	9.176E-06	1.416E-06	1960.673
1653	636	4 0 61	6.52556	7.351E-06	2.743E-06	8.034E-07	1.688E-07	2.205E-08	2123.877
1654		17 0 5	6.52567	4.084E-04	8.077E-05	2.650E-05	6.418E-06	1.008E-06	1944.155
1655		17 0 10	6.52567	3.363E-04	1.574E-04	4.355E-05	1.029E-05	1.563E-06	1975.556
1656		17 0 12	6.52583	3.663E-04	1.461E-04	4.645E-05	1.081E-05	1.614E-06	1993.571
1657		17 0 7	6.52601	2.636E-04	1.073E-04	3.499E-05	8.405E-06	1.306E-06	1954.354
1658		17 0 14	6.52602	3.817E-04	1.506E-04	4.723E-05	1.081E-05	1.579E-06	2014.718
1659		17 0 16	6.52624	3.834E-04	1.494E-04	4.612E-05	1.035E-05	1.475E-06	2038.947
1660		17 0 9	6.52644	3.159E-04	1.277E-04	4.128E-05	9.812E-06	1.504E-06	1967.638
1661		17 0 18	6.52649	3.730E-04	1.432E-04	4.346E-05	9.546E-06	1.322E-06	2066.408
1662	636	1 0 64	2.219E-04	1.236E-04	6.000E-05	2.424E-05	7.609E-06	1.667E-06	1621.111
1663		17 0 20	6.52677	3.527E-04	1.333E-04	3.966E-05	8.501E-06	1.141E-06	2096.950
1664		17 0 11	6.52698	7.445E-04	4.417E-04	4.532E-05	1.063E-05	1.602E-06	1984.047
1665	627	1 P 16	6.52706	1.171E-03	1.355E-03	1.443E-03	1.523E-03	1.586E-03	102.581

LINE	BAND CODE	WAVE NUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
1666	17 Q 22	652.707	7.294E-04	3.249E-04	1.206E-04	3.513E-05	7.330E-06	9.501E-07	2130.642
1667	4 R 4	652.710	1.280E-03	1.086E-03	8.731E-04	6.536E-04	4.437E-04	2.620E-04	656.306
1668	9 P 20	652.717	5.381E-03	3.152E-03	1.630E-03	7.106E-04	2.455E-04	6.087E-05	1499.609
1669	17 Q 24	652.741	6.662E-04	2.920E-04	1.064E-04	3.025E-05	6.129E-06	7.649E-07	2167.423
1670	5 Q 68	652.749	2.813E-05	8.159E-06	1.811E-06	2.812E-07	2.673E-08	1.261E-09	3114.103
1671	17 Q 13	652.762	7.993E-04	3.763E-04	1.493E-04	4.716E-05	1.089E-05	1.609E-06	2003.562
1672	17 Q 26	652.778	5.953E-04	2.564E-04	9.147E-05	2.536E-05	4.977E-06	5.962E-07	2207.354
1673	4 Q 63	652.802	1.064E-05	4.562E-06	1.618E-06	4.452E-07	8.611E-08	1.023E-08	2221.274
1674	17 Q 28	652.819	5.210E-04	2.202E-04	7.681E-05	2.072E-05	3.928E-06	4.502E-07	2250.413
1675	17 Q 15	652.837	8.255E-04	3.848E-04	1.509E-04	4.697E-05	1.065E-05	1.537E-06	2026.241
1676	17 Q 30	652.862	4.470E-04	1.854E-04	6.304E-05	1.651E-05	3.017E-06	3.297E-07	2296.599
1677	1 P 13	652.864	5.978E-03	6.550E-03	7.164E-03	7.809E-03	8.483E-03	9.171E-03	67.002
1678	17 Q 32	652.909	3.761E-04	1.252E-04	5.059E-05	1.284E-05	2.252E-06	2.343E-07	2345.912
1679	17 Q 17	652.922	8.252E-04	3.803E-04	1.472E-04	4.506E-05	1.001E-05	1.407E-06	2052.024
1680	1 Q 66	652.940	1.404E-04	7.479E-05	3.442E-05	1.303E-05	3.769E-06	7.435E-07	1723.058
1681	17 Q 34	652.960	3.106E-04	1.231E-04	3.973E-05	9.748E-06	1.642E-06	1.617E-07	2398.351
1682	17 Q 36	653.014	2.518E-04	9.739E-05	3.054E-05	7.231E-06	1.165E-06	1.083E-07	2453.914
1683	17 Q 19	653.017	8.017E-04	3.649E-04	1.390E-04	4.180E-05	9.075E-06	1.238E-06	2080.931
1684	4 Q 65	653.056	6.780E-06	2.783E-06	9.363E-07	2.416E-07	4.332E-08	4.619E-09	2321.772
1685	17 Q 38	653.072	2.005E-04	7.559E-05	2.298E-05	5.242E-06	8.060E-07	7.055E-08	2512.601
1686	5 Q 70	653.091	1.724E-05	4.772E-06	1.001E-06	1.450E-07	1.244E-08	5.338E-10	3222.240
1687	17 Q 21	653.122	7.589E-04	3.406E-04	1.276E-04	3.759E-05	7.951E-06	1.050E-06	2112.961
1688	17 Q 40	653.133	1.568E-04	5.756E-05	1.694E-05	3.715E-06	5.436E-07	4.466E-08	2574.410
1689	17 Q 42	653.198	1.206E-04	4.301E-05	1.224E-05	2.574E-06	3.577E-07	2.748E-08	4639.341
1690	1 Q 68	653.214	8.741E-05	4.448E-05	1.938E-05	6.857E-06	1.825E-06	3.231E-07	1828.099
1691	15 P 44	653.225	4.171E-04	1.778E-04	6.263E-05	1.710E-05	3.292E-06	3.848E-07	2231.238
1692	17 Q 23	653.238	7.014E-04	3.100E-04	1.141E-04	3.285E-05	6.758E-06	8.604E-07	2148.113
1693	4 P 19	653.263	1.081E-01	8.543E-02	6.311E-02	4.280E-02	2.543E-02	1.273E-02	815.804
1694	17 Q 44	653.268	9.110E-05	3.155E-05	8.664E-06	1.745E-06	2.296E-07	1.645E-08	2707.392
1695	4 Q 67	653.318	4.253E-06	1.648E-06	5.318E-07	1.284E-07	2.120E-08	2.032E-09	4425.367
1696	17 Q 46	653.341	6.768E-05	2.273E-05	6.012E-06	1.157E-06	1.438E-07	9.577E-09	2778.562
1697	17 Q 25	653.364	6.340E-04	2.756E-04	9.938E-05	2.792E-05	5.572E-06	6.821E-07	4186.388
1698	17 Q 48	653.418	4.945E-05	1.407E-05	4.090E-06	7.505E-07	4.791E-08	5.424E-09	4852.849
1699	5 Q 72	653.444	1.041E-05	2.744E-06	5.430E-07	7.327E-08	5.845E-09	2.201E-10	3333.460
1700	1 P 15	653.451	1.160E-03	1.257E-03	1.358E-03	1.457E-03	1.553E-03	1.638E-03	90.867
1701	1 P 18	653.464	3.175E 00	3.378E 00	3.566E 00	3.724E 00	3.835E 00	3.871E 00	133.440
1702	9 P 19	653.472	5.435E-03	3.209E-03	1.671E-03	7.358E-04	2.575E-04	6.486E-05	1483.944
1703	2 R 45	653.473	7.950E-03	4.711E-03	2.465E-03	1.091E-03	3.844E-04	9.769E-05	1475.426
1704	1 Q 70	653.497	5.358E-05	2.601E-05	1.071E-05	3.536E-06	8.630E-07	1.367E-07	1936.432
1705	17 Q 50	653.500	3.553E-05	1.116E-05	2.728E-06	4.764E-07	5.246E-08	2.990E-09	2930.253
1706	17 Q 27	653.501	5.609E-04	2.395E-04	8.451E-05	2.313E-05	4.465E-06	5.437E-07	4427.784
1707	4 R 5	653.517	1.844E-03	7.093E-04	9.499E-04	2.093E-04	4.800E-04	2.823E-04	660.199
1708	17 Q 52	653.546	2.511E-05	1.781E-06	7.685E-06	2.960E-07	3.057E-08	1.603E-09	3010.771
1709	4 Q 69	653.588	2.627E-06	9.835E-07	2.965E-07	6.687E-08	1.014E-08	8.706E-10	2532.059
1710	628 1 P 12	653.590	5.745E-03	6.321E-03	6.947E-03	7.619E-03	8.344E-03	9.105E-03	57.431

LIME	BAND CODE	MAVE NUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
1711	17 Q 29	653.648	4.864E-04	2.036E-04	7.021E-05	1.867E-05	3.479E-06	3.898E-07	2272.501
1712	17 Q 54	653.677	1.746E-05	5.107E-06	1.745E-06	1.401E-07	1.739E-08	8.371E-10	3094.403
1713	17 Q 56	653.773	1.194E-05	3.364E-06	7.208E-07	1.072E-07	9.660E-09	4.254E-10	3181.146
1714	636 2 R 45	653.787	8.923E-05	5.340E-05	1.340E-05	1.268E-05	4.540E-06	1.178E-06	1456.466
1715	636 1 Q 72	653.788	3.234E-05	1.496E-05	5.810E-06	1.787E-06	3.989E-07	5.638E-08	2047.456
1716	4 P 18	653.794	1.089E-01	8.661E-02	6.447E-02	4.393E-02	2.653E-02	1.344E-02	801.174
1717	17 Q 31	653.806	4.135E-04	1.696E-04	5.702E-05	1.471E-05	2.638E-06	2.815E-07	2319.938
1718	5 Q 74	653.807	6.186E-06	1.551E-06	6.892E-07	3.627E-07	2.641E-09	8.842E-11	3447.765
1719	636 4 Q 71	653.864	1.597E-06	5.700E-07	1.622E-07	3.411E-08	4.736E-09	3.634E-10	2641.846
1720	17 Q 58	653.873	8.036E-06	2.177E-06	4.451E-07	6.251E-08	5.242E-09	2.104E-10	3270.954
1721	636 1 R 6	653.965	3.034E-02	3.402E-02	3.824E-02	4.310E-02	4.879E-02	5.560E-02	16.390
1722	17 Q 33	653.974	3.449E-04	1.383E-04	4.530E-05	1.131E-05	1.949E-06	1.973E-07	1.949.694
1723	17 Q 60	653.979	5.323E-06	1.385E-06	2.696E-07	3.568E-08	2.778E-09	1.014E-10	3303.961
1724	19 R 47	654.044	2.068E-05	6.841E-06	1.777E-07	3.343E-07	4.044E-08	2.599E-09	2813.253
1725	636 1 Q 74	654.088	1.922E-05	8.456E-06	3.094E-06	8.843E-07	1.802E-07	2.264E-08	2161.769
1726	17 Q 62	654.089	3.469E-06	8.654E-07	1.673E-07	1.995E-08	1.438E-09	4.754E-11	3460.029
1727	17 R 1	654.099	2.522E-04	1.224E-04	5.040E-05	1.665E-05	4.068E-06	6.458E-07	1933.255
1728	5 R 8	654.114	1.158E-02	7.366E-03	4.194E-03	2.059E-03	8.256E-04	2.478E-04	1313.524
1729	17 Q 35	654.152	2.824E-04	1.106E-04	3.523E-05	8.500E-06	1.402E-06	1.344E-07	2424.567
1730	3 P 83	654.155	1.544E-06	3.980E-07	7.688E-08	1.002E-08	7.671E-10	2.741E-11	3384.360
1731	5 Q 76	654.181	3.620E-06	8.626E-07	1.512E-07	1.759E-08	1.166E-09	3.461E-11	3565.152
1732	1 P 14	654.196	1.139E-03	1.241E-03	1.477E-03	1.457E-03	1.566E-03	1.671E-03	79.509
1733	17 Q 64	654.205	2.226E-06	5.317E-07	9.350E-08	1.092E-08	7.273E-10	2.171E-11	3559.202
1734	5.443E-03	654.229	5.443E-03	3.235E-03	1.698E-03	7.547E-04	2.672E-04	6.835E-05	1469.067
1735	636 4 R 6	654.285	1.508E-03	1.274E-03	1.020E-03	7.594E-04	5.120E-04	2.596E-04	664.913
1736	1 P 11	654.316	5.454E-03	6.025E-03	6.653E-03	7.338E-03	8.089E-03	8.911E-03	48.596
1737	17 Q 66	654.327	1.405E-06	3.211E-07	5.322E-08	5.855E-09	3.594E-10	9.659E-12	3661.478
1738	17 Q 37	654.341	2.271E-04	8.679E-05	2.682E-05	6.240E-06	9.834E-07	8.807E-08	2481.558
1739	636 1 Q 76	654.396	1.124E-05	4.700E-06	1.617E-06	4.288E-07	7.955E-08	8.861E-09	2279.169
1740	17 Q 39	654.541	1.794E-04	6.678E-05	2.000E-05	6.477E-06	6.725E-07	5.713E-08	2541.665
1741	5 Q 78	654.565	2.086E-06	4.716E-07	7.762E-08	8.361E-09	5.033E-10	1.320E-11	3685.619
1742	636 1 Q 78	654.712	6.477E-06	2.569E-06	8.299E-07	2.038E-07	3.433E-08	3.378E-09	2399.654
1743	15 P 44	654.748	5.615E-04	2.469E-04	9.024E-05	2.578E-05	5.253E-06	6.604E-07	2160.509
1744	17 Q 41	654.751	1.392E-04	5.043E-05	1.461E-05	3.141E-06	4.486E-07	3.571E-08	2604.888
1745	4 P 17	654.752	1.092E-01	8.733E-02	6.549E-02	4.503E-02	2.750E-02	1.418E-02	786.903
1746	17 R 2	654.883	2.785E-04	1.351E-04	5.577E-05	1.834E-05	4.474E-06	7.092E-07	1934.823
1747	1 P 13	654.942	1.107E-03	1.212E-03	1.324E-03	1.441E-03	1.562E-03	1.685E-03	68.909
1748	5 Q 80	654.960	1.184E-06	2.535E-07	3.912E-08	3.894E-09	2.124E-10	4.904E-12	3809.163
1749	17 Q 43	654.972	1.062E-04	3.738E-05	1.046E-05	2.155E-06	2.919E-07	2.171E-08	2671.224
1750	2 R 47	654.980	5.879E-03	3.375E-03	1.700E-03	7.184E-04	2.388E-04	5.633E-05	1547.976
1751	9 P 17	654.988	5.403E-03	3.230E-03	1.708E-03	7.661E-04	2.743E-04	7.119E-05	1454.568
1752	1 P 16	654.996	3.202E-00	3.547E-00	3.692E-00	3.923E-00	4.128E-00	4.286E-00	106.130
1753	636 1 Q 40	655.038	3.674E-06	1.381E-06	4.182E-07	9.484E-08	1.448E-08	1.255E-09	2523.222
1754	1 P 10	655.044	5.111E-03	5.665E-03	6.281E-03	6.963E-03	7.726E-03	8.582E-03	40.497
1755	636 4 R 7	6.5.109	1.609E-03	1.356E-03	1.083E-03	8.033E-04	5.392E-04	3.134E-04	670.355

LINE	BAND CODE	WAVELENGTH	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	FNUC
1756	17 Q 45	655.203	7.968E-05	2.720E-05	7.339E-06	1.447E-06	1.853E-07	1.283E-08	2740.673
1757	4 P 16	655.331	1.062E-01	8.704E-02	6.572E-02	4.537E-02	2.813E-02	1.470E-02	773.792
1758	1 Q 82	655.371	2.053E-06	7.300E-07	2.069E-07	4.328E-08	5.970E-09	4.543E-10	2649.871
1759	2 R 47	655.377	6.599E-05	3.825E-05	1.949E-05	8.349E-06	2.821E-06	6.793E-07	1529.013
1760	17 Q 47	655.446	5.876E-05	1.943E-05	5.048E-06	9.500E-07	1.149E-07	7.381E-09	2813.233
1761	1 R 8	655.538	3.595E-02	4.011E-02	4.480E-02	5.011E-02	5.620E-02	6.328E-02	28.056
1762	19 R 49	655.642	1.504E-05	4.813E-06	1.202E-06	2.155E-07	2.452E-08	1.454E-09	2888.904
1763	17 R 3	655.680	3.103E-04	1.503E-04	6.176E-05	2.039E-05	4.956E-06	7.836E-07	1937.162
1764	5 R 10	655.686	1.298E-02	8.201E-03	4.633E-03	2.253E-03	8.927E-04	2.639E-04	1328.361
1765	627 1 P 12	655.689	1.066E-03	1.171E-03	1.286E-03	1.408E-03	1.539E-03	1.677E-03	59.065
1766	17 Q 49	655.699	4.262E-05	1.364E-05	3.405E-06	6.105E-07	6.948E-08	4.131E-09	2888.904
1767	1 Q 84	655.713	1.129E-06	3.795E-07	1.005E-07	1.935E-08	2.406E-09	1.602E-10	2779.600
1768	9 P 16	655.748	5.310E-03	3.193E-03	1.700E-03	7.691E-04	2.783E-04	7.323E-05	1441.656
1769	3 P 81	655.753	2.796E-06	7.623E-07	1.571E-07	2.277E-08	1.890E-09	7.704E-11	3256.055
1770	1 P 9	655.773	4.712E-03	5.240E-03	5.832E-03	6.446E-03	7.249E-03	8.114E-03	33.134
1771	4 R 8	655.862	1.698E-03	1.428E-03	1.136E-03	8.393E-04	5.605E-04	3.241E-04	676.650
1772	17 Q 51	655.963	3.041E-05	9.400E-06	2.252E-06	3.840E-07	6.103E-08	2.250E-09	2967.884
1773	17 Q 53	656.238	2.134E-05	6.366E-06	1.641E-06	2.366E-07	2.366E-08	1.193E-09	3049.571
1774	4 P 15	656.250	1.064E-01	8.611E-02	6.545E-02	4.575E-02	2.852E-02	1.510E-02	761.126
1775	15 P 42	656.272	7.432E-04	3.365E-04	1.274E-04	3.802E-05	8.178E-06	1.102E-06	2092.492
1776	1 P 11	656.437	1.013E-03	1.118E-03	1.233E-03	1.398E-03	1.496E-03	1.645E-03	49.979
1777	17 R 4	656.456	3.428E-04	1.658E-04	6.802E-05	2.237E-05	5.433E-06	8.563E-07	1940.307
1778	2 R 49	656.483	4.275E-03	2.375E-03	1.149E-03	4.628E-04	1.448E-04	3.160E-05	1623.637
1779	1 P 8	656.502	4.262E-03	4.752E-03	5.307E-03	5.937E-03	6.660E-03	7.505E-03	26.507
1780	9 P 15	656.509	5.163E-03	3.122E-03	1.673E-03	7.628E-04	2.788E-04	7.430E-05	1429.123
1781	17 Q 55	656.523	1.473E-05	4.236E-06	9.300E-07	1.425E-07	1.332E-08	6.155E-10	3134.564
1782	1 P 14	656.532	3.125E 00	3.400E 00	3.687E 00	3.978E 00	4.268E 00	4.542E 00	81.940
1783	4 R 9	656.710	1.776E-03	1.489E-03	1.180E-03	8.681E-04	5.765E-04	3.304E-04	683.634
1784	17 Q 57	656.820	1.001E-05	2.769E-06	5.806E-07	8.409E-08	7.328E-09	3.092E-10	3222.662
1785	4 P 14	656.872	1.034E-01	8.411E-02	6.432E-02	4.529E-02	2.850E-02	1.527E-02	749.5.8
1786	636 2 R 49	656.966	4.800E-05	2.692E-05	1.318E-05	5.380E-06	1.711E-06	3.811E-07	1604.671
1787	636 1 R 10	657.114	4.029E-02	4.465E-02	4.949E-02	5.484E-02	6.077E-02	6.739E-02	42.924
1788	636 17 Q 59	657.127	6.693E-06	1.779E-06	3.557E-07	4.859E-08	3.937E-09	1.512E-10	3313.864
1789	627 1 P 10	657.186	9.502E-04	1.052E-03	1.166E-03	1.291E-03	1.431E-03	1.587E-03	41.849
1790	628 1 P 7	657.232	3.762E-03	4.206E-03	4.712E-03	5.290E-03	5.963E-03	6.760E-03	20.617
1791	19 R 51	657.238	1.076E-05	3.327E-06	7.970E-07	1.359E-07	1.452E-08	7.560E-10	2967.684
1792	5 R 12	657.261	1.393E-02	8.733E-03	4.887E-03	2.349E-03	9.175E-04	2.662E-04	1346.321
1793	17 R 5	657.272	3.743E-04	1.808E-04	7.400E-05	2.427E-05	5.878E-06	9.827E-07	1944.195
1794	9 P 14	657.272	4.958E-03	3.013E-03	1.625E-03	7.644E-04	2.754E-04	7.428E-05	1417.376
1795	3 P 79	657.355	4.987E-06	1.436E-06	3.159E-07	4.851E-08	4.550E-09	2.110E-10	3130.833
1796	4 R 10	657.442	1.840E-03	1.537E-03	1.213E-03	8.878E-04	5.859E-04	3.336E-04	691.516
1797	17 Q 61	657.446	4.404E-06	1.123E-06	2.138E-07	2.749E-08	2.066E-09	7.203E-11	3408.166
1798	4 P 13	657.756	9.955E-02	8.134E-02	6.256E-02	4.436E-02	2.816E-02	1.526E-02	738.472
1799	17 Q 63	657.776	2.852E-06	6.972E-07	1.461E-07	1.524E-08	1.059E-09	3.361E-11	3505.568
1800	15 P 40	657.798	9.661E-04	4.502E-04	1.764E-04	5.484E-05	1.242E-05	1.784E-06	2027.786

LINE	BAND CODE	WAVELENGTH	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
1801	627	1 P 9	8.770E-04	9.744E-04	1.084E-03	1.206E-03	1.345E-03	1.503E-03	34.077
1802	628	1 P 6	3.218E-03	3.605E-03	4.050E-03	4.562E-03	5.163E-03	5.844E-03	15.463
1803	628	2 R 51	1.641E-03	1.641E-03	7.622E-04	2.918E-04	8.572E-05	1.725E-05	1702.407
1804	17 R 6	658.031	4.038E-04	1.946E-04	7.947E-05	2.599E-05	6.259E-06	9.792E-07	1948.925
1805	9 P 13	658.037	4.696E-03	2.868E-03	1.553E-03	7.194E-04	2.677E-04	7.304E-05	1406.410
1806	1 P 12	658.072	2.933E 00	3.270E 00	3.531E 00	3.861E 00	4.213E 00	4.581E 00	60.871
1807	17 Q 65	658.117	1.818E-06	4.4E-07	7.297E-08	8.270E-09	5.305E-10	5.09E-11	3606.068
1808	636	4 R 11	658.319	1.54E-03	1.237E-03	9.004E-04	5.901E-04	3.331E-04	703.038
1809	5 P 12	658.416	9.442E-02	7.748E-02	5.991E-02	4.276E-02	2.736E-02	1.498E-02	728.413
1810	17 Q 67	658.469	1.140E-06	2.551E-07	4.145E-08	4.397E-09	2.596E-10	6.640E-12	3709.665
1811	636	2 R 51	658.553	1.861E-05	8.742E-06	3.392E-06	1.013E-06	2.081E-07	1683.439
1812	627	1 P 8	658.686	8.647E-04	9.874E-04	1.104E-03	1.237E-03	1.393E-03	27.262
1813	636	1 R 12	658.693	4.325E-02	4.755E-02	5.718E-02	6.247E-02	6.800E-02	60.873
1814	628	1 P 5	658.695	2.955E-03	3.271E-03	3.758E-03	4.269E-03	4.887E-03	11.045
1815	9 P 12	658.803	4.377E-03	2.684E-03	1.463E-03	6.814E-04	2.557E-04	7.048E-05	1396.229
1816	19 R 53	658.833	7.572E-06	2.258E-06	5.184E-07	8.386E-08	8.392E-09	4.230E-10	3049.571
1817	5 R 14	658.837	1.443E-02	8.962E-03	4.908E-03	2.352E-03	9.033E-04	2.565E-04	1367.404
1818	17 R 7	658.873	4.310E-04	2.072E-04	8.436E-05	2.749E-05	6.603E-06	1.026E-06	1954.354
1819	3 P 77	658.961	8.759E-06	2.660E-06	6.236E-07	1.036E-07	1.071E-08	5.628E-10	3008.694
1820	636	4 R 12	659.025	1.598E-03	1.249E-03	9.037E-04	5.78E-04	3.285E-04	709.511
1821	4 P 11	659.271	8.832E-02	7.278E-02	5.653E-02	4.066E-02	2.618E-02	1.447E-02	718.943
1822	15 P 38	659.326	1.236E-03	5.910E-04	7.731E-05	7.731E-05	1.840E-05	2.823E-06	1966.193
1823	628	1 P 4	659.428	2.622E-03	2.552E-03	2.889E-03	3.291E-03	3.782E-03	7.363
1824	627	1 P 7	659.937	7.015E-04	7.737E-04	9.845E-04	1.109E-03	1.256E-03	21.204
1825	2 R 53	659.975	2.151E-03	1.114E-03	4.957E-04	1.801E-04	4.955E-05	9.166E-06	1784.285
1826	9 P 11	659.970	4.001E-03	2.464E-03	1.350E-03	6.323E-04	2.390E-04	6.653E-05	1386.828
1827	17 P 8	659.609	4.548E-04	2.181E-04	8.848E-05	2.872E-05	8.862E-06	1.059E-06	1960.673
1828	1 P 10	659.614	2.623E 00	2.902E 00	3.211E 00	3.552E 00	3.932E 00	4.355E 00	42.523
1829	636	4 R 13	659.936	1.953E-03	1.253E-03	9.006E-04	5.811E-04	3.214E-04	719.566
1830	4 P 10	659.963	8.107E-02	6.704E-02	5.232E-02	3.777E-02	2.452E-02	1.368E-02	710.417
1831	636	2 R 53	660.138	1.633E-05	5.686E-06	2.094E-06	5.856E-07	1.106E-07	1765.315
1832	628	1 P 3	660.162	1.362E-03	1.732E-03	1.965E-03	2.244E-03	2.566E-03	4.418
1833	627	1 P 6	660.189	6.004E-04	6.723E-04	8.457E-04	9.612E-04	1.095E-03	15.703
1834	636	1 R 14	660.274	4.480E-02	5.299E-02	5.726E-02	6.151E-02	6.551E-02	81.944
1835	9 P 10	660.339	3.572E-03	2.808E-03	1.215E-03	5.723E-04	2.178E-04	6.117E-05	1378.213
1836	5 R 16	660.415	1.449E-02	8.907E-03	4.867E-03	2.273E-03	8.559E-04	2.370E-04	4391.609
1837	19 R 55	660.425	5.241E-06	1.506E-06	3.307E-07	5.066E-08	4.737E-09	2.188E-10	3134.564
1838	17 R 9	660.485	4.758E-04	2.274E-04	9.194E-05	2.971E-05	7.059E-06	1.082E-06	1467.638
1839	3 P 75	660.570	1.515E-05	4.844E-06	1.209E-06	2.166E-07	2.463E-08	1.463E-09	2889.642
1840	636	4 R 14	660.610	1.961E-03	1.245E-03	8.885E-04	5.682E-04	3.108E-04	730.635
1841	4 P 9	660.794	7.286E-02	6.046E-02	4.738E-02	3.438E-02	2.246E-02	1.263E-02	702.537
1842	15 P 36	660.855	1.551E-03	7.812E-04	3.175E-04	1.066E-04	2.657E-05	4.340E-06	1907.713
1843	628	1 P 2	660.896	7.767E-04	8.784E-04	9.971E-04	1.141E-03	1.318E-03	4.209
1844	627	1 P 5	660.942	4.915E-04	5.215E-04	7.007E-04	7.954E-04	9.102E-04	11.359
1845	2 R 55	660.963	1.489E-03	7.429E-04	3.162E-04	1.088E-04	2.796E-05	4.740E-06	1869.270

LINE	BAND CODE	WAVE NUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
1846	9 P	661.109	3.095E-03	1.920E-03	1.061E-03	5.020E-04	1.923E-04	5.443E-05	1370.310
1847	1 P	661.161	2.196E 00	2.45E 00	2.727E 00	3.045E 00	3.414E 00	3.635E 00	28.035
1848	17 R	661.190	4.927E-04	2.347E-04	9.449E-05	3.037E-05	7.172E-06	1.090E-06	1975.556
1849	4 P	661.514	6.365E-02	5.298E-02	4.167E-02	3.036E-02	1.995E-02	1.130E-02	695.350
1850	4 R	661.560	1.960E-03	1.601E-03	1.230E-03	8.715E-04	5.522E-04	2.584E-04	742.218
1851	1 P	661.696	3.759E-04	4.224E-04	4.763E-04	5.390E-04	6.138E-04	7.050E-04	7.573
1852	2 R	661.720	1.672E-05	8.426E-06	3.627E-06	1.265E-06	3.306E-07	5.720E-08	1850.299
1853	636	661.858	4.500E-02	4.851E-02	5.201E-02	5.533E-02	5.829E-02	6.056E-02	106.134
1854	9 P	661.881	2.576E-03	1.602E-03	8.887E-04	4.225E-04	1.628E-04	4.640E-05	1363.331
1855	5 R	661.975	1.416E-02	8.601E-03	4.633E-03	2.126E-03	7.832E-04	2.109E-04	1416.536
1856	19 R	662.015	3.570E-06	9.873E-07	2.070E-07	2.997E-08	2.611E-09	1.102E-10	3222.662
1857	17 R	662.107	5.067E-04	2.405E-04	9.638E-05	3.081E-05	7.226E-06	1.089E-06	1984.047
1858	3 P	662.181	2.579E-05	8.676E-06	2.300E-06	4.438E-07	5.537E-08	3.705E-09	2773.677
636	4 R	662.199	1.942E-03	1.577E-03	1.274E-03	8.463E-04	5.308E-04	2.831E-04	754.868
1860	4 P	662.325	5.363E-02	4.476E-02	3.531E-02	2.584E-02	1.706E-02	9.723E-03	669.256
1861	628	662.370	2.088E-03	2.354E-03	2.664E-03	3.029E-03	3.468E-03	4.012E-03	0.736
1862	628	662.374	3.455E-03	3.893E-03	4.402E-03	5.000E-03	5.719E-03	6.606E-03	2.209
1863	628	662.379	4.787E-03	5.388E-03	6.086E-03	6.902E-03	7.880E-03	9.043E-03	4.418
1864	15 P	662.385	1.912E-03	9.613E-04	4.127E-04	1.435E-04	3.740E-05	6.451E-06	1852.347
1865	628	662.386	6.068E-03	6.821E-03	7.693E-03	8.709E-03	9.920E-03	1.140E-02	7.363
1866	628	662.395	7.287E-03	8.178E-03	9.204E-03	1.040E-02	1.181E-02	1.352E-02	11.015
1867	628	662.406	8.431E-03	9.444E-03	1.061E-02	1.179E-02	1.352E-02	1.540E-02	15.463
1868	628	662.419	9.649E-03	1.061E-02	1.188E-02	1.334E-02	1.503E-02	1.704E-02	20.617
1869	628	662.434	1.046E-02	1.166E-02	1.302E-02	1.456E-02	1.633E-02	1.840E-02	26.507
1870	2 R	662.446	1.014E-03	4.868E-04	1.978E-04	6.434E-05	1.541E-05	2.387E-06	1957.360
1871	628	662.450	1.132E-02	1.258E-02	1.400E-02	1.559E-02	1.740E-02	1.947E-02	33.134
1372	627	662.451	2.546E-04	2.865E-04	3.235E-04	3.668E-04	4.167E-04	4.824E-04	4.544
1873	628	662.468	1.208E-02	1.338E-02	1.484E-02	1.644E-02	1.824E-02	2.026E-02	40.497
1874	628	662.488	1.273E-02	1.405E-02	1.551E-02	1.710E-02	1.885E-02	2.076E-02	48.556
1875	628	662.510	1.326E-02	1.458E-02	1.602E-02	1.757E-02	1.922E-02	2.098E-02	57.431
1876	628	662.534	1.368E-02	1.498E-02	1.638E-02	1.785E-02	1.938E-02	2.095E-02	67.002
1877	628	662.559	1.398E-02	1.525E-02	1.653E-02	1.795E-02	1.933E-02	2.087E-02	77.310
1878	628	662.586	1.418E-02	1.538E-02	1.663E-02	1.788E-02	1.909E-02	2.018E-02	88.353
1879	628	662.616	1.428E-02	1.540E-02	1.654E-02	1.765E-02	1.867E-02	1.950E-02	100.132
1880	628	662.647	1.423E-02	1.530E-02	1.633E-02	1.728E-02	1.810E-02	1.866E-02	112.648
1881	9 P	662.654	2.025E-03	1.263E-03	7.028E-04	3.355E-04	1.299E-04	3.747E-05	1357.064
1882	628	662.680	1.414E-02	1.509E-02	1.600E-02	1.679E-02	1.739E-02	1.789E-02	122.899
1883	1 P	662.711	1.664E 00	1.862E 00	2.089E 00	2.350E 00	2.657E 00	3.024E 00	16.25
1884	628	662.714	1.393E-02	1.478E-02	1.556E-02	1.618E-02	1.658E-02	1.682E-02	139.886
1885	628	662.751	1.365E-02	1.439E-02	1.503E-02	1.548E-02	1.568E-02	1.548E-02	154.609
1886	17 R	662.773	5.162E-04	2.439E-04	9.728E-05	3.091E-05	7.194E-06	1.673E-06	1993.571
1887	628	662.789	1.329E-02	1.392E-02	1.447E-02	1.471E-02	1.470E-02	1.430E-02	170.068
1888	628	662.829	1.287E-02	1.339E-02	1.368E-02	1.368E-02	1.370E-02	1.310E-02	186.263
1889	628	662.872	1.240E-02	1.280E-02	1.303E-02	1.303E-02	1.267E-02	1.191E-02	203.153
1890	628	662.916	1.188E-02	1.216E-02	1.227E-02	1.214E-02	1.164E-02	1.074E-02	220.858

LINE	BAND CODE	WAVELENGTH	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
1891	628	1 Q 25	1.132E-02	1.150E-02	1.149E-02	1.121E-02	1.061E-02	9.606E-03	239.246
1892	628	1 Q 26	1.073E-02	1.081E-02	1.069E-02	1.031E-02	9.608E-03	8.530E-03	258.396
1893	628	1 Q 27	1.013E-02	1.011E-02	9.899E-03	9.424E-03	8.643E-03	7.518E-03	278.264
1894	628	4 P 6	4.287E-02	3.586E-02	2.838E-02	2.083E-02	1.381E-02	7.918E-03	683.813
1895	628	1 R 0	1.399E-03	1.577E-03	1.786E-03	2.031E-03	2.327E-03	2.694E-03	0.0
1896	628	1 Q 28	6.63.110	9.411E-03	9.112E-03	8.561E-03	7.724E-03	6.578E-03	298.876
1897	628	1 Q 29	6.63.164	8.884E-03	8.342E-03	7.732E-03	6.851E-03	5.713E-03	320.219
1898	634	4 R 17	1.917E-03	1.548E-03	1.174E-03	8.180E-04	5.077E-04	2.672E-04	767.952
1899	627	1 P 2	1.289E-04	1.451E-04	1.641E-04	1.863E-04	2.130E-04	2.461E-04	2.272
1900	628	1 P 30	8.263E-03	8.026E-03	7.597E-03	7.142E-03	6.050E-03	4.927E-03	2.2297
1901	628	1 Q 31	6.63.276	7.357E-03	6.881E-03	6.197E-03	5.303E-03	4.219E-03	365.165
1902	636	2 R 57	1.139E-05	5.523E-06	2.270E-06	7.483E-07	1.822E-07	2.880E-08	1938.387
1903	628	1 Q 32	6.63.335	6.712E-03	6.200E-03	5.500E-03	4.619E-03	3.587E-03	388.657
1904	628	1 Q 33	6.63.396	6.093E-03	5.558E-03	4.855E-03	3.998E-03	3.028E-03	412.944
1905	628	9 P 6	1.457E-03	9.112E-04	5.084E-04	2.435E-04	9.469E-05	2.732E-05	1351.581
1906	634	1 R 18	6.63.445	4.398E-02	4.951E-02	5.175E-02	5.334E-02	5.389E-02	133.445
1907	628	1 Q 34	6.63.459	5.506E-03	4.957E-03	4.261E-03	3.440E-03	2.539E-03	437.958
1908	628	1 Q 35	6.63.524	4.952E-03	4.399E-03	3.719E-03	2.941E-03	2.114E-03	463.710
1909	628	5 R 20	1.350E-02	8.089E-03	4.288E-03	1.930E-03	6.938E-04	1.811E-04	1449.384
1910	628	1 Q 36	6.63.591	4.434E-03	3.883E-03	3.228E-03	2.500E-03	1.749E-03	490.198
1911	628	1 Q 37	6.63.601	6.358E-07	1.271E-07	1.736E-08	1.406E-09	5.400E-11	3313.864
1912	628	1 Q 38	6.63.660	3.950E-03	3.612E-03	2.787E-03	2.112E-03	1.437E-03	517.419
1913	628	1 R 1	3.942E-03	3.504E-03	2.982E-03	2.393E-03	1.773E-03	1.172E-03	945.375
1914	634	17 R 13	5.230E-04	2.461E-04	9.716E-05	3.082E-05	7.115E-06	1.051E-06	2003.582
1915	634	4 R 16	1.876E-03	1.506E-03	1.133E-03	7.825E-04	4.802E-04	2.490E-04	782.269
1916	628	3 P 71	6.63.796	4.224E-05	1.528E-05	8.911E-07	1.217E-07	9.142E-07	2860.803
1917	628	1 Q 39	6.63.803	3.525E-03	3.095E-03	2.044E-03	1.480E-03	9.500E-04	574.046
1918	628	1 R 1	2.093E-03	2.360E-03	2.670E-03	3.036E-03	3.476E-03	4.021E-03	0.746
1919	628	4 P 5	3.161E-02	2.650E-02	2.102E-02	1.548E-02	1.030E-02	5.933E-03	679.100
1920	628	1 Q 40	3.139E-03	2.721E-03	2.246E-03	1.737E-03	1.228E-03	7.648E-04	603.450
1921	628	15 P 32	6.63.918	1.190E-03	5.250E-04	1.888E-04	5.129E-05	9.334E-06	1.00.096
1922	628	2 R 59	6.63.924	3.135E-04	1.215E-04	3.726E-05	8.298E-06	1.170E-06	2048.553
1923	628	1 Q 41	6.63.934	2.381E-03	1.935E-03	1.468E-03	1.013E-03	6.117E-04	633.649
1924	628	1 Q 42	6.64.033	2.458E-03	1.659E-03	1.234E-03	8.310E-04	4.860E-04	666.542
1925	628	1 Q 43	6.64.113	2.162E-03	1.800E-03	1.032E-03	6.775E-04	3.835E-04	896.169
1926	628	1 Q 44	6.64.195	1.894E-03	1.555E-03	8.582E-04	5.492E-04	3.007E-04	728.520
1927	628	9 P 5	6.64.205	5.611E-04	2.138E-04	1.508E-04	5.844E-05	1.706E-05	1346.881
1928	628	1 P 4	6.64.264	1.043E-00	1.320E-00	1.493E-00	1.700E-00	1.951E-00	7.804
1929	628	1 Q 45	6.64.280	1.853E-03	1.337E-03	7.102E-04	4.426E-04	2.343E-04	761.844
1930	628	17 R 14	6.64.359	5.250E-04	2.458E-04	3.039E-05	6.953E-06	1.015E-06	2014.718
1931	628	1 Q 46	6.64.366	1.436E-03	1.145E-03	8.550E-04	3.547E-04	1.814E-04	795.452
1932	628	1 Q 47	6.64.455	1.436E-03	9.763E-04	4.789E-04	2.826E-04	1.394E-04	830.013
1933	628	1 Q 48	6.64.545	1.072E-03	8.289E-04	3.903E-04	2.239E-04	1.065E-04	805.308
1934	628	1 R 2	6.64.582	2.775E-03	3.126E-03	4.015E-03	4.591E-03	5.104E-03	2.509
1935	628	4 P 4	6.64.626	2.016E-02	1.642E-02	1.345E-02	8.629E-03	3.633E-03	675.266

LINE	BAND CODE	WAVE NUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
1926	628	1 0 49	664.638	7.008E-04	4.951E-04	3.194E-04	1.764E-04	8.080E-	901.436
1927	627	1 0 1	664.722	6.400E-04	4.978E-04	3.678E-04	2.77E-04	7.492E-04	0.757
1928	627	1 0 2	664.726	7.276E-04	6.225E-04	4.239E-04	1.498E-03	1.233E-03	4.274
1929	627	1 0 3	664.732	1.007E-03	1.137E-03	1.289E-03	1.471E-03	1.694E-03	4.544
1930	628	1 0 50	664.732	5.899E-04	4.088E-04	2.522E-04	1.381E-04	6.048E-05	938.646
1931	627	1 0 4	664.739	1.274E-03	1.436E-03	1.629E-03	1.850E-03	2.125E-03	7.573
1932	627	1 0 5	664.749	1.526E-03	1.717E-03	1.939E-03	2.201E-03	2.518E-03	11.359
1933	627	1 0 6	664.761	1.762E-03	1.977E-03	2.266E-03	2.517E-03	2.866E-03	15.903
1934	627	1 0 7	664.774	1.977E-03	2.213E-03	2.482E-03	2.796E-03	3.166E-03	21.204
1935	627	1 0 8	664.790	2.171E-03	2.422E-03	2.707E-03	3.033E-03	3.414E-03	27.264
1936	627	1 0 9	664.807	2.341E-03	2.600E-03	2.896E-03	3.228E-03	3.608E-03	34.077
1937	627	1 0 10	664.827	2.487E-03	2.754E-03	3.050E-03	3.379E-03	3.747E-03	41.649
1938	628	1 0 51	664.829	7.945E-04	3.761E-04	2.048E-04	1.076E-04	4.570E-05	975.540
1939	626	4 R 14	664.833	1.460E-03	1.091E-03	7.460E-04	4.524E-04	2.311E-04	796.690
1940	627	1 0 11	664.848	2.608E-03	2.876E-03	3.187E-03	3.488E-03	3.833E-03	44.474
1941	627	1 0 12	664.872	2.703E-03	2.967E-03	3.248E-03	3.549E-03	3.866E-03	59.065
1942	627	1 0 13	664.876	2.557E-04	1.394E-04	4.334E-07	9.612E-08	1.414E-08	2049.581
1943	627	1 0 13	664.897	2.773E-03	3.028E-03	3.294E-03	3.571E-03	3.851E-03	68.909
1944	627	1 0 14	664.924	2.588E-03	3.054E-03	3.368E-03	3.594E-03	3.791E-03	79.504
1945	628	1 0 52	664.928	4.128E-04	2.750E-04	1.635E-04	8.311E-05	3.403E-05	1013.817
1946	627	1 0 15	664.953	2.620E-03	3.064E-03	3.287E-03	3.501E-03	3.692E-03	90.867
1947	627	9 P 4	664.982	3.807E-04	1.339E-04	6.450E-05	2.525E-05	7.350E-06	1362.964
1948	627	1 0 16	664.984	2.631E-03	2.986E-03	3.288E-03	3.498E-03	3.557E-03	102.981
1949	627	1 0 17	665.017	2.424E-03	2.996E-03	3.164E-03	3.303E-03	3.394E-03	115.453
1950	628	1 0 53	665.024	4.816E-04	2.408E-04	1.249E-04	6.416E-05	2.518E-05	1054.776
1951	626	1 R 20	665.035	4.192E-02	4.383E-02	4.698E-02	4.726E-02	4.627E-02	163.676
1952	627	1 0 18	665.052	2.599E-03	2.948E-03	3.065E-03	3.166E-03	3.208E-03	129.481
1953	627	1 0 19	665.089	2.557E-03	2.842E-03	2.947E-03	3.009E-03	3.052E-03	143.866
1954	627	1 0 20	665.128	2.500E-03	2.738E-03	2.813E-03	2.837E-03	2.784E-03	159.008
1955	628	1 0 54	665.131	4.096E-04	1.816E-04	1.027E-04	4.913E-05	1.851E-05	1094.468
1956	627	5 R 22	665.160	1.237E-02	3.866E-03	1.703E-03	5.992E-04	1.502E-04	1482.453
1957	627	1 0 21	665.169	2.424E-03	2.821E-03	2.885E-03	2.854E-03	2.567E-03	174.907
1958	627	19 R 61	665.184	1.578E-06	4.024E-07	9.843E-09	7.394E-10	4.570E-11	3409.166
1959	627	1 0 22	665.212	2.347E-03	2.492E-03	2.507E-03	2.494E-03	2.443E-03	191.562
1960	628	1 0 55	665.236	3.403E-04	1.466E-04	8.077E-05	3.741E-05	1.352E-05	1132.892
1971	627	1 0 23	665.257	2.255E-03	2.355E-03	2.343E-03	2.271E-03	2.141E-03	408.473
1972	627	1 0 24	665.304	4.153E-03	4.212E-03	4.075E-03	4.078E-03	4.190E-03	427.141
1973	628	1 R 3	665.322	3.486E-03	4.368E-03	4.944E-03	5.655E-03	6.517E-03	4.418
1974	628	1 0 25	665.343	2.845E-04	1.178E-04	6.321E-05	2.832E-05	9.815E-06	1174.044
1975	627	1 0 25	665.352	2.049E-03	4.065E-03	2.006E-03	1.867E-03	1.696E-03	446.046
1976	627	17 R 15	665.381	5.248E-04	4.584E-05	2.982E-05	6.761E-06	9.753E-07	466.241
1977	636	4 R 20	665.383	1.772E-03	1.039E-03	7.036E-04	4.213E-04	2.117E-04	612.776
1978	627	2 R 61	665.395	4.403E-04	7.315E-05	2.113E-05	4.361E-06	5.563E-07	2142.845
1979	627	1 0 26	665.403	1.938E-03	1.916E-03	1.838E-03	1.704E-03	1.500E-03	265.747
1980	627	3 P 64	665.412	1.137E-05	7.799E-06	1.753E-06	2.612E-07	2.197E-08	2551.021

LINE	BAND CODE	MAVENUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
1981	4 P 3	665.413	9.107E-03	7.657E-03	6.095E-03	4.509E-03	3.017E-03	1.750E-03	672.068
1982	15 P 30	665.452	2.747E-04	1.443E-04	6.333E-05	2.424E-05	6.049E-05	1.311E-05	1730.901
1983	628 1 Q 57	665.452	2.369E-04	1.572E-04	9.418E-05	4.422E-05	2.134E-05	7.079E-06	1215.437
1984	627 1 Q 27	665.456	1.823E-04	1.814E-04	1.768E-04	1.674E-04	1.525E-04	1.316E-04	286.164
1985	627 1 R 0	665.478	2.616E-04	2.949E-04	3.337E-04	3.795E-04	4.347E-04	5.011E-04	0.0
1986	627 1 Q 28	665.510	1.707E-03	1.683E-03	1.622E-03	1.515E-03	1.357E-03	1.146E-03	307.377
1987	628 1 Q 58	665.563	1.965E-04	1.280E-04	7.499E-05	3.814E-05	1.598E-05	5.074E-06	1236.557
1988	627 1 Q 29	665.567	1.590E-03	1.553E-03	1.480E-03	1.363E-03	1.200E-03	9.901E-04	329.327
1989	627 1 Q 30	665.625	1.475E-03	1.428E-03	1.344E-03	1.219E-03	1.026E-03	8.494E-04	352.034
1990	628 1 Q 59	665.677	1.623E-04	1.038E-04	5.944E-05	2.940E-05	1.190E-05	3.614E-06	1501.410
1991	627 1 Q 31	665.686	1.361E-03	1.303E-03	1.212E-03	1.084E-03	9.193E-04	7.424E-04	375.444
1992	636 3 P 67	665.710	1.295E-06	5.077E-07	1.617E-07	3.904E-08	6.442E-09	6.174E-10	2625.367
1993	627 1 Q 32	665.748	1.251E-03	1.186E-03	1.087E-03	9.576E-04	7.969E-04	6.117E-04	399.711
1994	628 1 Q 60	665.792	1.326E-04	6.390E-05	4.691E-05	2.256E-05	8.812E-06	2.558E-06	1345.943
1995	627 1 Q 33	665.813	1.144E-03	1.071E-03	9.710E-04	8.415E-04	6.864E-04	5.135E-04	424.664
1996	1 P 2	665.820	3.578E-01	4.028E-01	4.553E-01	5.168E-01	5.907E-01	6.820E-01	2.341
1997	627 1 Q 34	665.879	1.041E-03	9.643E-04	8.624E-04	7.322E-04	5.873E-04	4.281E-04	450.413
1998	628 1 Q 61	665.910	1.096E-04	6.739E-05	3.695E-05	1.722E-05	6.490E-06	1.749E-06	1390.809
1999	627 1 Q 35	665.948	4.437E-04	8.642E-04	7.621E-04	6.388E-04	4.497E-04	3.543E-04	476.897
2000	17 R 16	665.948	5.198E-04	2.408E-04	9.376E-05	2.894E-05	6.494E-06	9.245E-07	2038.997
2001	627 1 Q 36	666.018	8.516E-04	7.706E-04	6.699E-04	5.518E-04	4.224E-04	2.913E-04	504.137
2002	628 1 Q 62	666.030	8.954E-05	5.398E-05	4.882E-05	1.308E-05	4.756E-06	1.258E-06	1636.355
2003	628 1 Q 4	666.063	4.071E-03	4.575E-03	5.160E-03	5.802E-03	6.651E-03	7.642E-03	7.463
2004	627 1 Q 37	666.091	7.651E-04	6.839E-04	5.859E-04	4.741E-04	3.549E-04	2.377E-04	532.132
2005	623 1 Q 63	666.152	7.288E-05	4.306E-05	2.244E-05	9.888E-06	3.463E-06	8.736E-07	1482.633
2006	627 1 Q 38	666.165	6.844E-04	6.042E-04	5.099E-04	4.050E-04	2.963E-04	1.927E-04	560.882
2007	627 1 R 1	666.237	3.914E-04	4.411E-04	4.990E-04	5.672E-04	6.492E-04	7.509E-04	0.757
2008	627 1 Q 39	666.241	6.096E-04	5.312E-04	4.415E-04	3.441E-04	2.459E-04	1.551E-04	590.388
2009	628 1 Q 64	666.274	5.910E-05	3.420E-05	1.739E-05	7.430E-06	2.509E-06	6.030E-07	1529.641
2010	627 1 Q 40	666.320	5.407E-04	4.650E-04	3.803E-04	2.908E-04	2.028E-04	1.241E-04	620.648
2011	627 1 Q 41	666.400	4.775E-04	4.052E-04	3.261E-04	2.444E-04	1.663E-04	9.852E-05	651.664
2012	628 1 Q 65	666.402	4.774E-05	2.706E-05	1.342E-05	5.507E-06	1.807E-06	4.130E-07	1577.381
2013	636 2 R 61	666.449	5.035E-06	2.251E-06	8.397E-07	2.458E-07	5.161E-08	6.740E-09	2123.477
2014	636 4 R 21	666.480	1.711E-03	1.345E-03	9.880E-04	6.620E-04	3.913E-04	1.534E-04	629.910
2015	627 1 Q 42	666.482	4.200E-04	3.514E-04	2.782E-04	2.043E-04	1.355E-04	7.771E-05	683.434
2016	628 1 Q 66	666.531	3.843E-05	2.133E-05	1.031E-05	4.146E-06	1.249E-06	2.320E-07	1625.851
2017	627 1 Q 43	666.567	3.678E-04	3.035E-04	2.361E-04	1.699E-04	1.098E-04	6.080E-05	713.459
2018	630 1 R 22	666.627	3.904E-02	4.044E-02	4.132E-02	4.146E-02	4.060E-02	3.640E-02	197.425
2019	627 1 Q 44	666.653	3.268E-04	2.609E-04	1.995E-04	1.405E-04	6.840E-05	4.738E-05	749.239
2020	628 1 Q 67	666.661	3.081E-05	1.674E-05	7.888E-06	3.073E-06	9.229E-07	1.910E-07	1675.051
2021	627 1 Q 45	666.742	2.787E-04	2.233E-04	1.677E-04	1.156E-04	7.077E-05	3.663E-05	783.273
2022	5 R 24	666.746	1.145E-02	6.654E-03	3.400E-03	1.462E-03	4.971E-04	1.207E-04	1519.642
2023	14 R 63	666.763	1.024E-06	2.503E-07	4.525E-08	5.467E-09	3.749E-10	1.198E-11	3205.568
2024	628 1 Q 68	666.794	2.462E-04	1.308E-05	6.007E-06	2.267E-06	6.541E-07	1.286E-07	1724.484
2025	628 1 R 5	666.804	4.672E-03	5.243E-03	5.990E-03	6.863E-03	7.566E-03	8.666E-03	11.045

LINE	BAND CODE	WAVE NUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
2026	627	1 Q 46	2.411E-04	1.902E-04	1.403E-04	9.456E-05	5.632E-05	2.812E-05	818.061
2027	2 R 63	666.832	2.908E-04	1.234E-04	4.324E-05	1.173E-05	2.242E-06	2.595E-07	2240.245
2028	627	1 Q 47	2.077E-04	1.614E-04	1.168E-04	7.697E-05	4.456E-05	2.145E-05	853.003
2029	628	1 Q 69	1.959E-05	1.019E-05	4.554E-06	1.664E-06	4.610E-07	8.406E-08	1775.643
2030	636	4 R 22	1.637E-03	1.277E-03	9.296E-04	6.159E-04	3.590E-04	1.743E-04	846.414
2031	15 P 28	666.987	3.198E-03	1.714E-03	7.947E-04	3.037E-04	8.904E-05	1.766E-05	1704.942
2032	627	1 K 2	5.188E-04	5.843E-04	6.604E-04	7.494E-04	8.573E-04	9.900E-04	2.272
2033	627	1 Q 48	1.762E-04	1.363E-04	9.682E-05	6.232E-05	3.505E-05	1.625E-05	889.900
2034	3 P 67	667.030	1.160E-04	4.502E-05	1.418E-05	3.377E-06	5.481E-06	5.144E-06	2444.333
2035	17 R 17	657.033	5.134E-04	2.365E-04	9.145E-05	2.799E-05	6.216E-06	8.731E-07	2022.024
2036	628	1 Q 70	1.554E-05	7.899E-06	3.438E-06	1.215E-06	3.232E-07	5.723E-08	1827.033
2037	627	1 Q 49	1.523E-04	1.146E-04	7.986E-05	5.019E-05	2.740E-05	1.424E-05	926.950
2038	628	1 Q 71	1.228E-05	6.100E-06	2.583E-06	8.834E-07	2.253E-07	3.782E-08	1874.154
2039	627	1 Q 50	1.298E-04	9.595E-05	6.555E-05	4.022E-05	2.130E-05	9.149E-06	964.754
2040	627	1 Q 51	1.099E-04	7.999E-05	5.355E-05	3.206E-05	1.647E-05	6.796E-06	1003.312
2041	628	1 Q 72	9.662E-06	4.692E-06	1.933E-06	6.350E-07	1.563E-07	2.486E-08	1932.004
2042	1 Q 2	667.387	1.794E 00	2.019E 00	2.282E 00	2.590E 00	2.961E 00	3.418E 00	2.341
2043	1 Q 4	667.401	3.145E 00	3.533E 00	3.981E 00	4.503E 00	5.124E 00	5.803E 00	7.804
2044	1 Q 2	667.417	9.280E-05	6.639E-05	4.355E-05	2.542E-05	1.265E-05	5.016E-06	1042.623
2045	1 Q 6	667.424	4.360E 00	4.879E 00	5.473E 00	6.157E 00	6.958E 00	7.819E 00	16.369
2046	1 Q 8	667.455	5.391E 00	6.001E 00	6.691E 00	7.471E 00	8.365E 00	9.405E 00	28.095
2047	3 P 65	667.469	2.072E-06	8.497E-07	2.857E-07	7.370E-08	1.321E-08	1.408E-09	2321.772
2048	628	1 Q 73	7.578E-06	3.595E-06	1.440E-06	4.600E-07	1.078E-07	1.621E-08	1985.583
2049	628	1 Q 0	6.203E 00	6.861E 00	7.590E 00	8.394E 00	9.288E 00	1.029E 01	42.923
2050	627	1 Q 53	7.805E-05	5.487E-05	3.524E-05	2.005E-05	9.666E-06	3.677E-06	1082.688
2051	17 R 18	667.539	5.022E-04	2.299E-04	8.822E-05	2.675E-05	5.873E-06	8.129E-07	2066.408
2052	1 Q 12	667.542	6.776E 00	7.436E 00	8.149E 00	8.910E 00	9.719E 00	1.057E 01	60.871
2053	628	1 R 6	5.234E-03	5.862E-03	6.582E-03	7.411E-03	8.386E-03	9.555E-03	15.463
2054	627	1 Q 14	7.105E 00	7.726E 00	8.375E 00	9.034E 00	9.809E 00	1.031E 01	81.940
2055	627	1 Q 54	6.538E-05	4.518E-05	2.834E-05	1.574E-05	7.543E-06	2.679E-06	1123.505
2056	628	1 Q 74	5.921E-06	2.743E-06	1.068E-06	3.256E-07	7.393E-08	1.052E-08	2039.891
2057	1 U 16	667.639	7.200E 00	7.747E 00	8.292E 00	8.807E 00	9.285E 00	9.615E 00	106.130
2058	1 Q 18	667.734	7.083E 00	7.531E 00	7.946E 00	8.344E 00	8.736E 00	9.133E 00	133.460
2059	627	1 Q 55	5.456E-05	3.700E-05	2.276E-05	1.229E-05	5.543E-06	1.938E-06	1165.072
2060	4 Q 2	667.753	4.623E-02	3.891E-02	3.101E-02	2.297E-02	1.540E-02	8.954E-03	664.724
2061	627	1 R 3	6.423E-04	7.226E-04	8.158E-04	9.249E-04	1.055E-03	1.216E-03	4.544
2062	4 Q 4	667.759	1.094E-01	9.187E-02	7.301E-02	5.389E-02	3.597E-02	2.080E-02	675.208
2063	4 Q 3	667.763	8.000E-02	6.726E-02	5.454E-02	3.940E-02	2.650E-02	1.537E-02	672.086
2064	4 U 6	667.768	1.605E-01	1.342E-01	1.062E-01	7.797E-02	5.169E-02	2.962E-02	683.813
2065	4 Q 5	667.781	1.361E-01	1.141E-01	5.049E-02	6.663E-02	4.434E-02	2.553E-02	674.100
2066	4 Q 8	667.781	2.025E-01	1.685E-01	1.325E-01	9.655E-02	6.341E-02	3.591E-02	645.550
2067	1 U 75	667.788	4.610E-06	2.085E-06	7.867E-07	2.350E-07	5.044E-08	6.781E-09	2044.428
2068	4 Q 10	667.797	2.353E-01	1.945E-01	1.518E-01	1.095E-01	7.108E-02	3.564E-02	710.417
2069	4 Q 7	667.808	1.827E-01	1.524E-01	1.203E-01	8.797E-02	5.807E-02	3.205E-02	684.236
2070	1 Q 20	667.815	6.764E 00	7.118E 00	7.391E 00	7.566E 00	7.606E 00	7.633E 00	163.869

LINE	BAND	CUQE	WAVENUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
2071		4 Q 12	667.816	2.583E-01	2.119E-01	1.638E-01	1.169E-01	7.475E-02	4.042E-02	725.413
2072		4 Q 14	667.838	2.717E-01	2.209E-01	1.688E-01	1.188E-01	7.476E-02	4.043E-02	749.538
2073		4 Q 9	667.843	1.822E-01	1.431E-01	1.038E-01	7.038E-02	4.044E-02	3.811E-02	702.537
2074	627	1 Q 26	667.847	4.535E-05	3.019E-05	1.817E-05	9.544E-06	4.164E-06	1.394E-06	1207.399
2075		4 Q 16	667.864	2.759E-01	2.219E-01	1.674E-01	1.140E-01	7.159E-02	3.741E-02	773.792
2076		4 Q 11	667.886	2.482E-01	2.044E-01	1.588E-01	1.140E-01	7.346E-02	4.061E-02	718.543
2077		4 Q 18	667.893	2.717E-01	2.159E-01	1.606E-01	1.094E-01	6.602E-02	3.354E-02	801.174
2078		1 Q 22	667.903	6.340E 00	6.556E 00	6.689E 00	6.702E 00	6.554E 00	6.192E 00	197.417
2079		4 Q 20	667.926	2.604E-01	2.042E-01	1.495E-01	9.984E-02	5.881E-02	2.895E-02	831.685
2080		4 Q 13	667.937	2.664E-01	2.176E-01	1.673E-01	1.186E-01	7.525E-02	4.077E-02	738.472
2081	628	1 Q 74	667.940	3.576E-06	1.578E-06	5.799E-07	1.667E-07	3.422E-08	4.345E-09	2150.694
2082	627	1 Q 57	667.960	3.754E-05	2.453E-05	1.443E-05	7.376E-06	3.109E-06	9.955E-07	1250.476
2083		4 Q 22	667.961	2.434E-01	1.881E-01	1.333E-01	8.845E-02	5.072E-02	2.412E-02	865.320
2084		4 Q 15	667.997	2.752E-01	2.225E-01	1.691E-01	1.181E-01	7.361E-02	3.897E-02	761.126
2085		4 Q 24	668.000	2.223E-01	1.691E-01	1.193E-01	7.519E-02	4.242E-02	1.943E-02	902.084
2086		1 Q 24	668.000	5.791E 00	5.893E 00	5.899E 00	5.773E 00	5.483E 00	4.989E 00	234.084
2087	636	2 R 63	668.017	3.268E-06	1.400E-06	4.964E-07	1.365E-07	2.651E-08	3.133E-09	2221.274
2088		4 Q 26	668.042	1.987E-01	1.485E-01	1.027E-01	6.389E-02	3.446E-02	1.515E-02	941.974
2089		4 Q 17	668.064	2.751E-01	2.200E-01	1.649E-01	1.133E-01	6.918E-02	3.566E-02	786.903
2090	627	1 Q 58	668.074	3.096E-05	1.985E-05	1.141E-05	5.671E-06	2.308E-06	7.065E-07	1294.304
2091		4 Q 28	668.087	1.740E-01	1.276E-01	8.623E-02	5.221E-02	2.721E-02	1.144E-02	984.990
2092	628	1 Q 77	668.093	2.763E-06	1.190E-06	4.265E-07	1.177E-07	2.310E-08	2.767E-09	2207.189
2093		1 Q 26	668.106	5.177E 00	5.177E 00	5.076E 00	4.843E 00	4.455E 00	3.801E 00	273.869
2094		9 Q 3	668.116	1.709E-03	9.592E-04	5.929E-04	1.816E-04	1.816E-04	5.305E-05	1339.851
2095		9 Q 4	668.121	4.823E-03	3.026E-03	1.696E-03	8.167E-04	3.197E-04	9.306E-05	1342.964
2096		9 Q 5	668.124	6.611E-03	4.141E-03	2.316E-03	1.113E-03	4.341E-04	1.254E-04	1346.881
2097	636	4 R 23	668.136	1.565E-03	1.212E-03	8.735E-04	5.723E-04	3.289E-04	1.568E-04	864.052
2098		4 Q 30	668.136	1.493E-01	1.073E-01	7.079E-02	4.161E-02	2.090E-02	8.382E-03	1031.130
2099		9 Q 6	668.137	8.145E-03	5.117E-03	2.894E-03	1.367E-03	5.314E-04	1.531E-04	1351.581
2100		4 Q 19	668.140	2.672E-01	2.110E-01	1.558E-01	1.051E-01	6.270E-02	3.136E-02	815.804
2101		9 Q 7	668.148	9.583E-03	5.976E-03	3.324E-03	1.587E-03	6.141E-04	1.762E-04	1357.064
2102		9 Q 8	668.158	1.082E-02	6.729E-03	3.731E-03	1.774E-03	6.830E-04	1.947E-04	1362.331
2103		1 K 0	668.162	7.266E-01	8.188E-01	9.264E-01	1.053E 00	1.206E 00	1.396E 00	0.0
2104		9 Q 9	668.172	1.190E-02	7.381E-03	4.077E-03	1.929E-03	7.388E-04	2.091E-04	1370.380
2105		9 Q 10	668.185	1.284E-02	7.932E-03	4.363E-03	2.055E-03	7.819E-04	2.195E-04	1374.213
2106		4 Q 32	668.187	1.256E-01	8.839E-02	5.683E-02	3.237E-02	1.563E-02	5.954E-03	1080.394
2107	627	1 Q 59	668.191	2.543E-05	1.599E-05	8.982E-06	4.338E-06	1.704E-06	4.982E-07	1338.885
2108		9 Q 11	668.203	1.363E-02	8.385E-03	4.592E-03	2.150E-03	8.126E-04	2.261E-04	1386.828
2109		9 Q 12	668.218	1.426E-02	8.740E-03	4.763E-03	2.217E-03	8.316E-04	2.242E-04	1396.229
2110		1 Q 28	668.214	4.533E 00	4.449E 00	4.265E 00	3.959E 00	3.520E 00	2.941E 00	316.771
2111	636	1 R 24	668.222	3.557E-02	3.625E-02	3.634E-02	3.562E-02	3.387E-02	3.085E-02	254.094
2112		4 Q 21	668.224	2.549E-01	1.970E-01	1.430E-01	9.453E-02	5.496E-02	2.601E-02	847.827
2113		9 Q 13	668.239	1.475E-02	9.001E-03	4.879E-03	2.256E-03	8.395E-04	2.290E-04	1406.410
2114		4 Q 34	668.242	1.038E-01	7.136E-01	4.664E-02	2.459E-02	1.139E-02	4.113E-03	1132.761
2115	628	1 Q 78	668.249	2.128E-06	8.939E-07	3.094E-07	8.271E-08	1.550E-08	1.751E-09	2266.412

2116	9 Q 14	668.256	1.510E-02	9.171E-03	4.943E-03	2.270E-03	8.371E-04	2.257E-04	1417.376
2117	9 Q 15	668.281	1.531E-02	9.253E-03	4.956E-03	2.259E-03	8.254E-04	2.199E-04	1429.123
2118	1 R 7	668.290	5.752E-04	7.197E-03	7.197E-03	8.077E-03	9.101E-04	1.031E-02	20.617
2119	9 Q 16	668.300	1.539E-02	9.253E-03	4.924E-03	2.226E-03	8.053E-04	2.118E-04	1441.651
2120	4 Q 36	668.300	6.415E-02	5.648E-02	3.472E-02	1.825E-02	8.082E-03	2.758E-03	1168.271
2121	1 U 60	668.310	2.081E-05	1.283E-05	7.037E-06	3.302E-06	1.251E-06	3.490E-07	1384.219
2122	4 Q 23	668.316	2.338E-01	1.743E-01	1.278E-01	8.259E-02	4.670E-02	2.181E-02	882.972
2123	2 R 65	668.320	1.857E-04	7.543E-05	2.508E-05	6.381E-06	1.125E-06	1.174E-07	2340.740
2124	9 Q 17	668.328	1.536E-02	9.177E-03	4.850E-03	2.174E-03	7.781E-04	2.015E-04	1454.568
2125	5 K 26	668.334	1.022E-02	5.834E-03	2.919E-03	1.224E-03	4.030E-04	9.391E-05	1559.450
2126	1 Q 30	668.341	3.891E 00	3.744E 00	3.503E 00	3.158E 00	2.706E 00	2.157E 00	562.784
2127	9 Q 18	668.350	1.521E-02	9.031E-03	4.737E-03	2.105E-03	7.448E-04	1.905E-04	1469.067
2128	4 Q 38	668.361	6.702E-02	4.385E-02	2.584E-02	1.323E-02	5.928E-03	1.797E-03	1246.922
2129	9 Q 19	668.382	1.495E-02	8.822E-03	4.592E-03	2.021E-03	7.067E-04	1.700E-04	1483.544
2130	9 U 20	668.405	1.460E-02	8.258E-03	4.188E-03	1.925E-03	6.868E-04	1.847E-04	1499.604
2131	1 Q 79	668.407	1.632E-06	6.687E-07	2.246E-07	5.784E-08	1.035E-08	1.102E-09	2322.563
2132	4 Q 25	668.416	2.113E-01	1.594E-01	1.113E-01	7.022E-02	3.850E-02	1.729E-02	921.239
2133	4 U 40	668.424	5.244E-02	3.340E-02	1.906E-02	9.380E-03	3.774E-03	1.138E-03	1308.673
2134	627	1 Q 61	668.431	1.696E-05	5.488E-06	2.500E-06	9.127E-07	2.424E-07	1430.304
2135	9 Q 21	668.441	1.417E-02	8.247E-03	4.221E-03	1.820E-03	6.203E-04	1.511E-04	1516.051
2136	9 Q 22	668.466	1.367E-02	7.896E-03	4.005E-03	1.708E-03	5.742E-04	1.374E-04	1533.282
2137	1 Q 32	668.470	3.085E 00	2.814E 00	2.614E 00	2.459E 00	2.025E 00	1.535E 00	411.924
2138	4 Q 42	668.491	4.033E-02	2.497E-02	1.377E-02	6.503E-03	2.484E-03	7.007E-04	1373.544
2139	9 U 23	668.506	1.311E-02	7.513E-03	3.775E-03	1.591E-03	5.274E-04	1.239E-04	1551.288
2140	627	1 R 4	668.519	7.606E-04	8.546E-04	9.633E-04	1.090E-03	1.241E-03	7.573
2141	15 P 26	668.524	3.647E-03	1.991E-03	9.443E-04	3.708E-04	1.125E-04	2.359E-05	1662.041
2142	4 Q 27	668.525	1.670E-01	1.385E-01	9.468E-02	5.815E-02	3.085E-02	1.328E-02	962.627
2143	9 U 24	668.533	1.250E-02	7.106E-03	3.536E-03	1.473E-03	4.807E-04	1.108E-04	1570.084
2144	627	1 Q 62	668.554	1.377E-05	8.154E-06	4.260E-06	6.624E-07	1.680E-07	1477.141
2145	4 U 44	668.561	3.048E-02	1.832E-02	9.751E-03	4.409E-03	1.595E-03	4.198E-04	1441.533
2146	628	1 Q 80	668.568	1.248E-06	4.982E-07	1.623E-07	4.025E-08	6.8874E-09	2381.042
2147	9 Q 25	668.576	1.186E-02	6.882E-03	3.291E-03	1.354E-03	4.350E-04	9.827E-05	1589.625
2148	4 R 24	668.579	1.441E-03	1.137E-03	8.119E-04	5.254E-04	2.974E-04	1.340E-04	883.176
2149	9 Q 26	668.605	1.119E-02	6.247E-03	3.044E-03	1.236E-03	3.907E-04	8.645E-05	1610.016
2150	1 Q 34	668.608	2.708E 00	2.492E 00	2.212E 00	1.869E 00	1.476E 00	1.060E 00	464.173
2151	4 U 46	668.634	2.265E-02	1.320E-02	6.768E-03	2.924E-03	9.995E-04	2.444E-04	1512.640
2152	4 U 29	668.641	1.821E-01	1.178E-01	7.866E-02	4.696E-02	2.404E-02	9.882E-03	1007.135
2153	3 P 65	668.651	1.855E-04	7.534E-05	2.505E-05	6.373E-06	1.124E-06	1.173E-07	2346.740
2154	9 U 27	668.653	1.050E-02	5.808E-03	2.759E-03	1.121E-03	3.485E-04	7.545E-05	1631.152
2155	627	1 Q 63	668.679	1.114E-05	6.460E-06	3.242E-06	4.780E-07	1.154E-07	1524.730
2156	9 Q 28	668.683	9.797E-03	5.370E-03	2.558E-03	1.011E-03	3.087E-04	6.534E-05	1653.077
2157	17 R 19	668.696	4.904E-04	2.231E-04	8.456E-05	2.552E-05	5.539E-06	7.552E-07	2064.931
2158	4 Q 48	668.709	1.655E-02	9.339E-03	4.606E-03	1.854E-03	6.113E-04	1.365E-04	1546.862
2159	9 Q 29	668.735	9.100E-03	4.939E-03	2.325E-03	9.052E-04	2.715E-04	5.815E-05	1675.776
2160	1 U 36	668.754	2.197E 00	1.974E 00	1.702E 00	1.368E 00	1.049E 00	7.116E-01	515.536

LINE	BAND CODE	WAVE NUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	EALMUJ
2161	4 Q 31	668.766	1.378E-01	9.805E-02	6.368E-02	3.644E-02	1.823E-02	7.130E-03	1054.764
2162	9 Q 30	668.767	8.411E-03	4.251E-03	2.101E-03	8.057E-04	2.372E-04	4.788E-05	1699.265
2163	4 Q 30	668.768	1.190E-02	6.490E-03	3.074E-03	1.205E-03	3.650E-04	7.637E-05	1666.154
2164	1 Q 64	668.806	8.977E-06	5.046E-06	2.532E-06	1.053E-06	3.430E-07	7.882E-08	1573.070
2165	5 Q 31	668.822	7.736E-03	4.112E-03	1.888E-03	7.129E-04	2.059E-04	4.653E-05	1723.526
2166	9 Q 32	668.857	7.081E-03	3.743E-03	1.687E-03	6.269E-04	1.774E-04	3.404E-05	1748.561
2167	4 Q 32	668.869	8.411E-03	4.430E-03	2.012E-03	7.443E-04	2.127E-04	4.046E-05	1744.650
2168	4 Q 33	668.899	1.150E-01	8.000E-02	5.076E-02	2.843E-02	1.344E-02	5.003E-03	1105.500
2169	1 Q 38	668.909	1.751E 00	1.534E 00	1.283E 00	1.007E 00	7.267E-01	4.644E-01	576.013
2170	9 Q 33	668.916	6.452E-03	3.354E-03	1.500E-03	5.481E-04	1.519E-04	2.134E-05	1774.407
2171	627	668.935	7.205E-06	4.004E-06	1.934E-06	7.813E-07	2.447E-07	5.347E-08	1622.161
2172	9 Q 34	668.952	5.850E-03	3.006E-03	1.326E-03	4.763E-04	1.243E-04	2.350E-05	1801.623
2173	4 Q 34	668.953	5.849E-03	2.970E-03	1.291E-03	4.560E-04	1.211E-04	2.141E-05	1828.413
2174	9 Q 35	669.015	5.261E-03	2.681E-03	1.165E-03	4.113E-04	1.093E-04	1.931E-05	1826.412
2175	628	669.034	6.221E-03	6.933E-03	7.739E-03	8.653E-03	9.704E-03	1.043E-02	26.517
2176	4 Q 36	669.039	4.004E-03	1.957E-03	8.130E-04	2.716E-04	6.731E-05	1.088E-05	1416.886
2177	4 Q 35	669.040	9.413E-02	4.398E-02	3.947E-02	2.137E-02	9.689E-03	3.406E-03	1159.372
2178	9 Q 36	669.053	4.745E-03	2.380E-03	1.019E-03	3.534E-04	9.176E-05	1.576E-05	1856.591
2179	1 Q 66	669.067	5.761E-06	3.133E-06	1.478E-06	5.769E-07	1.736E-07	3.604E-08	1672.004
2180	1 U 40	669.071	1.372E 00	1.169E 00	9.468E-01	7.144E-01	4.910E-01	2.945E-01	639.602
2181	9 Q 37	669.119	4.244E-03	2.102E-03	8.688E-04	3.019E-04	7.657E-05	1.276E-05	1885.542
2182	4 Q 38	669.128	2.695E-04	1.267E-04	5.022E-04	3.584E-04	3.654E-05	5.368E-06	2004.669
2183	17 R 20	669.133	4.741E-04	2.141E-04	8.087E-05	2.405E-05	5.152E-06	6.910E-07	2096.450
2184	9 Q 38	669.159	3.779E-03	1.848E-03	7.674E-04	2.563E-04	6.349E-05	1.026E-05	1415.283
2185	4 Q 37	669.189	7.569E-02	5.018E-02	3.005E-02	1.569E-02	6.795E-03	2.253E-03	4216.355
2186	1 Q 67	669.200	4.584E-06	2.441E-06	1.122E-06	4.238E-07	1.225E-07	2.414E-08	1722.598
2187	3 P 63	669.218	3.263E-06	1.398E-06	4.955E-07	1.363E-07	4.647E-08	3.127E-09	2221.274
2188	4 Q 60	669.220	1.789E-03	8.061E-04	3.044E-04	9.047E-05	1.937E-05	2.597E-06	2097.560
2189	9 Q 39	669.230	3.351E-03	1.616E-03	6.607E-04	2.166E-04	5.421E-05	8.196E-06	1945.756
2190	1 U 42	669.242	1.056E 00	8.750E-01	6.868E-01	4.962E-01	3.236E-01	1.816E-01	704.303
2191	9 Q 40	669.272	2.957E-03	1.407E-03	5.659E-04	1.817E-04	4.284E-05	6.499E-06	1977.098
2192	1 R 5	669.281	8.726E-04	9.787E-04	1.011E-03	1.243E-03	1.410E-03	1.613E-03	41.359
2193	4 Q 62	669.315	1.164E-03	5.041E-04	1.810E-04	5.060E-05	1.003E-05	1.214E-06	2193.557
2194	4 R 1	669.319	8.407E-02	7.079E-02	5.646E-02	4.186E-02	2.810E-02	1.637E-02	668.162
2195	1 U 68	669.335	3.641E-06	1.894E-06	8.472E-07	3.098E-07	8.593E-08	1.607E-08	1773.442
2196	9 U 41	669.346	2.599E-03	1.220E-03	4.823E-04	1.517E-04	3.486E-05	5.117E-06	2005.173
2197	4 Q 39	669.346	5.976E-02	3.862E-02	2.440E-02	1.126E-02	4.647E-03	1.440E-03	1276.450
2198	4 Q 42	669.390	2.274E-03	1.052E-03	4.089E-04	1.259E-04	2.819E-05	4.000E-06	2042.036
2199	4 Q 64	669.417	7.470E-04	3.098E-04	1.056E-04	2.771E-05	5.077E-06	5.269E-07	2292.658
2200	1 U 44	669.420	7.987E-01	6.428E-01	4.855E-01	3.368E-01	2.081E-01	1.064E-01	772.113
2201	9 U 43	669.467	1.981E-03	9.033E-04	3.450E-04	1.044E-04	2.266E-05	3.106E-06	2075.672
2202	1 U 69	669.474	2.878E-06	1.463E-06	6.370E-07	2.453E-07	5.995E-08	1.062E-08	1826.037
2203	4 U 66	669.511	4.718E-04	1.872E-04	6.048E-05	1.466E-05	2.510E-06	2.470E-07	2394.663
2204	4 Q 41	669.512	4.640E-02	2.916E-02	1.637E-02	7.898E-03	3.100E-03	9.053E-04	1339.661
2205	9 U 44	669.514	1.719E-03	7.719E-04	2.895E-04	8.537E-05	1.810E-05	2.395E-06	2110.054

LINE	BAND CODE	WAVENUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
2206	636	2 R 05	2.088E-06	8.563E-07	2.679E-07	7.426E-08	1.331E-08	1.418E-09	2321.772
2207		9 Q 45	1.485E-03	6.567E-04	2.418E-04	6.972E-05	1.437E-05	1.834E-06	2145.242
2208		1 Q 46	5.941E-01	4.635E-01	3.374E-01	2.237E-01	1.306E-01	6.353E-02	843.033
2209		4 Q 68	2.934E-04	1.111E-04	3.399E-05	7.810E-06	1.212E-06	1.074E-07	2500.164
2210		2.267E-06	1.126E-06	4.768E-07	1.650E-07	1.650E-07	4.159E-08	6.980E-09	1876.862
2211		9 Q 46	1.277E-03	5.561E-04	2.009E-04	5.662E-05	1.134E-05	1.394E-06	2181.273
2212		4 Q 43	3.540E-02	2.161E-02	1.172E-02	5.419E-03	2.017E-03	5.503E-04	1405.987
2213		4 Q 70	1.796E-04	6.488E-05	1.875E-05	4.020E-06	5.721E-07	4.535E-08	2606.575
2214		9 Q 47	1.094E-03	4.888E-04	1.662E-04	4.573E-05	8.893E-06	1.053E-06	2218.032
2215		1 R 2	1.441E-00	1.622E-00	1.833E-00	2.080E-00	2.377E-00	2.744E-00	2.341
2216	627	1 Q 71	1.778E-06	8.630E-07	3.553E-07	1.174E-07	2.869E-08	4.557E-09	1932.477
2217		2 R 67	1.168E-04	4.533E-05	1.427E-05	3.399E-06	5.516E-07	5.177E-08	2446.333
2218	628	1 R 9	6.637E-03	7.376E-03	8.205E-03	9.134E-03	1.019E-02	1.140E-02	338.134
2219		9 Q 48	9.333E-04	3.934E-04	1.467E-04	3.674E-05	6.933E-06	7.900E-07	2255.571
2220	636	4 R 25	1.402E-03	1.066E-03	7.545E-04	4.823E-04	2.868E-04	1.232E-04	902.315
2221		1 Q 48	4.346E-02	3.284E-02	2.299E-02	1.454E-02	7.998E-03	3.607E-03	917.061
2222		1 R 26	3.176E-02	3.179E-02	3.121E-02	2.982E-02	2.746E-02	2.401E-02	273.440
2223		4 Q 72	1.082E-04	3.724E-05	1.015E-05	2.027E-06	2.638E-07	1.865E-08	2720.078
2224		9 Q 49	7.928E-04	3.286E-04	1.120E-04	2.935E-05	5.372E-06	5.885E-07	2293.890
2225		4 Q 45	2.655E-02	1.572E-02	8.721E-03	3.637E-03	1.281E-03	3.253E-04	1475.426
2226	627	1 Q 72	1.390E-06	6.587E-07	2.636E-07	8.412E-08	1.968E-08	2.957E-09	1886.822
2227		9 Q 50	6.707E-04	2.733E-04	9.122E-05	2.333E-05	4.138E-06	4.354E-07	2332.527
2228		5 R 28	8.935E-03	5.007E-03	2.449E-03	9.922E-04	3.179E-04	7.087E-05	1602.377
2229		4 Q 74	6.418E-03	2.101E-05	5.395E-06	1.001E-06	1.189E-07	7.472E-09	2834.678
2230		1 Q 50	3.127E-05	2.284E-05	1.536E-05	9.247E-06	4.783E-06	1.592E-06	994.195
2231		9 Q 51	670.009	4.263E-04	7.397E-05	1.844E-05	3.168E-06	3.200E-07	2372.866
2232		4 Q 76	670.041	1.166E-05	2.815E-06	4.843E-07	5.237E-08	2.916E-09	2952.371
2233	627	1 Q 73	670.044	5.007E-07	1.947E-07	5.997E-08	1.343E-08	1.908E-09	2041.917
2234	627	1 R 6	670.044	1.094E-03	1.227E-03	1.381E-03	1.562E-03	1.778E-03	15.503
2235		4 Q 47	670.056	1.123E-02	5.655E-03	2.389E-03	7.936E-04	1.871E-04	1547.476
2236		15 P 24	670.063	2.262E-03	1.095E-03	4.411E-04	1.381E-04	3.617E-05	1622.257
2237		9 Q 52	670.066	1.865E-04	5.968E-05	1.450E-05	2.411E-06	2.346E-07	2413.519
2238		4 R 2	670.103	7.612E-02	6.225E-02	4.611E-02	3.091E-02	1.797E-02	669.728
2239		4 Q 78	670.154	6.301E-06	1.642E-06	2.296E-07	2.254E-08	1.109E-09	3073.157
2240		9 Q 53	670.158	1.550E-04	4.793E-05	1.134E-05	1.824E-06	1.693E-07	2456.958
2241	636	4 R 26	670.180	9.913E-04	6.930E-04	4.371E-04	2.396E-04	1.075E-04	923.065
2242		1 Q 52	670.215	1.561E-01	1.007E-01	5.757E-02	2.792E-02	1.071E-02	1076.435
2243		9 Q 54	670.219	1.250E-04	3.830E-05	8.817E-06	1.372E-06	1.219E-07	497.165
2244		4 Q 49	700.253	7.884E-03	3.814E-03	1.535E-03	4.801E-04	1.047E-04	1622.637
2245		4 Q 80	670.268	3.413E-06	7.248E-07	1.067E-07	9.483E-09	4.106E-10	3197.032
2246		3 P 63	670.272	1.239E-04	4.342E-05	1.178E-05	2.251E-06	2.605E-07	2240.245
2247		9 Q 55	670.312	1.017E-04	3.046E-05	6.822E-06	1.025E-06	8.722E-08	2540.164
2248		17 R 21	670.368	2.055E-04	7.695E-05	2.265E-05	6.740E-06	6.220E-07	2112.561
2249		9 Q 56	670.377	8.230E-05	2.611E-05	5.251E-06	7.621E-07	6.197E-08	2583.525
2250		4 Q 82	670.385	1.800E-06	3.578E-07	4.854E-08	3.900E-09	1.482E-10	3323.946

LINE	BAND CODE	WAVELENGTH	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
2251	1 Q 54	670.434	1.541E-01	1.048E-01	6.471E-02	3.508E-02	1.592E-02	5.606E-03	1157.779
2252	4 Q 51	670.459	1.013E-02	5.434E-03	2.523E-03	9.654E-04	2.835E-04	5.704E-05	1762.407
2253	9 Q 4	670.466	7.891E-03	4.963E-03	2.789E-03	1.348E-03	5.298E-04	1.551E-04	1337.481
2254	9 Q 57	670.472	1.854E-04	6.640E-05	1.849E-05	4.020E-06	5.630E-07	4.373E-08	2628.403
2255	4 L 84	670.503	3.737E-06	9.340E-07	1.734E-07	2.165E-08	1.568E-09	5.214E-11	3454.045
2256	628	1 R 10	670.524	7.752E-03	8.590E-03	9.518E-03	1.055E-02	1.172E-02	40.447
2257	9 Q 58	670.541	1.518E-04	5.331E-05	1.489E-05	3.061E-06	4.135E-07	3.066E-08	2673.798
2258	4 U 88	670.623	4.020E-06	4.765E-07	8.252E-08	9.462E-09	6.154E-10	1.786E-11	3587.179
2259	9 Q 59	670.638	1.238E-04	4.261E-05	1.161E-05	2.319E-06	3.019E-07	2.135E-08	2714.414
2260	1 Q 56	670.661	1.056E-01	6.916E-02	4.081E-02	2.093E-02	8.866E-03	2.850E-03	1244.225
2261	9 Q 53	670.672	7.109E-03	3.680E-03	1.637E-03	5.944E-04	1.635E-04	3.623E-05	1784.285
2262	9 Q 60	670.711	4.005E-04	1.391E-05	9.020E-06	1.748E-06	4.192E-07	1.477E-08	2766.780
2263	17 R 22	670.730	1.594E-04	4.379E-04	7.232E-05	2.103E-05	4.384E-06	5.686E-07	2130.622
2264	4 Q 88	670.745	1.076E-06	2.391E-07	3.856E-08	4.052E-09	2.366E-10	5.964E-12	3723.393
2265	27 R 1	670.808	1.073E-03	1.198E-03	1.341E-03	1.504E-03	1.693E-03	1.918E-03	21.204
2266	9 U 61	670.809	8.133E-05	2.686E-05	6.970E-06	1.310E-06	1.581E-07	1.015E-08	2816.455
2267	9 Q 62	670.887	6.554E-05	2.120E-05	5.362E-06	9.769E-07	1.135E-07	6.926E-09	2862.871
2268	4 G 55	670.894	4.908E-03	2.448E-03	1.042E-03	3.582E-04	9.204E-05	1.560E-05	1869.274
2269	4 R 3	670.896	1.034E-01	8.693E-02	6.418E-02	5.117E-02	3.424E-02	1.986E-02	672.068
2270	1 Q 58	670.896	7.119E-02	4.484E-02	2.525E-02	1.223E-02	4.822E-03	1.417E-03	1333.774
2271	3 P 61	670.964	5.057E-06	2.261E-06	8.432E-07	2.468E-07	5.180E-08	6.766E-09	2123.877
2272	9 Q 63	670.985	5.259E-05	1.665E-05	4.104E-06	7.246E-07	8.091E-08	4.695E-09	2912.105
2273	4 Q 64	671.068	4.203E-05	1.302E-05	3.128E-06	5.348E-07	5.738E-08	3.163E-09	2962.070
2274	3 G 57	671.123	3.334E-03	1.600E-03	6.502E-04	2.144E-04	5.063E-05	7.337E-06	1957.380
2275	1 Q 60	671.138	4.725E-02	2.857E-02	1.534E-02	6.996E-03	2.562E-03	6.843E-04	1426.422
2276	636	2 R 67	671.140	5.146E-07	1.639E-07	3.956E-08	6.526E-09	6.252E-10	2425.367
2277	9 Q 65	671.166	3.347E-05	1.014E-05	2.372E-06	3.926E-07	4.044E-08	2.116E-09	3012.861
2278	2 H 69	671.218	7.227E-05	2.678E-05	7.974E-06	1.773E-06	2.643E-07	2.223E-08	2551.021
2279	9 R 3	671.255	8.203E-03	5.154E-03	2.892E-03	1.348E-03	5.476E-04	1.599E-04	1339.831
2280	9 Q 66	671.256	2.653E-05	7.865E-06	1.790E-06	2.868E-07	2.835E-08	1.407E-09	3084.374
2281	628	1 R 11	671.270	7.302E-07	8.059E-03	9.802E-03	1.080E-02	1.184E-02	48.598
2282	1 R 4	671.295	2.111E 00	2.370E 00	2.671E 00	3.028E 00	3.437E 00	3.945E 00	7.804
2283	9 J 67	671.353	2.697E-05	6.072E-06	1.345E-06	2.083E-07	1.975E-08	4.288E-10	3116.723
2284	4 U 59	671.361	2.229E-03	1.028E-03	3.982E-04	1.421E-04	2.720E-05	3.833E-06	2048.553
2285	1 U 62	671.389	3.084E-02	1.769E-02	9.128E-03	3.920E-03	1.329E-03	3.214E-04	1522.188
2286	636	1 R 28	671.419	2.728E-02	2.619E-02	2.434E-02	2.167E-02	1.812E-02	316.784
2287	9 Q 68	671.449	1.650E-05	4.669E-06	1.096E-06	1.506E-07	1.369E-08	6.094E-10	3164.782
2288	4 R 27	671.470	1.244E-03	9.214E-04	6.371E-04	3.966E-04	2.138E-04	9.392E-05	943.700
2289	5 R 30	671.516	7.663E-03	4.208E-03	2.010E-03	7.960E-04	2.440E-04	5.190E-05	1648.422
2290	9 Q 69	671.545	1.293E-05	3.574E-06	7.885E-07	1.083E-07	9.424E-09	3.570E-10	3223.688
2291	1 R 8	671.573	1.159E-03	1.291E-03	1.441E-03	1.609E-03	1.803E-03	2.029E-03	27.262
2292	15 P 22	671.604	4.444E-03	2.508E-03	1.238E-03	5.104E-04	1.645E-04	3.732E-05	1585.551
2293	4 Q 61	671.606	1.466E-05	6.491E-04	2.393E-04	6.910E-05	1.427E-05	1.870E-06	2142.849
2294	1 Q 64	671.647	1.982E-02	1.101E-02	5.336E-03	2.151E-03	6.741E-04	1.474E-04	1621.011
2295	9 Q 70	671.648	1.010E-05	2.725E-06	5.564E-07	7.747E-08	6.425E-09	2.571E-10	3278.451

LINE	BAND CODE	WAVENUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
2296			1.142E-01	9.589E-02	7.620E-02	5.624E-02	3.753E-02	2.170E-02	675.206
2297		671.675	7.851E-06	2.088E-06	6.088E-07	5.512E-08	4.394E-09	1.653E-10	333.755
2298	636	671.742	1.143E-03	8.463E-04	5.784E-04	3.549E-04	1.880E-04	8.068E-05	966.080
2299		671.784	6.083E-06	1.563E-06	3.002E-07	1.904E-08	2.975E-09	1.057E-10	3389.901
2300		671.860	9.495E-04	4.028E-04	1.111E-04	3.829E-05	7.315E-06	8.467E-07	2240.245
2301		671.895	4.527E-04	2.004E-04	7.388E-05	2.133E-05	4.405E-06	5.635E-07	2142.849
2302		671.914	1.254E-02	6.665E-03	3.061E-03	1.156E-03	3.339E-04	6.577E-05	1722.950
2303		671.945	4.642E-06	1.176E-06	2.192E-07	7.749E-08	2.002E-09	6.704E-11	3446.924
2304	628	672.016	7.547E-03	8.297E-03	9.112E-03	9.488E-03	1.093E-02	1.192E-02	57.431
2305		672.045	8.631E-03	5.415E-03	3.034E-03	1.461E-03	5.718E-04	1.604E-04	1342.964
2306		672.051	4.190E-04	1.850E-04	6.803E-05	1.958E-05	4.026E-06	5.123E-07	2148.113
2307		672.063	3.607E-06	8.819E-07	1.595E-07	1.927E-08	1.340E-09	4.230E-11	3504.664
2308		672.121	6.051E-04	2.457E-04	8.168E-05	2.078E-05	3.663E-06	3.624E-07	2540.740
2309		672.152	2.761E-06	6.579E-07	1.154E-07	1.343E-08	8.912E-10	2.649E-11	3563.180
2310		672.188	7.807E-03	3.965E-03	1.723E-03	6.086E-04	1.616E-04	2.858E-05	1827.981
2311		672.280	2.106E-06	4.891E-07	9.315E-08	9.321E-09	5.899E-10	1.650E-11	3622.412
2312		672.329	3.962E-04	1.735E-04	6.315E-05	1.795E-05	3.634E-06	4.533E-07	2167.425
2313	627	672.339	1.236E-03	1.372E-03	1.526E-03	1.697E-03	1.891E-03	2.114E-03	34.077
2314		672.365	1.599E-06	3.618E-07	5.960E-08	6.429E-09	3.878E-10	1.019E-11	3682.547
2315		672.390	3.796E-04	1.473E-04	4.640E-05	1.109E-05	1.793E-06	1.684E-07	2444.333
2316		672.470	4.786E-03	2.319E-03	9.525E-04	3.139E-04	7.446E-05	1.210E-05	1936.105
2317		672.482	1.244E-01	1.044E-01	8.289E-02	6.103E-02	4.060E-02	2.388E-02	679.100
2318		672.502	1.211E-06	2.667E-07	4.257E-08	4.417E-09	2.538E-10	6.267E-12	3743.310
2319		672.657	4.403E-05	1.555E-05	4.372E-06	9.064E-07	1.237E-07	9.295E-09	2660.805
2320		672.667	2.344E-04	8.686E-05	2.566E-05	5.752E-06	8.571E-07	7.409E-08	2551.021
2321	636	672.705	7.716E-06	3.594E-06	1.408E-06	4.377E-07	9.906E-08	1.425E-08	4029.581
2322		672.760	2.809E-03	1.333E-03	5.167E-04	1.584E-04	3.534E-05	4.988E-06	2047.319
2323		672.766	7.733E-03	8.466E-03	9.451E-03	1.094E-02	1.094E-02	1.182E-02	67.002
2324		672.837	4.068E-03	5.692E-03	3.182E-03	1.529E-03	5.463E-04	1.729E-04	1346.881
2325		672.867	2.708E-00	3.030E-00	3.398E-00	3.821E-00	4.318E-00	4.514E-00	16.389
2326		672.952	1.425E-04	5.034E-05	1.415E-05	2.934E-06	4.005E-07	3.009E-08	2660.803
2327	636	673.022	2.381E-02	2.294E-02	2.149E-02	1.940E-02	1.664E-02	1.327E-02	562.805
2328		673.037	1.717E-03	7.537E-04	2.751E-04	7.849E-05	1.597E-05	2.004E-06	2161.621
2329		673.105	1.502E-03	1.441E-03	1.545E-03	1.766E-03	1.956E-03	2.169E-03	41.649
2330		673.110	6.449E-03	3.466E-03	1.613E-03	6.192E-04	1.825E-04	3.690E-05	1647.584
2331		673.147	4.735E-03	2.711E-03	1.362E-03	5.736E-04	1.899E-04	4.460E-05	1552.044
2332	636	673.148	1.062E-03	7.790E-04	5.262E-04	3.184E-04	1.657E-04	6.550E-05	988.204
2333		673.244	8.531E-05	2.868E-05	7.602E-06	1.466E-06	1.829E-07	1.223E-08	2773.677
2334		673.251	1.346E-01	1.125E-01	8.902E-02	6.533E-02	4.531E-02	2.484E-02	683.813
2335		673.362	1.004E-03	4.190E-04	1.438E-04	3.807E-05	7.650E-06	7.841E-07	2279.009
2336	636	673.391	9.755E-04	7.080E-04	4.723E-04	2.814E-04	1.436E-04	5.879E-05	1012.219
2337	628	673.215	7.860E-03	8.567E-03	9.311E-03	1.008E-02	1.085E-02	1.160E-02	77.310
2338		673.518	6.904E-04	3.784E-04	3.782E-04	3.782E-05	8.421E-06	1.167E-06	2048.553
2339		673.545	5.028E-05	1.607E-05	4.008E-06	7.178E-07	8.160E-08	4.845E-09	2889.244
2340		673.550	9.533E-03	5.958E-03	3.323E-03	1.591E-03	6.184E-04	1.784E-04	1351.581

LINE	BAND CODE	WAVENUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
2341	1 Q 78	673.675	5.767E-04	4.290E-04	7.382E-05	1.809E-05	3.042E-06	2.990E-07	2399.481
2342	17 R 25	673.744	3.755E-04	1.631E-04	5.876E-05	1.650E-05	4.290E-06	4.025E-07	2186.388
2343	4 Q 77	673.853	2.917E-05	8.853E-06	2.075E-06	3.443E-07	3.559E-08	1.870E-09	3006.654
2344	627	1 R 11	673.872	1.496E-03	1.496E-03	1.618E-03	1.998E-03	2.196E-03	49.979
2345	17 R 26	673.931	3.512E-04	1.512E-04	5.388E-05	1.493E-05	2.928E-06	3.505E-07	2207.554
2346	1 Q 80	673.996	3.283E-04	1.231E-04	3.720E-05	8.422E-06	1.283E-06	1.111E-07	2523.036
2347	4 R 7	674.075	1.436E-01	1.198E-01	9.448E-02	6.911E-02	4.560E-02	2.599E-02	689.256
2348	2 R 73	674.087	-2.641E-C5	8.879E-06	2.353E-06	4.538E-07	5.660E-08	3.786E-09	2773.677
2349	4 Q 79	674.169	1.667E-05	4.796E-06	1.054E-06	1.618E-07	1.511E-08	7.030E-10	3130.833
2350	628	1 R 15	674.264	7.931E-03	9.295E-03	9.987E-03	1.066E-02	1.127E-02	88.353
2351	1 Q 82	674.324	1.834E-C4	6.508E-05	1.840E-05	3.842E-06	5.291E-07	4.021E-08	2649.672
2352	9 R 7	674.425	9.943E-03	6.199E-03	3.848E-03	1.645E-03	6.368E-04	1.826E-04	1357.064
2353	636	3 P 57	674.442	1.156E-05	2.307E-06	7.601E-07	1.850E-07	2.924E-08	1938.387
2354	1 R 8	674.442	3.209E C0	3.571E U0	3.981E U0	4.443E U0	4.974E U0	5.592E U0	28.055
2355	4 Q 81	674.493	9.378E-06	2.555E-06	5.260E-07	7.453E-08	6.321E-09	2.576E-10	3258.055
2356	636	1 R 32	674.628	2.004E-02	1.889E-02	1.509E-02	1.244E-02	9.440E-03	411.542
2357	627	1 R 12	674.640	1.401E-03	1.088E-03	1.847E-03	2.018E-03	2.198E-03	59.065
2358	2358	1 Q 84	674.660	3.383E-05	8.940E-06	1.718E-06	2.133E-07	1.418E-08	2779.385
2359	15 P 16	674.691	4.914E-03	2.852E-03	1.555E-03	6.250E-04	2.120E-04	5.136E-05	1521.616
2360	5 R 34	674.706	5.328E-03	2.799E-03	1.267E-03	4.703E-04	1.330E-04	2.548E-05	1743.861
2361	4 Q 83	674.824	5.196E-06	1.338E-06	2.577E-07	3.363E-08	2.574E-09	9.194E-11	3384.360
2362	4 R 8	674.830	1.516E-01	1.261E-01	9.912E-02	7.220E-02	4.741E-02	2.684E-02	695.550
2363	636	4 R 31	674.833	6.896E-04	4.254E-04	2.496E-04	1.250E-04	4.995E-05	1035.827
2364	636	4 K 32	675.000	5.808E-04	3.775E-04	2.199E-04	1.061E-04	4.161E-05	1061.482
2365	1 Q 86	675.003	5.466E-05	1.730E-05	4.264E-06	7.527E-07	8.403E-08	4.875E-09	2912.175
2366	628	1 R 16	675.015	8.574E-03	9.208E-03	9.819E-03	1.038E-02	1.084E-02	100.132
2367	3 P 57	675.142	1.036E-03	4.974E-04	2.020E-04	6.567E-05	1.573E-05	2.434E-06	1957.360
2368	4 Q 85	675.163	2.835E-06	6.896E-07	1.239E-07	1.487E-08	1.025E-09	3.196E-11	3515.745
2369	9 R 8	675.221	1.031E-02	6.408E-03	3.552E-03	1.688E-03	6.499E-04	1.852E-04	1363.331
2370	1 Q 88	675.354	2.917E-05	8.699E-06	1.997E-06	3.232E-07	3.237E-08	1.633E-09	3048.039
2371	1 K 13	675.409	1.434E-03	1.568E-03	1.711E-03	1.861E-03	2.017E-03	2.174E-03	68.909
2372	17 R 27	675.447	3.298E-04	1.407E-04	4.962E-05	1.357E-05	2.617E-06	3.066E-07	2221.784
2373	4 Q 87	675.510	1.523E-06	3.494E-07	5.854E-08	6.446E-09	3.984E-10	1.084E-11	3650.208
2374	2 R 75	675.510	1.560E-05	4.984E-06	1.243E-06	2.226E-07	2.530E-08	1.503E-09	2889.642
2375	17 R 28	675.536	3.055E-C4	1.290E-04	4.496E-05	1.212E-05	2.296E-06	2.630E-07	2250.413
2376	4 R 9	675.676	1.865E-01	1.315E-01	1.030E-01	7.467E-02	4.875E-02	2.740E-02	702.637
2377	1 Q 90	675.713	1.533E-05	4.303E-06	9.185E-07	1.360E-07	1.219E-08	5.332E-10	3186.574
2378	628	1 R 17	675.766	7.909E-03	6.487E-03	9.055E-03	1.003E-03	1.033E-02	112.648
2379	9 R 9	676.019	1.061E-02	6.577E-03	3.632E-03	1.718E-03	6.579E-04	1.862E-04	1370.380
2380	1 R 10	676.320	3.598E U0	3.976E U0	4.397E U0	4.862E U0	5.378E U0	5.954E U0	42.423
2381	1 Q 92	676.079	7.934E-06	2.093E-06	4.149E-07	5.610E-08	4.488E-09	1.697E-10	3328.979
2382	636	3 P 55	676.175	8.618E-06	3.708E-06	1.292E-06	3.376E-07	5.840E-08	1850.249
2383	627	1 R 14	676.178	1.584E-C3	1.719E-03	1.857E-03	1.995E-03	2.128E-03	79.509
2384	636	1 R 34	676.236	1.556E-02	1.526E-02	1.147E-02	9.070E-03	6.520E-03	464.154
2385	15 P 14	676.237	4.958E-C3	2.910E-03	1.506E-03	6.583E-04	2.283E-04	5.686E-05	1494.300

LINE	BAND	CODE	WAVE NUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
2386		5 R 36	676.305	4.324E-03	2.217E-03	9.752E-04	3.494E-04	9.448E-05	1.710E-05	1805.253
2387		4 R 10	676.412	1.642E-01	1.357E-01	1.058E-01	7.637E-02	4.955E-02	2.763E-02	710.417
2388		1 Q 94	676.452	4.044E-06	1.002E-06	1.840E-07	2.268E-08	1.616E-09	5.262E-11	3474.051
2389	628	1 R 18	676.518	7.822E-03	8.346E-03	8.842E-03	9.274E-03	9.604E-03	9.767E-03	125.849
2390	636	4 R 33	676.526	7.469E-04	5.247E-04	3.366E-04	1.912E-04	9.197E-05	3.437E-05	1086.570
2391	636	4 R 34	676.611	6.730E-04	4.672E-04	2.955E-04	1.649E-04	7.762E-05	2.662E-05	1115.869
2392		18 P 57	676.738	1.043E-06	2.709E-07	5.265E-08	6.951E-09	5.498E-10	1.464E-11	3366.184
2393		3 P 55	676.766	1.531E-03	7.634E-06	3.247E-04	1.117E-04	2.809E-05	4.861E-06	1869.273
2394		9 R 10	676.818	1.085E-02	6.705E-03	3.687E-03	1.736E-03	6.603E-04	1.853E-04	1378.213
2395		1 Q 96	676.833	2.031E-06	4.716E-07	8.016E-08	8.986E-09	5.687E-10	1.591E-11	3622.166
2396		2 K 77	676.925	9.067E-06	2.751E-06	6.447E-07	1.070E-07	1.106E-08	5.809E-10	3008.654
2397	627	1 K 15	676.949	1.468E-03	1.588E-03	1.713E-03	1.837E-03	1.956E-03	2.062E-03	90.867
2398		17 R 30	677.144	2.608E-04	1.079E-04	3.671E-05	9.604E-06	1.754E-06	1.915E-07	2246.549
2399		17 R 29	677.160	2.844E-04	1.190E-04	4.040E-05	1.089E-05	2.027E-06	2.270E-07	2272.301
2400		1 Q 98	677.221	1.004E-06	2.184E-07	3.430E-08	3.490E-09	1.957E-10	4.686E-12	3773.387
2401	628	1 R 19	677.271	7.690E-03	8.155E-03	8.576E-03	8.915E-03	9.130E-03	9.152E-03	139.866
2402		4 R 11	677.286	1.688E-01	1.390E-01	1.079E-01	7.744E-02	4.990E-02	2.758E-02	718.943
2403		1 R 12	677.601	3.859E-00	4.234E-00	4.638E-00	5.069E-00	5.528E-00	6.008E-00	60.871
2404		9 R 11	677.618	1.103E-02	6.788E-03	3.716E-03	1.740E-03	6.572E-04	1.828E-04	1386.828
2405	627	1 R 16	677.720	1.467E-03	1.580E-03	1.694E-03	1.802E-03	1.901E-03	1.978E-03	102.981
2406		15 P 14	677.785	4.836E-03	2.870E-03	1.504E-03	6.676E-04	2.460E-04	6.026E-05	1470.119
2407	636	1 R 36	677.846	1.344E-02	1.209E-02	1.043E-02	6.517E-03	6.445E-03	4.376E-03	519.561
2408	636	3 P 53	677.903	2.488E-05	1.300E-05	5.847E-06	2.152E-06	6.015E-07	1.135E-07	1765.315
2409		5 R 38	677.906	3.447E-03	1.723E-03	7.349E-04	2.565E-04	6.244E-05	1.115E-05	1863.759
2410		4 R 12	677.997	1.720E-01	1.411E-01	1.090E-01	7.772E-02	4.971E-02	2.720E-02	728.413
2411	628	1 R 20	678.024	7.517E-03	7.919E-03	8.265E-03	8.511E-03	8.613E-03	8.504E-03	154.609
2412		18 P 55	678.214	1.540E-06	4.156E-07	8.457E-08	1.181E-08	9.842E-10	3.420E-11	3278.130
2413	636	4 R 36	678.225	5.442E-04	3.688E-04	2.265E-04	1.220E-04	5.493E-05	1.913E-05	1169.378
2414	636	4 K 35	678.226	6.097E-04	4.184E-04	2.609E-04	1.432E-04	6.596E-05	2.366E-05	1140.430
2415		2 R 79	678.330	5.191E-06	1.493E-06	3.282E-07	5.038E-08	4.721E-09	2.188E-10	3130.833
2416		3 P 53	678.390	2.225E-03	1.151E-03	5.120E-04	1.859E-04	5.111E-05	9.451E-06	1784.285
2417		9 R 12	678.420	1.114E-02	6.826E-03	3.718E-03	1.730E-03	6.488E-04	1.788E-04	1396.225
2418	627	1 R 17	678.492	1.457E-03	1.561E-03	1.622E-03	1.754E-03	1.831E-03	1.881E-03	115.853
2419		17 R 24	678.755	2.185E-04	8.850E-04	2.933E-05	7.436E-06	1.505E-06	1.355E-07	2345.912
2420	628	1 R 21	678.779	7.306E-03	7.645E-03	7.914E-03	8.070E-03	8.066E-03	7.838E-03	170.068
2421		17 R 31	678.884	2.467E-04	9.859E-05	3.312E-05	8.538E-06	1.530E-06	1.634E-07	2319.948
2422		4 R 13	678.904	1.742E-01	1.422E-01	1.093E-01	7.745E-02	4.913E-02	2.661E-02	738.472
2423		1 K 14	679.186	3.957E-00	4.345E-00	4.707E-00	5.076E-00	5.442E-00	5.788E-00	81.940
2424		9 R 13	679.223	1.118E-02	6.820E-03	3.695E-03	1.708E-03	6.354E-04	1.732E-04	1406.410
2425	627	1 R 18	679.264	1.439E-03	1.534E-03	1.620E-03	1.694E-03	1.749E-03	1.772E-03	124.481
2426		15 P 14	679.335	4.539E-03	2.718E-03	1.440E-03	6.479E-04	2.329E-04	6.078E-05	1449.052
2427	636	1 R 38	679.459	1.072E-02	9.396E-03	7.865E-03	6.184E-03	4.465E-03	2.855E-03	578.041
2428		5 R 40	679.509	2.700E-03	1.314E-03	5.426E-04	1.800E-04	4.642E-05	7.073E-06	1425.378
2429	628	1 R 22	679.534	7.063E-03	7.339E-03	7.532E-03	7.601E-03	7.500E-03	7.166E-03	186.263
2430		4 R 14	679.585	1.750E-01	1.421E-01	1.086E-01	7.641E-02	4.805E-02	2.573E-02	744.538

LINE	BAND	CULDE	WAVELENGTH	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
2431	636	3 P 51	674.626	3.558E-05	1.927E-05	9.045E-06	3.507E-06	1.047E-06	2.149E-07	1683.437
2432		18 P 51	674.696	2.238E-06	6.265E-07	1.333E-07	1.965E-08	1.753E-09	7.617E-11	3193.182
2433		2 M 81	674.727	2.926E-06	7.970E-07	1.641E-07	2.324E-08	1.971E-09	8.029E-11	3236.055
2434	636	4 R 38	674.841	4.325E-04	2.856E-04	1.702E-04	8.249E-05	3.792E-05	1.624E-05	1228.004
2435	636	4 P 37	674.933	4.890E-04	3.273E-04	1.981E-04	1.048E-04	4.614E-05	1.561E-05	1197.457
2436		3 P 51	680.015	3.184E-03	1.706E-03	7.918E-04	3.029E-04	8.892E-05	1.789E-05	1702.407
2437		9 R 14	680.027	1.115E-03	6.770E-04	3.647E-04	1.674E-04	6.174E-05	1.664E-05	1417.376
2438	627	1 M 19	680.038	1.415E-03	1.494E-03	1.567E-03	1.625E-03	1.658E-03	1.655E-03	143.866
2439	628	1 M 23	680.290	6.792E-03	7.005E-03	7.126E-03	7.118E-03	6.925E-03	6.504E-03	203.195
2440		17 M 34	680.369	1.798E-04	7.117E-05	2.295E-05	5.628E-06	9.469E-07	4.315E-08	2398.351
2441		9 R 13	680.529	1.748E-01	1.413E-01	1.073E-01	7.454E-02	4.669E-02	2.471E-02	761.126
2442		17 R 32	680.617	2.004E-04	8.013E-05	2.621E-05	6.541E-06	1.125E-06	1.139E-07	2370.694
2443		1 R 16	680.774	4.015E-00	4.518E-00	4.615E-00	4.904E-00	5.157E-00	5.350E-00	106.130
2444	627	1 R 20	680.812	1.377E-03	1.448E-03	1.507E-03	1.547E-03	1.560E-03	1.533E-03	159.008
2445	2445	9 R 15	680.833	1.106E-02	6.680E-03	3.576E-03	1.629E-03	5.95E-04	1.585E-04	1429.123
2446		15 P 10	680.886	4.058E-03	2.449E-03	1.310E-03	5.960E-04	2.173E-04	5.777E-05	1431.104
2447	628	1 R 24	681.046	6.498E-03	6.650E-03	6.703E-03	6.616E-03	6.350E-03	5.856E-03	220.858
2448	636	1 R 40	681.075	8.396E-03	7.167E-03	5.408E-03	4.390E-03	3.018E-03	1.811E-03	639.633
2449		5 R 42	681.115	2.080E-03	9.836E-04	3.927E-04	1.250E-04	2.915E-05	4.362E-06	1990.109
2450		2 R 83	681.115	1.624E-06	4.183E-07	8.052E-08	1.051E-08	8.040E-10	2.871E-11	3584.560
2451		9 R 16	681.176	1.732E-01	1.393E-01	1.051E-01	7.277E-02	4.488E-02	2.344E-02	773.792
2452		18 P 51	681.183	3.199E-06	9.280E-07	2.061E-07	3.202E-08	3.048E-09	1.441E-10	3111.339
2453	636	3 P 49	681.345	5.008E-05	2.805E-05	1.372E-05	5.596E-06	1.776E-06	3.459E-07	1604.671
2454	636	4 M 40	681.459	3.378E-04	2.172E-04	1.252E-04	6.247E-05	2.553E-05	7.857E-06	1289.760
2455	627	1 M 21	681.587	1.336E-03	1.394E-03	1.439E-03	1.463E-03	1.456E-03	1.400E-03	174.907
2456		3 P 49	681.638	4.476E-03	2.484E-03	1.201E-03	4.832E-04	1.511E-04	3.294E-05	1623.637
2457		9 R 16	681.640	1.090E-02	6.551E-03	3.484E-03	1.575E-03	5.694E-04	1.497E-04	1441.056
2458	636	4 R 39	681.647	3.855E-04	2.513E-04	1.474E-04	7.504E-05	3.148E-05	1.001E-05	1257.500
2459	628	1 R 25	681.803	6.185E-03	6.280E-03	6.269E-03	6.115E-03	5.783E-03	5.233E-03	239.260
2460		17 M 36	681.986	1.453E-04	5.616E-05	1.759E-05	4.161E-06	6.699E-07	6.224E-08	2453.514
2461		9 R 17	682.163	1.710E-01	1.367E-01	1.024E-01	7.033E-02	4.292E-02	2.211E-02	786.903
2462		17 R 35	682.360	1.634E-04	6.389E-05	2.032E-05	4.898E-06	6.072E-07	7.724E-08	2424.567
2463	627	1 M 22	682.362	1.289E-03	1.335E-03	1.366E-03	1.374E-03	1.349E-03	1.282E-03	191.562
2464		1 M 18	682.364	3.924E-00	4.170E-00	4.397E-00	4.587E-00	4.719E-00	4.762E-00	133.440
2465		15 P 8	682.440	3.377E-03	2.064E-03	1.112E-03	5.109E-04	1.885E-04	5.087E-05	1416.278
2466		9 M 17	682.444	1.069E-02	6.386E-03	3.373E-03	1.511E-03	5.407E-04	1.402E-04	1454.566
2467	628	2 R 26	682.561	5.859E-03	5.899E-03	5.830E-03	5.617E-03	5.232E-03	4.642E-03	258.396
2468		18 P 49	682.675	4.492E-06	1.350E-06	3.124E-07	5.105E-08	1.754E-09	2.653E-10	3032.605
2469	636	1 R 42	682.693	6.467E-03	5.366E-03	4.204E-03	3.048E-03	1.990E-03	1.117E-03	704.337
2470		5 R 44	682.723	1.574E-03	7.230E-04	2.785E-04	6.488E-05	1.875E-05	2.617E-06	2057.950
2471		9 R 18	682.770	1.674E-01	1.279E-01	9.885E-02	6.729E-02	4.054E-02	2.061E-02	801.174
2472	636	3 P 47	683.058	6.927E-05	4.012E-05	2.062E-05	8.737E-06	2.950E-06	7.098E-07	1529.013
2473	636	4 R 42	683.080	2.594E-04	1.621E-04	9.036E-05	4.324E-05	1.678E-05	4.830E-06	1354.632
2474	627	1 M 23	683.139	1.236E-03	1.271E-03	1.289E-03	1.282E-03	1.242E-03	1.199E-03	208.973
2475		8 P 68	683.194	1.317E-04	3.723E-07	8.018E-08	1.200E-08	1.090E-09	4.855E-11	3169.782

LINE	BAND CODE	WAVELENGTH	T=300K	T=250K	T=225K	T=200K	T=175K	ENERGY
2476	9 R 18	683.259	1.043E-02	3.244E-03	1.441E-03	5.098E-04	1.503E-04	1469.067
2477	3 P 47	683.261	6.193E-03	1.787E-03	7.544E-04	2.505E-04	5.506E-05	1547.576
2478	1 R 27	683.320	5.524E-03	5.372E-03	7.544E-04	4.702E-03	4.088E-03	478.269
2479	4 R 41	683.368	2.987E-04	1.075E-04	5.257E-05	2.096E-05	6.248E-06	1320.708
2480	17 R 38	683.605	1.155E-04	1.521E-05	3.009E-06	4.622E-07	4.049E-08	2512.601
2481	4 R 19	683.805	1.633E-01	9.511E-02	6.414E-02	3.824E-02	1.913E-02	815.804
2482	1 R 24	683.916	1.180E-03	1.209E-03	1.188E-03	1.134E-03	1.039E-03	227.141
2483	1 R 20	683.958	3.740E-00	4.070E-00	4.164E-00	4.181E-00	4.087E-00	163.869
2484	15 P 6	683.995	2.573E-03	8.519E-04	3.942E-04	1.468E-04	4.010E-05	1404.575
2485	5 R 19	684.070	1.012E-02	3.104E-03	1.365E-03	4.772E-04	1.201E-04	1483.944
2486	1 R 28	684.079	5.183E-03	4.960E-03	4.657E-03	4.199E-03	3.574E-03	298.876
2487	17 R 37	684.114	1.309E-04	4.998E-05	3.585E-06	5.646E-07	5.098E-08	2481.528
2488	18 P 47	684.172	6.221E-06	4.646E-07	7.987E-08	8.579E-09	4.753E-10	2956.979
2489	1 R 44	684.314	4.897E-03	3.944E-03	2.071E-03	1.280E-03	6.705E-04	712.152
2490	5 R 46	684.334	1.172E-04	1.937E-04	5.641E-05	1.177E-05	1.528E-06	2128.899
2491	4 R 20	684.368	1.580E-01	9.063E-02	6.049E-02	3.561E-02	1.753E-02	831.683
2492	1 R 25	684.694	1.120E-03	1.127E-03	1.095E-03	1.029E-03	9.248E-04	246.066
2493	4 R 44	684.703	1.959E-04	6.392E-05	2.928E-05	1.076E-05	2.888E-06	1422.621
2494	3 P 45	684.766	9.428E-05	2.978E-05	1.335E-05	4.776E-06	1.238E-06	1456.466
2495	1 R 29	684.839	4.841E-03	4.559E-03	4.203E-03	3.726E-03	3.102E-03	320.214
2496	9 R 20	684.883	9.763E-03	2.950E-03	1.285E-03	4.435E-04	1.099E-04	1499.609
2497	3 P 45	684.884	8.427E-03	2.606E-03	1.153E-03	4.056E-04	1.030E-04	1475.426
2498	8 P 66	685.049	1.128E-06	1.433E-07	2.295E-08	2.268E-09	1.125E-10	3084.374
2499	4 R 43	685.096	2.274E-04	7.686E-05	3.602E-05	1.362E-05	3.792E-06	1587.030
2500	17 R 40	685.228	9.017E-05	9.118E-06	2.128E-06	3.111E-07	2.554E-08	2574.410
2501	4 R 21	685.454	1.526E-01	8.615E-02	5.691E-02	3.307E-02	1.601E-02	847.827
2502	1 R 26	685.472	1.034E-03	1.045E-03	1.002E-03	9.276E-04	8.167E-04	265.747
2503	15 P 4	685.551	1.613E-03	5.383E-04	2.505E-04	9.392E-05	2.586E-05	1395.589
2504	1 R 22	685.555	3.482E-01	3.670E-00	3.674E-00	3.591E-00	3.374E-00	197.417
2505	1 P 30	685.600	4.501E-03	4.131E-03	3.772E-03	3.265E-03	2.674E-03	342.257
2506	18 P 45	685.674	8.463E-06	2.710E-06	1.271E-07	1.388E-08	8.286E-10	2894.462
2507	9 R 21	685.697	9.374E-03	2.788E-03	1.201E-03	4.092E-04	9.596E-05	1515.021
2508	1 R 39	685.874	1.032E-04	1.148E-05	2.567E-06	3.852E-07	3.270E-08	2541.665
2509	1 R 46	685.937	3.644E-03	2.074E-03	1.376E-03	8.040E-04	3.914E-04	843.076
2510	5 R 48	685.947	8.583E-04	1.521E-04	3.686E-05	7.217E-06	6.677E-07	2202.157
2511	4 R 42	685.968	1.400E-01	8.105E-02	5.259E-02	3.034E-02	1.444E-02	865.120
2512	1 R 27	686.251	9.954E-04	9.636E-04	9.184E-04	8.303E-04	7.159E-04	266.184
2513	4 R 46	686.328	1.454E-04	4.433E-05	1.449E-05	6.37E-06	1.681E-06	1493.729
2514	2 R 31	686.361	4.105E-03	3.749E-03	3.664E-03	2.075E-03	2.288E-03	365.109
2515	3 P 43	686.469	1.262E-04	4.260E-05	1.556E-05	7.544E-06	2.101E-06	1387.036
2516	3 P 43	686.505	1.128E-02	3.727E-03	1.723E-03	6.410E-04	1.748E-04	1405.987
2517	4 R 22	686.513	8.955E-03	2.620E-03	1.116E-03	3.751E-04	8.976E-05	1533.282
2518	8 P 69	686.679	1.037E-06	5.995E-08	8.667E-09	7.541E-10	3.174E-11	2223.688
2519	4 R 45	686.831	1.700E-04	5.388E-05	2.415E-05	9.639E-06	2.239E-06	1456.466
2520	17 R 42	686.855	6.922E-05	7.009E-06	1.472E-06	2.044E-07	1.564E-08	2633.341

LINE	LAND CODE	MAVFNUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
2521	8 P 64	686.891	3.385E-06	1.048E-06	2.515E-07	4.259E-08	4.610E-09	4.540E-10	2962.070
2522	1 R 28	687.031	9.513E-04	4.175E-04	8.885E-04	8.247E-04	7.884E-04	6.229E-04	307.377
2523	15 P 2	687.110	5.534E-04	3.999E-04	1.856E-04	8.667E-05	3.264E-05	9.044E-06	1390.526
2524	4 R 23	687.112	1.395E-01	1.069E-01	7.616E-02	4.919E-02	2.779E-02	1.297E-02	882.972
2525	1 R 32	687.123	3.493E-03	3.650E-03	3.569E-03	2.908E-03	2.508E-03	1.945E-03	388.657
2526	1 R 44	687.155	3.173E-00	3.226E-00	3.227E-00	3.156E-00	2.996E-00	2.725E-00	254.084
2527	18 P 43	687.180	1.132E-05	3.736E-06	9.684E-07	1.818E-07	1.931E-08	1.406E-09	2815.057
2528	9 R 23	687.329	8.513E-03	4.875E-03	2.448E-03	1.031E-03	3.451E-04	8.022E-05	1551.208
2529	1 R 48	687.563	2.677E-03	2.019E-03	1.415E-03	8.953E-04	4.979E-04	2.424E-04	517.108
2530	5 R 50	687.564	6.182E-04	2.576E-04	8.834E-05	2.335E-05	4.319E-06	4.796E-07	2280.124
2531	4 R 24	687.571	1.321E-01	1.004E-01	7.079E-02	4.751E-02	4.517E-02	1.152E-02	902.084
2532	17 R 41	687.652	7.999E-05	2.893E-05	8.371E-06	1.798E-06	2.565E-07	2.048E-08	2604.888
2533	227	687.812	8.673E-04	8.463E-04	8.056E-04	7.415E-04	6.511E-04	5.360E-04	329.327
2534	628	687.896	3.524E-03	3.313E-03	3.020E-03	2.635E-03	2.161E-03	1.644E-03	412.440
2535	4 R 48	687.955	1.062E-04	6.048E-05	3.015E-05	1.258E-05	4.118E-06	9.518E-07	1567.553
2536	3 P 41	688.125	1.483E-02	9.315E-03	5.225E-03	2.520E-03	9.884E-04	2.886E-04	1339.661
2537	9 R 24	688.148	8.054E-03	4.574E-03	2.274E-03	9.465E-04	3.088E-04	7.114E-05	1570.584
2538	3 P 41	688.166	1.660E-04	1.053E-04	5.972E-05	2.919E-05	1.164E-05	3.469E-06	1320.708
2539	8 P 67	688.276	1.688E-06	4.885E-07	1.081E-07	1.674E-08	1.586E-09	7.457E-11	3116.723
2540	17 R 44	688.484	5.225E-05	1.807E-05	4.956E-06	9.968E-07	1.310E-07	9.379E-09	2707.392
2541	4 R 47	688.573	1.257E-04	7.279E-05	3.704E-05	1.595E-05	5.349E-06	1.287E-06	1529.013
2542	1 R 30	688.593	6.040E-04	7.767E-04	7.306E-04	6.28E-04	5.725E-04	4.613E-04	352.632
2543	628	688.649	3.216E-03	2.994E-03	2.691E-03	2.312E-03	1.865E-03	1.376E-03	437.958
2544	15 Q 2	688.677	2.774E-03	1.704E-03	9.304E-04	4.344E-04	1.636E-04	4.533E-05	1390.526
2545	18 P 41	688.691	1.489E-05	5.057E-06	1.357E-06	2.658E-07	3.380E-08	2.319E-09	2748.764
2546	15 Q 4	688.693	4.864E-03	2.960E-03	1.623E-03	7.551E-04	2.831E-04	7.801E-05	1395.989
2547	15 Q 6	688.718	6.743E-03	4.116E-03	2.231E-03	1.032E-03	3.845E-04	1.152E-04	1404.573
2548	8 P 62	688.730	5.301E-06	3.713E-06	4.331E-07	7.887E-08	9.155E-09	5.566E-10	2862.871
2549	15 Q 8	688.752	8.337E-03	5.063E-03	2.728E-03	1.253E-03	4.622E-04	1.247E-04	1416.278
2550	1 R 26	688.758	2.831E-00	2.829E-00	2.771E-00	2.642E-00	2.421E-00	2.121E-00	273.665
2551	4 R 25	688.777	1.250E-01	9.421E-02	6.577E-02	4.142E-02	2.272E-02	1.020E-02	921.239
2552	15 Q 10	688.796	9.592E-03	5.787E-03	3.095E-03	1.408E-03	5.132E-04	1.364E-04	1431.104
2553	15 Q 12	688.848	1.048E-02	6.273E-03	3.329E-03	1.494E-03	5.370E-04	1.401E-04	1449.052
2554	15 Q 14	688.910	1.099E-02	6.518E-03	3.415E-03	1.515E-03	5.354E-04	1.367E-04	1470.119
2555	9 R 25	688.966	7.582E-03	4.269E-03	2.101E-03	8.636E-04	2.774E-04	6.263E-05	1589.655
2556	15 Q 14	688.980	1.114E-02	6.536E-03	3.881E-03	1.477E-03	5.112E-04	1.275E-04	1494.508
2557	15 Q 18	689.060	1.095E-03	6.352E-03	3.240E-03	1.391E-03	4.717E-04	1.142E-04	1521.616
2558	15 Q 20	689.149	1.049E-02	6.005E-03	3.014E-03	1.269E-03	4.200E-04	9.857E-05	1552.644
2559	4 R 26	689.177	1.171E-01	8.748E-02	6.041E-02	3.757E-02	2.025E-02	8.897E-03	941.974
2560	5 R 52	689.183	4.380E-04	1.762E-04	5.794E-05	1.455E-05	2.544E-06	2.581E-07	2560.588
2561	1 R 50	689.192	1.923E-03	1.406E-03	9.463E-04	5.700E-04	2.950E-04	1.230E-04	994.247
2562	15 Q 22	689.246	9.805E-03	5.541E-03	2.728E-03	1.124E-03	3.522E-04	8.212E-05	1585.591
2563	15 Q 24	689.353	8.957E-03	4.972E-03	2.405E-03	9.683E-04	3.030E-04	6.216E-05	1622.237
2564	627	689.375	7.418E-04	7.093E-04	6.591E-04	5.890E-04	4.993E-04	3.927E-04	375.454
2565	628	689.413	2.075E-03	2.692E-03	4.389E-05	2.018E-03	1.595E-03	1.146E-03	462.710

LINE	BAND CODE	WAVELENGTH	T=250K	T=275K	T=300K	T=325K	T=350K	T=375K	T=400K	ENERGY
2566	17 R 43	684.430	5.985E-06	2.141E-05	6.095E-05	1.232E-04	1.667E-07	1.238E-08	1.238E-08	2.111E-24
2567	15 K 0	689.451	3.777E-04	6.707E-04	1.124E-03	1.766E-04	6.662E-05	1.850E-05	1.850E-05	1.586E-19
2568	15 Q 26	689.459	2.070E-03	4.368E-03	8.006E-03	8.122E-04	2.462E-04	5.160E-05	5.160E-05	1.662E-04
2569	4 R 50	689.584	7.633E-05	4.201E-05	7.633E-05	7.633E-05	2.497E-06	5.444E-07	5.444E-07	1.645E-22
2570	15 Q 28	689.594	7.011E-03	3.754E-03	7.011E-03	6.641E-04	1.943E-04	3.401E-05	3.401E-05	1.704E-04
2571	15 Q 30	689.727	6.018E-03	3.158E-03	6.018E-03	5.296E-04	1.495E-04	2.860E-05	2.860E-05	1.750E-04
2572	3 P 30	689.763	1.918E-02	1.238E-02	1.918E-02	3.604E-03	1.467E-03	5.632E-04	5.632E-04	1.476E-04
2573	4 R 26	689.858	7.105E-03	3.905E-03	7.105E-03	7.832E-04	2.475E-04	5.472E-05	5.472E-05	1.610E-04
2574	3 P 39	689.878	2.147E-04	1.399E-04	2.147E-04	4.217E-05	1.751E-05	5.569E-06	5.569E-06	1.257E-06
2575	15 Q 32	689.870	5.008E-03	2.603E-03	5.008E-03	4.123E-04	1.149E-04	2.032E-05	2.032E-05	1.800E-04
2576	6 P 65	689.875	2.706E-06	8.192E-07	2.706E-06	3.167E-08	3.261E-09	1.706E-10	1.706E-10	3.012E-41
2577	15 Q 34	690.022	4.186E-03	2.103E-03	4.186E-03	3.134E-04	8.159E-05	1.408E-05	1.408E-05	1.052E-07
2578	17 R 46	690.117	3.874E-05	1.301E-05	3.874E-05	6.603E-07	8.196E-08	5.455E-09	5.455E-09	2.778E-26
2579	1 R 32	690.158	6.817E-04	6.447E-04	6.817E-04	5.204E-04	4.371E-04	3.320E-04	3.320E-04	344.711
2580	1 R 36	690.178	2.644E-03	2.410E-03	2.644E-03	1.752E-03	1.352E-03	9.478E-04	9.478E-04	440.148
2581	1 R 38	690.192	3.799E-03	1.666E-03	3.799E-03	2.328E-04	5.797E-05	9.440E-06	9.440E-06	1.907E-71
2582	19 R 19	690.215	1.924E-05	6.719E-06	1.924E-05	3.801E-07	5.083E-08	3.721E-09	3.721E-09	2.685E-04
2583	1 R 40	690.321	9.114E-05	5.186E-05	9.114E-05	1.018E-05	3.234E-06	7.198E-07	7.198E-07	1.004E-07
2584	15 Q 38	690.352	2.709E-03	1.294E-03	2.709E-03	1.690E-04	4.016E-05	6.158E-06	6.158E-06	1.966E-19
2585	1 R 28	690.364	2.475E-00	2.428E-00	2.475E-00	2.157E-04	1.916E-04	1.601E-04	1.601E-04	314.771
2586	4 R 27	690.410	1.098E-01	8.124E-02	1.098E-01	4.408E-02	1.807E-02	7.771E-03	7.771E-03	962.627
2587	15 Q 40	690.510	2.121E-03	9.867E-04	2.121E-03	1.199E-04	2.733E-05	3.905E-06	3.905E-06	2.027E-06
2588	4 R 40	690.562	6.171E-06	2.754E-06	6.171E-06	1.417E-07	1.776E-08	1.194E-09	1.194E-09	2.766E-04
2589	4 R 27	690.609	6.627E-03	3.644E-03	6.627E-03	7.062E-04	2.194E-04	4.747E-05	4.747E-05	1.631E-12
2590	15 Q 42	690.717	1.633E-03	7.383E-04	1.633E-03	8.322E-05	1.711E-05	2.408E-06	2.408E-06	2.042E-02
2591	4 R 28	690.748	1.019E-01	7.487E-02	1.019E-01	3.051E-02	1.589E-02	6.677E-03	6.677E-03	484.490
2592	5 R 54	690.805	3.053E-04	1.164E-04	3.053E-04	8.875E-06	1.443E-06	1.352E-07	1.352E-07	444.760
2593	1 R 52	690.823	1.363E-03	9.620E-04	1.363E-03	3.552E-04	1.724E-04	6.817E-05	6.817E-05	1.074E-03
2594	15 Q 4	690.913	1.235E-03	5.423E-04	1.235E-03	5.649E-05	1.150E-05	1.444E-06	1.444E-06	2.160E-04
2595	1 R 1	690.941	6.230E-04	5.831E-04	6.230E-04	4.572E-04	3.726E-04	2.786E-04	2.786E-04	424.684
2596	1 R 37	690.943	2.389E-03	2.148E-03	2.389E-03	1.512E-03	1.145E-03	7.784E-04	7.784E-04	517.419
2597	15 R 2	691.014	2.228E-03	3.866E-03	2.228E-03	3.488E-04	1.313E-04	3.634E-05	3.634E-05	3.390E-26
2598	15 Q 46	691.117	4.189E-04	3.911E-04	4.189E-04	3.752E-05	7.215E-06	8.423E-07	8.423E-07	2.231E-28
2599	4 R 52	691.216	5.346E-05	2.867E-05	5.346E-05	4.965E-06	1.422E-06	2.814E-07	2.814E-07	1.725E-03
2600	17 R 45	691.230	4.567E-05	1.557E-05	4.567E-05	8.254E-07	1.057E-07	7.312E-09	7.312E-09	2.740E-03
2601	15 Q 48	691.330	6.722E-04	2.770E-04	6.722E-04	2.448E-05	4.434E-06	5.742E-07	5.742E-07	2.305E-27
2602	4 P 37	691.360	2.437E-02	1.615E-02	2.437E-02	9.641E-03	2.162E-03	7.206E-04	7.206E-04	1.216E-03
2603	9 R 28	691.434	6.152E-03	3.569E-03	6.152E-03	6.329E-04	1.942E-04	4.687E-05	4.687E-05	1.653E-07
2604	6 P 03	691.476	4.270E-06	1.381E-06	4.270E-06	5.670E-06	6.550E-06	4.590E-06	4.590E-06	2.914E-10
2605	3 P 37	691.544	1.728E-04	1.825E-04	1.728E-04	5.841E-05	2.570E-05	8.692E-06	8.692E-06	1.147E-07
2606	15 Q 50	691.552	4.836E-04	1.477E-04	4.836E-04	1.551E-05	2.642E-06	2.642E-07	2.642E-07	2.862E-22
2607	1 R 38	691.709	2.140E-03	1.405E-03	2.140E-03	1.249E-03	4.615E-04	6.351E-04	6.351E-04	545.275
2608	18 P 37	691.723	2.444E-05	6.761E-06	2.444E-05	5.314E-06	7.456E-06	5.806E-06	5.806E-06	26.75E-15
2609	1 R 34	691.726	2.671E-04	5.249E-04	2.671E-04	3.944E-04	3.189E-04	2.122E-04	2.122E-04	450.413
2610	17 R 48	691.753	2.832E-05	9.193E-06	2.832E-05	4.261E-07	5.008E-08	3.067E-09	3.067E-09	2.352E-04

LINE	BAND CODE	WAVENUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
2611	15 U 52	691.783	3.423E-04	1.317E-04	4.104E-05	9.652E-06	1.543E-06	1.420E-07	2462.676
2612	1 K 30	691.973	2.123E-00	2.041E-00	1.908E-00	1.718E-00	1.471E-00	1.174E-00	3527.784
2613	15 U 54	692.022	2.283E-04	8.842E-05	2.638E-05	6.882E-06	8.795E-07	7.431E-08	2546.526
2614	4 R 51	692.076	6.501E-05	3.519E-05	1.651E-05	6.400E-06	1.909E-06	3.519E-07	1063.454
2615	4 R 49	692.131	9.468E-02	6.672E-02	4.586E-02	2.734E-02	1.400E-02	5.750E-03	1007.133
2616	9 R 24	692.257	5.685E-03	3.083E-03	1.450E-03	5.440E-04	1.691E-04	3.494E-05	1675.776
2617	1 U 56	692.270	1.633E-04	5.833E-05	1.663E-05	3.509E-06	4.897E-07	3.780E-08	2616.501
2618	14 P 55	692.362	1.069E-06	3.069E-07	6.729E-08	1.030E-08	6.614E-10	4.434E-11	3134.564
2619	8 P 58	692.387	1.391E-05	4.344E-06	1.214E-06	2.494E-07	3.367E-08	2.492E-09	4073.748
2620	4 R 30	692.398	8.677E-04	6.247E-04	4.117E-04	2.418E-04	1.214E-04	4.665E-05	1031.100
2621	5 R 56	692.430	2.044E-04	7.824E-05	2.354E-05	5.331E-06	8.026E-07	6.893E-08	2530.233
2622	1 K 54	692.456	9.501E-04	4.407E-04	3.097E-04	2.167E-04	9.490E-05	3.467E-05	1157.842
2623	648	692.475	1.914E-03	1.603E-03	1.404E-03	1.109E-03	8.726E-04	5.148E-04	574.066
2624	627	692.510	5.140E-04	4.704E-04	4.143E-04	3.464E-04	2.712E-04	1.922E-04	476.897
2625	15 U 56	692.526	1.101E-04	3.782E-05	1.024E-05	2.050E-06	2.663E-07	1.678E-08	2722.071
2626	15 R 4	692.579	3.263E-03	1.999E-03	1.084E-03	5.044E-04	1.898E-04	5.230E-05	1395.549
2627	15 U 60	692.791	7.301E-05	2.404E-05	6.243E-06	1.173E-06	1.414E-07	9.067E-09	2814.743
2628	636	692.844	3.753E-05	1.923E-05	8.447E-06	3.021E-06	8.149E-07	1.470E-07	1809.311
2629	3 P 35	692.975	3.043E-02	2.067E-02	1.474E-02	8.842E-03	3.122E-03	1.097E-03	1159.372
2630	17 R 47	693.035	3.366E-05	1.112E-05	2.884E-06	5.414E-07	6.545E-08	4.202E-09	2813.233
2631	15 Q 62	693.064	4.767E-05	1.509E-05	3.719E-06	6.564E-07	7.339E-08	4.264E-09	2910.517
2632	8 P 61	693.079	6.631E-06	2.188E-06	3.674E-07	1.045E-07	1.285E-08	8.443E-10	2814.455
2633	9 R 30	693.085	5.230E-03	2.807E-03	1.304E-03	4.947E-04	1.470E-04	2.965E-05	1644.265
2634	3 P 35	693.224	3.406E-04	2.366E-04	1.474E-04	7.987E-05	3.677E-05	1.319E-05	1140.430
2635	1 R 40	693.242	1.704E-03	1.440E-03	1.220E-03	9.427E-04	6.661E-04	4.145E-04	603.490
2636	18 P 35	693.244	3.051E-05	1.121E-05	3.305E-06	7.262E-07	1.066E-07	8.804E-09	2568.568
2637	1 R 36	693.246	4.439E-04	4.193E-04	3.642E-04	2.997E-04	2.492E-04	1.580E-04	504.137
2638	15 U 64	693.546	3.063E-06	9.283E-07	2.174E-06	3.604E-07	3.720E-08	1.953E-09	3009.341
2639	17 R 50	693.543	2.034E-05	6.364E-06	1.558E-06	2.716E-07	2.487E-08	1.701E-09	2930.253
2640	1 R 32	693.584	1.787E-00	1.681E-00	1.532E-00	1.337E-00	1.100E-00	8.335E-01	411.924
2641	12 U 66	693.635	1.937E-05	5.618E-06	1.247E-06	1.937E-07	1.463E-08	8.709E-10	3111.363
2642	4 R 31	693.619	8.011E-02	5.695E-02	3.767E-02	2.145E-02	1.056E-02	4.132E-03	1054.762
2643	4 K 53	693.837	4.562E-03	2.383E-03	1.071E-03	3.939E-04	1.011E-04	2.077E-05	1765.215
2644	9 R 31	693.910	4.789E-03	2.543E-03	1.167E-03	4.402E-04	1.270E-04	2.494E-05	1723.528
2645	15 U 68	693.934	1.200E-05	3.341E-06	7.014E-07	1.014E-07	8.918E-09	3.783E-10	3216.433
2646	1 K 41	694.009	1.516E-03	1.245E-03	1.052E-03	7.908E-04	5.496E-04	3.315E-04	633.647
2647	4 R 34	694.015	7.289E-02	5.123E-02	3.491E-02	1.873E-02	9.036E-03	3.443E-03	1080.394
2648	5 R 58	694.058	1.414E-06	5.078E-07	1.458E-07	3.100E-08	4.370E-09	3.421E-08	2619.806
2649	627	694.082	4.166E-04	3.722E-04	3.185E-04	2.575E-04	1.426E-04	1.284E-04	522.132
2650	636	694.092	6.518E-04	4.272E-04	2.522E-04	1.254E-04	5.485E-05	1.768E-05	1244.255
2651	15 R 6	694.145	4.186E-03	2.555E-03	1.385E-03	6.406E-04	2.385E-04	6.515E-05	1404.573
2652	14 P 53	694.155	1.554E-06	4.629E-07	1.061E-06	1.715E-07	1.714E-08	8.032E-11	3049.571
2653	8 P 56	694.205	1.850E-05	6.752E-06	1.975E-06	4.233E-07	6.233E-08	5.006E-09	2583.925
2654	15 U 70	694.240	1.394E-06	1.954E-06	3.878E-07	5.255E-08	4.217E-09	1.601E-10	3224.545
2655	4 R 50	694.484	2.569E-05	1.267E-05	5.319E-06	1.800E-06	4.530E-07	7.473E-08	1695.984

LINE	BAND CODE	WAVE NUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
2656	15 G 72	694.554	4.462E-06	1.123E-06	2.103E-07	2.854E-08	1.949E-09	6.598E-11	3435.854
2657	3 P 33	694.588	3.731E-02	2.594E-02	1.644E-02	9.208E-03	4.354E-03	1.617E-03	1109.508
2658	6 P 59	694.683	1.014E-05	3.486E-06	9.494E-07	1.894E-07	2.464E-08	1.741E-09	2719.914
2659	4 H 32	694.742	4.367E-03	2.294E-03	1.038E-03	3.858E-04	1.090E-04	2.091E-05	1748.581
2660	18 P 33	694.769	3.737E-05	1.500E-05	4.205E-06	9.700E-07	1.487E-07	1.247E-08	2514.732
2661	628	694.777	1.339E-03	1.129E-03	9.018E-04	6.691E-04	4.250E-04	2.634E-04	664.542
2662	17 R 49	694.849	2.441E-05	7.747E-06	1.944E-06	3.481E-07	2.350E-07	2.888.904	2888.904
2663	1 R 36	694.868	5.724E-04	3.288E-04	2.772E-04	2.200E-04	1.608E-04	1.045E-04	560.882
2664	15 G 74	694.877	2.651E-06	6.347E-07	1.400E-07	1.313E-08	8.800E-10	2.649E-11	3550.211
2665	3 P 33	694.899	4.176E-04	2.932E-04	1.880E-04	1.067E-04	5.130E-05	1.544E-05	1026.570
2666	17 R 52	695.037	1.438E-05	4.355E-06	1.019E-06	1.687E-07	1.740E-08	9.119E-10	3010.771
2667	1 M 34	695.199	1.476E 00	1.258E 00	1.204E 00	1.018E 00	8.021E-01	5.757E-01	466.173
2668	15 Q 76	695.208	1.551E-06	3.528E-07	5.952E-08	6.368E-09	3.884E-10	1.036E-11	3667.655
2669	4 R 33	695.515	6.657E-02	4.628E-02	2.931E-02	1.643E-02	7.769E-03	2.885E-03	1155.548
2670	1 M 43	695.546	1.178E-03	9.798E-04	7.698E-04	5.604E-04	3.677E-04	2.080E-04	656.169
2671	9 R 33	695.568	3.964E-03	2.059E-03	9.195E-04	3.358E-04	9.202E-05	1.737E-05	1774.407
2672	636	695.604	3.150E-05	1.585E-05	6.816E-06	2.374E-06	6.198E-07	1.074E-07	1650.499
2673	4 R 34	695.631	5.949E-02	4.121E-02	2.575E-02	1.417E-02	6.558E-03	2.368E-03	1132.781
2674	1 R 39	695.655	3.322E-04	2.892E-04	2.401E-04	1.669E-04	1.335E-04	8.431E-05	540.368
2675	5 R 60	695.689	9.390E-05	3.240E-05	6.859E-06	1.776E-06	2.324E-07	1.655E-08	2712.477
2676	15 R 8	695.713	4.960E-03	3.011E-03	1.624E-03	7.448E-04	2.747E-04	7.414E-05	1416.278
2677	1 R 58	695.731	4.400E-04	2.773E-04	1.562E-04	7.572E-05	2.987E-05	8.780E-06	333.850
2678	14 P 51	695.941	2.223E-06	4.862E-07	1.642E-07	2.795E-08	2.983E-09	1.634E-10	2467.684
2679	8 P 54	696.016	2.718E-05	1.030E-05	3.192E-06	7.251E-07	1.127E-07	1.001E-08	2497.165
2680	4 R 58	696.121	1.730E-05	8.206E-06	3.287E-06	1.050E-06	2.459E-07	3.700E-08	1985.776
2681	3 P 31	696.199	4.490E-02	3.192E-02	2.077E-02	1.202E-02	5.918E-03	2.315E-03	1054.762
2682	8 P 37	696.288	1.525E-05	5.456E-06	1.554E-06	3.297E-07	4.615E-08	3.282E-09	2628.463
2683	18 P 31	696.297	4.499E-05	1.730E-05	5.387E-06	1.266E-06	2.020E-07	1.857E-08	2466.014
2684	628	696.315	1.033E-03	8.639E-04	6.539E-04	4.663E-04	2.981E-04	1.631E-04	728.530
2685	9 R 34	696.403	3.822E-03	1.839E-03	8.100E-04	2.908E-04	1.886E-05	1.433E-05	1801.023
2686	1 R 40	696.443	2.947E-04	2.532E-04	2.084E-04	1.580E-04	1.101E-04	6.744E-05	620.648
2687	636	696.567	5.027E-04	3.608E-04	2.375E-04	1.393E-04	6.972E-05	2.764E-05	1035.827
2688	17 R 51	696.674	1.741E-05	5.373E-06	1.264E-06	2.189E-07	2.336E-08	1.279E-09	2467.684
2689	17 R 54	696.685	9.990E-06	2.920E-06	6.537E-07	1.028E-07	9.898E-09	4.760E-10	3046.403
2690	1 R 36	696.816	1.198E 00	1.075E 00	9.261E-01	7.545E-01	5.694E-01	3.864E-01	519.536
2691	628	697.084	9.014E-04	7.204E-04	5.549E-04	3.860E-04	2.403E-04	1.271E-04	761.624
2692	4 R 35	697.214	5.433E-02	3.669E-02	2.273E-02	1.230E-02	5.271E-03	1.957E-03	1154.372
2693	9 R 35	697.231	3.223E-03	1.635E-03	7.099E-04	2.504E-04	6.644E-05	1.174E-05	1828.412
2694	1 R 41	697.232	2.603E-04	2.206E-04	1.774E-04	1.328E-04	9.026E-05	5.345E-05	651.664
2695	4 M 36	697.251	4.851E-02	3.253E-02	1.974E-02	1.049E-02	4.641E-03	1.583E-03	1188.241
2696	15 R 10	697.282	5.557E-03	3.352E-03	1.792E-03	8.148E-04	2.970E-04	7.892E-05	1431.104
2697	5 M 62	697.324	6.140E-05	2.032E-05	5.283E-06	9.459E-07	1.207E-07	7.791E-09	2808.244
2698	636	697.372	2.923E-04	1.769E-04	9.495E-05	4.377E-05	1.589E-05	4.246E-06	1426.505
2699	4 R 37	697.377	2.141E-05	1.037E-05	4.256E-06	1.401E-06	3.409E-07	5.384E-08	1938.387
2700	14 P 44	697.720	3.128E-06	9.991E-07	2.491E-07	4.460E-08	5.064E-09	3.011E-10	2886.504

LINE	BAND	CUCE	WAVENUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	TEMP	ENERGY
2701	636	4 R 60	697.760	1.147E-05	5.224E-06	1.993E-06	5.994E-07	1.304E-07	1.784E-08	2078.074
2702		3 P 29	697.308	5.304E-02	3.846E-02	2.568E-02	1.532E-02	7.834E-03	3.216E-03	1007.135
2703		8 P 52	697.821	3.929E-05	1.544E-05	4.936E-06	1.158E-06	1.991E-07	1.927E-07	2413.514
2704		10 P 29	697.828	5.313E-05	2.086E-05	6.657E-06	1.612E-06	2.674E-07	2.581E-06	4616.413
2705	628	1 K 40	697.854	7.837E-04	6.240E-04	4.654E-04	3.174E-04	1.927E-04	9.840E-05	745.452
2706		8 P 52	697.894	2.257E-05	8.397E-06	2.512E-06	5.620E-07	8.441E-08	7.175E-09	2540.164
2707	627	1 R 42	698.021	2.290E-04	1.914E-04	1.514E-04	1.111E-04	7.359E-05	4.217E-05	683.434
2708		9 R 36	698.071	2.888E-03	1.847E-03	6.190E-04	2.145E-04	5.543E-05	9.540E-06	1826.591
2709	636	3 P 29	698.229	5.938E-04	4.331E-04	2.937E-04	1.775E-04	9.230E-05	3.870E-05	968.264
2710		17 K 50	698.336	6.839E-06	1.923E-06	4.115E-07	6.112E-08	5.497E-09	2.419E-10	3161.146
2711		1 R 38	698.436	9.553E-01	8.357E-01	6.900E-01	5.577E-01	4.548E-01	2.521E-01	578.013
2712		17 R 53	698.509	1.222E-05	3.638E-06	6.339E-07	1.347E-07	1.397E-08	6.701E-10	3044.571
2713	628	1 R 47	698.625	6.787E-04	5.323E-04	3.898E-04	2.605E-04	1.535E-04	7.569E-05	830.013
2714	627	1 K 43	698.810	2.207E-04	1.654E-04	1.248E-04	9.236E-05	5.963E-05	3.305E-05	715.754
2715		15 K 12	698.853	5.964E-03	3.569E-03	1.890E-03	8.496E-04	3.052E-04	7.462E-05	1449.052
2716		4 R 38	698.874	3.854E-02	2.319E-02	1.483E-02	7.585E-03	3.203E-03	1.028E-03	1246.922
2717		9 R 37	698.930	2.576E-03	1.275E-03	5.371E-04	1.867E-04	4.649E-05	7.711E-06	1885.542
2718		4 R 37	698.930	4.357E-02	2.886E-02	1.728E-02	9.005E-03	3.886E-03	1.291E-03	1216.353
2719		5 R 64	698.963	3.951E-05	1.451E-05	3.092E-06	5.472E-07	6.129E-08	3.573E-09	2407.106
2720	636	1 K 62	699.015	1.911E-04	1.116E-04	5.663E-05	2.433E-05	8.255E-06	1.999E-06	1522.259
2721		4 R 59	699.157	1.432E-05	6.662E-06	2.608E-06	8.099E-07	1.832E-07	2.634E-08	2424.581
2722		18 P 27	699.362	6.153E-05	2.462E-05	8.045E-06	2.009E-06	3.444E-07	3.480E-08	2371.924
2723	628	1 K 46	699.396	5.854E-04	4.521E-04	3.250E-04	2.123E-04	1.217E-04	5.785E-05	865.308
2724	636	4 R 62	699.401	7.482E-06	3.268E-06	1.186E-06	3.356E-07	6.759E-08	8.373E-09	2174.676
2725		3 P 27	699.414	6.144E-02	4.545E-02	3.104E-02	1.905E-02	1.009E-02	4.341E-03	462.027
2726		14 P 47	699.491	4.328E-06	1.429E-06	3.708E-07	6.964E-08	8.409E-09	5.348E-10	2813.233
2727		8 P 53	699.501	3.288E-05	1.249E-05	3.708E-06	9.380E-07	1.508E-07	1.599E-08	2454.958
2728	627	1 R 44	699.601	1.751E-04	1.422E-04	1.086E-04	7.640E-05	4.803E-05	2.572E-05	745.234
2729		8 P 50	699.618	5.587E-04	2.274E-04	7.583E-06	1.937E-06	3.433E-07	3.610E-08	2327.987
2730		9 K 38	699.743	4.288E-04	1.132E-03	4.636E-04	1.547E-04	3.829E-05	6.185E-06	1915.283
2731		3 P 27	699.885	6.879E-04	5.139E-04	3.550E-04	2.208E-04	1.189E-04	5.421E-05	443.700
2732		17 K 58	699.992	4.605E-06	1.245E-06	2.542E-07	3.564E-08	2.985E-09	1.197E-10	3270.599
2733		1 K 40	700.059	7.484E-01	6.374E-01	5.155E-01	3.889E-01	2.688E-01	1.599E-01	634.602
2734		1 K 49	700.147	5.030E-04	3.824E-04	2.698E-04	1.722E-04	9.589E-05	4.392E-05	901.336
2735		17 K 55	700.355	8.433E-06	2.421E-06	5.307E-07	8.120E-08	7.583E-09	3.445E-10	3134.564
2736		1 R 45	700.391	1.521E-04	1.217E-04	9.135E-05	6.287E-05	3.846E-05	1.989E-05	783.273
2737		15 K 14	700.425	6.176E-03	3.664E-03	1.918E-03	8.506E-04	3.005E-04	7.670E-05	1470.119
2738		4 R 40	700.459	3.010E-02	1.915E-02	1.091E-02	5.367E-03	2.157E-03	6.492E-04	1308.673
2739		9 R 39	700.574	2.024E-03	9.754E-04	3.983E-04	1.303E-04	3.447E-05	4.927E-06	1945.746
2740		5 R 66	700.605	2.503E-05	7.587E-06	1.776E-06	2.944E-07	3.040E-08	1.536E-09	3009.060
2741		4 R 39	700.648	3.435E-02	2.216E-02	1.284E-02	6.446E-03	2.654E-03	8.480E-04	1476.450
2742		1 K 64	700.661	1.230E-05	6.840E-05	3.315E-05	1.337E-05	4.912E-06	9.165E-07	1621.111
2743		18 P 25	700.899	6.985E-04	5.501E-06	2.431E-06	2.431E-06	4.316E-07	4.550E-08	2350.565
2744		1 R 50	700.939	4.305E-04	3.202E-04	2.229E-04	1.392E-04	7.214E-05	3.314E-05	938.090
2745		4 K 61	700.992	9.425E-06	4.204E-06	1.568E-06	4.584E-07	9.615E-08	1.255E-08	2123.877

LINE	BAND CODE	WAVELENGTH	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
2746	3 P 25	701.018	6.975E-02	5.254E-02	3.667E-02	2.310E-02	1.465E-02	5.676E-03	921.234
2747	4 K 04	701.044	4.805E-06	2.010E-06	6.923E-07	1.839E-07	3.422E-08	3.828E-09	2271.704
2748	8 P 51	701.108	4.713E-05	1.865E-05	6.155E-06	1.533E-06	2.631E-07	2.656E-08	2374.800
2749	1 K 46	701.182	1.317E-04	1.030E-04	7.646E-05	5.146E-05	3.062E-05	1.528E-05	818.0
2750	14 P 45	701.254	5.891E-06	2.007E-06	5.407E-07	1.064E-07	1.562E-08	4.418E-10	2740.673
2751	8 P 40	701.407	7.810E-05	3.290E-05	1.142E-05	3.060E-06	5.781E-07	6.583E-08	2255.571
2752	9 R 40	701.421	1.783E-03	8.474E-04	3.404E-04	1.032E-04	2.571E-05	3.898E-06	1977.046
2753	3 P 25	701.534	7.810E-04	5.941E-04	4.193E-04	2.678E-04	1.491E-04	6.829E-05	902.315
2754	17 K 60	701.651	3.052E-06	7.924E-07	1.541E-07	2.035E-08	1.582E-09	5.787E-11	3363.901
2755	1 K 42	701.634	5.764E-01	4.772E-01	3.731E-01	2.760E-01	1.759E-01	9.804E-02	764.303
2756	1 K 51	701.711	3.670E-04	2.701E-04	1.833E-04	1.116E-04	5.854E-05	2.480E-05	979.590
2757	1 K 47	701.975	1.135E-04	8.807E-05	6.369E-05	4.190E-05	2.423E-05	1.166E-05	653.603
2758	15 R 16	701.999	6.203E-03	3.639E-03	1.882E-03	8.217E-04	4.847E-04	7.049E-05	1494.368
2759	4 R 42	702.128	2.311E-02	1.429E-02	7.873E-03	3.714E-03	1.417E-03	3.935E-04	1373.544
2760	17 K 57	702.210	5.733E-06	1.583E-06	3.314E-07	4.793E-08	4.171E-09	1.758E-10	3222.662
2761	5 R 08	702.250	1.561E-05	4.520E-06	1.001E-06	1.552E-07	1.473E-08	6.943E-10	3114.106
2762	9 R 41	702.252	1.564E-03	7.329E-04	2.845E-04	9.035E-05	2.088E-05	3.063E-06	2009.173
2763	1 K 66	702.309	7.793E-05	4.145E-05	1.904E-05	7.194E-06	2.079E-06	4.095E-07	1723.058
2764	4 R 41	702.374	2.661E-02	1.670E-02	9.364E-03	4.514E-03	1.770E-03	5.166E-04	1339.661
2765	16 P 23	702.438	7.695E-05	3.217E-05	1.096E-05	2.872E-06	5.259E-07	5.765E-08	2242.320
2766	1 F 52	702.484	3.117E-04	2.256E-04	1.500E-04	8.913E-05	4.536E-05	1.851E-05	1013.817
2767	3 P 23	702.619	7.756E-02	5.440E-02	4.229E-02	2.730E-02	1.542E-02	7.196E-03	882.972
2768	4 R 66	702.688	3.037E-06	1.215E-06	3.967E-07	9.872E-08	1.693E-08	1.705E-09	2375.498
2769	8 P 49	702.715	6.645E-05	2.751E-05	9.362E-06	2.522E-06	4.483E-07	4.907E-08	2243.890
2770	4 R 63	702.733	6.107E-06	2.613E-06	9.251E-07	2.562E-07	4.931E-08	5.623E-09	2221.274
2771	1 R 48	702.767	9.743E-05	7.441E-05	5.280E-05	3.394E-05	1.907E-05	8.837E-06	889.400
2772	14 P 43	703.039	7.885E-06	2.769E-06	7.734E-07	1.591E-07	2.152E-08	1.594E-09	2671.224
2773	9 K 42	703.104	1.366E-03	6.310E-04	2.450E-04	7.537E-05	1.685E-05	2.390E-06	2042.036
2774	3 P 23	703.177	8.684E-04	6.716E-04	4.816E-04	3.165E-04	1.817E-04	8.655E-05	864.052
2775	8 P 46	703.189	1.076E-04	4.677E-05	1.686E-05	4.791E-06	9.505E-07	1.188E-07	2181.273
2776	1 R 53	703.257	2.637E-04	1.876E-04	1.223E-04	7.084E-05	3.495E-05	1.370E-05	1052.776
2777	1 K 44	703.313	4.364E-01	3.508E-01	2.647E-01	1.834E-01	1.132E-01	5.519E-02	772.113
2778	17 R 02	703.315	1.940E-06	4.956E-07	9.162E-08	1.194E-08	8.195E-10	2.706E-11	3600.074
2779	1 R 49	703.560	8.330E-05	6.260E-05	4.357E-05	2.735E-05	1.492E-05	6.654E-06	926.950
2780	15 R 18	703.575	6.061E-03	3.5314E-03	1.791E-03	7.685E-04	2.605E-04	6.307E-05	1521.610
2781	4 R 44	703.759	1.745E-02	1.048E-02	5.568E-03	2.515E-03	9.089E-04	2.389E-04	1441.533
2782	5 K 70	703.900	9.585E-06	2.647E-06	5.342E-07	8.016E-08	6.479E-09	2.942E-10	3222.240
2783	9 R 43	703.936	1.186E-03	5.404E-04	2.063E-04	6.212E-05	1.352E-05	1.852E-06	2075.672
2784	1 K 08	703.960	4.860E-05	2.469E-05	1.074E-05	3.792E-06	1.007E-06	1.782E-07	1826.099
2785	18 P 41	703.980	8.444E-05	3.552E-05	1.232E-05	3.503E-06	6.220E-07	7.176E-08	2237.145
2786	1 K 54	704.030	2.222E-04	1.554E-04	9.019E-05	5.604E-05	2.677E-05	1.008E-05	1042.468
2787	17 K 59	704.076	1.018E-06	2.031E-07	2.031E-07	2.707E-08	2.441E-09	8.601E-11	333.884
2788	4 K 43	704.107	1.236E-02	6.694E-03	3.093E-03	1.503E-03	1.150E-03	3.155E-04	1405.587
2789	3 P 41	704.217	8.436E-02	4.757E-02	3.141E-02	3.141E-02	1.824E-02	8.826E-03	847.827
2790	8 P 47	704.323	9.217E-05	3.944E-05	1.396E-05	3.839E-06	7.458E-07	8.825E-08	2218.032

LINE	BAND CODE	WAVELENGTH	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
2791	636	4 R 68	1.890E-06	7.222E-07	2.231E-07	5.190E-08	8.180E-09	7.394E-10	2481.513
2792	627	1 R 50	7.094E-05	5.244E-05	3.578E-05	2.192E-05	1.160E-05	4.978E-06	964.754
2793	636	4 R 65	3.849E-06	1.595E-06	5.358E-07	1.380E-07	4.471E-08	2.631E-09	2321.772
2794	14 P 41	704.530	1.037E-05	3.750E-06	1.084E-06	3.288E-07	3.319E-08	2.634E-09	2604.860
2795	9 R 44	704.792	1.024E-03	4.615E-04	1.729E-04	5.092E-05	1.078E-05	1.422E-06	2110.054
2796	628	1 R 55	1.865E-04	1.281E-04	8.010E-05	4.409E-05	2.450E-05	7.365E-06	1132.892
2797	636	3 P 21	9.447E-04	7.413E-04	5.441E-04	3.641E-04	1.062E-04	826.510	
2798	2798	1 R 46	3.749E-01	1.841E-01	1.219E-01	7.203E-02	4.561E-02	3.456E-02	853.033
2799	2799	8 P 44	1.456E-04	6.524E-05	2.446E-05	7.203E-06	1.525E-06	2.017E-07	2110.054
2800	2800	17 R 64	1.278E-06	3.047E-07	5.548E-08	6.236E-09	4.147E-10	1.021E-11	3554.262
2801	627	1 R 51	6.018E-05	4.374E-05	2.924E-05	1.748E-05	8.970E-06	3.766E-06	1003.312
2802	2802	15 R 20	5.776E-03	3.304E-03	1.658E-03	6.975E-04	2.508E-04	5.414E-05	1592.044
2803	2803	4 R 46	1.296E-02	7.541E-03	3.862E-03	1.667E-03	5.690E-04	1.390E-04	1512.640
2804	2804	18 P 19	6.972E-05	3.827E-05	1.350E-05	3.693E-06	7.134E-07	8.380E-08	2225.141
2805	2805	5 R 72	5.794E-06	1.524E-06	3.011E-07	4.055E-08	3.230E-09	1.215E-10	3333.400
2806	628	1 R 56	1.560E-04	1.053E-04	6.439E-05	3.452E-05	1.545E-05	5.349E-06	1174.049
2807	636	1 R 70	2.984E-05	1.446E-05	5.941E-06	1.958E-06	4.772E-07	7.552E-08	1936.232
2808	2808	9 R 45	8.876E-04	3.920E-04	1.442E-04	4.152E-05	8.549E-06	1.690E-06	2145.252
2809	2809	3 P 19	8.965E-02	7.069E-02	5.212E-02	3.512E-02	2.093E-02	1.046E-02	815.804
2810	2810	4 R 45	1.519E-02	8.986E-03	4.692E-03	2.074E-03	7.293E-04	1.851E-04	1475.426
2811	2811	8 P 45	1.256E-04	5.554E-05	2.043E-05	5.882E-06	1.211E-06	1.544E-07	2145.252
2812	2812	1 R 52	5.084E-05	3.632E-05	2.379E-05	1.387E-05	6.896E-06	2.732E-06	1042.623
2813	2813	17 R 61	2.524E-06	6.429E-07	1.221E-07	1.568E-08	1.177E-09	4.098E-11	3408.166
2814	636	4 R 70	1.156E-06	4.220E-07	1.232E-07	2.673E-08	3.864E-09	3.124E-10	2589.729
2815	636	4 R 67	2.445E-06	9.573E-07	3.045E-07	7.342E-08	1.210E-08	1.150E-09	2425.367
2816	628	1 R 57	1.300E-04	8.612E-05	5.153E-05	2.689E-05	1.164E-05	3.460E-06	1215.937
2817	636	3 P 19	1.004E-03	7.494E-04	5.962E-04	4.072E-04	2.468E-04	1.254E-04	796.846
2818	2818	9 R 46	7.626E-04	3.315E-04	1.147E-04	3.367E-05	6.736E-06	8.278E-07	2181.273
2819	2819	14 P 39	1.342E-05	4.985E-06	1.490E-06	3.330E-07	4.994E-08	4.238E-09	2541.665
2820	2820	1 R 48	2.379E-01	1.795E-01	1.255E-01	7.929E-02	4.357E-02	1.963E-02	917.061
2821	627	15 R 22	5.378E-03	3.032E-03	1.694E-03	6.155E-04	1.982E-04	4.493E-05	1585.591
2822	2822	8 P 42	1.437E-04	6.949E-05	3.474E-05	1.069E-05	2.390E-06	3.388E-07	2042.030
2823	2823	1 R 53	4.278E-05	3.004E-05	1.927E-05	1.045E-05	5.271E-06	2.004E-06	1082.668
2824	2824	4 R 48	9.465E-03	5.332E-03	2.826E-03	1.081E-03	3.477E-04	7.872E-05	1586.862
2825	2825	18 P 17	9.297E-05	4.016E-05	1.438E-05	4.008E-06	7.922E-07	9.585E-08	2196.307
2826	628	1 R 59	1.079E-04	7.016E-05	4.105E-05	2.085E-05	8.724E-06	2.768E-06	1258.527
2827	2827	5 R 74	3.448E-06	8.630E-07	1.606E-07	2.010E-08	1.461E-09	4.886E-11	3447.765
2828	636	1 R 72	1.804E-05	8.326E-06	3.248E-06	9.708E-07	2.209E-07	3.118E-08	2047.456
2829	2829	9 R 47	6.524E-04	2.791E-04	9.882E-05	2.716E-05	5.276E-06	6.244E-07	2218.032
2830	2830	3 P 17	9.291E-02	7.414E-02	5.553E-02	3.812E-02	2.324E-02	1.197E-02	786.403
2831	627	1 R 54	3.566E-05	2.473E-05	1.553E-05	8.596E-06	4.006E-06	1.460E-06	1123.565
2832	2832	8 P 43	1.687E-04	7.681E-05	4.930E-05	8.206E-06	1.920E-06	2.630E-07	2075.672
2833	2833	4 R 47	1.120E-02	6.415E-03	3.255E-03	1.361E-03	4.515E-04	1.064E-04	1547.976
2834	2834	17 R 63	1.636E-06	3.992E-07	7.406E-08	8.694E-09	6.035E-10	1.901E-11	3505.268
2835	628	1 R 54	8.919E-05	5.692E-05	3.256E-05	1.608E-05	6.501E-06	1.974E-06	1501.910

LINE	BAND	CODE	WAVELENGTH	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
2836	636	3 P 17	708.067	1.041E-03	8.390E-04	6.352E-04	4.419E-04	2.739E-04	1.440E-04	767.992
2837	636	4 R 69	708.140	1.514E-06	5.048E-07	1.699E-07	3.826E-08	5.789E-09	4.966E-10	2532.059
2838	636	9 R 48	708.184	5.559E-04	2.340E-04	8.122E-05	2.179E-05	4.108E-06	4.677E-07	2252.571
2839	636	1 K 50	708.212	1.714E-01	1.250E-01	8.396E-02	5.047E-02	2.608E-02	1.085E-02	544.145
2840	636	14 P 37	708.227	1.705E-05	6.503E-06	2.006E-06	4.658E-07	7.530E-08	6.615E-09	2481.558
2841	627	15 K 24	708.308	4.894E-03	2.718E-03	1.314E-03	5.287E-04	1.653E-04	3.609E-05	1622.457
2842	627	8 P 55	708.328	2.994E-05	1.028E-05	2.466E-05	6.715E-06	3.027E-06	1.057E-06	1165.076
2843	627	4 R 40	708.487	2.535E-04	1.205E-04	4.837E-05	1.551E-05	3.653E-06	5.537E-07	1777.058
2844	627	18 P 15	708.618	9.374E-05	4.094E-05	1.486E-05	4.210E-06	8.494E-07	1.055E-07	2170.545
2845	627	4 R 50	708.667	6.800E-03	3.704E-03	1.752E-03	6.861E-04	2.075E-04	4.336E-05	1664.144
2846	628	1 R 60	708.678	7.347E-05	4.599E-05	2.571E-05	1.235E-05	4.817E-06	1.397E-06	1345.953
2847	628	5 R 76	708.874	2.021E-06	4.805E-07	8.406E-08	9.763E-09	6.461E-10	1.915E-11	3265.152
2848	636	1 R 74	708.928	1.074E-05	4.714E-06	1.721E-06	4.911E-07	9.991E-08	1.294E-08	2161.745
2849	627	3 P 15	708.993	9.369E-02	7.565E-02	5.740E-02	4.005E-02	2.493E-02	1.318E-02	761.126
2850	627	9 R 49	709.016	4.717E-04	1.952E-04	6.643E-05	1.739E-05	3.180E-06	3.480E-07	2253.890
2851	627	1 R 56	709.125	2.490E-05	1.656E-05	9.947E-06	5.219E-06	2.274E-06	7.605E-07	1207.359
2852	627	8 P 41	709.143	2.226E-04	1.043E-04	4.119E-05	1.294E-05	2.970E-06	4.356E-07	2004.173
2853	627	4 R 49	709.250	8.118E-03	4.499E-03	2.174E-03	8.738E-04	2.730E-04	5.949E-05	1623.637
2854	628	1 R 61	709.453	6.029E-05	3.701E-05	2.021E-05	9.430E-06	3.550E-06	9.831E-07	1593.809
2855	636	3 P 15	709.683	1.049E-03	8.555E-04	6.565E-04	4.643E-04	2.938E-04	1.586E-04	742.218
2856	627	17 R 65	709.737	1.043E-06	2.437E-07	4.174E-08	4.722E-09	3.024E-10	8.594E-12	3606.068
2857	627	1 R 52	709.850	1.214E-01	8.553E-02	5.508E-02	3.145E-02	1.524E-02	5.841E-03	1076.435
2858	627	9 R 50	709.888	3.987E-04	1.622E-04	5.407E-05	1.381E-05	2.447E-06	4.573E-07	2322.947
2859	627	15 R 26	709.889	4.371E-03	2.383E-03	1.128E-03	4.425E-04	1.340E-04	2.809E-05	1662.041
2860	627	1 R 57	709.921	2.063E-05	1.346E-05	7.907E-06	4.035E-06	1.699E-06	5.435E-07	1250.476
2861	627	14 P 35	709.950	2.129E-05	8.323E-06	2.645E-06	6.369E-07	1.049E-07	1.004E-08	2424.567
2862	627	18 P 13	710.168	9.165E-05	4.043E-05	1.485E-05	4.267E-06	8.767E-07	1.115E-07	2147.904
2863	628	1 R 62	710.229	4.929E-05	2.966E-05	1.581E-05	7.167E-06	2.601E-06	6.875E-07	1436.355
2864	627	8 P 38	710.236	3.200E-04	1.592E-04	6.601E-05	2.202E-05	5.448E-06	8.799E-07	1915.283
2865	627	4 R 52	710.308	4.807E-03	2.528E-03	1.146E-03	4.264E-04	1.209E-04	2.327E-05	1744.650
2866	627	5 R 78	710.540	1.166E-06	2.631E-07	4.321E-08	4.644E-09	2.793E-10	7.314E-12	3605.614
2867	627	3 P 13	710.579	9.162E-02	7.471E-02	5.735E-02	4.060E-02	2.573E-02	1.393E-02	738.472
2868	627	4 R 76	710.590	6.291E-06	4.624E-06	9.011E-07	2.385E-07	4.417E-08	4.914E-09	2279.169
2869	627	1 R 58	710.719	1.702E-05	1.090E-05	6.256E-06	3.104E-06	1.662E-06	3.659E-07	1294.304
2870	627	9 R 51	710.719	3.356E-04	1.342E-04	4.380E-05	1.090E-05	1.872E-06	1.889E-07	2372.866
2871	627	8 P 39	710.748	2.887E-04	1.391E-04	5.677E-05	1.457E-05	4.484E-06	7.618E-07	1445.796
2872	627	1 R 63	711.005	4.014E-05	2.368E-05	1.232E-05	5.421E-06	1.896E-06	4.778E-07	1482.633
2873	627	4 R 51	711.111	5.786E-03	3.100E-03	1.437E-03	5.494E-04	1.611E-04	3.239E-05	1702.407
2874	636	3 P 13	711.293	1.026E-03	8.449E-04	6.560E-04	4.707E-04	3.033E-04	1.475E-04	714.566
2875	636	15 R 28	711.470	3.821E-03	2.045E-03	9.466E-04	3.612E-04	1.057E-04	2.120E-05	1704.941
2876	627	1 R 54	711.491	8.466E-02	5.750E-02	3.544E-02	1.919E-02	8.694E-03	3.650E-03	1157.774
2877	627	1 R 59	711.516	1.394E-05	8.704E-06	4.926E-06	2.376E-06	9.521E-07	2.721E-07	1538.885
2878	627	9 R 52	711.597	2.813E-04	1.105E-04	3.526E-05	8.566E-06	1.423E-06	1.377E-07	4413.519
2879	627	14 P 33	711.605	2.610E-05	1.045E-05	3.414E-06	8.511E-07	1.463E-07	1.460E-08	2376.694
2880	627	16 P 11	711.720	8.648E-05	3.847E-05	1.427E-05	4.153E-06	8.667E-07	1.124E-07	2126.386

LINE	BAND	CWLT	WAVELENGTH	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
2881	628	1 R 64	711.781	3.257E-05	1.882E-05	9.555E-06	4.080E-06	1.374E-06	3.300E-07	1529.641
2882		4 K 54	711.951	3.343E-03	1.649E-03	7.357E-04	2.594E-04	6.881E-05	1.415E-05	1828.213
2883		6 P 36	711.977	4.121E-04	2.064E-04	8.026E-05	3.056E-05	7.926E-06	1.360E-06	1856.541
2884		3 P 11	712.162	8.646E-02	3.310E-02	5.541E-02	3.952E-02	2.544E-02	1.405E-02	718.943
2885		1 P 78	712.253	3.630E-06	1.437E-06	4.631E-07	1.135E-07	1.909E-08	1.876E-09	2399.254
2886		1 R 60	712.315	1.146E-05	7.051E-06	3.862E-06	1.804E-06	6.845E-07	1.508E-07	1384.214
2887		8 P 37	712.353	3.681E-04	1.820E-04	7.667E-05	2.606E-05	6.504E-06	1.100E-06	1865.542
2888		9 R 53	712.426	2.349E-04	9.062E-05	2.834E-05	6.653E-06	1.076E-06	9.577E-08	2454.950
2889		1 K 65	712.553	2.633E-05	1.490E-05	7.378E-06	3.056E-06	9.908E-07	2.265E-07	1577.581
2890		4 K 53	712.880	4.062E-03	2.099E-03	9.323E-04	3.381E-04	5.284E-05	1.716E-05	1784.285
2891		3 P 11	712.896	9.683E-04	8.041E-04	4.582E-04	2.582E-04	2.998E-04	1.690E-04	700.038
2892		15 K 30	713.053	3.277E-03	1.716E-03	7.766E-04	2.877E-04	8.117E-05	1.552E-05	1750.461
2893		1 R 61	713.113	9.345E-06	5.637E-06	3.014E-06	1.371E-06	4.999E-07	1.329E-07	1430.304
2894		1 R 56	713.134	5.807E-02	3.798E-02	2.238E-02	1.146E-02	4.849E-03	1.561E-03	1244.225
2895		12 P 54	713.235	1.167E-06	3.299E-07	7.107E-08	1.064E-08	9.679E-10	4.317E-11	1167.384
2896		18 P 9	713.273	7.815E-05	3.501E-05	1.310E-05	3.853E-06	8.145E-07	1.075E-07	211.954
2897		5 R 54	713.311	1.954E-04	7.394E-05	2.263E-05	5.203E-06	8.085E-07	7.180E-08	2497.105
2898		2 K 66	713.334	2.121E-05	1.175E-05	5.672E-06	2.277E-06	7.103E-07	1.545E-07	1625.851
2899		14 P 31	713.371	3.742E-05	1.286E-05	4.312E-06	1.111E-06	1.989E-07	2.114E-08	2319.938
2900		4 R 56	713.597	2.288E-03	1.117E-03	4.633E-04	1.546E-04	3.825E-05	6.180E-06	1914.886
2901		8 P 34	713.709	5.119E-04	2.626E-04	1.156E-04	4.148E-05	1.124E-05	2.042E-06	1801.023
2902		3 P 9	713.741	7.814E-02	6.472E-02	5.067E-02	3.666E-02	2.391E-02	1.343E-02	702.537
2903		1 R 62	713.912	7.593E-06	4.887E-06	2.341E-06	1.033E-06	3.630E-07	9.197E-08	1477.141
2904		1 R 80	713.919	2.062E-06	7.234E-07	2.337E-07	5.291E-08	8.063E-09	6.979E-10	2523.222
2905		6 P 35	713.957	4.611E-04	2.338E-04	1.014E-04	3.577E-05	9.486E-06	1.675E-06	1828.412
2906		3 Q 66	714.002	1.327E-06	3.124E-07	5.402E-08	6.185E-09	4.021E-10	1.165E-11	3587.179
2907		12 P 53	714.047	1.407E-06	4.051E-07	8.922E-08	1.373E-08	1.291E-09	6.014E-11	3125.115
2908		1 R 67	714.111	1.702E-05	9.227E-06	4.341E-06	1.689E-06	5.065E-07	1.047E-07	1675.051
2909		9 R 55	714.139	1.618E-04	6.014E-05	1.799E-05	4.023E-06	6.039E-07	5.132E-08	2540.164
2910		3 U 84	714.281	2.455E-06	6.127E-07	1.136E-07	1.416E-08	1.624E-09	3.402E-11	3454.645
2911		3 Q 70	714.316	1.321E-06	4.814E-07	1.405E-07	3.048E-08	4.404E-09	3.560E-10	2584.729
2912		3 P 9	714.491	8.751E-04	7.319E-04	5.790E-04	4.250E-04	2.818E-04	1.615E-04	683.634
2913		3 Q 82	714.520	4.474E-06	1.182E-06	2.347E-07	3.177E-08	2.549E-09	9.279E-11	3223.496
2914		15 R 32	714.636	2.758E-03	1.415E-03	6.234E-04	2.238E-04	6.071E-05	1.104E-05	1800.096
2915		4 R 55	714.656	2.805E-03	1.397E-03	5.933E-04	2.038E-04	5.230E-05	8.855E-06	1869.276
2916		3 Q 68	714.705	2.141E-06	8.255E-07	2.549E-07	5.428E-08	9.340E-09	8.440E-10	2481.313
2917		1 K 63	714.711	6.145E-06	3.557E-06	1.810E-06	7.751E-07	2.621E-07	6.323E-08	1524.750
2918		3 Q 80	714.777	8.030E-06	2.251E-06	4.753E-07	6.984E-08	6.203E-09	2.682E-10	3197.032
2919		1 R 58	714.780	3.920E-02	2.466E-02	6.704E-02	6.704E-02	2.640E-03	7.750E-04	1333.774
2920		16 P 7	714.829	6.674E-05	3.009E-05	1.134E-05	3.363E-06	7.185E-07	9.669E-08	2098.717
2921		1 R 68	714.888	1.360E-05	7.218E-06	3.308E-06	1.246E-06	3.592E-07	7.056E-08	1724.982
2922		12 P 52	714.902	1.689E-06	4.955E-07	1.115E-07	1.762E-08	1.073E-09	8.327E-11	3083.585
2923		9 K 56	715.030	1.335E-04	4.868E-05	1.423E-05	3.094E-06	4.486E-07	3.644E-08	2583.925
2924		3 Q 78	715.031	1.419E-05	4.180E-06	9.459E-07	1.504E-07	1.475E-08	7.248E-10	3073.157
2925		14 P 20	715.068	3.712E-05	1.551E-05	5.334E-06	1.416E-06	2.633E-07	2.546E-08	2272.301

LINE	BAND CODE	WAVELENGTH	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
2926	636	3 U 66	3.478E-06	1.391E-06	4.539E-07	1.129E-07	1.935E-08	1.949E-09	2375.448
2927		4 R 58	1.541E-03	7.233E-04	2.862E-04	9.016E-05	2.077E-05	3.059E-06	2004.669
2928		3 U 76	2.469E-05	1.849E-06	1.849E-06	3.175E-07	3.429E-08	1.907E-09	2952.371
2929		3 P 7	6.679E-02	5.563E-02	4.381E-02	3.200E-02	2.110E-02	1.201E-02	689.256
2930		8 P 32	0.245E-04	3.778E-04	1.648E-04	5.502E-05	1.552E-05	2.981E-06	1748.581
2931	636	3 U 64	5.511E-06	2.304E-06	7.933E-07	2.106E-07	3.918E-08	4.362E-09	2273.784
2932	627	1 R 64	4.559E-06	2.808E-06	1.593E-06	5.784E-07	1.822E-07	4.320E-08	1573.070
2933		3 U 74	4.231E-05	1.383E-05	3.244E-06	6.566E-07	7.790E-08	4.890E-09	2834.678
2934		8 P 33	5.675E-04	2.945E-04	1.115E-04	4.798E-05	1.329E-05	2.460E-06	1774.407
2935	636	1 R 82	1.154E-06	4.095E-07	1.158E-07	2.417E-08	3.329E-09	2.530E-10	2649.871
2936	628	1 R 69	1.083E-05	5.623E-06	2.510E-06	9.155E-07	2.533E-07	4.744E-08	1775.643
2937		12 P 51	2.020E-06	6.031E-07	1.586E-07	2.248E-08	2.258E-09	1.145E-10	3042.875
2938		3 Q 72	7.134E-05	2.452E-05	6.672E-06	1.330E-06	1.729E-07	1.221E-08	2720.078
2939	636	3 Q 62	8.595E-06	3.752E-06	1.360E-06	3.849E-07	7.749E-08	9.596E-09	2174.676
2940		9 R 57	1.097E-04	3.923E-05	1.120E-05	2.367E-06	3.312E-07	2.570E-08	2628.483
2941		3 Q 70	1.185E-04	4.274E-05	1.233E-05	2.640E-06	3.752E-07	2.971E-08	2608.575
2942	636	3 P 7	7.480E-04	6.292E-04	5.012E-04	3.710E-04	2.486E-04	1.445E-04	670.355
2943	636	3 U 60	1.319E-05	6.005E-06	2.290E-06	6.888E-07	1.497E-07	2.046E-08	2078.672
2944		15 R 34	2.278E-04	1.143E-03	4.898E-04	1.700E-04	4.424E-05	7.621E-06	1852.347
2945		3 Q 68	1.937E-04	7.325E-05	2.237E-05	5.132E-06	7.954E-07	7.042E-08	2500.169
2946	627	1 R 65	3.980E-06	2.208E-06	1.067E-06	4.295E-07	1.343E-07	2.932E-08	1622.161
2947		18 P 5	5.272E-05	2.386E-05	9.036E-06	2.697E-06	5.810E-07	7.852E-08	2086.567
2948		1 R 60	1.573E-02	1.573E-02	8.424E-03	3.840E-03	1.404E-03	3.748E-04	1428.422
2949		4 R 57	716.438	9.132E-04	3.704E-04	1.203E-04	2.877E-05	4.449E-06	1957.360
2950	628	1 R 70	8.598E-06	4.363E-06	1.896E-06	6.691E-07	1.777E-07	3.143E-08	1827.033
2951		3 Q 66	716.500	1.234E-04	3.982E-05	9.772E-06	1.648E-06	1.625E-07	2394.863
2952	636	3 Q 58	716.510	9.442E-05	3.781E-06	1.207E-06	2.826E-07	4.249E-08	1985.776
2953		12 P 50	716.571	7.311E-07	1.716E-07	2.855E-08	2.961E-09	1.564E-10	3062.906
2954		3 Q 64	716.732	2.044E-04	6.957E-05	1.823E-05	3.335E-06	3.854E-07	2292.656
2955		9 R 58	716.754	3.148E-05	8.778E-06	1.802E-06	2.432E-07	1.801E-08	2673.758
2956		14 P 27	716.757	1.831E-05	6.449E-06	1.781E-06	3.394E-07	3.575E-08	2227.184
2957	636	3 U 56	716.841	1.460E-05	6.125E-06	2.071E-06	5.209E-07	8.589E-08	1895.989
2958		3 P 5	716.889	4.411E-02	3.422E-02	2.587E-02	1.706E-02	9.814E-03	679.100
2959		4 R 60	716.895	4.604E-04	1.735E-04	5.151E-05	1.101E-05	1.475E-06	2047.570
2960		3 Q 62	716.960	3.328E-04	1.193E-04	3.330E-05	6.594E-06	8.000E-07	2193.557
2961	627	1 R 66	717.111	1.728E-06	8.142E-07	3.173E-07	9.536E-08	1.976E-08	1672.004
2962		0 P 30	717.147	4.011E-04	1.862E-04	7.131E-05	4.047E-05	4.277E-06	1699.262
2963		8 P 31	717.160	3.640E-04	1.609E-04	6.290E-05	1.814E-05	3.567E-06	1723.526
2964	636	3 Q 54	717.162	2.217E-05	9.734E-06	3.478E-06	9.378E-07	1.690E-07	1809.311
2965		3 Q 60	717.184	5.325E-04	2.007E-04	5.957E-05	1.274E-05	1.706E-06	2097.560
2966	628	1 R 71	717.219	3.372E-06	1.625E-06	4.867E-07	1.240E-07	2.078E-08	1879.154
2967		12 P 49	717.388	6.822E-07	2.114E-07	3.605E-08	3.858E-09	2.121E-10	2963.755
2968		3 Q 58	717.402	8.373E-04	3.313E-04	1.044E-04	2.404E-05	3.541E-06	2114.669
2969	636	3 L 52	717.473	3.309E-05	1.517E-05	5.720E-06	1.644E-06	3.238E-07	1725.745
2970		9 R 59	717.577	2.515E-05	6.845E-06	1.365E-06	1.774E-07	1.233E-08	2719.914

LINE	BAND CODE	WAVE NUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
2971	J U 56	717.615	2.651E-03	1.294E-03	5.467E-04	1.790E-04	6.430E-05	7.157E-06	1414.886
2972	J P 5	717.662	5.048E-04	6.988E-04	3.994E-04	2.976E-04	2.010E-04	1.181E-04	660.195
2973	J Q 50	717.773	8.842E-05	4.851E-04	2.320E-05	9.208E-06	4.830E-06	6.038E-07	1845.292
2974	L R 36	717.806	1.849E-03	9.052E-04	3.768E-04	1.631E-04	3.143E-05	5.114E-06	1907.713
2975	J Q 54	717.823	3.876E-03	1.965E-03	8.528E-04	3.077E-04	7.974E-05	1.406E-05	1828.213
2976	L Q 60	717.871	1.181E-06	2.878E-07	5.187E-08	6.249E-09	4.330E-10	1.361E-11	3507.534
2977	L R 67	717.912	2.538E-06	1.348E-06	6.182E-07	2.322E-07	6.732E-08	1.425E-08	1722.548
2978	L P J	717.945	3.644E-05	1.654E-05	6.287E-06	1.889E-06	4.083E-07	5.258E-08	2081.540
2979	L R 72	717.996	5.354E-06	2.595E-06	1.067E-06	3.523E-07	8.602E-08	1.266E-08	1932.004
2980	L Q 58	718.012	1.783E-06	4.546E-07	8.565E-08	1.092E-08	8.172E-10	2.827E-11	3414.597
2981	J Q 52	718.026	5.577E-03	2.932E-03	1.229E-03	4.943E-04	1.402E-04	2.697E-05	1744.650
2982	J U 48	718.063	1.228E-04	6.986E-05	3.479E-05	1.421E-05	4.743E-06	1.096E-06	1567.953
2983	L R 62	718.077	1.703E-02	9.864E-03	5.024E-03	2.154E-03	7.297E-04	1.765E-04	1522.168
2984	L Q 56	718.151	2.650E-06	6.998E-07	1.487E-07	1.879E-08	1.506E-09	5.714E-11	3324.771
2985	J Q 50	718.222	7.892E-03	4.297E-03	2.032E-03	7.956E-04	2.406E-04	5.628E-05	1684.199
2986	L R 59	718.227	1.274E-03	5.868E-04	2.269E-04	6.920E-05	1.545E-05	2.176E-06	2048.553
2987	L P 48	718.241	3.374E-06	1.060E-06	2.591E-07	4.292E-08	4.998E-09	4.898E-10	2925.350
2988	L Q 54	718.286	3.875E-06	1.062E-06	2.205E-07	3.196E-08	2.712E-09	1.125E-10	3236.058
2989	J U 46	718.342	1.682E-04	5.880E-05	5.115E-05	2.237E-05	7.760E-06	1.935E-06	1493.729
2990	J U 48	718.413	1.099E-02	6.187E-03	3.046E-03	1.253E-03	4.031E-04	9.123E-05	1586.862
2991	L Q 52	718.419	5.576E-06	1.585E-06	3.437E-07	5.189E-08	4.768E-09	2.155E-10	3134.459
2992	L P 25	718.437	4.883E-05	2.117E-05	7.618E-06	2.136E-06	4.255E-07	5.200E-08	2186.388
2993	J P 3	718.458	3.644E-02	3.058E-02	2.430E-02	1.794E-02	1.199E-02	6.948E-03	672.068
2994	L R 60	718.484	5.943E-06	2.001E-05	5.314E-06	1.028E-06	1.488E-07	8.867E-09	2766.780
2995	L Q 50	718.548	7.891E-06	2.524E-06	5.255E-07	8.353E-08	6.184E-09	4.017E-10	3073.974
2996	L R 62	718.548	6.663E-04	2.880E-04	1.032E-04	2.882E-05	5.707E-06	6.924E-07	2193.557
2997	J Q 46	718.598	1.504E-02	8.749E-03	4.679E-03	1.932E-03	6.594E-04	1.611E-04	1512.640
2998	J Q 44	718.611	2.265E-04	1.372E-04	7.374E-05	3.374E-05	1.239E-05	3.235E-06	1422.621
2999	L R 48	718.674	1.049E-05	3.346E-06	7.879E-07	1.316E-07	1.372E-08	7.290E-10	2996.806
3000	L R 68	718.713	2.015E-06	1.046E-06	4.673E-07	1.708E-07	4.726E-08	8.826E-09	1773.442
3001	L P 29	718.760	8.140E-04	4.410E-04	2.073E-04	8.055E-05	2.413E-05	4.984E-06	1675.776
3002	L R 73	718.773	4.202E-06	1.990E-06	7.956E-07	2.537E-07	5.936E-08	8.520E-09	1985.583
3003	J Q 44	718.776	2.025E-02	1.215E-02	6.455E-03	2.914E-03	1.053E-03	2.766E-04	1441.533
3004	L R 46	718.796	1.504E-05	4.732E-06	1.158E-06	2.029E-07	2.244E-08	1.267E-09	2922.355
3005	L P 28	718.853	8.795E-04	4.812E-04	2.289E-04	9.025E-05	2.753E-05	5.821E-06	1653.077
3006	J Q 42	718.868	2.998E-05	1.871E-06	1.042E-06	4.979E-07	1.931E-05	5.253E-06	1324.632
3007	L Q 44	718.914	2.025E-04	6.571E-06	1.670E-06	3.060E-07	3.583E-08	2.211E-09	2821.222
3008	J Q 42	718.948	2.680E-02	1.657E-02	9.119E-03	4.300E-03	1.640E-03	4.622E-04	1373.544
3009	L Q 42	719.029	2.680E-05	8.959E-06	2.359E-06	4.516E-07	5.582E-08	3.094E-09	2783.209
3010	L P 47	719.060	3.970E-06	1.268E-06	3.160E-07	5.659E-08	6.434E-09	3.884E-10	2687.759
3011	J Q 40	719.113	3.487E-02	2.217E-02	1.263E-02	6.206E-03	2.493E-03	7.509E-04	1308.673
3012	J Q 40	719.114	3.901E-04	2.505E-04	1.463E-04	7.187E-05	2.935E-05	9.024E-06	4284.760
3013	L Q 40	719.134	3.467E-05	1.199E-05	3.264E-06	6.518E-07	8.486E-08	6.603E-09	2718.316
3014	J P 3	719.237	4.081E-04	3.455E-04	2.179E-04	2.080E-04	1.415E-04	8.357E-05	653.169
3015	L Q 19	719.245	4.459E-05	1.159E-05	4.431E-06	9.159E-07	1.258E-07	1.485E-09	2656.544

LINE	BOND CODE	WAVENUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
3016	3 Q 38	719.271	4.459E-02	2.912E-02	1.713E-02	8.758E-03	3.696E-03	1.186E-03	1446.922
3017	9 R 61	719.303	4.806E-05	1.585E-05	4.105E-06	7.703E-07	9.287E-08	5.952E-09	2814.455
3018	18 Q 36	719.346	5.601E-05	2.030E-05	5.898E-06	1.269E-06	1.819E-07	1.457E-08	2597.895
3019	3 C 38	719.349	4.989E-04	3.290E-04	1.957E-04	1.014E-04	4.321E-05	1.426E-05	1428.009
3020	15 R 38	719.392	1.474E-03	7.032E-04	2.840E-04	9.166E-05	2.177E-05	3.336E-06	1966.193
3021	3 Q 36	719.422	5.601E-02	3.753E-02	2.276E-02	1.208E-02	5.344E-03	1.822E-03	1188.251
3022	18 Q 34	719.443	6.911E-05	4.566E-05	2.763E-06	1.711E-06	2.564E-07	2.174E-08	2344.369
3023	18 P 1	719.505	1.861E-05	8.461E-06	3.222E-06	9.686E-07	2.104E-07	2.876E-08	2077.656
3024	1 R 69	719.516	1.594E-06	8.091E-07	3.516E-07	1.242E-07	3.299E-08	5.840E-09	1826.037
3025	18 Q 32	719.535	8.372E-05	3.180E-05	9.761E-06	2.254E-06	3.522E-07	3.151E-08	2489.966
3026	1 R 74	719.551	3.285E-06	1.519E-06	5.905E-07	1.819E-07	4.074E-08	5.790E-09	2039.891
3027	3 Q 34	719.566	6.910E-02	4.744E-02	2.922E-02	1.629E-02	7.532E-03	2.718E-03	1132.781
3028	3 Q 36	719.573	6.267E-04	4.240E-04	2.601E-04	1.400E-04	6.293E-05	2.189E-05	1169.378
3029	18 Q 30	719.623	9.952E-05	3.862E-05	1.217E-05	2.899E-06	4.712E-07	4.434E-08	2440.688
3030	3 Q 32	719.702	8.371E-02	5.879E-02	3.773E-02	2.146E-02	1.034E-02	3.940E-03	1080.394
3031	18 Q 28	719.705	1.161E-04	4.595E-05	1.483E-05	3.639E-06	6.138E-07	6.057E-08	4394.536
3032	1 R 64	719.729	1.096E-02	6.080E-03	2.940E-03	1.144E-03	3.704E-04	8.094E-05	1621.011
3033	18 Q 26	719.782	1.327E-04	5.352E-05	1.766E-05	4.456E-06	7.786E-07	8.022E-08	2351.565
3034	3 Q 34	719.785	7.733E-04	5.360E-04	3.385E-04	1.887E-04	8.870E-05	3.267E-05	1113.669
3035	3 Q 30	719.831	9.952E-02	7.140E-02	4.702E-02	2.760E-02	1.384E-02	5.545E-03	1031.130
3036	18 Q 24	719.854	1.485E-04	6.098E-05	2.055E-05	5.318E-06	9.583E-07	1.030E-07	2311.610
3037	12 P 46	719.912	4.652E-06	1.510E-06	3.837E-07	7.034E-08	8.236E-09	5.085E-10	2850.917
3038	18 Q 22	719.921	1.427E-04	6.789E-05	4.342E-05	6.179E-06	1.147E-06	1.460E-07	2274.837
3039	3 C 28	719.953	1.160E-01	8.496E-02	5.731E-02	3.464E-02	1.803E-02	7.573E-03	984.990
3040	18 Q 20	719.982	1.742E-04	7.377E-05	2.579E-05	6.982E-06	1.331E-06	1.538E-07	2241.142
3041	3 Q 32	719.986	9.369E-04	6.644E-04	4.213E-04	2.486E-04	1.218E-04	4.734E-05	1081.482
3042	4 R 61	720.023	8.388E-04	3.707E-04	1.364E-04	5.934E-05	8.122E-06	1.037E-06	2142.849
3043	3 P 1	720.023	1.861E-02	1.564E-02	1.245E-02	9.219E-03	6.180E-03	3.595E-03	668.162
3044	18 Q 18	720.036	1.820E-04	7.810E-05	2.774E-05	7.659E-06	1.496E-06	1.783E-07	2210.676
3045	3 Q 26	720.066	1.326E-01	9.895E-02	6.827E-02	4.242E-02	2.284E-02	1.111E-02	941.974
3046	18 Q 16	720.089	1.852E-04	8.039E-05	2.897E-05	8.139E-06	1.625E-06	1.592E-07	2162.288
3047	14 P 23	720.108	5.429E-05	2.394E-05	8.787E-06	2.525E-06	5.185E-07	6.591E-08	2146.113
3048	18 Q 14	720.133	1.828E-04	8.042E-05	4.928E-05	8.353E-06	1.701E-06	2.138E-07	2159.029
3049	3 Q 24	720.172	1.485E-01	1.127E-01	7.942E-01	5.062E-02	2.814E-02	1.267E-02	902.084
3050	18 Q 12	720.173	1.744E-04	7.724E-05	2.850E-05	8.444E-06	1.707E-06	2.192E-07	2137.506
3051	3 Q 30	720.175	1.114E-03	8.071E-04	5.375E-04	3.196E-04	1.630E-04	6.666E-05	1012.219
3052	4 R 64	720.203	4.279E-04	1.771E-04	6.028E-05	1.579E-05	2.889E-06	3.166E-07	2492.658
3053	18 Q 10	720.206	1.597E-05	7.129E-05	2.656E-05	7.770E-06	1.632E-06	2.135E-07	2119.900
3054	9 R 62	720.218	3.872E-05	1.250E-05	3.157E-06	5.744E-07	6.662E-08	4.062E-09	2862.871
3055	18 Q 8	720.234	1.389E-04	6.238E-05	2.342E-05	6.917E-06	1.470E-06	1.954E-07	2105.030
3056	18 Q 6	720.256	1.123E-04	5.073E-05	1.916E-05	5.702E-06	1.223E-06	1.645E-07	2053.251
3057	3 Q 22	720.270	1.627E-01	1.255E-01	9.013E-02	5.882E-02	3.068E-02	1.600E-02	665.340
3058	18 Q 4	720.272	8.106E-05	3.674E-05	1.394E-05	4.171E-06	9.012E-07	1.223E-07	2684.682
3059	18 Q 2	720.282	4.623E-05	2.100E-05	7.993E-06	2.400E-06	5.208E-07	7.106E-08	2079.203
3060	1 R 70	720.316	1.256E-06	6.231E-07	2.634E-07	8.991E-08	2.290E-08	3.840E-09	1878.682

LINE	BAND CODE	WAVE NUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
3061	628	1 R 75	2.560E-06	1.156E-06	4.363E-07	1.248E-07	2.781E-06	3.735E-09	2094.928
3062	636	3 Q 28	1.299E-03	9.603E-04	6.552E-04	4.015E-04	2.123E-04	9.105E-05	966.080
3063	636	6 P 27	9.479E-04	5.236E-04	2.519E-04	1.067E-04	5.127E-05	6.761E-06	1631.152
3064	636	3 L 20	1.742E-01	1.364E-01	9.967E-02	6.646E-02	3.909E-02	1.922E-02	831.683
3065	636	3 Q 14	7.820E-01	1.444E-01	1.072E-01	7.290E-02	4.394E-02	2.250E-02	601.174
3066	636	3 Q 16	1.852E-01	1.480E-01	1.120E-01	7.747E-02	4.773E-02	2.491E-02	773.742
3067	636	3 Q 26	1.485E-03	1.119E-03	7.806E-04	4.916E-04	2.691E-04	1.206E-04	923.065
3068	636	8 P 26	1.015E-03	5.650E-04	2.715E-04	1.115E-04	3.521E-05	7.780E-06	1610.016
3069	636	3 Q 14	1.826E-01	1.483E-01	1.131E-01	7.951E-02	4.994E-02	2.672E-02	744.538
3070	636	3 C 12	1.744E-01	1.428E-01	1.102E-01	7.646E-02	5.012E-02	2.741E-02	728.413
3071	636	3 Q 44	1.663E-03	1.274E-03	9.081E-04	5.867E-04	3.316E-04	1.548E-04	883.176
3072	636	3 Q 10	1.597E-01	1.316E-01	1.026E-01	7.395E-02	4.742E-02	2.670E-02	710.417
3073	636	3 Q 8	1.389E-01	1.153E-01	9.052E-02	6.584E-02	4.310E-02	2.442E-02	695.550
3074	636	12 P 45	5.429E-06	1.790E-06	4.635E-07	8.644E-08	1.048E-08	6.714E-10	2814.866
3075	636	3 Q 6	1.123E-01	9.378E-02	7.406E-02	5.428E-02	3.543E-02	2.057E-02	683.613
3076	636	3 Q 4	8.106E-02	6.792E-02	5.388E-02	3.970E-02	2.646E-02	1.528E-02	675.266
3077	636	3 Q 2	4.623E-02	3.883E-02	3.089E-02	2.284E-02	1.529E-02	8.863E-03	669.728
3078	636	3 P 1	2.084E-04	1.769E-04	1.425E-04	1.069E-04	7.283E-05	4.324E-05	649.263
3079	636	3 Q 22	1.842E-03	1.419E-03	1.031E-03	6.817E-04	3.968E-04	1.924E-04	843.414
3080	636	3 Q 20	1.951E-03	1.542E-03	1.140E-03	7.703E-04	4.605E-04	2.312E-04	812.778
3081	636	15 R 40	1.154E-03	5.363E-04	2.047E-04	8.506E-05	1.471E-05	2.116E-06	2027.786
3082	636	9 R 63	3.107E-05	9.817E-06	2.416E-06	4.259E-07	4.749E-08	2.753E-09	2912.105
3083	636	3 Q 18	2.038E-03	1.633E-03	1.226E-03	8.450E-04	5.177E-04	2.681E-04	782.269
3084	636	3 R 76	1.947E-04	8.753E-07	3.210E-07	9.214E-08	1.849E-08	2.345E-09	2150.694
3085	636	3 Q 16	2.073E-03	1.661E-03	1.281E-03	8.980E-04	5.624E-04	2.946E-04	754.888
3086	636	3 Q 14	2.047E-03	1.677E-03	1.294E-03	9.217E-04	5.885E-04	3.214E-04	730.635
3087	636	3 Q 12	1.753E-03	1.615E-03	1.260E-03	9.096E-04	5.908E-04	3.296E-04	709.511
3088	636	1 R 66	6.942E-03	3.684E-03	1.689E-03	6.369E-04	1.837E-04	3.615E-05	1722.950
3089	636	3 Q 10	1.789E-03	1.490E-03	1.174E-03	8.573E-04	5.648E-04	3.211E-04	691.516
3090	636	3 Q 8	1.555E-03	1.304E-03	1.035E-03	7.633E-04	5.088E-04	2.937E-04	676.650
3091	636	3 Q 6	1.258E-03	1.061E-03	8.471E-04	6.274E-04	4.234E-04	2.474E-04	664.913
3092	636	3 Q 4	9.078E-04	7.681E-04	6.163E-04	4.603E-04	3.119E-04	1.838E-04	656.306
3093	636	3 Q 2	5.178E-04	4.392E-04	3.534E-04	2.648E-04	1.802E-04	1.068E-04	650.829
3094	636	12 P 44	6.310E-06	2.112E-06	5.525E-07	1.069E-07	1.325E-08	8.803E-10	2774.608
3095	636	14 P 21	5.906E-06	2.644E-06	9.885E-07	2.905E-07	6.135E-08	8.085E-09	2112.961
3096	636	4 R 63	5.411E-04	1.302E-04	8.050E-05	2.181E-05	4.160E-06	4.810E-07	2240.245
3097	636	18 R 1	721.849	2452E-06	1.617E-06	4.859E-07	1.056E-07	1.443E-08	2077.636
3098	636	4 R 66	2.70E-03	0.71E-04	3.454E-05	8.776E-06	1.429E-06	1.410E-07	2594.803
3099	628	1 R 77	721.882	6.605E-07	2.352E-07	6.509E-08	1.275E-08	1.524E-09	2207.189
3100	636	8 P 25	1.083E-03	6.069E-04	2.993E-04	1.229E-04	3.944E-05	8.500E-06	1589.655
3101	636	9 R 64	721.958	2.484E-05	1.841E-06	3.143E-07	3.367E-07	1.854E-09	1462.070
3102	636	4 R 24	1.147E-03	6.509E-04	3.232E-04	1.344E-04	4.381E-05	1.809E-05	1570.084
3103	636	3 R 1	9.338E-03	7.844E-03	6.249E-03	4.625E-03	3.100E-03	1.803E-03	666.162
3104	636	12 P 43	721.905	2.482E-06	6.665E-07	1.307E-07	1.666E-08	1.146E-09	2745.159
3105	636	15 R 42	722.565	8.889E-04	1.517E-04	4.517E-05	9.696E-06	1.305E-06	2092.452

LINE	BAND CODE	WAVE NUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
3100	628	1 R 78	1.184E-06	4.964E-07	1.715E-07	4.576E-08	8.566E-09	9.466E-10	2264.412
3107		4 R 65	1.977E-05	5.978E-06	1.374E-06	2.306E-07	2.373E-08	1.240E-09	3012.861
3108		1 R 68	4.330E-03	2.192E-03	9.523E-04	3.358E-04	8.708E-05	1.573E-05	1877.981
3109	636	3 R 1	1.046E-04	8.676E-05	7.148E-05	5.362E-05	3.654E-05	2.169E-05	549.263
3110		12 P 42	8.418E-06	2.403E-06	7.934E-07	1.590E-07	2.081E-08	1.403E-09	2711.425
3111		12 P 3	7.23413	1.251E-05	4.754E-06	1.425E-06	3.086E-07	4.201E-08	2081.540
3112		14 P 19	2.777E-05	8.49E-06	1.083E-05	3.449E-06	7.039E-07	9.586E-08	2000.921
3113		4 R 68	7.23519	6.364E-05	1.943E-05	4.457E-06	6.907E-07	6.114E-08	2500.169
3114		8 P 23	7.23559	6.931E-04	3.476E-04	1.463E-04	4.840E-05	1.136E-05	1531.288
3115		4 R 65	7.23563	1.405E-04	4.662E-05	1.184E-05	2.083E-06	2.517E-07	2340.740
3116		9 R 66	7.23702	4.636E-06	1.054E-06	1.685E-07	1.663E-08	8.244E-10	2064.374
3117		8 P 22	7.23914	7.329E-04	3.710E-04	1.579E-04	5.302E-05	1.268E-05	1533.284
3118		3 R 3	7.23921	2.312E-02	1.837E-02	1.356E-02	9.063E-03	5.257E-03	672.066
3119		12 P 41	7.24076	3.379E-06	9.397E-07	1.923E-07	2.585E-08	1.905E-09	2678.519
3120		15 R 44	7.24153	2.951E-04	1.076E-04	3.067E-05	6.238E-06	7.829E-07	2169.309
3121		9 R 67	7.24507	3.579E-06	7.912E-07	1.224E-07	1.158E-08	5.441E-10	3116.723
3122	636	1 R 3	7.24693	2.615E-04	2.101E-04	1.573E-04	1.068E-04	6.316E-05	653.169
3123		1 R 70	7.24698	1.285E-03	5.270E-04	1.734E-04	4.218E-05	6.666E-06	1936.105
3124		12 P 40	7.24923	3.917E-06	1.108E-06	2.314E-07	3.191E-08	2.430E-09	2646.369
3125		18 R 5	7.24979	2.014E-05	7.26E-06	2.276E-06	4.901E-07	6.623E-08	2088.567
3126		14 P 17	7.25068	2.990E-05	1.154E-05	3.524E-06	7.818E-07	1.097E-07	2052.024
3127		8 P 21	7.25141	7.716E-04	3.942E-04	1.696E-04	5.773E-05	1.405E-05	1516.051
3128		4 R 70	7.25180	3.719E-05	2.296E-05	2.296E-06	3.264E-07	2.583E-08	2608.575
3129		4 R 67	7.25449	8.430E-05	2.650E-05	8.299E-06	1.021E-06	9.568E-08	2444.333
3130		5 R 68	7.25452	2.752E-06	9.918E-07	8.866E-08	8.027E-09	3.576E-10	3169.762
3131		3 R 5	7.25473	4.452E-02	2.947E-02	2.166E-02	1.439E-02	8.278E-03	679.100
3132		8 P 20	7.25582	8.067E-03	4.157E-04	1.808E-04	6.239E-05	1.543E-05	1499.669
3133		15 R 46	7.25741	2.129E-04	7.482E-05	2.038E-05	3.916E-06	4.570E-07	2231.238
3134		12 P 39	7.25746	4.519E-06	1.249E-06	2.769E-07	3.914E-08	3.079E-09	2615.026
3135	636	5 R 5	7.26235	4.211E-04	3.371E-04	2.511E-04	1.696E-04	9.957E-05	660.155
3136		9 R 69	7.26421	2.106E-06	4.403E-07	6.359E-08	5.527E-09	2.324E-10	3223.688
3137		1 R 72	7.26459	7.401E-04	2.863E-04	8.772E-05	1.952E-05	2.752E-06	2047.319
3138		18 P 7	7.26546	2.680E-05	1.009E-05	2.993E-06	6.393E-07	8.548E-08	2098.717
3139		12 P 38	7.26591	5.190E-06	1.516E-06	3.295E-07	4.773E-08	3.874E-09	2584.472
3140		14 P 15	7.26703	3.049E-05	1.193E-05	3.704E-06	8.384E-07	1.608E-07	2026.271
3141		8 P 19	7.26732	8.393E-04	4.560E-04	1.915E-04	6.688E-05	1.482E-05	1443.944
3142		4 R 72	7.26843	2.137E-05	5.813E-06	1.158E-06	1.506E-07	1.065E-08	2720.078
3143		5 R 7	7.27022	4.955E-02	3.901E-02	2.848E-02	1.877E-02	1.068E-02	684.258
3144		4 R 70	7.27206	1.666E-06	3.263E-07	4.551E-08	3.786E-09	1.504E-10	3278.251
3145		8 P 18	7.27240	8.671E-04	4.5440E-04	2.013E-04	7.113E-05	1.817E-05	1469.067
3146		4 R 69	7.27270	4.973E-05	1.478E-05	3.282E-06	4.883E-07	4.102E-08	2551.621
3147		15 R 48	7.27329	1.569E-04	5.102E-05	1.324E-05	2.400E-06	2.596E-07	2305.275
3148		12 P 37	7.27414	5.932E-06	1.760E-06	3.898E-07	5.784E-08	4.840E-09	2554.661
3149	636	3 R 7	7.27471	5.603E-04	4.462E-04	3.302E-04	2.212E-04	1.285E-04	670.355
3150		5 R 71	7.27498	1.219E-06	2.405E-07	3.237E-08	2.577E-09	9.663E-11	3333.755

LINE	BAND CODE	WAVELENGTH	I=300K	I=275K	I=250K	I=225K	I=200K	I=175K	ENERGY
3151	1 R 74	728.021	9.562E-04	4.190E-C4	1.527E-04	4.234E-05	8.832E-06	1.107E-06	2161.621
3152	18 R 9	728.115	7.197E-05	3.222E-05	1.205E-05	3.254E-06	7.467E-07	9.876E-08	2111.931
3153	12 P 36	728.257	1.805E-05	6.750E-06	2.033E-06	4.588E-07	6.966E-08	6.007E-09	2525.647
3154	8 P 17	728.320	1.494E-03	8.910E-06	6.679E-06	2.103E-06	7.514E-07	1.947E-07	1454.568
3155	14 P 15	728.329	6.415E-05	3.011E-05	1.152E-05	3.755E-06	8.655E-07	1.227E-07	2003.562
3156	4 R 74	728.509	3.694E-C5	1.207E-05	3.092E-06	5.727E-07	6.792E-08	4.263E-09	2834.676
3157	3 R 9	728.507	7.495E-02	5.956E-02	4.657E-02	3.371E-02	2.198E-02	1.234E-02	702.537
3158	8 P 16	728.889	1.515E-03	9.089E-04	4.827E-04	2.178E-04	7.867E-05	2.007E-05	1441.056
3159	15 R 50	728.918	2.661E-04	1.051E-04	3.412E-05	8.736E-06	1.436E-06	1.435E-07	2302.422
3160	9 R 72	728.966	3.593E-06	9.217E-C7	1.766E-07	2.793E-08	1.743E-09	6.190E-11	3389.901
3161	12 P 35	729.080	2.020E-C5	7.644E-06	2.337E-06	5.369E-07	8.337E-08	7.400E-09	2497.427
3162	4 R 71	729.097	8.184E-05	2.885E-05	8.095E-06	1.675E-06	4.283E-07	1.713E-08	2660.803
3163	3 R 7	729.299	8.058E-04	6.736E-04	5.326E-04	3.908E-04	2.590E-04	1.485E-04	685.634
3164	1 R 76	729.685	5.603E-04	2.333E-04	7.993E-05	2.112E-05	3.905E-06	4.336E-07	2279.009
3165	18 R 11	729.686	8.150E-05	3.623E-C5	1.043E-05	3.908E-06	8.151E-07	1.057E-07	2128.386
3166	9 R 73	729.750	2.772E-06	6.935E-07	1.290E-07	1.615E-08	1.174E-09	3.927E-11	3446.522
3167	8 P 15	729.906	1.528E-03	9.216E-04	4.926E-04	2.241E-04	8.175E-05	2.175E-05	1429.123
3168	12 P 34	729.920	2.250E-05	8.617E-06	2.672E-06	6.248E-07	9.918E-08	9.055E-09	2469.975
3169	14 P 11	729.946	6.053E-05	2.866E-05	1.146E-05	3.656E-06	8.558E-07	1.287E-07	1984.047
3170	3 R 11	730.109	8.148E-02	6.696E-02	5.191E-02	3.718E-02	2.333E-02	1.321E-02	718.943
3171	4 R 76	730.176	2.160E-05	6.704E-06	1.615E-06	2.774E-07	2.994E-08	4.952E-09	2924.371
3172	15 R 52	730.506	1.671E-04	7.188E-05	2.231E-05	5.256E-06	8.392E-07	7.719E-08	2462.676
3173	8 P 14	730.528	1.530E-03	9.273E-04	4.987E-04	2.286E-04	8.417E-05	4.267E-05	1417.376
3174	9 R 74	730.730	2.132E-06	5.201E-07	9.385E-08	1.132E-08	7.861E-10	2.111E-11	3504.609
3175	12 P 33	730.763	2.495E-05	9.667E-06	3.040E-06	7.229E-07	1.172E-07	1.111E-08	2443.323
3176	3 R 11	730.821	5.124E-04	7.572E-04	5.936E-04	4.311E-04	2.820E-04	1.589E-04	700.036
3177	4 R 73	730.931	4.904E-05	1.645E-05	4.352E-06	8.380E-07	1.043E-07	6.772E-09	2773.677
3178	18 R 13	731.258	8.792E-05	3.875E-05	1.422E-05	4.086E-06	8.390E-07	1.106E-07	2147.904
3179	1 R 78	731.351	3.233E-04	1.277E-04	4.108E-05	1.005E-05	1.687E-06	1.656E-07	2399.481
3180	8 P 13	731.490	1.522E-03	9.268E-04	5.013E-04	2.314E-04	8.594E-05	2.341E-05	1406.410
3181	9 R 75	731.506	1.632E-06	3.880E-07	6.707E-08	7.891E-09	5.224E-10	1.552E-11	3563.186
3182	4 R 79	731.554	5.671E-05	2.609E-05	1.052E-05	3.391E-06	8.041E-07	1.200E-07	1967.638
3183	12 P 32	731.580	2.754E-05	1.079E-05	3.443E-06	8.318E-07	1.377E-07	1.327E-08	2417.438
3184	14 P 59	731.618	1.235E-06	3.335E-07	6.801E-08	9.527E-09	7.972E-10	3.195E-11	3270.959
3185	3 R 13	731.647	8.789E-02	7.162E-02	5.494E-02	3.887E-02	2.462E-02	1.332E-02	730.472
3186	4 R 78	731.845	1.243E-05	3.661E-06	8.280E-07	1.316E-07	1.290E-08	6.17E-10	3073.157
3187	14 P 56	732.077	1.836E-06	3.158E-07	1.102E-07	1.636E-08	1.470E-09	6.54E-11	3181.146
3188	15 R 54	732.094	4.831E-04	4.831E-04	1.439E-05	3.206E-06	4.748E-07	4.043E-08	2546.636
3189	8 P 12	732.158	1.902E-03	9.186E-04	4.992E-04	2.321E-04	6.990E-05	2.392E-05	1396.225
3190	3 R 15	732.311	4.807E-04	8.098E-04	6.264E-04	4.506E-04	2.902E-04	1.703E-04	719.566
3191	12 P 31	732.402	3.027E-05	1.199E-05	3.873E-06	9.516E-07	1.607E-07	1.569E-08	2592.350
3192	4 R 76	732.500	1.245E-06	2.886E-07	8.896E-08	5.478E-09	3.461E-10	5.667E-12	3622.412
3193	14 P 54	732.523	2.667E-06	7.838E-07	1.753E-07	2.749E-08	2.649E-09	1.273E-10	3094.403
3194	4 R 75	732.771	2.893E-05	9.227E-06	2.297E-06	4.106E-07	8.660E-08	2.764E-09	2889.642
3195	18 R 15	732.832	9.123E-C5	3.981E-05	1.444E-05	4.088E-06	8.244E-07	1.024E-07	2170.545

LINE	BAND CODE	WAV NUMBER	T=J10K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
3196			3.464E-06	1.170E-06	2.734E-07	4.524E-08	4.660E-09	4.440E-10	3010.771
3197			1.831E-06	6.874E-05	4.073E-05	6.689E-06	7.128E-07	6.184E-08	4523.036
3198			1.471E-06	9.035E-04	9.937E-04	2.317E-04	8.708E-05	2.419E-05	1388.828
3199			4.476E-03	2.242E-05	9.105E-06	2.960E-06	7.098E-07	1.100E-07	1956.354
3200			9.118E-02	7.356E-02	5.577E-02	3.889E-02	2.419E-02	1.275E-02	761.146
3201			3.314E-05	1.326E-05	4.318E-06	1.082E-06	1.864E-07	1.890E-08	2386.033
3202			5.477E-02	1.716E-06	4.183E-07	7.286E-08	8.005E-09	4.554E-10	2930.253
3203			7.050E-06	1.767E-06	4.188E-07	6.122E-08	5.434E-09	2.352E-10	3197.032
3204			8.441E-05	3.140E-05	9.083E-06	1.919E-06	4.668E-07	4.081E-08	2634.501
3205			7.630E-06	2.473E-06	6.275E-07	1.149E-07	1.342E-08	8.465E-10	2852.844
3206			1.424E-03	8.807E-04	4.834E-04	2.272E-04	8.029E-05	2.419E-05	1378.413
3207			1.021E-03	9.318E-04	6.378E-04	4.508E-04	4.411E-04	1.518E-04	742.411
3208	036		3.628E-05	1.400E-05	4.832E-06	1.224E-07	2.148E-07	2.231E-08	2366.511
3209			1.045E-05	3.499E-06	9.232E-07	1.772E-07	2.317E-08	1.481E-09	2778.502
3210			9.159E-05	3.952E-05	1.414E-05	3.438E-06	7.174E-07	9.408E-08	2198.307
3211			1.408E-05	4.862E-06	1.331E-06	4.674E-07	3.511E-08	4.511E-09	2707.592
3212			1.680E-05	5.068E-06	1.190E-06	1.972E-07	2.034E-08	1.068E-09	3008.694
3213			1.375E-04	8.508E-04	4.688E-04	4.214E-04	8.464E-05	2.392E-05	1370.380
3214			1.045E-04	3.034E-05	1.071E-05	2.141E-06	2.943E-07	4.234E-08	2644.674
3215			9.153E-02	7.302E-02	5.681E-02	3.746E-02	2.263E-02	1.173E-02	786.903
3216			3.691E-05	1.778E-05	7.257E-06	4.375E-04	5.738E-07	8.992E-08	1946.155
3217			3.912E-05	1.598E-05	5.355E-06	1.376E-06	2.459E-07	2.615E-08	2345.760
3218			1.865E-05	6.635E-06	1.882E-06	3.498E-07	5.474E-08	4.199E-09	2634.341
3219			3.136E-06	1.039E-06	2.860E-07	4.789E-08	4.237E-09	8.491E-11	3223.946
3220			2.427E-05	8.882E-06	2.607E-06	5.702E-07	8.325E-08	6.827E-09	2576.410
3221			7.036E-05	2.070E-05	7.626E-06	1.119E-06	1.452E-07	1.023E-08	2722.071
3222	036		1.025E-03	8.256E-04	6.246E-04	4.342E-04	2.690E-04	1.413E-04	787.994
3223			1.311E-03	8.133E-04	4.498E-04	2.134E-04	8.204E-05	2.326E-05	1363.331
3224			3.102E-07	1.167E-05	3.539E-06	8.052E-07	1.234E-07	1.074E-08	4514.601
3225			1.311E-06	3.445E-07	6.797E-08	4.146E-09	7.6278E-10	4.733E-11	3333.755
3226			4.222E-05	1.741E-05	5.901E-06	1.538E-06	2.797E-07	3.052E-08	2299.804
3227			3.403E-05	1.505E-05	4.704E-06	1.111E-06	1.787E-07	1.654E-08	4633.514
3228			4.161E-06	5.959E-07	1.252E-07	1.758E-08	1.562E-09	6.578E-11	3221.688
3229			8.936E-05	3.807E-05	1.141E-05	3.667E-06	7.079E-07	8.311E-08	2223.141
3230			4.817E-05	1.903E-05	6.124E-06	1.499E-06	2.520E-07	2.476E-08	2346.351
3231			1.236E-03	7.693E-04	4.359E-04	3.033E-04	7.856E-05	2.251E-05	1357.664
3232			8.926E-02	7.022E-02	5.180E-02	3.487E-02	2.077E-02	1.038E-02	815.604
3233			3.588E-06	1.133E-06	3.239E-07	3.466E-08	3.277E-09	1.539E-10	3116.723
3234			2.531E-05	1.232E-05	5.049E-06	1.660E-06	4.034E-07	6.365E-08	1437.162
3235			5.662E-05	1.695E-05	8.996E-06	9.586E-07	1.188E-07	7.890E-09	2774.385
3236			5.838E-05	2.360E-05	7.408E-06	1.976E-06	3.463E-07	3.591E-08	2343.512
3237			4.614E-06	2.759E-06	6.111E-07	9.275E-08	8.616E-09	4.018E-10	3130.833
3238			4.535E-04	1.888E-05	6.111E-06	1.708E-06	3.181E-07	3.513E-08	2786.621
3239			5.603E-06	1.694E-06	3.111E-07	6.530E-08	8.715E-09	3.504E-10	3016.881
3240			6.943E-05	2.888E-05	9.732E-06	2.544E-06	4.636E-07	5.027E-08	2246.549

LINE	BAND CODE	WAVE NUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
3241	6-6	1 R 14	9.995E-04	7.950E-04	5.944E-04	4.042E-04	2.944E-04	1.496E-04	750.850
3242		15 K 60	6.007E-05	1.320E-05	3.418E-06	6.410E-07	7.123E-08	6.496E-09	816.743
3243		6 U 63	6.811E-06	4.783E-06	6.899E-07	1.208E-07	1.344E-08	7.791E-10	2412.105
3244		4 K 64	4.164E-06	9.997E-08	1.346E-08	1.246E-08	9.903E-10	2.489E-11	3454.545
3245		14 L 28	8.100E-05	3.614E-05	1.167E-05	3.193E-06	6.046E-07	6.410E-08	2350.413
3246		6 P 6	1.153E-03	7.192E-04	4.003E-04	1.913E-04	7.423E-05	2.139E-05	1314.581
3247		6 U 61	1.364E-05	4.494E-06	1.163E-06	2.182E-07	2.630E-08	1.685E-09	2814.425
3248		14 U 46	9.262E-05	3.977E-05	1.435E-05	3.912E-06	7.659E-07	9.158E-08	2207.324
3249		12 P 25	4.848E-05	2.036E-05	7.072E-06	1.888E-06	3.544E-07	4.027E-08	2256.232
3250		14 Q 24	1.031E-04	4.533E-05	1.646E-05	4.670E-06	9.440E-07	1.176E-07	2167.423
3251		6 Q 59	2.077E-05	7.132E-06	1.440E-06	3.866E-07	5.024E-08	3.547E-09	2714.414
3252		18 R 21	4.489E-05	3.567E-05	1.236E-05	3.111E-06	6.229E-07	7.076E-08	2257.145
3253		14 U 44	1.137E-04	5.048E-05	1.869E-05	5.428E-06	1.130E-06	1.462E-07	2130.622
3254		6 U 57	3.113E-05	1.112E-05	3.174E-06	6.705E-07	9.176E-08	7.474E-09	2646.403
3255		3 M 41	8.481E-02	6.590E-02	4.772E-02	3.148E-02	1.827E-02	8.833E-03	847.827
3256		14 Q 20	1.219E-04	5.487E-05	2.088E-05	6.136E-06	1.312E-06	1.757E-07	2096.950
3257		6 P 5	1.063E-01	6.642E-01	3.705E-01	1.776E-01	8.919E-02	2.013E-02	1366.881
3258		14 P 1	1.303E-05	6.304E-06	2.588E-06	6.527E-07	2.078E-07	3.294E-08	1933.255
3259		14 U 18	1.273E-04	5.811E-05	2.423E-05	6.733E-06	1.475E-06	2.039E-07	2066.408
3260		6 U 55	4.591E-05	1.705E-05	5.095E-06	1.139E-06	1.709E-07	1.451E-08	2540.164
3261		1 R 46	3.072E-05	9.703E-06	2.387E-06	4.205E-07	4.687E-08	2.716E-09	2412.175
3262		14 Q 16	1.295E-04	5.984E-05	2.244E-05	7.157E-06	1.603E-06	2.279E-07	2038.997
3263		12 P 24	5.159E-05	2.185E-05	7.644E-06	2.072E-06	3.957E-07	4.582E-08	2238.617
3264		6 Q 53	6.662E-05	2.568E-05	8.023E-06	1.894E-06	3.042E-07	2.820E-08	2454.956
3265		14 Q 14	1.279E-04	5.472E-05	2.349E-05	7.347E-06	1.678E-06	2.445E-07	2014.718
3266	636	3 R 41	9.495E-04	7.448E-04	5.457E-04	3.648E-04	2.152E-04	1.064E-04	828.910
3267		4 R 41	5.414E-06	1.472E-06	3.024E-07	4.278E-08	3.621E-09	1.473E-10	3256.055
3268		14 U 12	1.220E-04	5.751E-05	2.288E-05	7.478E-06	1.684E-06	2.507E-07	1453.571
3269		14 U 10	1.118E-04	5.309E-05	2.132E-05	6.437E-06	1.611E-06	2.444E-07	1475.526
3270		15 R 62	2.619E-05	8.278E-06	2.038E-06	3.544E-07	4.011E-08	2.324E-09	2410.517
3271		6 Q 51	9.510E-05	3.799E-05	1.249E-05	3.082E-06	5.287E-07	5.332E-08	2374.866
3272		14 U 8	9.718E-05	4.647E-05	1.880E-05	6.088E-06	1.452E-06	2.236E-07	1460.673
3273		4 R 46	1.172E-06	2.757E-07	4.763E-08	5.450E-09	3.542E-10	1.024E-11	3587.174
3274		6 P 4	7.861E-04	6.060E-04	3.388E-04	1.628E-04	6.361E-05	1.864E-05	1542.964
3275		14 Q 6	7.863E-05	3.779E-05	1.534E-05	5.019E-06	1.208E-06	1.864E-07	1448.523
3276		14 Q 4	5.673E-05	2.737E-05	1.114E-05	3.672E-06	8.494E-07	1.400E-07	1440.307
3277		14 U 2	3.236E-05	1.565E-05	6.439E-06	2.113E-06	5.143E-07	6.117E-08	1934.823
3278		6 Q 49	1.335E-04	5.521E-05	1.877E-05	4.910E-06	8.971E-07	9.614E-08	2493.890
3279		6 U 47	1.844E-04	7.882E-05	2.786E-05	7.658E-06	1.486E-06	1.757E-07	2216.032
3280		12 P 23	5.462E-05	2.332E-05	8.242E-06	2.261E-06	4.383E-07	5.174E-08	2214.754
3281		18 R 23	7.875E-05	3.258E-05	1.109E-05	2.903E-06	5.310E-07	5.818E-08	2442.326
3282		6 L 45	2.505E-04	1.105E-04	4.054E-05	1.166E-05	2.403E-06	3.662E-07	2145.092
3283		3 M 25	7.865E-02	6.017E-02	4.279E-02	2.759E-02	1.557E-02	7.262E-03	862.572
3284		8 P 3	6.746E-04	9.484E-04	3.070E-04	1.478E-04	5.789E-05	1.460E-05	1334.631
3285		6 Q 43	3.344E-04	1.521E-04	5.745E-05	1.743E-05	3.791E-06	5.190E-07	2075.672

LINE	BAND CODE	WAVE NUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
3286	B U 41	739.591	4.350E-04	2.055E-04	8.108E-05	2.545E-05	5.837E-06	8.556E-07	2009.173
3287	I K 88	739.707	1.642E-05	4.887E-06	1.119E-06	1.808E-07	1.808E-08	9.111E-10	3046.039
3288	B U 39	739.789	5.664E-04	2.726E-04	1.112E-04	3.633E-05	8.768E-06	1.371E-06	1545.756
3289	S K 23	739.798	8.806E-04	6.802E-04	4.893E-04	3.154E-04	1.835E-04	8.733E-05	864.052
3290	I Z P 22	739.822	5.754E-03	2.477E-03	8.835E-06	2.442E-06	4.821E-07	5.758E-08	2201.748
3291	D Q 37	739.977	7.180E-04	3.547E-04	1.493E-04	5.071E-05	1.284E-05	2.137E-06	1805.244
3292	L S 04	740.032	1.685E-05	5.101E-06	1.927E-06	1.974E-07	2.036E-08	1.067E-09	3009.291
3293	U P 2	740.155	7.970E-04	5.006E-04	2.803E-04	1.552E-04	5.305E-05	1.551E-05	1337.401
3294	B N 35	740.156	8.940E-04	4.528E-04	1.834E-04	6.918E-05	1.834E-05	3.236E-06	1828.412
3295	4 R 3	740.188	3.003E-06	7.719E-07	1.483E-07	1.932E-08	1.476E-09	5.265E-11	184.300
3296	14 R 1	740.228	6.536E-06	3.163E-06	1.248E-06	4.277E-07	1.043E-07	1.624E-08	1433.253
3297	B U 33	740.225	1.093E-03	5.689E-04	2.529E-04	9.227E-05	2.572E-05	4.761E-06	1774.407
3298	8 U 31	740.486	1.312E-03	6.956E-04	3.186E-04	1.200E-04	3.480E-05	6.804E-06	1723.524
3299	8 U 72	740.517	1.023E-06	2.623E-07	5.024E-08	6.522E-09	4.981E-10	1.754E-11	3389.901
3300	8 U 70	740.548	1.649E-06	4.573E-07	9.287E-08	1.295E-08	1.077E-09	4.283E-11	2278.291
3301	8 Q 68	740.585	2.778E-06	7.840E-07	1.685E-07	2.518E-08	2.284E-09	1.016E-10	3169.782
3302	8 Q 66	740.625	4.471E-06	1.321E-06	3.031E-07	4.796E-08	4.733E-09	2.346E-10	3064.174
3303	I Z P 21	740.637	6.032E-05	2.816E-05	9.415E-06	2.642E-06	5.267E-07	8.447E-08	2184.492
3304	8 Q 29	740.637	1.545E-03	8.362E-04	3.528E-04	1.526E-04	4.588E-05	9.432E-06	1675.776
3305	8 U 64	740.667	7.083E-06	2.189E-06	5.244E-07	8.949E-08	9.584E-09	5.276E-10	2962.070
3306	8 U 62	740.710	1.105E-05	3.564E-06	8.994E-07	1.635E-07	1.896E-08	1.156E-09	2862.871
3307	18 R 20	740.727	7.142E-05	2.906E-05	9.690E-06	2.476E-06	4.393E-07	4.628E-08	2350.565
3308	8 Q 60	740.754	1.695E-05	5.703E-06	1.514E-06	2.926E-07	3.663E-08	2.465E-09	2766.780
3309	8 Q 27	740.778	1.783E-03	9.844E-04	4.733E-04	1.892E-04	5.870E-05	1.269E-05	1631.152
3310	8 Q 58	740.800	2.560E-05	8.970E-06	2.449E-06	5.128E-07	6.915E-08	5.119E-09	2673.748
3311	3 R 25	740.802	7.132E-02	5.365E-02	3.740E-02	2.353E-02	1.288E-02	5.775E-03	921.239
3312	8 U 56	740.846	3.805E-05	1.386E-05	4.049E-06	6.800E-07	1.275E-07	1.035E-08	2584.425
3313	8 Q 54	740.893	5.565E-05	2.106E-05	6.435E-06	1.478E-06	2.296E-07	2.038E-08	2497.165
3314	8 Q 25	40.910	2.017E-03	1.134E-03	5.571E-04	2.286E-04	7.334E-05	1.254E-05	1589.655
3315	8 U 52	740.940	8.007E-05	3.142E-05	1.003E-05	2.431E-06	4.037E-07	3.905E-08	2413.519
3316	8 U 50	740.987	1.133E-04	4.606E-05	1.534E-05	3.914E-06	6.902E-07	7.282E-08	2322.517
3317	8 Q 43	741.032	2.234E-03	1.277E-03	6.408E-04	2.692E-04	8.904E-05	2.089E-05	1551.288
3318	8 Q 48	741.034	1.578E-04	6.633E-05	2.300E-05	6.167E-06	1.162E-06	1.322E-07	2251.571
3319	8 Q 46	741.081	2.160E-04	9.381E-05	3.382E-05	9.508E-06	1.901E-06	2.344E-07	2181.273
3320	B U 44	741.128	2.908E-04	1.303E-04	4.675E-05	1.434E-05	3.035E-06	4.010E-07	2110.597
3321	8 Q 21	741.144	2.419E-03	1.404E-03	7.168E-04	3.084E-04	1.049E-04	2.552E-05	1516.051
3322	8 U 42	741.173	3.850E-04	1.776E-04	6.888E-05	2.117E-05	4.730E-06	6.702E-07	2042.036
3323	8 U 40	741.218	5.009E-04	2.376E-04	9.538E-05	3.056E-05	7.191E-06	1.089E-06	1977.058
3324	8 U 19	741.247	2.557E-03	1.505E-03	7.819E-04	3.432E-04	1.190E-04	3.012E-05	1483.944
3325	8 Q 36	741.262	6.404E-04	3.123E-04	1.294E-04	4.313E-05	1.066E-05	1.721E-06	1915.283
3326	3 R 23	741.269	7.985E-04	6.065E-04	4.276E-04	2.727E-04	1.517E-04	4.444E-05	902.315
3327	8 Q 36	741.304	8.044E-04	4.825E-04	1.720E-04	5.950E-05	1.542E-05	2.244E-06	1856.591
3328	8 U 17	741.339	2.634E-03	1.570E-03	8.276E-04	3.726E-04	1.323E-04	3.426E-05	1454.566
3329	8 Q 34	741.343	9.924E-04	5.087E-04	2.238E-04	8.023E-05	2.173E-05	3.945E-06	1801.023
3330	I K 90	741.383	8.644E-06	4.421E-06	5.156E-07	7.626E-08	6.816E-09	2.549E-10	3126.474

LINE	BOND CODE	MOVEMENT NUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
3331	0 Q 34	741.385	1.420E-03	6.304E-04	2.850E-04	1.037E-04	2.985E-05	5.719E-06	1748.581
3332	0 Q 15	741.422	2.636E-03	1.589E-03	8.492E-04	3.862E-04	1.408E-04	1.408E-04	1429.163
3333	0 Q 30	741.423	1.429E-03	7.656E-04	3.552E-04	1.359E-04	3.994E-05	8.049E-06	1694.263
3334	12 P 20	741.456	6.291E-03	2.748E-03	9.575E-04	2.828E-04	5.714E-07	7.113E-08	2168.014
3335	0 Q 28	741.459	1.666E-03	9.107E-04	4.328E-04	1.766E-04	5.201E-05	1.699E-05	1633.077
3336	0 Q 26	741.493	1.904E-03	1.088E-03	5.155E-04	2.088E-04	8.590E-05	1.456E-05	1610.010
3337	0 Q 13	741.495	2.554E-03	1.552E-03	8.407E-04	3.879E-04	1.441E-04	3.523E-05	1408.410
3338	0 Q 24	741.526	2.130E-03	1.208E-03	5.994E-04	2.491E-04	8.117E-05	1.868E-05	1570.084
3339	0 Q 22	741.556	2.331E-03	1.344E-03	6.400E-04	2.893E-04	9.708E-05	2.320E-05	1533.284
3340	0 Q 11	741.558	2.308E-03	1.461E-03	7.483E-04	3.730E-04	1.407E-04	3.509E-05	1380.828
3341	0 Q 20	741.583	2.496E-03	1.459E-03	7.315E	3.267E-04	1.126E-04	2.786E-05	1499.604
3342	0 Q 18	741.609	2.605E-03	1.543E-03	8.076E-04	3.580E-04	1.265E-04	3.229E-05	1464.067
3343	0 Q 9	741.611	2.112E-03	1.308E-03	7.198E-04	3.199E-04	1.299E-04	3.671E-05	1370.380
3344	15 R 02	741.617	1.667E-03	3.089E-04	8.447E-07	1.062E-07	1.009E-08	4.766E-10	3111.363
3345	0 Q 16	741.632	2.646E-03	1.586E-03	8.421E-04	3.799E-04	1.372E-04	3.662E-05	1441.650
3346	0 Q 14	741.653	2.607E-03	1.579E-03	8.492E-04	3.891E-04	1.432E-04	3.857E-05	1417.376
3347	0 Q 7	741.654	1.753E-03	1.090E-03	6.051E-04	2.882E-04	1.113E-04	3.184E-05	1357.604
3348	0 Q 12	741.671	2.479E-03	1.516E-03	8.241E-04	3.827E-04	1.433E-04	3.943E-05	1396.224
3349	0 Q 5	741.686	1.307E-03	8.164E-04	4.554E-04	2.183E-04	8.502E-05	2.461E-05	1346.881
3350	0 Q 10	741.687	2.258E-03	1.392E-03	7.637E-04	3.588E-04	1.363E-04	3.820E-05	1378.213
3351	0 Q 8	741.700	1.944E-03	1.206E-03	6.670E-04	3.164E-04	1.216E-04	3.461E-05	1363.331
3352	0 Q 3	741.709	7.679E-03	4.813E-04	2.695E-04	1.298E-04	5.082E-05	1.482E-05	1339.831
3353	0 Q 6	741.710	1.561E-03	9.606E-04	5.346E-04	2.555E-04	9.412E-05	2.465E-05	1351.581
3354	0 Q 4	741.717	1.050E-03	6.575E-04	3.675E-04	1.766E-04	6.400E-05	2.005E-05	1342.964
3355	0 Q 2	741.722	4.438E-04	2.784E-04	1.561E-04	7.527E-05	2.954E-05	8.633E-06	1337.481
3356	14 R 3	741.774	1.929E-05	9.317E-06	3.817E-06	1.254E-06	3.047E-07	4.810E-08	1937.162
3357	0 P 64	741.856	1.012E-06	3.202E-07	7.896E-08	1.396E-08	1.562E-09	9.096E-11	2907.106
3358	4 M 85	742.056	1.641E-06	3.982E-07	7.141E-08	8.522E-09	5.884E-10	1.833E-11	3515.745
3359	12 P 19	742.269	6.526E-05	2.870E-05	1.051E-05	3.094E-06	6.154E-07	7.786E-08	2152.320
3360	18 M 27	742.312	6.340E-05	2.534E-05	8.267E-06	4.057E-06	3.531E-07	3.565E-08	2371.929
3361	3 R 27	742.316	6.330E-02	4.676E-02	3.190E-02	1.955E-02	1.032E-02	4.447E-03	462.627
3362	636	742.733	7.086E-04	5.286E-04	3.647E-04	2.265E-04	1.219E-04	5.348E-05	443.700
3363	1 M 42	743.061	4.480E-06	1.179E-06	4.332E-07	3.147E-08	2.514E-09	9.441E-11	3328.474
3364	12 P 12	743.085	6.735E-05	2.911E-05	1.100E-05	3.179E-06	6.582E-07	8.456E-08	2137.416
3365	15 M 68	743.202	6.653E-06	1.870E-06	3.859E-07	5.596E-08	4.890E-09	2.073E-10	3216.433
3366	14 R 5	743.311	3.115E-05	1.500E-05	6.122E-06	2.033E-06	4.839E-07	7.982E-08	1444.155
3367	0 P 62	743.350	1.577E-06	5.212E-07	1.354E-07	2.548E-08	3.086E-09	1.989E-10	2808.244
3368	3 M 24	743.826	5.505E-05	3.988E-02	2.657E-02	1.593E-02	8.087E-03	3.314E-03	1007.125
3369	12 P 17	743.895	6.912E-05	3.078E-05	1.144E-05	3.337E-06	6.987E-07	9.108E-08	2123.296
3370	18 M 29	743.899	5.515E-05	2.161E-05	6.440E-06	1.666E-06	2.760E-07	2.662E-08	2416.413
3371	8 M 2	744.059	8.907E-05	5.588E-05	3.132E-05	1.510E-05	5.426E-06	1.732E-06	1337.421
3372	3 R 29	744.191	6.162E-04	4.504E-04	3.038E-04	1.834E-04	9.527E-05	3.992E-05	488.204
3373	14 P 14	744.700	7.055E-05	3.160E-05	1.183E-05	3.480E-06	7.363E-07	9.729E-08	2104.556
3374	1 R 44	744.734	4.267E-06	3.652E-07	1.038E-07	1.274E-08	9.062E-10	2.947E-11	3674.031
3375	15 M 70	744.786	4.083E-06	1.077E-06	2.135E-07	2.888E-08	2.313E-09	8.779E-11	3324.595

LINE	BAND CODE	WAVENUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
3376	14 K 7	744.838	4.164E-05	1.996E-05	8.102E-06	2.633E-06	6.319E-07	9.764E-08	1954.254
3377	6 R 3	744.851	1.984E-04	1.244E-04	6.961E-05	3.351E-05	1.312E-05	3.827E-06	1335.831
3378	6 P 60	744.865	2.421E-06	8.338E-07	2.276E-07	4.556E-08	5.956E-09	4.237E-10	2712.477
3379	3 R 31	745.334	4.693E-04	3.301E-02	1.254E-02	1.250E-02	6.150E-03	2.494E-03	1054.762
3380	18 M 31	745.408	4.703E-05	1.805E-05	5.613E-06	1.317E-06	2.100E-07	1.526E-08	2464.014
3381	12 P 15	745.516	7.160E-05	3.225E-05	1.215E-05	3.602E-06	7.700E-07	1.031E-07	207.603
3382	8 R 4	745.603	3.130E-04	1.959E-04	1.093E-04	5.261E-05	2.035E-05	5.476E-06	1942.964
3383	6 J 6	745.641	5.253E-04	3.764E-04	2.474E-04	1.449E-04	7.244E-05	2.890E-05	1335.627
3384	12 P 14	746.325	7.443E-05	3.270E-05	1.234E-05	3.703E-06	7.490E-07	1.082E-07	2085.632
3385	14 R 9	746.356	5.034E-05	2.399E-05	9.671E-06	3.117E-06	7.389E-07	1.136E-07	1967.638
3386	15 K 72	746.368	2.467E-06	6.199E-07	1.159E-07	1.461E-08	1.071E-09	3.623E-11	3435.854
3387	6 P 58	746.379	3.655E-06	1.311E-06	3.757E-07	7.978E-08	1.143E-08	8.788E-10	2619.806
3388	8 M 5	746.410	4.272E-04	2.669E-04	1.489E-04	7.135E-05	2.778E-05	8.043E-06	1346.881
3389	1 K 90	746.420	1.150E-06	2.665E-07	4.520E-08	5.056E-09	3.194E-10	6.922E-12	3022.186
3390	3 K 33	746.839	3.925E-02	2.724E-02	1.724E-02	9.642E-03	4.554E-03	1.689E-03	1105.508
3391	18 R 33	747.080	3.935E-05	1.477E-05	4.472E-06	1.016E-06	1.555E-07	1.356E-08	2514.732
3392	3 R 33	747.094	4.393E-04	3.079E-04	1.971E-04	1.117E-04	5.364E-05	2.031E-05	1086.570
3393	12 P 13	747.130	7.244E-05	3.295E-05	1.254E-05	3.779E-06	8.226E-07	1.127E-07	2074.648
3394	8 K 6	747.136	5.376E-04	3.522E-04	1.865E-04	8.911E-05	3.457E-05	4.958E-06	1351.581
3395	14 M 11	747.864	5.700E-05	2.697E-05	1.078E-05	3.437E-06	8.042E-07	1.209E-07	1984.047
3396	6 P 56	747.898	5.432E-06	2.026E-06	6.093E-07	1.368E-07	2.069E-08	1.775E-09	2530.233
3397	12 P 12	747.936	7.219E-05	3.298E-05	1.264E-05	3.828E-06	8.400E-07	1.163E-07	2064.446
3398	15 R 74	747.950	1.467E-06	3.508E-07	6.178E-08	7.236E-09	4.842E-10	1.456E-11	3350.211
3399	8 R 7	747.966	6.423E-04	3.994E-04	2.216E-04	1.055E-04	4.075E-05	1.167E-05	1357.064
3400	3 R 35	748.341	3.223E-02	2.145E-02	1.344E-02	7.262E-03	3.285E-03	1.153E-03	1159.372
3401	3 K 35	748.521	3.606E-04	2.445E-04	1.536E-04	8.414E-05	3.869E-05	1.386E-05	1140.430
3402	8 M 6	748.660	7.394E-04	4.586E-04	2.536E-04	1.203E-04	4.622E-05	1.315E-05	1363.331
3403	18 M 35	748.674	3.231E-05	1.185E-05	3.487E-06	7.652E-07	1.422E-07	9.256E-09	2588.568
3404	12 P 11	748.738	7.149E-05	3.280E-05	1.263E-05	3.848E-06	8.508E-07	1.189E-07	2055.031
3405	14 R 13	749.362	6.147E-05	2.884E-05	1.141E-05	3.592E-06	8.275E-07	1.220E-07	2003.362
3406	6 P 54	749.422	7.943E-06	3.076E-06	9.603E-07	2.296E-07	3.721E-08	3.469E-09	2443.760
3407	8 M 9	749.520	8.282E-04	5.121E-04	2.821E-04	1.332E-04	5.089E-05	1.438E-05	1370.280
3408	12 P 10	749.541	7.034E-05	3.259E-05	1.253E-05	3.639E-06	8.545E-07	1.203E-07	2046.399
3409	3 R 37	749.840	2.598E-02	1.718E-02	1.028E-02	5.344E-03	2.310E-03	7.645E-04	1418.353
3410	636	749.951	2.907E-04	1.941E-04	1.174E-04	6.191E-05	2.730E-05	4.191E-06	1197.467
3411	8 R 10	750.173	9.073E-04	5.591E-04	3.067E-04	1.441E-04	5.471E-05	1.534E-05	1376.213
3412	18 R 37	750.271	2.605E-05	9.320E-06	2.662E-06	5.633E-07	7.893E-08	6.134E-09	2625.519
3413	12 P 9	750.340	6.875E-05	3.176E-05	1.234E-05	3.799E-06	8.510E-07	1.210E-07	2038.552
3414	14 R 15	750.851	6.376E-05	2.962E-05	1.154E-05	3.593E-06	8.149E-07	1.171E-07	2026.241
3415	6 P 52	750.951	1.143E-05	4.588E-06	1.506E-06	3.774E-07	6.536E-08	6.671E-09	2366.388
3416	8 R 11	751.071	9.767E-04	5.995E-04	3.474E-04	1.530E-04	5.769E-05	1.603E-05	1366.828
3417	12 P 8	751.139	6.675E-05	3.094E-05	1.208E-05	3.730E-06	8.403E-07	1.203E-07	2011.489
3418	3 R 39	751.317	2.057E-02	1.345E-02	7.667E-03	3.843E-03	1.563E-03	4.926E-04	1416.450
3419	3 K 35	751.375	2.302E-04	1.497E-04	8.763E-05	4.453E-05	1.864E-05	5.922E-06	1757.500
3420	8 R 12	751.676	1.035E-03	6.326E-04	3.439E-04	1.597E-04	5.977E-05	1.645E-05	1356.229

LINE	BAND CODE	WAVENUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
3421	10 R 39	751.070	2.064E-05	7.1191E-06	1.991E-06	4.053E-07	5.412E-08	3.950E-09	2605.504
3422	12 P 7	751.935	6.440E-05	2.993E-05	1.170E-05	3.632E-06	8.229E-07	1.186E-07	2025.212
3423	14 R 17	752.331	6.400E-05	2.939E-05	1.134E-05	3.460E-06	7.860E-07	1.075E-07	2052.024
3424	6 P 50	752.484	1.617E-05	6.723E-06	2.301E-06	6.071E-07	1.121E-07	1.244E-08	2280.120
3425	6 K 12	752.619	1.063E-03	6.593E-04	3.564E-04	1.644E-04	6.104E-05	1.662E-05	1400.410
3426	12 P 6	752.731	6.178E-05	2.878E-05	1.122E-05	3.518E-06	7.999E-07	1.100E-07	2019.718
3427	3 M 41	752.791	1.791E-04	1.133E-04	6.416E-05	3.131E-05	1.246E-05	3.710E-06	1320.708
3428	3 R 41	752.831	1.600E-02	1.003E-02	5.614E-03	2.703E-03	1.050E-03	3.680E-04	1339.601
3429	3 R 14	753.169	1.120E-03	6.784E-04	3.644E-04	1.670E-04	6.147E-05	1.655E-05	1417.376
3430	18 R 41	753.473	1.006E-05	5.444E-06	1.450E-06	2.851E-07	3.620E-08	2.480E-09	2746.764
3431	12 P 5	753.524	5.902E-05	2.756E-05	1.084E-05	3.387E-06	7.731E-07	1.126E-07	2015.010
3432	14 M 19	753.801	6.240E-05	4.830E-05	1.075E-05	3.221E-06	6.975E-07	9.495E-08	2080.931
3433	6 P 48	754.022	2.250E-05	9.678E-06	3.448E-06	9.558E-07	1.877E-07	2.254E-08	2202.457
3434	8 R 15	754.165	1.147E-03	6.911E-04	3.601E-04	1.678E-04	6.119E-05	1.627E-05	1427.123
3435	636	754.202	1.169E-04	6.916E-05	4.601E-05	2.153E-05	8.127E-06	2.200E-06	1367.030
3436	12 P 4	754.315	5.648E-05	2.640E-05	1.040E-05	3.260E-06	7.463E-07	1.092E-07	2011.086
3437	3 R 43	754.322	1.224E-02	7.450E-03	4.028E-03	1.858E-03	6.902E-04	1.880E-04	1405.987
3438	8 R 16	754.651	1.162E-03	6.966E-04	3.697E-04	1.667E-04	6.018E-05	1.580E-05	1441.656
3439	18 R 43	755.079	1.249E-05	6.046E-06	1.047E-06	1.961E-07	2.361E-08	1.514E-09	2815.057
3440	12 P 3	755.105	5.466E-05	2.559E-05	1.010E-05	3.171E-06	7.278E-07	1.060E-07	2007.947
3441	14 R 41	755.261	5.528E-05	2.651E-05	9.901E-06	2.907E-06	6.135E-07	8.080E-08	2112.961
3442	12 Q 50	755.266	1.051E-06	4.748E-07	5.390E-08	7.200E-09	5.679E-10	2.110E-11	3344.339
3443	12 Q 57	755.292	1.285E-06	3.425E-07	6.878E-08	9.460E-09	7.737E-10	3.012E-11	3258.955
3444	12 Q 56	755.367	1.564E-06	4.252E-07	8.740E-08	1.237E-08	1.044E-09	4.272E-11	3254.303
3445	12 Q 55	755.396	1.895E-06	5.252E-07	1.105E-07	1.608E-08	1.411E-09	6.017E-11	3210.476
3446	12 Q 54	755.471	2.288E-06	6.462E-07	1.390E-07	2.080E-08	1.890E-09	8.421E-11	3167.364
3447	12 Q 53	755.503	2.751E-06	7.914E-07	1.741E-07	2.675E-08	2.514E-09	1.170E-10	3125.115
3448	6 P 46	755.563	3.080E-05	1.368E-05	5.067E-06	1.473E-06	3.069E-07	3.976E-08	2128.844
3449	14 Q 52	755.578	3.295E-06	9.651E-07	2.169E-07	3.424E-08	3.426E-09	1.616E-10	3083.565
3450	3 R 45	755.605	1.029E-04	6.137E-05	3.236E-05	1.448E-05	5.171E-06	1.339E-06	1456.466
3451	12 Q 51	755.612	3.924E-06	1.171E-06	2.690E-07	4.357E-08	4.373E-09	2.215E-10	3042.675
3452	12 U 50	755.685	6.661E-06	1.416E-06	3.320E-07	5.517E-08	5.716E-09	3.617E-10	3062.906
3453	8 R 17	755.708	1.169E-03	6.965E-04	3.671E-04	1.641E-04	5.862E-05	1.510E-05	1454.908
3454	12 Q 49	755.722	5.519E-06	1.703E-06	4.076E-07	6.949E-08	7.426E-09	4.080E-10	2463.755
3455	12 Q 48	755.794	6.501E-06	2.040E-06	4.981E-07	8.699E-08	9.591E-09	5.481E-10	2922.350
3456	3 R 45	755.812	9.200E-03	5.433E-03	2.832E-03	1.250E-03	4.392E-04	1.114E-04	1475.426
3457	12 Q 47	755.832	7.624E-06	2.432E-06	6.057E-07	1.083E-07	1.231E-08	7.317E-10	2887.754
3458	12 U 46	755.903	8.906E-06	4.887E-06	7.329E-07	1.344E-07	1.571E-08	9.650E-10	2850.917
3459	12 U 65	755.944	1.056E-05	3.611E-06	8.824E-07	1.654E-07	1.991E-08	1.275E-09	2814.688
3460	12 U 44	756.011	1.200E-05	4.012E-06	1.057E-06	2.402E-07	2.510E-08	1.667E-09	2779.608
3461	12 Q 43	756.052	1.183E-05	4.697E-06	1.260E-06	2.464E-07	3.144E-08	2.163E-09	2745.134
3462	12 U 42	756.119	1.569E-05	5.473E-06	1.495E-06	2.993E-07	3.915E-08	2.786E-09	2711.425
3463	8 R 18	756.124	1.165E-03	6.900E-04	3.609E-04	1.559E-04	5.446E-05	1.442E-05	1464.067
3464	12 Q 41	756.160	1.816E-05	6.346E-06	1.764E-06	3.606E-07	4.646E-08	3.567E-09	2678.514
3465	12 U 40	756.225	2.068E-05	7.375E-06	2.071E-06	4.323E-07	5.956E-08	4.534E-09	2660.365

LINE	BOND CODE	WAVE NUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
3460	12 Q 39	756.267	2.344E-C5	6.421E-06	2.419E-06	5.151E-07	7.277E-08	5.721E-09	2615.026
3467	12 Q 38	756.330	2.445E-C5	9.631E-06	2.811E-06	6.104E-07	6.837E-08	7.170E-09	2584.442
3468	12 Q 37	756.372	2.572E-C5	1.096E-05	3.249E-06	7.192E-07	1.066E-07	8.920E-09	2554.661
3469	12 Q 36	756.432	3.324E-05	1.242E-05	3.737E-06	8.426E-07	1.279E-07	1.102E-08	2525.643
3470	12 Q 35	756.473	3.700E-C5	1.399E-05	4.274E-06	9.813E-07	1.523E-07	1.351E-08	2497.427
3471	12 Q 34	756.531	4.101E-05	1.570E-05	4.864E-06	1.136E-06	1.803E-07	1.645E-08	2469.475
3472	12 Q 33	756.577	4.524E-05	1.752E-05	5.504E-06	1.308E-06	2.120E-07	1.989E-08	2443.323
3473	12 Q 32	756.628	4.969E-05	1.946E-05	6.196E-06	1.497E-06	2.380E-07	2.380E-08	2417.438
3474	12 Q 31	756.687	5.429E-05	2.149E-05	6.936E-06	1.703E-06	2.675E-07	2.842E-08	2392.350
3475	12 K 45	756.688	9.239E-C6	2.951E-06	7.362E-07	1.320E-07	1.503E-08	8.960E-10	2664.462
3476	14 K 23	756.712	5.496E-05	2.421E-05	8.076E-06	2.548E-06	5.228E-07	6.942E-08	2148.113
3477	12 Q 30	756.720	5.905E-05	2.633E-05	7.722E-06	1.926E-06	3.315E-07	3.359E-08	2366.033
3478	12 Q 29	756.759	6.391E-05	2.844E-05	8.549E-06	2.164E-06	3.796E-07	3.941E-08	2344.511
3479	12 Q 28	756.808	6.883E-05	2.810E-05	9.410E-06	2.417E-06	4.317E-07	4.708E-08	2321.760
3480	12 Q 27	756.846	7.376E-05	3.040E-05	1.030E-05	2.683E-06	4.876E-07	5.31E-08	2299.804
3481	12 Q 26	756.892	7.863E-05	3.271E-05	1.120E-05	2.959E-06	5.470E-07	6.076E-08	2278.621
3482	12 Q 25	756.928	8.339E-05	3.500E-05	1.212E-05	3.241E-06	6.091E-07	6.909E-08	2258.431
3483	12 Q 24	756.972	8.796E-05	3.724E-05	1.302E-05	3.528E-06	6.734E-07	7.795E-08	2238.617
3484	3 R 47	757.003	7.606E-05	4.394E-05	2.231E-05	9.527E-06	3.211E-06	7.715E-07	1529.013
3485	12 Q 23	757.006	9.226E-05	3.938E-05	1.391E-05	3.814E-06	7.389E-07	8.721E-08	2219.794
3486	12 Q 22	757.046	9.623E-05	4.140E-05	1.476E-05	4.094E-06	8.048E-07	9.676E-08	2201.748
3487	12 Q 21	757.078	9.978E-05	4.325E-05	1.556E-05	4.364E-06	8.697E-07	1.064E-07	2184.492
3488	6 P 44	757.108	4.146E-C5	1.897E-05	7.370E-06	2.220E-06	4.895E-07	6.822E-08	2057.450
3489	12 Q 20	757.115	1.028E-04	4.489E-05	1.629E-05	4.617E-06	9.325E-07	1.161E-07	2168.014
3490	12 Q 19	757.145	1.053E-04	4.629E-05	1.693E-05	4.848E-06	9.915E-07	1.254E-07	2152.326
3491	12 Q 18	757.178	1.071E-04	4.739E-05	1.748E-05	5.051E-06	1.045E-06	1.343E-07	2137.416
3492	12 Q 17	757.205	1.082E-04	4.817E-05	1.789E-05	5.219E-06	1.092E-06	1.423E-07	2123.296
3493	12 Q 16	757.236	1.089E-04	4.858E-05	1.817E-05	5.349E-06	1.131E-06	1.494E-07	2109.950
3494	8 R 19	757.248	1.154E-C3	6.788E-04	3.523E-04	1.347E-04	5.396E-05	1.327E-05	1483.944
3495	12 Q 15	757.260	1.079E-04	4.859E-05	1.830E-05	5.425E-06	1.159E-06	1.551E-07	2097.403
3496	12 Q 14	757.287	1.064E-04	4.817E-05	1.825E-05	5.452E-06	1.176E-06	1.593E-07	2085.632
3497	3 K 47	757.299	6.800E-03	3.890E-03	1.953E-03	8.227E-04	4.727E-04	6.420E-05	1547.976
3498	12 Q 13	757.309	1.040E-04	4.728E-05	1.802E-05	5.421E-06	1.180E-06	1.618E-07	2074.646
3499	12 Q 12	757.332	1.005E-04	4.592E-05	1.759E-05	5.327E-06	1.169E-06	1.618E-07	2064.446
3500	12 Q 11	757.351	9.607E-05	4.406E-05	1.696E-05	5.167E-06	1.142E-06	1.597E-07	2055.031
3501	12 Q 10	757.371	9.055E-05	4.169E-05	1.612E-05	4.939E-06	1.099E-06	1.550E-07	2046.359
3502	12 Q 9	757.387	8.568E-05	3.879E-05	1.506E-05	4.639E-06	1.039E-06	1.477E-07	2038.352
3503	12 Q 8	757.403	7.639E-05	3.538E-05	1.379E-05	4.264E-06	9.605E-07	1.375E-07	2031.429
3504	12 Q 7	757.416	6.762E-05	3.142E-05	1.239E-05	3.813E-06	8.636E-07	1.245E-07	2025.212
3505	12 Q 6	757.429	5.776E-05	2.690E-05	1.055E-05	3.287E-06	7.475E-07	1.084E-07	2019.718
3506	12 Q 5	757.439	4.666E-05	2.178E-05	8.261E-06	2.676E-06	6.107E-07	8.895E-08	2015.016
3507	12 Q 4	757.448	3.404E-05	1.591E-05	6.269E-06	1.964E-06	4.497E-07	6.577E-08	2011.086
3508	12 Q 3	757.454	1.920E-05	8.987E-06	3.546E-06	1.113E-06	2.555E-07	3.749E-08	2007.947
3509	8 R 20	757.586	1.133E-03	6.621E-04	3.609E-04	1.481E-04	5.104E-05	1.263E-05	1499.609
3510	14 K 25	758.153	4.983E-C2	2.158E-05	7.756E-06	2.172E-06	4.323E-07	5.260E-08	2186.308

LINE	BRNU CODE	WAVE NUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
3511	10 R 47	758.301	6.831E-06	2.114E-06	5.077E-07	8.688E-08	9.339E-09	5.166E-10	2456.974
3512	3 M 49	758.304	5.527E-05	3.090E-05	1.508E-05	6.135E-06	1.946E-06	4.326E-07	1604.011
3513	6 P 42	758.656	5.466E-05	2.588E-05	1.031E-05	3.273E-06	7.640E-07	1.159E-07	1990.109
3514	3 R 49	759.785	2.736E-03	2.368E-03	1.320E-03	5.248E-04	1.653E-04	3.600E-05	1623.637
3515	8 R 21	759.786	1.107E-03	6.421E-04	3.277E-04	1.409E-04	4.792E-05	1.160E-05	1516.651
3516	8 R 22	759.789	1.073E-03	6.176E-04	3.123E-04	1.328E-04	4.456E-05	1.069E-05	1533.687
3517	14 R 27	759.795	4.422E-05	1.881E-05	6.614E-06	1.804E-06	3.473E-07	4.663E-08	2227.784
3518	636	759.795	3.951E-05	2.134E-05	9.992E-06	3.866E-06	1.151E-06	2.361E-07	1683.439
3519	16 M 49	759.795	4.967E-06	1.487E-06	3.433E-07	5.597E-08	5.663E-09	2.899E-10	303.605
3520	6 P 40	760.205	7.133E-05	3.462E-05	1.423E-05	4.720E-06	1.157E-06	1.648E-07	1925.378
3521	3 R 51	760.208	3.533E-03	1.890E-03	8.748E-04	3.339E-04	9.783E-05	1.962E-05	1742.407
3522	8 R 23	760.321	1.035E-03	5.910E-04	2.941E-04	1.245E-04	4.116E-05	9.654E-06	1551.688
3523	6 R 24	760.401	9.903E-04	5.611E-04	2.784E-04	1.156E-04	3.766E-05	8.602E-06	1570.084
3524	12 R 3	760.586	2.755E-06	1.290E-06	5.089E-07	1.597E-07	3.666E-08	5.374E-09	2007.947
3525	14 M 29	761.007	3.844E-05	1.603E-05	5.509E-06	1.461E-06	2.714E-07	3.334E-08	2272.301
3526	3 R 53	761.158	2.778E-05	1.448E-05	6.494E-06	2.384E-06	6.522E-07	1.254E-07	1765.315
3527	12 R 4	761.363	6.521E-06	3.048E-06	1.201E-06	3.761E-07	8.611E-08	1.259E-08	2011.066
3528	18 M 51	761.538	3.552E-06	1.028E-06	2.276E-07	3.529E-08	3.353E-09	1.583E-10	3111.339
3529	3 R 53	761.751	2.468E-03	1.264E-03	5.686E-04	2.060E-04	5.652E-05	1.044E-05	1784.205
3530	6 P 38	761.759	9.115E-05	4.543E-05	1.933E-05	6.654E-06	1.714E-06	4.516E-07	1863.759
3531	6 K 25	761.854	9.442E-04	5.304E-04	2.604E-04	1.068E-04	3.425E-05	7.724E-06	1969.655
3532	8 R 26	761.913	8.934E-04	4.974E-04	2.417E-04	9.785E-05	3.087E-05	6.815E-06	1610.016
3533	12 R 5	762.137	1.068E-05	4.982E-06	1.958E-06	6.120E-07	1.397E-07	2.034E-08	2015.010
3534	14 M 31	762.320	3.276E-05	1.339E-05	4.486E-06	1.153E-06	2.063E-07	2.196E-08	2319.938
3535	636	762.531	1.922E-05	9.649E-06	4.140E-06	1.440E-06	3.753E-07	6.480E-08	1850.295
3536	12 R 6	762.910	1.493E-05	6.952E-06	2.726E-06	8.493E-07	1.931E-07	2.799E-08	2019.718
3537	18 R 53	763.163	2.499E-06	6.976E-07	1.482E-07	2.178E-08	1.938E-09	8.410E-11	3193.182
3538	3 R 55	763.232	1.719E-03	8.548E-04	3.626E-04	1.244E-04	3.189E-05	5.395E-06	1669.270
3539	6 P 36	763.314	1.144E-04	5.450E-05	2.566E-05	9.170E-06	2.475E-06	4.471E-07	1805.253
3540	8 M 28	763.336	7.885E-04	4.308E-04	2.046E-04	8.061E-05	2.457E-05	5.140E-06	1653.077
3541	8 K 27	763.384	8.425E-04	4.648E-04	2.233E-04	8.920E-05	2.767E-05	5.978E-06	1631.152
3542	12 R 7	763.681	1.911E-05	8.875E-06	3.470E-06	1.077E-06	2.439E-07	3.515E-08	2025.612
3543	14 M 33	763.824	2.740E-05	1.095E-05	3.572E-06	8.893E-07	1.527E-07	1.543E-08	2370.654
3544	636	763.838	1.308E-05	6.320E-06	2.589E-06	8.510E-07	2.067E-07	3.261E-08	1938.287
3545	12 M 6	764.450	2.310E-05	1.070E-05	4.169E-06	1.289E-06	2.904E-07	4.158E-08	2031.489
3546	3 R 57	764.711	1.170E-03	5.599E-04	2.268E-04	7.353E-05	1.757E-05	2.715E-06	1957.360
3547	8 M 30	764.748	6.816E-04	3.650E-04	1.692E-04	6.471E-05	1.901E-05	3.829E-06	1699.265
3548	18 M 55	764.792	4.652E-07	9.442E-08	1.944E-08	1.316E-08	1.094E-09	4.350E-11	3278.130
3549	6 P 34	764.871	1.410E-04	7.866E-05	3.255E-05	1.235E-05	3.483E-06	6.661E-07	1749.861
3550	8 R 29	764.912	7.359E-04	3.981E-04	1.865E-04	7.254E-05	2.171E-05	4.481E-06	1675.776
3551	12 R 9	765.217	2.662E-05	1.239E-05	4.809E-06	1.480E-06	3.315E-07	4.713E-08	2038.524
3552	14 R 35	765.218	2.249E-05	8.777E-06	2.786E-06	6.646E-07	1.101E-07	1.053E-08	2424.567
3553	636	765.260	8.159E-06	4.087E-06	1.589E-06	4.926E-07	1.112E-07	1.596E-08	2024.581
3554	12 M 10	765.984	3.023E-05	1.391E-05	5.374E-06	1.647E-06	3.666E-07	5.169E-08	2046.594
3555	8 R 32	766.151	5.775E-04	3.026E-04	1.367E-04	5.066E-05	1.430E-05	2.740E-06	1740.581

LINE	BAND CODE	WAVE NUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
3556	3 R 54	766.190	7.838E-04	3.604E-04	1.392E-04	4.257E-05	9.457E-06	1.331E-06	2.48.553
3557	18 R 57	766.425	1.178E-06	3.046E-07	5.909E-08	7.782E-09	6.030E-10	2.190E-11	3.66.184
3558	6 P 32	766.430	1.706E-04	9.141E-05	4.241E-05	1.624E-05	4.775E-06	9.637E-07	1697.584
3559	8 R 31	766.438	6.298E-04	3.37E-04	1.528E-04	5.751E-05	1.657E-05	3.250E-06	1723.228
3560	14 R 37	766.603	1.812E-05	6.899E-06	2.144E-06	4.926E-07	7.741E-08	6.980E-09	2401.558
3561	636	766.616	5.772E-06	2.572E-06	9.569E-07	2.742E-07	5.847E-08	7.622E-09	2123.677
3562	12 R 11	766.747	3.327E-05	1.525E-05	5.870E-06	1.788E-06	3.952E-07	5.523E-08	2055.031
3563	12 R 12	767.511	3.591E-05	1.640E-05	6.280E-06	1.780E-06	4.173E-07	5.773E-08	2064.446
3564	8 R 34	767.544	4.748E-04	2.458E-04	1.080E-04	3.871E-05	1.048E-05	1.902E-06	1801.043
3565	3 R 61	767.668	5.166E-04	2.280E-04	8.380E-05	2.413E-05	4.971E-06	6.349E-07	2142.849
3566	8 R 53	767.962	5.285E-04	2.739E-04	1.221E-04	7.749E-05	1.230E-05	2.294E-06	1774.467
3567	3 R 63	767.976	3.744E-06	1.599E-06	5.650E-07	1.549E-07	3.002E-08	3.541E-09	2221.274
3568	14 R 39	767.979	1.435E-05	5.320E-06	1.587E-06	3.505E-07	5.305E-08	4.447E-09	2541.665
3569	6 P 30	767.991	2.025E-04	1.081E-04	5.277E-05	2.084E-05	6.376E-06	1.353E-06	1648.422
3570	12 R 13	768.271	3.815E-05	1.734E-05	6.606E-06	1.987E-06	4.323E-07	5.521E-08	2074.648
3571	8 R 36	768.928	3.912E-04	1.956E-04	8.351E-05	2.888E-05	7.478E-06	1.282E-06	1856.591
3572	12 R 14	769.032	3.996E-05	1.808E-05	6.847E-06	2.045E-06	4.610E-07	5.973E-08	2085.637
3573	3 R 63	769.146	3.352E-04	1.477E-04	4.951E-05	1.340E-05	2.553E-06	2.950E-07	2440.245
3574	3 R 65	769.311	2.390E-06	9.770E-07	3.275E-07	8.423E-08	1.506E-08	1.602E-09	2321.172
3575	14 R 41	769.345	1.116E-05	4.026E-06	1.272E-06	2.490E-07	3.545E-08	2.816E-09	2604.888
3576	8 R 35	769.483	4.351E-04	2.202E-04	9.340E-05	3.359E-05	8.897E-06	1.570E-06	1848.412
3577	6 P 28	769.552	2.356E-04	1.316E-04	6.417E-05	2.611E-05	8.284E-06	1.844E-06	1602.377
3578	12 R 15	769.788	4.135E-05	1.861E-05	7.086E-06	2.077E-06	4.336E-07	5.936E-08	2097.403
3579	8 R 38	770.302	3.132E-04	1.546E-04	6.318E-05	2.104E-05	5.200E-06	8.370E-07	1915.283
3580	12 R 16	770.546	4.233E-05	1.895E-05	7.085E-06	2.083E-06	4.406E-07	5.825E-08	2109.950
3581	3 R 65	770.623	2.140E-04	8.662E-05	2.871E-05	7.283E-06	1.281E-06	1.335E-07	2340.740
3582	3 R 67	770.651	1.502E-06	5.868E-07	1.863E-07	4.484E-08	7.380E-09	7.657E-10	2425.367
3583	14 R 43	770.703	8.345E-06	4.989E-06	8.345E-07	1.712E-07	2.311E-08	1.715E-09	2671.224
3584	8 R 37	771.002	3.515E-04	1.735E-04	7.297E-05	2.477E-05	6.268E-06	1.043E-06	1885.542
3585	6 P 26	771.115	2.686E-04	1.528E-04	7.623E-05	3.187E-05	1.047E-05	2.435E-06	1559.450
3586	12 R 17	771.498	4.290E-05	1.904E-05	7.089E-06	2.067E-06	4.325E-07	5.635E-08	2123.296
3587	8 R 40	771.667	2.462E-04	1.168E-04	4.681E-05	1.498E-05	3.244E-06	5.336E-07	1977.098
3588	14 R 45	772.051	6.411E-06	2.179E-06	5.859E-07	1.151E-07	1.470E-08	1.016E-09	2740.673
3589	12 R 18	772.054	4.309E-05	1.906E-05	7.025E-06	2.030E-06	4.199E-07	5.393E-08	2137.416
3590	3 R 67	772.100	1.345E-04	5.203E-05	1.633E-05	3.878E-06	6.278E-07	5.881E-08	2444.333
3591	8 R 39	772.520	2.784E-04	1.341E-04	5.464E-05	1.784E-05	4.303E-06	6.729E-07	1945.756
3592	6 P 24	772.678	2.958E-04	1.736E-04	8.388E-05	3.790E-05	1.285E-05	3.113E-06	1519.642
3593	12 R 19	772.803	4.292E-05	1.866E-05	6.858E-06	1.974E-06	4.036E-07	5.103E-08	2152.326
3594	8 R 42	773.022	1.902E-04	8.787E-05	3.397E-05	1.043E-05	2.329E-06	3.249E-07	2042.036
3595	14 R 47	773.350	4.737E-06	1.560E-06	3.038E-07	7.572E-08	9.128E-09	5.854E-10	2613.233
3596	12 R 20	773.556	4.242E-05	1.851E-05	6.735E-06	1.902E-06	3.841E-07	4.780E-08	2168.014
3597	3 R 69	773.578	8.321E-05	3.073E-05	9.121E-06	2.023E-06	3.007E-07	2.544E-08	2551.021
3598	8 R 41	774.036	2.174E-04	1.017E-04	4.980E-05	1.257E-05	2.880E-06	4.226E-07	2009.173
3599	6 P 22	774.442	3.271E-04	1.944E-04	9.988E-05	4.385E-05	1.511E-05	3.651E-06	1462.573
3600	12 R 21	774.337	4.162E-05	1.803E-05	6.484E-06	1.818E-06	3.622E-07	4.431E-08	2184.492

LINE	BAND CODE	WAVE NUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
3601	8 R 44	774.368	1.443E-04	6.459E-05	2.415E-05	7.100E-06	1.501E-06	1.583E-07	2110.044
3602	14 K 49	774.721	3.442E-06	1.047E-06	2.728E-07	4.875E-08	5.531E-09	3.281E-10	2888.904
3603	12 R 22	775.052	4.055E-05	1.744E-05	6.413E-06	1.743E-06	3.386E-07	4.669E-08	2201.741
3604	3 K 71	775.055	5.068E-05	1.784E-05	5.000E-06	1.034E-06	1.407E-07	1.055E-08	2660.803
3605	8 R 43	775.550	1.685E-04	7.562E-05	2.879E-05	8.651E-06	1.880E-06	2.573E-07	2075.672
3606	8 R 46	775.705	1.077E-04	4.671E-05	1.682E-05	4.726E-06	9.441E-07	1.159E-07	2181.273
3607	14 K 23	775.795	3.924E-05	1.674E-05	5.970E-06	1.620E-06	3.137E-07	3.702E-08	2219.794
3608	6 P 20	775.806	3.484E-04	2.080E-04	1.099E-04	4.928E-05	1.767E-05	4.602E-06	1449.384
3609	14 K 51	776.042	2.480E-06	7.573E-07	1.800E-07	3.071E-08	3.272E-09	1.790E-10	2967.684
3610	3 K 73	776.534	3.039E-05	1.018E-05	2.690E-06	5.174E-07	6.437E-08	4.298E-09	2773.677
3611	12 R 24	776.543	3.774E-05	1.597E-05	5.581E-06	1.511E-06	2.884E-07	3.337E-08	2238.617
3612	8 K 48	777.033	7.896E-05	3.316E-05	1.149E-05	3.077E-06	5.793E-07	6.588E-08	2255.571
3613	8 R 45	777.063	1.253E-04	5.824E-05	2.026E-05	5.824E-06	1.197E-06	1.525E-07	2145.232
3614	12 K 25	777.282	3.607E-05	1.513E-05	5.235E-06	1.400E-06	2.629E-07	2.582E-08	2258.232
3615	14 R 53	777.355	1.729E-06	5.137E-07	1.175E-07	1.844E-08	1.890E-09	9.504E-11	3044.571
3616	6 P 18	777.371	3.615E-04	2.187E-04	1.174E-04	5.368E-05	1.972E-05	5.299E-06	1418.936
3617	3 R 75	778.013	1.794E-05	5.714E-06	1.421E-06	2.537E-07	2.877E-08	1.705E-09	2889.642
3618	12 R 26	778.029	3.427E-05	1.425E-05	4.878E-06	1.267E-06	2.379E-07	2.642E-08	2278.621
3619	8 R 50	778.352	5.694E-05	2.312E-05	7.691E-06	1.961E-06	3.464E-07	3.644E-08	2332.987
3620	8 R 47	778.574	9.268E-05	3.957E-05	1.398E-05	3.835E-06	7.439E-07	8.793E-08	2218.032
3621	14 R 55	778.659	1.196E-06	3.423E-07	7.488E-08	1.143E-08	1.066E-09	4.912E-11	3134.564
3622	12 R 27	778.764	3.238E-05	1.334E-05	4.515E-06	1.176E-06	2.136E-07	2.421E-08	2294.804
3623	6 P 16	778.936	3.645E-04	2.231E-04	1.215E-04	5.853E-05	2.123E-05	5.865E-06	1591.609
3624	3 R 77	779.494	1.043E-05	3.153E-06	7.367E-07	1.219E-07	1.257E-08	5.591E-10	3008.694
3625	12 R 28	779.509	3.042E-05	1.241E-05	4.113E-06	1.066E-06	1.904E-07	2.023E-08	2321.760
3626	8 R 52	779.667	4.038E-05	1.583E-05	5.049E-06	2.224E-06	2.028E-07	1.961E-08	2433.519
3627	8 K 49	780.084	6.741E-05	2.784E-05	9.454E-06	2.471E-06	4.511E-07	4.531E-08	2293.840
3628	12 K 29	780.242	2.842E-05	1.148E-05	3.747E-06	9.608E-07	1.684E-07	1.748E-08	2344.511
3629	6 P 14	780.501	3.555E-04	2.199E-04	1.212E-04	5.731E-05	2.194E-05	6.215E-06	1367.404
3630	8 R 54	780.565	2.817E-05	1.065E-05	3.250E-06	7.459E-07	1.157E-07	1.627E-08	2497.165
3631	3 R 79	780.976	5.968E-06	1.711E-06	3.750E-07	5.739E-08	5.366E-09	2.482E-10	3130.833
3632	12 R 30	780.985	2.642E-05	1.056E-05	3.450E-06	8.600E-07	1.480E-07	1.549E-08	2368.633
3633	8 R 51	781.593	4.922E-05	1.924E-05	6.269E-06	1.558E-06	2.663E-07	2.641E-08	2372.866
3634	12 K 31	781.715	2.443E-05	9.665E-06	3.117E-06	7.649E-07	1.291E-07	1.275E-08	2392.350
3635	6 P 12	782.065	3.336E-04	2.082E-04	1.131E-04	5.561E-05	2.165E-05	6.267E-06	1346.321
3636	8 R 56	782.259	1.933E-05	7.034E-06	2.052E-06	4.455E-07	6.450E-08	5.294E-09	2583.725
3637	14 K 32	782.457	2.247E-05	8.795E-06	2.799E-06	6.760E-07	1.118E-07	1.076E-08	2417.438
3638	3 K 81	782.460	3.363E-06	9.130E-07	1.874E-07	2.647E-08	2.239E-09	9.107E-11	3256.055
3639	8 R 53	783.101	3.593E-05	1.306E-05	4.076E-06	9.610E-07	1.542E-07	1.429E-08	2454.450
3640	12 K 33	783.184	2.057E-05	7.960E-06	2.499E-06	5.937E-07	9.616E-08	9.016E-09	2443.323
3641	8 R 58	783.554	1.305E-05	4.566E-06	1.271E-06	2.605E-07	3.510E-08	2.597E-09	2673.798
3642	6 P 10	783.630	2.481E-04	1.876E-04	1.055E-04	5.114E-05	2.020E-05	5.266E-06	1328.381
3643	12 R 34	783.925	1.874E-05	7.167E-06	2.219E-06	5.182E-07	8.217E-08	7.496E-09	2469.975
3644	3 R 83	783.946	1.866E-06	4.791E-07	9.194E-08	1.156E-08	9.134E-10	3.250E-11	3386.360
3645	8 R 55	784.608	2.344E-05	8.708E-06	2.599E-06	5.803E-07	8.699E-08	7.383E-09	2540.124

LINE	BAND CODE	WAVELENGTH	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
3666	L2 K 35	784.049	1.699E-05	6.419E-06	1.459E-06	4.495E-07	6.474E-08	6.165E-09	2497.427
3667	U K 60	734.022	8.667E-06	2.912E-06	7.720E-07	1.491E-07	1.865E-08	1.254E-09	2766.780
3668	6 P 8	785.194	2.455E-04	1.500E-04	8.958E-05	4.302E-05	1.751E-05	5.444E-06	1313.524
3669	L2 K 36	785.389	1.533E-06	5.721E-06	1.720E-06	3.877E-07	5.880E-08	5.066E-09	2525.643
3670	3 A 85	785.435	1.020E-06	4.429E-08	1.429E-08	5.299E-09	3.642E-10	1.134E-11	3515.745
3671	8 K 62	786.091	5.665E-06	1.825E-06	4.601E-07	8.358E-08	9.680E-09	5.897E-10	2862.871
3672	L2 R 37	786.111	1.376E-05	5.072E-06	1.502E-06	3.323E-07	4.925E-08	4.118E-09	2584.661
3673	8 R 57	786.114	1.598E-05	5.704E-06	1.626E-06	3.430E-07	4.791E-08	3.714E-09	2628.483
3674	6 P 6	786.758	1.889E-04	1.202E-04	6.859E-05	3.381E-05	1.364E-05	4.321E-06	1301.810
3675	L2 K 8	786.851	1.230E-05	4.475E-06	1.305E-06	2.832E-07	4.096E-08	3.324E-09	2584.442
3676	8 R 64	787.323	3.644E-06	1.124E-06	2.691E-07	4.587E-08	4.908E-09	2.700E-10	2462.070
3677	L2 R 39	787.509	1.094E-05	3.929E-06	1.127E-06	2.399E-07	3.388E-08	2.662E-09	2615.022
3678	8 R 59	787.620	1.071E-05	3.671E-06	9.973E-07	1.985E-07	2.577E-08	1.818E-09	2719.914
3679	L2 R 40	788.109	9.693E-06	3.432E-06	9.690E-07	2.041E-07	2.783E-08	2.116E-09	2666.564
3680	6 P 4	788.321	1.184E-04	7.562E-05	4.333E-05	2.147E-05	8.721E-06	2.866E-06	1293.215
3681	8 R 66	788.607	2.307E-06	6.807E-07	1.544E-07	2.466E-08	2.431E-09	1.204E-10	3064.374
3682	L2 R 41	789.026	8.546E-06	2.984E-06	8.283E-07	1.693E-07	2.272E-08	1.672E-09	2678.519
3683	8 R 61	789.126	7.056E-06	2.322E-06	6.003E-07	1.129E-07	1.354E-08	8.668E-10	2814.455
3684	L2 R 42	789.766	7.502E-06	2.582E-06	7.045E-07	1.410E-07	1.843E-08	1.311E-09	2711.425
3685	8 R 68	789.854	1.437E-06	4.051E-07	8.696E-08	1.298E-08	1.176E-09	5.227E-11	3169.782
3686	6 P 2	789.884	4.060E-05	2.599E-05	1.494E-05	7.428E-06	3.030E-06	9.315E-07	1287.753
3687	L2 R 43	790.480	6.555E-06	2.223E-06	5.959E-07	1.167E-07	1.465E-08	1.021E-09	2745.139
3688	8 R 63	790.632	4.577E-06	1.443E-06	3.545E-07	6.239E-08	6.947E-09	4.023E-10	2912.105
3689	L2 R 44	791.221	5.703E-06	1.905E-06	5.017E-07	9.609E-08	1.189E-08	7.893E-10	2779.608
3690	6 Q 2	791.451	2.034E-04	1.302E-04	7.484E-05	3.721E-05	1.518E-05	4.667E-06	1287.753
3691	6 Q 4	791.463	3.567E-04	2.278E-04	1.305E-04	6.468E-05	2.627E-05	8.031E-06	1243.215
3692	6 Q 6	791.481	4.944E-04	3.146E-04	1.795E-04	8.844E-05	3.567E-05	1.081E-05	1301.810
3693	6 Q 8	791.507	6.113E-04	3.870E-04	2.194E-04	1.073E-04	4.288E-05	1.284E-05	1313.524
3694	6 Q 10	791.539	7.033E-04	4.424E-04	2.468E-04	1.206E-04	4.761E-05	1.404E-05	1328.361
3695	6 Q 12	791.579	7.682E-04	4.794E-04	2.672E-04	1.280E-04	4.981E-05	1.442E-05	1346.321
3696	6 Q 14	791.625	8.054E-04	4.981E-04	2.745E-04	1.297E-04	4.965E-05	1.466E-05	1367.404
3697	6 Q 16	791.679	8.161E-04	4.994E-04	2.718E-04	1.265E-04	4.748E-05	1.312E-05	1391.609
3698	6 Q 18	791.740	8.027E-04	4.854E-04	2.604E-04	1.191E-04	4.375E-05	1.175E-05	1418.936
3699	6 Q 20	791.808	7.607E-04	4.587E-04	2.422E-04	1.086E-04	3.893E-05	1.014E-05	1447.384
3700	6 Q 22	791.884	7.183E-04	4.224E-04	2.191E-04	9.618E-05	3.357E-05	8.443E-06	1482.553
3701	L2 K 42	791.933	4.940E-06	1.625E-06	4.200E-07	7.866E-08	9.467E-09	6.058E-10	2814.680
3702	6 Q 24	791.968	6.501E-04	3.796E-04	1.932E-04	8.284E-05	2.607E-05	6.800E-06	1519.642
3703	6 Q 26	792.059	5.863E-04	3.335E-04	1.662E-04	6.947E-05	2.281E-05	5.303E-06	1539.450
3704	8 R 65	792.138	4.921E-06	8.816E-07	2.054E-07	3.505E-08	3.482E-09	1.818E-10	3012.801
3705	6 Q 28	792.159	5.133E-04	2.865E-04	1.397E-04	6.679E-05	1.801E-05	4.608E-06	1602.377
3706	6 R 0	792.226	6.238E-05	5.274E-05	3.037E-05	1.513E-05	6.181E-06	1.905E-06	1285.410
3707	6 Q 30	792.266	4.466E-04	2.410E-04	1.147E-04	4.528E-05	1.364E-05	2.538E-06	1648.422
3708	6 C 32	792.383	3.709E-04	1.986E-04	9.210E-05	3.524E-05	1.036E-05	2.090E-06	1697.584
3709	6 Q 34	792.508	3.065E-04	1.604E-04	7.238E-05	2.638E-05	7.551E-06	1.444E-06	1744.801
3710	6 Q 36	792.642	2.466E-04	1.270E-04	5.568E-05	1.989E-05	5.364E-06	9.688E-07	1805.253

LIN#	BAND	CUI#E	WAVELENGTH	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
3691	12 R	46	792.074	4.261E-06	1.380E-06	3.500E-07	6.405E-08	7.689E-09	6.618E-10	2850.917
3692	6 Q	38	792.785	1.981E-04	9.868E-05	4.193E-05	1.443E-05	3.715E-06	6.516E-07	1863.759
3693	6 Q	40	792.937	1.551E-04	7.521E-05	3.096E-05	1.024E-05	2.509E-06	4.009E-07	1925.378
3694	6 Q	42	793.100	1.194E-04	5.627E-05	2.239E-05	7.105E-06	1.653E-06	2.469E-07	1990.165
3695	6 Q	44	793.272	9.030E-05	4.132E-05	1.587E-05	4.822E-06	1.003E-06	1.480E-07	2057.450
3696	12 R	47	793.385	3.659E-06	1.166E-06	2.901E-07	5.185E-08	5.887E-09	3.495E-10	2887.755
3697	6 Q	46	793.455	6.716E-05	2.980E-05	1.103E-05	3.202E-06	6.667E-07	8.634E-08	2128.899
3698	8 R	67	793.644	1.835E-06	5.293E-07	1.168E-07	1.803E-08	1.705E-09	8.601E-11	3116.723
3699	6 Q	48	793.849	4.912E-05	2.110E-05	7.511E-06	2.080E-06	4.083E-07	4.900E-08	2202.457
3700	6 R	2	793.788	1.633E-04	1.045E-04	6.006E-05	2.986E-05	1.248E-05	3.744E-06	1267.753
3701	6 Q	50	793.854	3.534E-05	1.668E-05	5.018E-06	1.323E-06	2.641E-07	2.706E-08	2280.120
3702	6 Q	52	794.070	2.508E-05	1.003E-05	3.288E-06	8.233E-07	1.425E-07	1.454E-08	2360.588
3703	12 R	48	794.127	3.129E-06	9.810E-07	4.393E-07	4.176E-08	4.600E-09	2.628E-10	2925.230
3704	6 Q	54	794.298	1.741E-05	6.732E-06	2.113E-06	5.016E-07	8.121E-08	7.610E-09	2443.762
3705	6 Q	56	794.539	1.192E-05	4.441E-06	1.332E-06	2.992E-07	4.521E-08	3.876E-09	2530.233
3706	6 Q	58	794.792	8.037E-06	2.679E-06	8.239E-07	1.748E-07	2.458E-08	1.922E-09	2619.806
3707	12 R	49	794.836	2.664E-06	8.214E-07	1.964E-07	3.743E-08	3.572E-09	1.961E-10	2962.755
3708	6 Q	60	795.058	5.332E-06	1.834E-06	5.001E-07	9.997E-08	1.306E-08	9.283E-10	2717.477
3709	8 R	69	795.151	1.135E-06	3.124E-07	6.519E-08	9.398E-09	8.157E-10	3.429E-11	3223.688
3710	6 Q	6	795.337	3.481E-06	1.148E-06	2.978E-07	5.600E-08	6.775E-09	4.365E-10	2808.244
3711	6 R	4	795.368	2.391E-04	1.527E-04	8.748E-05	4.334E-05	1.760E-05	5.380E-06	1493.215
3712	12 R	50	795.580	2.259E-06	6.847E-07	1.604E-07	2.863E-08	2.757E-09	1.454E-10	3022.906
3713	6 Q	64	795.631	2.237E-06	7.066E-07	1.741E-07	3.073E-08	3.435E-09	1.999E-10	2907.106
3714	6 Q	66	795.938	1.415E-06	4.276E-07	9.984E-08	1.651E-08	1.701E-09	8.917E-11	3009.680
3715	12 R	51	796.288	1.07E-06	5.681E-07	1.303E-07	2.109E-08	2.115E-09	1.071E-10	3042.675
3716	13 P	40	796.882	1.070E-06	3.910E-07	1.146E-07	2.503E-08	3.650E-09	2.990E-10	2574.410
3717	6 R	6	796.908	3.065E-04	1.950E-04	1.112E-04	5.481E-05	2.211E-05	6.698E-06	1301.810
3718	12 R	52	797.034	1.604E-06	4.693E-07	1.054E-07	1.662E-08	1.613E-09	7.831E-11	3083.585
3719	12 R	53	797.777	1.343E-06	3.858E-07	8.477E-08	1.302E-08	1.222E-09	5.880E-11	3125.115
3720	13 P	38	798.	1.365E-06	5.123E-07	1.551E-07	3.523E-08	5.397E-09	4.712E-10	2512.601
3721	6 R	8	798.467	3.630E-04	2.298E-04	1.02E-04	6.370E-05	2.545E-05	7.619E-06	1313.524
3722	12 R	54	798.488	1.120E-06	3.159E-07	6.788E-08	1.015E-08	9.211E-10	4.102E-11	3167.384
3723	13 P	39	799.136	1.222E-06	4.549E-07	1.350E-07	3.011E-08	4.508E-09	3.419E-10	2541.665
3724	6 R	10	799.986	1.709E-06	6.581E-07	2.054E-07	4.844E-08	7.179E-09	7.213E-10	2453.514
3725	6 R	10	800.026	4.065E-04	2.557E-04	1.438E-04	6.906E-05	2.750E-05	1.09E-06	1328.361
3726	13 P	37	800.517	1.543E-06	5.871E-07	1.806E-07	4.185E-08	6.573E-09	5.924E-10	2441.558
3727	13 P	34	801.544	2.101E-06	8.260E-07	2.663E-07	6.506E-08	1.092E-08	1.072E-09	2398.351
3728	6 R	1.	801.584	4.361E-04	2.721E-04	1.516E-04	7.259E-05	2.825E-05	8.177E-06	1346.321
3729	13 P	35	801.939	1.913E-06	7.460E-07	2.364E-07	5.682E-08	9.340E-09	8.926E-10	2424.567
3730	13 P	32	803.106	2.533E-06	1.022E-06	3.376E-07	8.531E-08	1.493E-08	1.547E-09	2345.512
3731	6 R	14	803.141	4.574E-04	2.791E-04	1.538E-04	7.265E-05	2.780E-05	7.674E-06	1367.404
3732	13 P	33	803.372	2.326E-06	9.291E-07	3.029E-07	7.533E-08	1.295E-08	1.306E-09	2370.694
3733	13 P	30	804.670	2.995E-06	1.235E-06	4.184E-07	1.987E-07	1.987E-08	2.166E-09	2252.555
3734	6 R	16	804.698	4.531E-04	2.774E-04	1.508E-04	7.015E-05	2.633E-05	7.274E-06	1391.609
3735	13 P	31	804.815	2.177E-06	1.133E-06	3.794E-07	9.748E-08	1.742E-08	1.854E-09	2319.538

LINE	BARID CODE	WAVE NUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
3736	13 P 28	806.237	3.470E-06	1.455E-06	5.056E-07	1.361E-07	2.571E-08	2.938E-09	2256.413
3737	6 R 18	806.255	4.425E-04	2.675E-04	1.435E-04	6.588E-05	2.408E-05	6.468E-06	1416.536
3738	13 P 29	806.267	3.248E-06	1.353E-06	5.645E-07	1.230E-07	2.284E-08	2.272E-09	2272.301
3739	13 P 27	807.729	3.721E-06	1.581E-06	5.52E-07	1.513E-07	2.911E-08	3.405E-09	2277.784
3740	13 P 26	807.836	3.934E-06	1.686E-06	5.987E-07	1.653E-07	3.222E-08	3.861E-09	2287.354
3741	6 R 20	807.811	4.215E-04	2.514E-04	1.327E-04	5.949E-05	2.132E-05	5.550E-06	1449.384
3742	13 P 25	809.203	4.170E-06	1.804E-06	6.475E-07	1.812E-07	3.602E-08	4.397E-09	2186.508
3743	6 R 22	809.367	3.923E-04	2.306E-04	1.196E-04	5.246E-05	1.830E-05	4.653E-06	1482.953
3744	13 P 24	809.376	4.362E-06	1.902E-06	6.897E-07	1.953E-07	3.943E-08	4.908E-09	2187.423
3745	13 P 23	810.680	4.568E-06	2.009E-06	7.356E-07	2.109E-07	4.324E-08	5.489E-09	2148.113
3746	6 R 24	810.923	3.572E-04	2.066E-04	1.051E-04	4.504E-05	1.522E-05	3.892E-06	1519.044
3747	13 P 22	810.743	4.723E-06	2.093E-06	7.734E-07	2.242E-07	4.662E-08	6.026E-09	2130.622
3748	13 P 21	812.168	4.880E-06	2.179E-06	8.128E-07	2.383E-07	5.025E-08	6.614E-09	2112.921
3749	6 R 26	812.479	3.184E-04	1.810E-04	9.019E-05	3.768E-05	1.236E-05	4.874E-06	1559.450
3750	13 P 20	812.520	4.982E-06	2.240E-06	8.426E-07	2.496E-07	5.331E-08	7.133E-09	2096.950
3751	13 P 19	813.664	5.074E-06	2.255E-06	8.715E-07	2.608E-07	5.642E-08	7.274E-09	2080.931
3752	6 R 28	814.035	2.763E-04	1.552E-04	7.563E-05	3.074E-05	9.747E-06	2.168E-06	1602.377
3753	13 P 18	814.093	5.108E-06	2.377E-06	8.895E-07	2.687E-07	5.880E-08	8.118E-09	2066.408
3754	13 P 17	815.168	5.120E-06	2.346E-06	9.039E-07	2.756E-07	6.100E-08	8.548E-09	2052.024
3755	6 R 30	815.552	2.385E-04	1.304E-04	6.201E-05	2.447E-05	7.480E-06	1.587E-06	1648.422
3756	13 P 16	815.666	5.070E-06	2.318E-06	9.064E-07	2.786E-07	6.233E-08	8.851E-09	2038.997
3757	13 P 15	816.679	4.989E-06	2.314E-06	9.029E-07	2.798E-07	6.223E-08	9.004E-09	2026.241
3758	6 R 32	817.149	2.086E-04	1.073E-04	4.975E-05	1.903E-05	5.591E-06	1.288E-06	1697.584
3759	13 P 14	817.233	4.846E-06	2.258E-06	8.677E-07	2.768E-07	6.313E-08	9.192E-09	2014.716
3760	13 P 13	818.197	4.664E-06	2.184E-06	8.625E-07	2.712E-07	6.240E-08	9.140E-09	2002.582
3761	6 R 34	818.707	1.656E-04	8.664E-05	3.917E-05	1.445E-05	4.072E-06	7.783E-07	1749.661
3762	13 P 12	818.812	4.421E-06	2.079E-06	8.255E-07	2.612E-07	6.059E-08	9.015E-09	1943.571
3763	13 P 11	819.722	4.136E-06	1.953E-06	7.792E-07	2.481E-07	5.798E-08	8.712E-09	1946.047
3764	6 R 36	820.265	1.343E-04	6.858E-05	3.004E-05	1.072E-05	2.891E-06	5.220E-07	1805.253
3765	13 P 10	820.384	3.794E-06	1.798E-06	7.207E-07	2.307E-07	5.428E-08	8.227E-09	1975.556
3766	13 P 9	821.254	3.410E-06	1.622E-06	6.525E-07	2.100E-07	4.971E-08	7.596E-09	1967.638
3767	6 R 38	821.825	1.070E-04	5.326E-05	2.263E-05	7.780E-06	2.002E-06	3.405E-07	1663.754
3768	13 P 8	821.773	2.977E-06	1.420E-06	5.736E-07	1.854E-07	4.414E-08	6.793E-09	1900.673
3769	13 P 7	822.773	2.504E-06	1.200E-06	4.861E-07	1.577E-07	.775E-08	5.847E-09	1954.354
3770	6 R 40	823.386	8.379E-05	4.205E-05	1.670E-05	5.519E-06	1.352E-06	2.157E-07	1425.776
3771	13 P 6	823.525	2.004E-06	9.610E-07	3.905E-07	1.271E-07	3.056E-08	4.760E-09	1548.923
3772	13 P 5	824.338	1.478E-06	7.100E-07	2.892E-07	9.444E-08	2.278E-08	3.566E-09	1944.155
3773	6 R 42	824.949	6.488E-05	3.037E-05	1.208E-05	3.830E-06	8.907E-07	1.330E-07	1990.104
3774	6 R 44	826.513	4.879E-06	2.231E-06	8.561E-06	2.600E-06	5.727E-07	7.974E-08	2037.950
3775	6 R 46	828.074	3.635E-05	1.809E-05	6.809E-06	1.727E-06	3.594E-07	4.652E-08	1228.099
3776	13 P 30	827.153	6.948E-06	2.863E-06	9.697E-07	2.528E-07	4.601E-08	5.013E-09	2256.549
3777	13 P 32	828.123	5.846E-06	2.558E-06	7.782E-07	1.965E-07	3.434E-08	3.562E-09	2342.912
3778	13 P 34	828.156	8.100E-06	3.405E-06	1.182E-06	3.173E-07	5.942E-08	6.846E-09	2250.413
3779	13 P 36	828.156	4.827E-06	1.903E-06	6.110E-07	1.492E-07	2.504E-08	2.458E-09	2326.351
3780	13 P 38	828.160	5.256E-06	3.965E-06	1.467E-06	3.883E-07	7.591E-08	9.666E-09	2207.354

LINE	BAND	MODE	WAVELENGTH	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	EMERG
3736	13 P 28		806.237	3.470E-06	1.459E-06	1.366E-07	1.361E-07	2.571E-06	2.536E-09	2250.413
3737	6 R 18		806.255	4.25E-04	2.675E-04	1.615E-04	6.528E-05	2.408E-05	6.560E-06	1418.520
3738	13 P 25		806.267	3.248E-06	1.353E-06	4.645E-07	1.230E-07	2.284E-06	2.552E-09	2271.301
3739	13 P 27		807.729	1.581E-06	5.52E-06	5.52E-07	1.513E-07	2.911E-06	3.405E-09	2227.764
3740	13 P 26		807.806	3.934E-06	4.006E-06	5.987E-07	1.653E-07	3.232E-08	3.661E-09	2207.354
3741	6 R 20		807.811	4.215E-04	2.514E-04	1.327E-04	5.949E-05	2.132E-05	5.550E-06	1449.384
3742	13 P 25		809.200	4.170E-05	1.804E-06	6.475E-07	1.812E-07	3.602E-08	4.397E-09	2186.388
3743	6 R 22		809.367	3.923E-04	2.306E-04	1.196E-04	5.246E-05	1.830E-05	4.631E-06	1482.953
3744	13 P 24		809.376	1.362E-06	1.902E-06	6.897E-07	1.954E-07	3.943E-08	4.908E-09	2167.423
3745	13 P 23		810.680	4.568E-06	2.005E-06	7.356E-07	2.109E-07	4.324E-06	5.489E-06	2148.113
3746	6 R 24		810.923	3.572E-04	2.066E-04	1.051E-04	4.504E-05	1.524E-05	3.695E-06	1519.642
3747	13 P 22		810.940	4.723E-06	2.092E-06	7.134E-07	2.242E-07	4.662E-08	6.020E-09	2130.677
3748	13 P 21		812.168	4.800E-06	2.170E-06	8.128E-07	2.383E-07	5.025E-08	6.614E-09	2116.424
3749	6 R 26		812.479	3.184E-04	1.810E-04	9.019E-05	3.768E-05	1.236E-05	2.074E-06	1559.450
3750	13 P 20		812.520	4.982E-06	2.240E-06	8.426E-07	2.496E-07	5.331E-08	7.133E-09	2096.450
3751	13 P 19		813.604	5.074E-05	2.298E-06	8.715E-07	2.608E-07	5.642E-08	7.674E-09	2080.931
3752	6 R		814.033	2.783E-04	1.552E-04	7.563E-05	3.074E-05	9.747E-06	2.168E-06	1602.377
3753	13 P 17		814.093	5.108E-06	2.327E-06	8.895E-07	2.667E-07	5.805E-08	8.118E-09	2066.408
3754	6 R 30		815.148	5.10E-06	2.346E-06	9.039E-07	2.756E-07	6.100E-08	8.548E-09	2052.024
3755	6 R 30		815.592	2.385E-04	1.304E-04	6.201E-05	2.447E-05	7.480E-06	1.587E-06	1648.422
3756	13 P 16		815.666	5.070E-06	2.338E-06	9.064E-07	2.786E-07	6.233E-08	8.851E-09	2038.997
3757	13 P 15		816.679	4.989E-06	2.114E-06	9.079E-07	2.798E-07	6.323E-08	9.098E-09	2026.241
3758	6 R 32		817.149	2.006E-04	1.073E-04	4.975E-05	1.903E-05	5.591E-06	1.128E-06	1697.584
3759	13 P 14		817.235	4.846E-06	2.258E-06	8.867E-07	2.768E-07	6.313E-08	9.192E-09	2014.718
3760	13 P 13		818.197	4.664E-06	2.184E-06	8.625E-07	2.712E-07	6.240E-08	9.190E-09	2003.582
3761	6 R 34		818.707	1.56E-04	8.664E-05	3.907E-05	1.445E-05	4.071E-06	7.71E-07	1745.861
3762	13 P 12		818.812	4.421E-06	2.079E-06	8.255E-07	2.612E-07	6.017E-08	7.61E-09	1993.571
3763	13 P 11		819.722	4.136E-06	1.953E-06	7.792E-07	2.481E-07	5.798E-08	8.71E-09	1984.047
3764	6 R 36		820.265	1.343E-04	6.858E-05	3.004E-05	1.072E-05	2.801E-06	5.22E-07	1805.253
3765	13 P 10		820.384	3.794E-06	1.798E-06	7.207E-07	2.307E-07	5.428E-08	6.22E-09	1975.556
3766	13 P 9		821.254	3.411E-06	1.622E-06	6.525E-07	2.100E-07	4.971E-08	7.590E-09	1967.638
3767	6 R 38		821.825	1.070E-04	5.326E-05	2.263E-05	7.780E-06	2.002E-06	4.003E-07	1863.754
3768	13 P 6		821.955	2.977E-06	1.420E-06	5.736E-07	1.854E-07	4.414E-08	6.791E-09	1960.673
3769	13 P 7		822.793	2.501E-06	1.200E-06	4.861E-07	1.577E-07	3.775E-08	5.447E-09	1954.354
3770	6 R 40		823.386	8.374E-05	4.059E-05	1.670E-05	5.519E-06	1.252E-06	2.157E-07	1425.378
3771	13 P 6		823.525	2.004E-06	9.610E-07	3.905E-07	1.271E-07	3.056E-08	4.760E-09	1746.423
3772	13 P 5		824.338	1.478E-06	7.100E-07	2.892E-07	9.444E-08	2.278E-08	3.566E-09	1944.155
3773	6 R 42		824.949	3.037E-05	3.037E-05	1.208E-05	3.830E-06	8.907E-07	1.330E-07	1910.109
3774	6 R 44		826.513	4.879E-06	2.231E-06	8.561E-06	2.600E-06	5.727E-07	1.974E-08	2071.950
3775	6 R 46		828.079	3.830E-05	1.609E-05	5.950E-06	1.777E-06	3.594E-07	4.652E-08	2128.699
3776	13 P 30		828.153	6.948E-06	2.863E-06	9.697E-07	2.526E-07	4.601E-08	5.613E-09	2116.599
3777	13 P 32		828.123	5.846E-06	2.358E-06	7.742E-07	1.965E-07	3.434E-08	3.562E-09	2345.912
3778	13 P 29		828.156	8.100E-06	3.405E-06	1.182E-06	3.173E-07	5.922E-08	6.846E-09	2150.413
3779	1 P 3		828.156	4.827E-06	1.902E-06	6.110E-07	1.492E-07	2.504E-08	2.458E-09	2348.351
3780	1 P 2		828.160	5.250E-06	3.905E-06	1.407E-06	3.883E-07	1.11E-08	9.660E-09	2207.354

LINE	BAND CODE	WAVENUMBER	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
3781	13 Q 36	828.162	3.913E-06	1.505E-06	4.696E-07	1.107E-07	1.77E-08	1.667E-09	2453.514
3782	13 Q 24	828.165	1.036E-05	4.515E-06	1.636E-06	4.633E-07	9.349E-08	1.663E-08	2167.423
3783	13 Q 38	828.171	3.115E-06	1.168E-06	3.534E-07	8.024E-08	1.229E-08	1.072E-09	2512.601
3784	13 Q 22	828.172	1.134E-05	5.024E-06	1.856E-06	5.380E-07	1.181E-07	1.445E-08	2130.622
3785	13 Q 20	828.179	1.214E-05	5.455E-06	2.051E-06	6.075E-07	1.297E-07	1.735E-08	2096.950
3786	13 Q 40	828.185	2.437E-06	8.895E-07	2.605E-07	5.686E-08	8.288E-09	6.788E-10	2574.410
3787	13 Q 18	828.186	1.267E-05	5.764E-06	2.204E-06	6.657E-07	1.456E-07	2.011E-08	2066.408
3788	13 Q 16	828.194	1.286E-05	5.930E-06	2.298E-06	7.064E-07	1.580E-07	2.243E-08	2038.997
3789	13 Q 14	828.201	1.267E-05	5.904E-06	2.318E-06	7.235E-07	1.650E-07	2.402E-08	2016.718
3790	13 Q 42	828.203	1.873E-06	6.647E-07	1.882E-07	3.940E-08	5.452E-09	4.377E-10	2639.341
3791	13 Q 12	828.208	1.205E-05	5.667E-06	2.244E-06	7.116E-07	1.650E-07	2.455E-08	1993.571
3792	13 Q 10	828.214	1.098E-05	5.202E-06	2.084E-06	6.671E-07	1.570E-07	2.379E-08	1975.556
3793	13 Q 8	828.219	9.450E-06	4.508E-06	1.820E-06	5.882E-07	1.400E-07	2.155E-08	1960.673
3794	13 Q 6	828.224	7.489E-06	3.591E-06	1.459E-06	4.750E-07	1.142E-07	1.778E-08	1948.923
3795	13 Q 4	828.227	5.106E-06	2.458E-06	1.003E-06	3.283E-07	7.946E-08	1.244E-08	1940.307
3796	13 Q 44	828.227	1.415E-06	4.875E-07	1.332E-07	2.670E-08	3.499E-09	2.500E-10	2707.392
3797	13 Q 2	828.229	2.157E-06	1.041E-06	4.260E-07	1.399E-07	3.401E-08	5.375E-09	1936.823
3798	13 Q 3	828.239	3.733E-06	1.794E-06	7.355E-07	2.413E-07	5.853E-08	9.228E-09	1937.162
3799	13 Q 5	828.254	6.353E-06	3.052E-06	1.243E-06	4.560E-07	9.794E-08	1.533E-08	1944.195
3800	13 Q 46	828.257	1.051E-06	3.511E-07	9.241E-08	1.770E-08	2.192E-09	1.455E-10	2776.562
3801	13 Q 7	828.274	8.225E-06	4.078E-06	1.652E-06	5.360E-07	1.283E-07	1.987E-08	1954.354
3802	13 Q 9	828.301	1.027E-05	4.866E-06	1.966E-06	6.324E-07	1.497E-07	2.288E-08	1967.638
3803	13 Q 11	828.335	1.158E-05	5.648E-06	2.181E-06	6.943E-07	1.622E-07	2.437E-08	1944.047
3804	13 Q 13	828.376	1.243E-05	5.820E-06	2.498E-06	7.424E-07	1.662E-07	2.447E-08	2003.582
3805	13 Q 15	828.423	1.286E-05	5.951E-06	2.322E-06	7.195E-07	1.626E-07	2.339E-08	2026.241
3806	13 Q 17	828.478	1.283E-05	5.882E-06	2.264E-06	6.902E-07	1.527E-07	2.140E-08	2054.024
3807	13 Q 19	828.540	1.246E-05	5.642E-06	2.139E-06	6.401E-07	1.384E-07	1.883E-08	2080.431
3808	13 Q 21	828.609	1.180E-05	5.266E-06	1.964E-06	5.756E-07	1.213E-07	1.597E-08	2112.461
3809	13 Q 23	828.686	1.090E-05	4.793E-06	1.755E-06	5.029E-07	1.032E-07	1.306E-08	2148.113
3810	13 Q 25	828.772	9.854E-06	4.260E-06	1.528E-06	4.275E-07	8.498E-08	1.037E-08	2186.388
3811	13 Q 27	828.866	8.718E-06	3.702E-06	1.300E-06	3.540E-07	6.808E-08	7.562E-09	2227.764
3812	13 Q 29	828.968	7.558E-06	3.147E-06	1.080E-06	2.858E-07	5.305E-08	5.426E-09	2272.301
3813	13 Q 31	829.060	6.425E-06	2.620E-06	8.767E-07	2.252E-07	4.022E-08	4.274E-09	2319.538
3814	13 Q 33	829.201	5.359E-06	2.138E-06	6.965E-07	1.732E-07	2.970E-08	2.999E-09	2370.694
3815	13 Q 35	829.333	4.387E-06	1.709E-06	5.815E-07	1.301E-07	2.137E-08	2.042E-09	2424.567
3816	13 Q 37	829.474	3.527E-06	1.341E-06	4.122E-07	9.548E-08	1.499E-08	1.350E-09	2481.258
3817	13 Q 39	829.627	2.786E-06	1.031E-06	3.073E-07	6.849E-08	1.025E-08	8.640E-10	2541.665
3818	6 R 48	829.648	2.656E-05	1.140E-05	4.052E-06	1.122E-06	2.202E-07	2.641E-08	2202.457
3819	13 Q 41	829.791	2.162E-06	7.788E-07	2.245E-07	4.804E-08	6.835E-09	5.425E-10	2604.888
3820	13 R 1	829.798	3.921E-06	1.893E-06	7.752E-07	2.544E-07	6.204E-08	9.820E-09	1933.255
3821	13 Q 43	829.967	1.649E-06	5.771E-07	1.607E-07	3.296E-08	4.447E-09	3.497E-10	2671.224
3822	13 Q 45	830.156	1.237E-06	4.199E-07	1.127E-07	2.222E-08	2.823E-09	1.944E-10	2740.673
3823	13 R 2	830.578	4.328E-06	2.088E-06	8.545E-07	2.807E-07	6.822E-08	1.078E-08	1934.823
3824	6 R 50	831.219	1.914E-05	7.934E-06	2.710E-06	7.140E-07	1.317E-07	1.459E-08	480.120
3825	13 R 3	831.372	4.840E-06	2.323E-06	9.444E-07	3.114E-07	7.554E-08	1.191E-08	1537.162

LINE	BAND CODE	WAVELENGTH	T=300K	T=275K	T=250K	T=225K	T=200K	T=175K	ENERGY
3376	13 M 4	832.142	5.322E-06	2.561E-06	1.045E-06	4.422E-07	8.280E-08	1.361E-08	1440.367
384	6 R 24	832.793	1.354E-05	5.425E-06	1.777E-06	4.446E-07	7.691E-08	7.848E-09	2300.388
382	13 R 5	832.952	5.811E-06	2.192E-06	1.137E-06	3.712E-07	6.955E-08	1.402E-08	1944.195
3827	13 R 6	833.705	6.266E-06	3.004E-06	1.240E-06	3.973E-07	9.547E-08	1.487E-08	1448.923
3330	6 M 54	834.371	9.432E-06	3.644E-06	1.143E-06	2.711E-07	4.386E-08	4.109E-09	2443.760
3831	13 R 7	834.538	6.685E-06	3.197E-06	1.299E-06	4.201E-07	1.005E-07	1.557E-08	1954.354
3832	13 R 8	835.266	7.052E-06	2.363E-06	1.358E-06	4.387E-07	1.044E-07	1.607E-08	1900.673
3833	6 R 56	835.951	6.466E-06	2.406E-06	7.209E-07	1.618E-07	2.444E-08	2.094E-09	2530.233
3834	13 R 5	836.132	7.374E-06	3.506E-06	1.410E-06	4.537E-07	1.074E-07	1.641E-08	1467.638
3835	13 R 10	836.827	7.634E-06	3.617E-06	1.449E-06	4.638E-07	1.091E-07	1.653E-08	1475.556
3836	6 R 58	837.536	4.362E-06	1.561E-06	4.463E-07	9.459E-08	1.310E-08	1.039E-09	2614.806
3837	13 R 11	837.731	7.848E-06	3.705E-06	1.477E-06	4.703E-07	1.099E-07	1.651E-08	1984.047
3838	13 R 12	838.387	7.992E-06	3.757E-06	1.491E-06	4.717E-07	1.094E-07	1.627E-08	1993.571
3839	6 R 60	839.125	2.896E-06	9.350E-07	2.711E-07	5.415E-08	7.068E-09	5.022E-10	2712.477
3840	13 M 13	839.338	8.094E-06	3.748E-06	1.793E-06	4.700E-07	1.081E-07	1.594E-08	2003.582
3841	13 14	839.946	8.122E-06	3.783E-06	1.485E-06	4.634E-07	1.056E-07	1.538E-08	2014.718
3842	6 M 62	840.718	1.892E-06	6.236E-07	1.616E-07	3.036E-08	3.670E-09	2.364E-10	2808.244
3843	13 R 15	840.951	8.116E-06	3.762E-06	1.467E-06	4.546E-07	1.027E-07	1.477E-08	2026.241
3844	13 M 16	841.504	8.037E-06	3.704E-06	1.433E-06	4.410E-07	9.860E-08	1.400E-08	2034.997
3845	6 R 64	842.317	1.217E-06	3.841E-07	9.451E-08	1.667E-08	1.862E-09	1.063E-10	2907.106
3846	13 R 17	842.571	7.933E-06	3.636E-06	1.399E-06	4.263E-07	9.434E-08	1.242E-08	2052.024
3847	13 R 18	843.062	7.758E-06	3.533E-06	1.349E-06	4.074E-07	8.912E-08	1.230E-08	2066.408
3848	13 R 19	844.198	7.573E-06	3.427E-06	1.299E-06	3.885E-07	8.401E-08	1.142E-08	2080.941
3849	13 M 20	844.620	7.319E-06	3.289E-06	1.236E-06	3.665E-07	7.813E-08	1.045E-08	2096.950
3850	13 R 21	845.833	7.069E-06	3.154E-06	1.174E-06	3.445E-07	7.261E-08	9.554E-09	2112.461
3851	13 R 22	846.178	6.755E-06	2.991E-06	1.105E-06	3.201E-07	6.652E-08	8.594E-09	2130.622
3852	13 R 23	847.475	6.460E-06	2.838E-06	1.039E-06	2.976E-07	6.099E-08	7.739E-09	2148.113
3853	13 R 24	847.737	6.107E-06	2.661E-06	9.639E-07	2.748E-07	5.505E-08	6.848E-09	2167.423
3854	13 R 25	849.126	5.784E-06	2.499E-06	8.965E-07	2.507E-07	4.981E-08	6.078E-09	2186.388
3855	13 M 26	849.296	5.411E-06	2.317E-06	8.220E-07	2.268E-07	4.432E-08	5.242E-09	2207.354
3856	13 R 27	850.784	5.079E-06	2.155E-06	7.564E-07	2.060E-07	3.960E-08	4.630E-09	2227.784
3857	13 R 28	850.857	4.703E-06	1.976E-06	6.854E-07	1.840E-07	3.473E-08	3.468E-09	2250.413
3858	13 M 29	852.419	4.011E-06	1.652E-06	5.592E-07	1.452E-07	2.651E-08	2.886E-09	2296.544
3859	13 M 30	852.451	4.375E-06	1.821E-06	6.243E-07	1.652E-07	3.065E-08	3.424E-09	2272.301
3860	13 R 32	853.983	3.358E-06	1.354E-06	4.465E-07	1.127E-07	1.972E-08	2.042E-09	2345.912
3861	13 R 31	854.127	3.659E-06	1.508E-06	5.043E-07	1.295E-07	2.312E-08	2.459E-09	2319.938
3862	13 R 34	855.549	2.761E-06	1.088E-06	3.494E-07	8.524E-08	1.430E-08	1.403E-09	2348.351
3863	13 R 33	855.813	3.071E-06	1.255E-06	3.984E-07	9.910E-08	1.699E-08	1.716E-09	2370.654
3864	13 R 36	857.119	2.231E-06	8.577E-07	2.674E-07	6.301E-08	1.011E-08	9.369E-10	2453.514
3865	13 M 35	857.538	2.505E-06	9.756E-07	3.089E-07	7.415E-08	1.216E-08	1.163E-09	2424.567
3866	13 M 38	858.692	1.771E-06	6.637E-07	2.007E-07	4.554E-08	6.971E-09	6.042E-10	2512.601
3867	13 M 37	859.213	2.008E-06	7.627E-07	2.344E-07	5.425E-08	8.314E-09	7.669E-10	2481.558
3868	13 M 40	860.269	1.382E-06	5.041E-07	1.476E-07	3.219E-08	4.690E-09	3.840E-10	2574.410
3869	13 M 39	860.930	1.582E-06	5.852E-07	1.743E-07	3.881E-08	5.606E-09	4.710E-10	2541.605
3870	13 M 42	861.850	1.060E-06	3.154E-07	1.064E-07	2.225E-08	3.079E-09	2.358E-10	2639.341
3871	13 R 41	862.657	1.225E-06	4.408E-07	1.270E-07	2.710E-08	3.863E-09	3.065E-10	2604.888